Annual Scientific Report
2019
Instituto de Investigación Sanitaria
Gregorio Marañón

This Annual Scientific Report 2019 from IiSGM was prepared by the Fundación para la Investigación Biomédica of Hospital Gregorio Marañón and Instituto de Investigación Sanitaria Gregorio Marañón, with additional funding from the European Union via the European Regional Development Fund and the European Social Fund.

UNIÓN EUROPEA
Fondo Social Europeo
El FSE invierte en tu futuro

Unión Europea
Fondo Europeo
de Desarrollo Regional
"Una manera de hacer Europa"

Index


***1***

*1.01 Advanced technological applications and human health*.....125
*1.02 Signal processing*.....137
*1.03 Computer architecture, communications, and systems: ARCOS*.....142
*1.04 Nonparametric statistical and intensive computing techniques*.....144

***2***

*2.01 Natural history of heart disease*.....147
*2.02 Cardiovascular pathophysiology*.....164
*2.03 Cardiac celular electrophysiology*.....166
*2.05 Cardiology and heart transplantation in children*.....170
*2.06 Blood lipids and cardiovascular risk*.....174
*2.07 Acute cerebral ischemia. Stroke*.....179

***3***

*3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment*.....182
*3.03B Neurological diseases*.....196

***4***

*4.01 Infectious diseases*.....204
*4.02 Clinical and epidemiological aspect of HIV and associated conditions*.....226

***5***

*5.01 Pathophysiology and clinical investigation of chronic inflammatory and immune diseases*.....235
*5.03 Autoinmune systemic diseases*.....253
*5.05 Pathogenesis of the immunoallergic response* 260
*5.06 Immune regulation and homeostasis in diseases of the immune system*.....263
*5.07 Infections in pediatric patients*.....267

***6***

*6.01 Interdisciplinary oncology and biotechnology* .280
*6.02 Traslational medical oncology and personalized cancer therapy*.....283
*6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell trasplantation*.....294
6.04 Surgical oncology.....302

***7***

*7.01 Inflammation and vascular damage in chronic kidney disease,*.....305
*7.02 Pathophysiology and natural history of liver and digestive diseases*.....312
*7.04 Diseases of the critically ill child*.....321
*7.05B. Medical-surgical, physiological, and therapeutic aspects of respiratory diseases*.....328
*7.06 Regenerative medicine in plastic surgery*.....335
*7.07 Experimental kidney transplant*.....337
*7.08 Pediatric endocrinology*.....339
*7.10 Regeneration and biomaterials in musculoskeletal diseases*.....340
*7.11 Iron metabolism disorders*.....343
*7.12 Emergency medicine*.....345
*7.16 Regenerative medicine and system development: cardiovascular and osteochondral*.....346
*7.18 Peritransplant evaluation of the liver*.....349
*7.19 Perianesthesia assessment*.....352
*7.20 Anesthesia, toxins, and arrhythmias*.....354
*7.21 Biopathology of aging*.....356
*7.22 Neonatal and developmental physiology*.....359
*7.25 Artificial Circulation Laboratory*.....364
*7.26 Evaluation of health services and clinical epidemiology*.....370
*7.27 Hospital pharmacy and pharmacogenomics* ...372
7.28 Clinical nutrition.....377
7.29 Pharmacology and vascular pathophysiology ...380
7.31 Pathophysiology in women, pregnancy, labor, and puerperium.....383
7.32 Physical medicine and rehabilitation.....386

***A***

AREA 2 CARDIOVASCULAR DISEASES.....146
AREA 1 BIOMEDICAL ENGINEERING.....124
AREA 1 BIOMEDICAL ENGINEERING.....124
**AREA 1: BIOMEDICAL ENGINEERING**.....66
**AREA 2: CARDIOVASCULAR DISEASE**.....72
**AREA 3 NEUROSCIENCE AND MENTAL HEALTH**.....77
AREA 3 NEUROSCIENCE AND MENTAL HEALTH.....181
AREA 4 INFECTIOUS DISEASES AND AIDS.....203
**AREA 4: INFECTIOUS DISEASES AND AIDS**.....82
AREA 5 DISEASES OF THE IMMUNE SYSTEM.....234
**AREA 5: DISEASES OF THE IMMUNE SYSTEM**.....85
AREA 6 TRASLATIONAL ONCOLOGY.....279
**AREA 6: TRANSLATIONAL ONCOLOGY**.....90
AREA 7 SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION.....304
**AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION**.....91

***B***

Bioinformatics Unit.....448

***C***

Cardiac Imagin Unit.....429
Cell Culture Unit.....447
**CELL PLATFORM**.....43
CLINICAL AND OBSERVATIONAL STUDIES.....62
CLINICAL PRACTICE GUIDELINES.....110
Confocal Microscopy Unit.....447
COOPERATIVE RESEARCH STRUCTURES.....122

***D***

**DOCTORAL THESES DEFENDED**.....118

***E***

EXECUTIVE SUMMARY ..... 7

***F***

Flow Citometry and cell sorter Unit ..... 442
FUNDING OF IiSGM ..... 63

***G***

Genomics Unit ..... 447
**GLOBAL ANALYSIS**
GLOBAL ANALYSIS ..... 7

***I***

INTRODUCTION ..... 6

***L***

LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH ..... 66

***M***

Methodology and Biostatistics Unit ..... 428
**MOLECULAR PLATFORM** ..... 49

***N***

**NURSING CARE GROUP** ..... 98
**NURSING RESEARCH GROUP** ..... 388

***O***

**ORGAN PLATFORM** ..... 34
OTHER RESEARCH ACTIVITIES ..... 392

***P***

PARTNER COMPANIES ..... 449
**PATIENT PLATFORM** ..... 28
PRESENTATION ..... 5
Publications generated by **clinical researchers associated** with the IiSGM ..... 392
Publications generated with **the participation of the Research Suppot Services** (RSSs) ..... 428

***S***

SCIENTIFIC ACTIVITY BY AREA ..... 124
SCIENTIFIC PUBLICATIONS ..... 99

***T***

TRAINING: COURSES, SEMINARS, AND ONE-DAY TRAINING SESSIONS ..... 116

# 1. PRESENTATION



Thank you very much

**Dr. Ismael Buño Borde**
*Scientific Director*
*IiSGM*

**Dr. Joseba Barroeta Urquiza**
*Managing Director*
*Hospital General Universitario Gregorio Marañón*

# 2. INTRODUCTION



**Mission**

IiSGM is an institution that aims to carry out the highest quality cooperative translational research for generation of knowledge and fast application of advances in care practice and that contributes to the training of researchers.
All in all, to favor the efficiency of the National Health System by providing added value.

**Vision**

IiSGM must position itself as a leading center in biomedical investigation and technological and scientific innovation at both National and international level through quality groundbreaking cooperative multidisciplinary activity by generating innovative and efficient responses to the main challenges facing the public health.

**Values**

Ethics, leadership competitiveness, commitment, excellence, and innovation.

The Institute is made up of the following bodies:

- Servicio Madrileño de Salud (SERMAS [Madrid Health Service]) through Hospital Universitario Gregorio Marañón, which is the basic core of the Institute, and groups from primary care in the hospital's catchment area
- Universidad Complutense de Madrid (UCM)
- Universidad Carlos III de Madrid (UCIII MADRID)
- Fundación para la investigación biomédica del Hospital Gregorio Marañón (FIBHGM [Foundation for Biomedical Researchof Hospital Gregorio Marañón]) as the management body, and
- Dirección General de Investigación, Formación e Infraestructuras Sanitarias (General Directorate for Research, Training, and Health Infrastructure) of the Consejería de Sanidad de la Comunidad de Madrid (Health Council of the Autonomous Community of Madrid).

Bodies that constitute the Institute of Health Research in Hospital Gregorio Marañón (IiSGM):

# 3. EXECUTIVE SUMMARY

## GLOBAL ANALYSIS

Analysis of the scientific production of IiSGM and its bibliometric impact is an essential element in the evaluation of the Institute's research activity, given that both factors reflect the competitiveness of its researchers
In order to prepare this research report, we analyzed journals indexed in **Web of Science** and in **PubMed**, an open-access database specialized in health sciences.

It is important to note that before being assigned to the different research Areas and Groups, the only publications considered were those in which IiSGM, Hospital General Universitario Gregorio Marañón, or both were included in the institutional affiliation data in Web of Science. Nevertheless, as a somewhat novel aspect of this new edition and thanks to the recent implementation of the scientific management tool Fund@net, the search for publications is made based on the name(s) that the individual researcher at the Institute has pointed out as being his/her own.

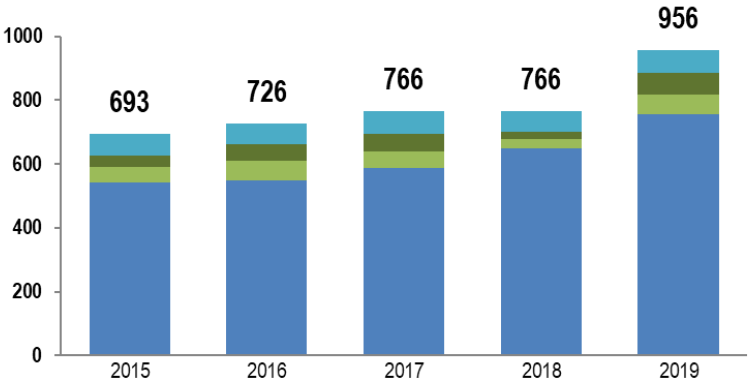
As in previous years, the total sum for the impact factor only takes into account information from indexed publications (eg, original articles, reviews, editorials, and proceedings papers) and **excludes** other types of publication (eg, letters to the editor and case reports). Of note, the impact factor presented in the figures corresponds to the relevant year of publication

Publications involving different groups or areas of the Institute are counted individually in each group and area, although only once for the calculation of the total impact factor of the Institute.

The objective of the methodology used is none other than to apply internationally validated bibliometric tools for the analysis of scientific production, thus ensuring the robustness of the data contained in this Research Report

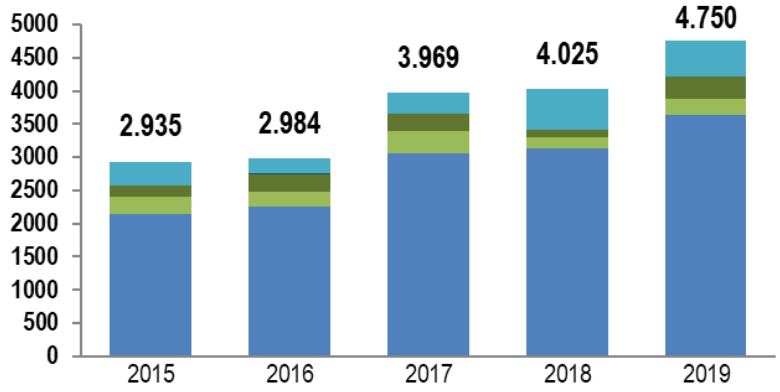
The following graphs provide a quantitative representation of the scientific output of IiSGM during the year 2019.

The graphs show strong consolidation of the growth trend observed in recent years, with a total of **956** indexed publications (884 excluding letters), which represent a global impact factor over **4750** points [4210 excluding letters], that is, an increase of **1815** points since 2015, as well as an increase of **725** points with respect to the previous year and **61,8 %** in the last 5 years.




| | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|
| Letter | 65 | 63 | 71 | 66 | 72 |
| Proceedings Paper | | 2 | | | |
| Review | 36 | 52 | 55 | 22 | 67 |
| Editorial Material | 50 | 61 | 53 | 30 | 62 |
| Article | 542 | 548 | 587 | 648 | 755 |
| Total general | 693 | 726 | 766 | 766 | 956 |

Scientific output of IiSGM in indexed journals with impact factor:
**NUMBER OF PUBLICATIONS BY TYPE OF PUBLICATION**

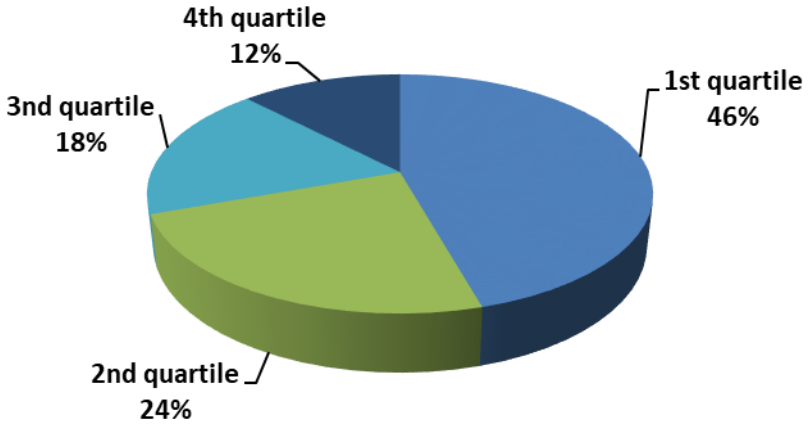



| | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|
| Letter | 365 | 235 | 314 | 606 | 540 |
| Proceedings Paper | | 5 | | | |
| Review | 170 | 272 | 254 | 118 | 329 |
| Editorial Material | 258 | 217 | 350 | 171 | 246 |
| Article | 2142 | 2257 | 3051 | 3130 | 3636 |
| Total general | 2935 | 2984 | 3969 | 4025 | 4750 |

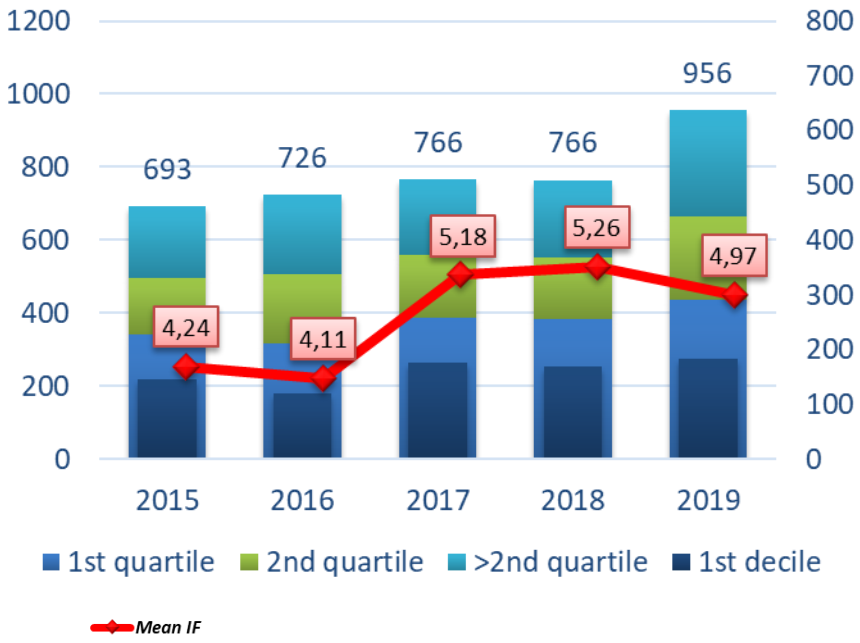
Scientific output of IiSGM:
**TOTAL IMPACT FACTOR BY TYPE OF PUBLICATION**

The previous figures summarizes the total impact factor corresponding to the scientific production of the IiSGM for each of the last 5 years and its distribution according to the different types of publication

As can be observed, in this year 2019 the highest impact factor corresponds (in order) to: original articles, review and editorials It is important to note that, once again this year, the increase in the overall impact factor was mainly due to the increase in the number of original articles.




Scientific output of IiSGM in indexed journals with impact factor:
**DISTRIBUTION BY QUARTILES (Relative to 2019)**

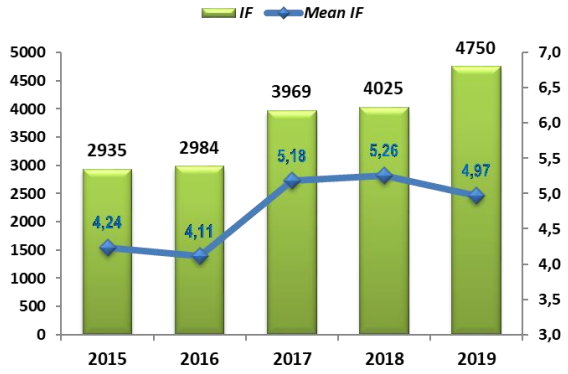


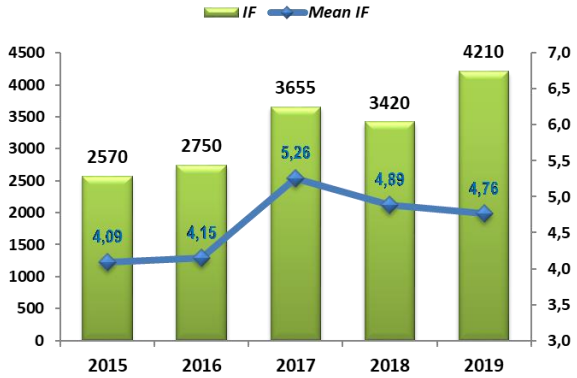

Scientific output of IiSGM in indexed journals with impact factor:

**DISTRIBUTION OF PUBLICATIONS BY DECILES AND QUARTILES**

(absolute values)

The distribution of IiSGM publications according to quartile and decile is shown in the previous -figures. The absolute number of first-decile and first quartile publications continues to be greater than last year.

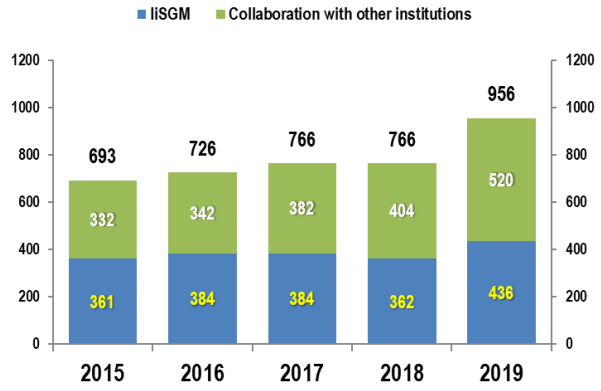


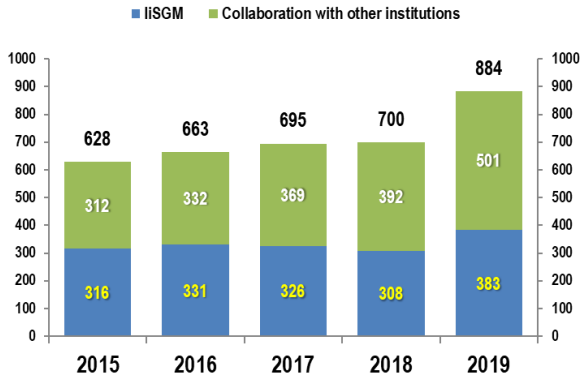

Including letters

No letters

**GLOBAL IMPACT FACTOR AND MEAN IMPACT FACTOR BY PUBLICATION**



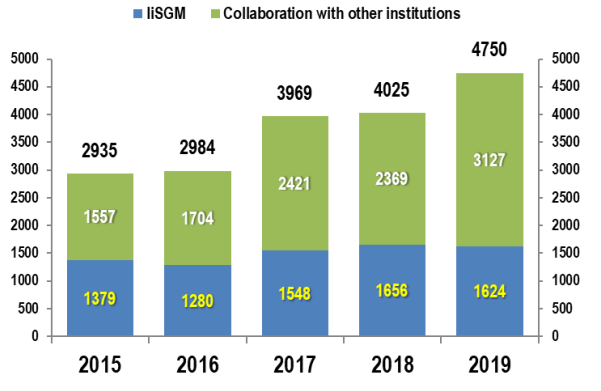

Including letters



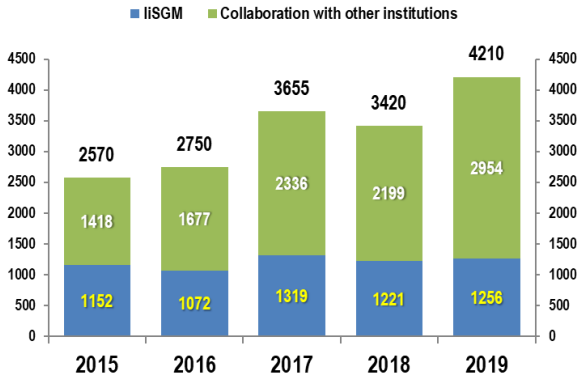

No letters

Scientific output of IiSGM in indexed journals with impact factor:

**TOTAL NUMBER OF PUBLICATIONS**




Including letters




No letters

Scientific output of IiSGM in indexed journals with impact factor:

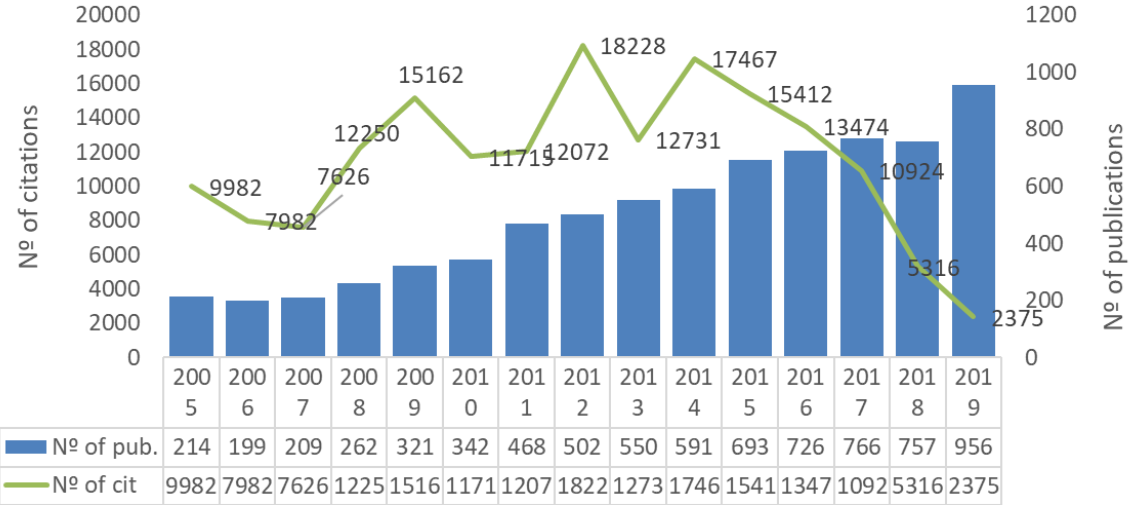
**IMPACT FACTOR**

The analysis of activity specifically includes publications whose principal authors (first, last, or corresponding author) are IiSGM researchers.

As for collaborative scientific output:

1. With letters: **54.4 % of publications** and **65.8 % of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **45.6 % of the scientific output of IiSGM** is accounted for by articles whose **main authors belong to the Institute**.

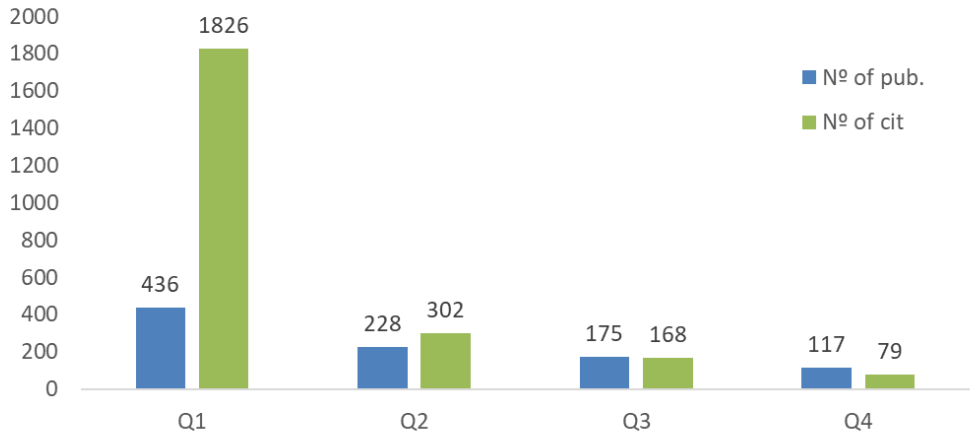
2. Without letters: **56.7 % of publications** and **70.2 % of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **43.3 % of the scientific output of IiSGM** is accounted for by articles whose **main authors belong to the Institute**




| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nº of pub. | 214 | 199 | 209 | 262 | 321 | 342 | 468 | 502 | 550 | 591 | 693 | 726 | 766 | 757 | 956 |
| Nº of cit | 9982 | 7982 | 7626 | 1225 | 1516 | 1171 | 1207 | 1822 | 1273 | 1746 | 1541 | 1347 | 1092 | 5316 | 2375 |

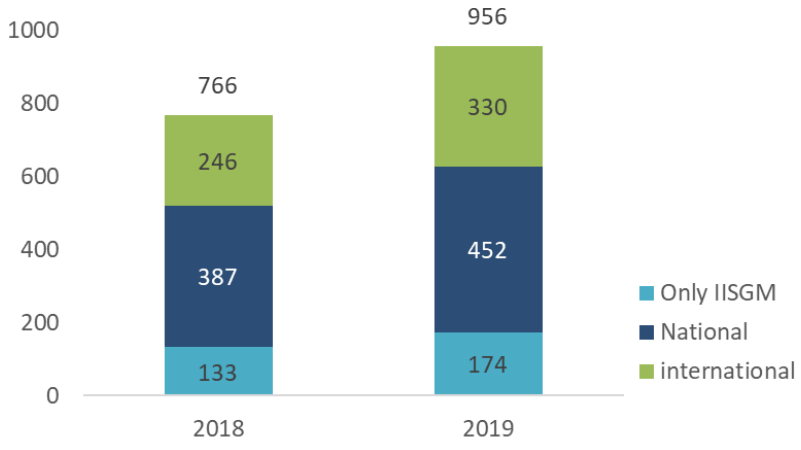
## NUMBER OF PUBLICATIONS AND CITATIONS (no letters)

The number of citations for Institute publications over time is logically greater in older publications, although the number of citations in relatively recent publications (2008-2012) is noteworthy, as is the number of first-quartile citations




NUMBER OF PUBLICATIONS AND CITATIONS BY QUARTILE

It is important to highlight the number of collaborations between the IiSGM research groups with other national and international research groups and their evolution over time: **34.52%** of the scientific output of the IISGM is in **collaboration with other international research groups. 47.28%** with **other Spanish groups** and the rest (**18.2%)** are **IiSGM's own publications**.




Scientific production of IiSGM in indexed journals with impact factor:

NUMBER OF PUBLICATIONS

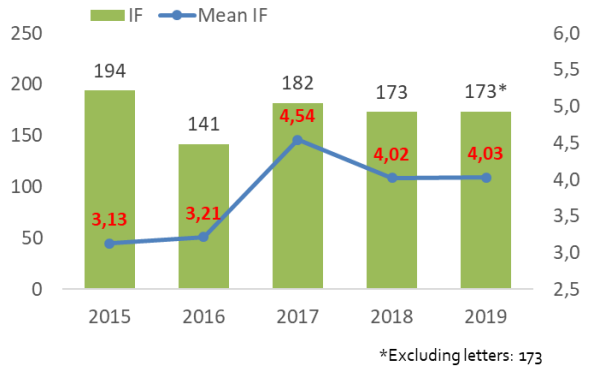
Finally, one of the most relevant elements within the scientific structure of health research institutes is the grouping of research activity to priority areas, which are characterized by their scientific and social relevance and by their capacity for transferring knowledge to society

IiSGM has **seven priority research areas** whose scientific activity is set out in detail below in 2 figures per Research Area:

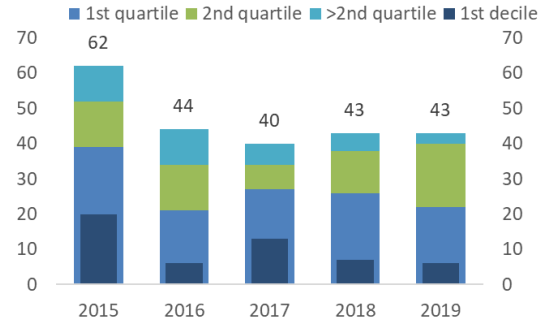
- **the first (on the left) summarizes the total impact factor together with the mean impact factor by publication**
- **the second (on the right) summarizes the scientific output of the research area distributed by first decile and quartiles.**

Both figures show the scientific output for the last 5 years:

## AREA 1: BIOMEDICAL ENGINEERING

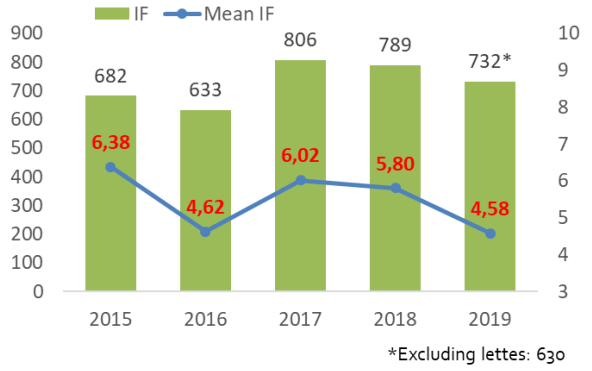



Scientific output of Area 1 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

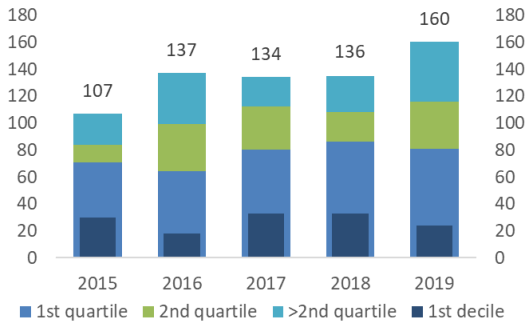



Scientific output of Area 1 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 2: CARDIOVASCULAR DISEASES

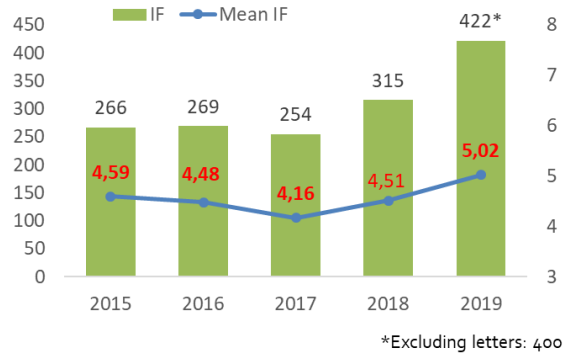



Scientific output of Area 2 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

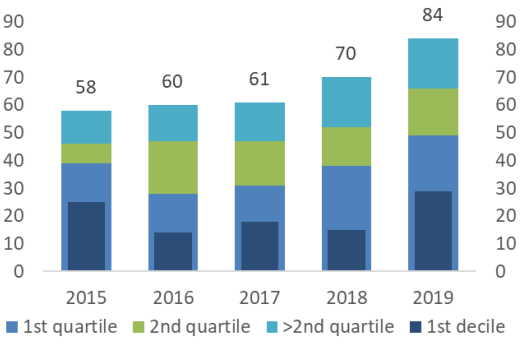



Scientific output of Area 2 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

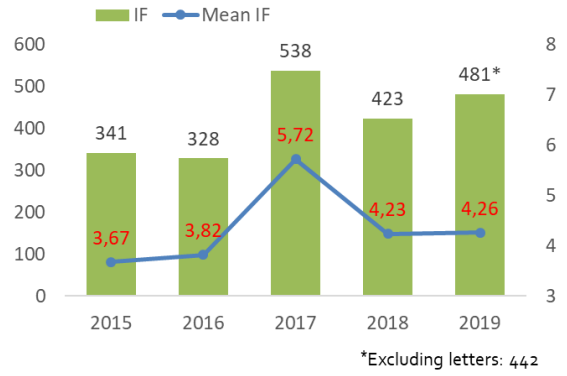



Scientific output of Area 3 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

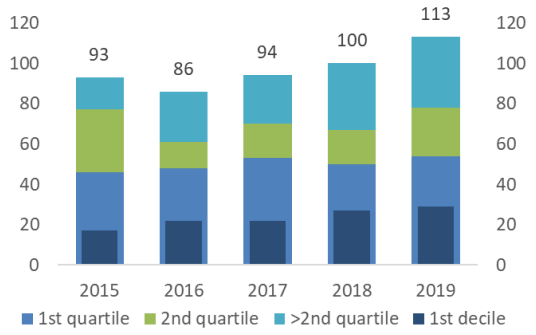



Scientific output of Area 3 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 4: CLINICAL MICROBIOLOGY, INFECTIOUS DISEASES AND AIDS

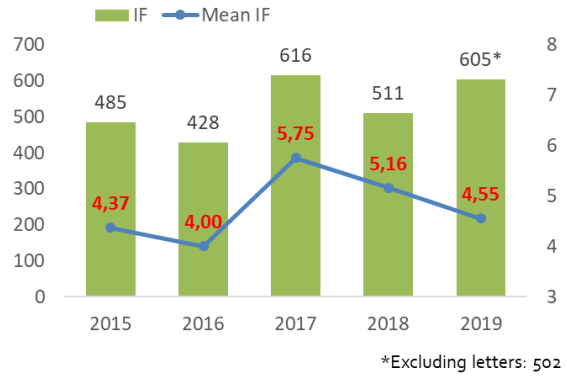



Scientific output of Area 4 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

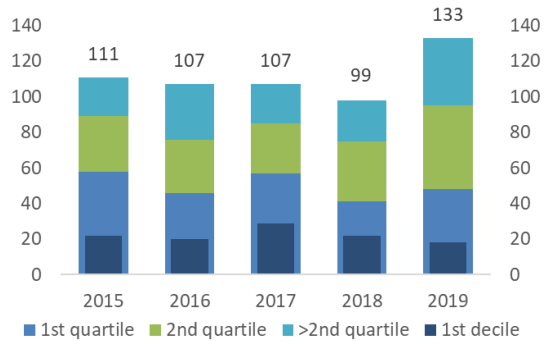



Scientific output of Area 4 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 5: DISEASES OF THE IMMUNE SYSTEM

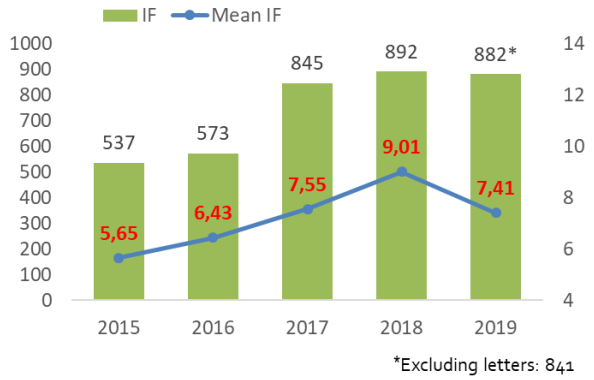



Scientific output of Area 5 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

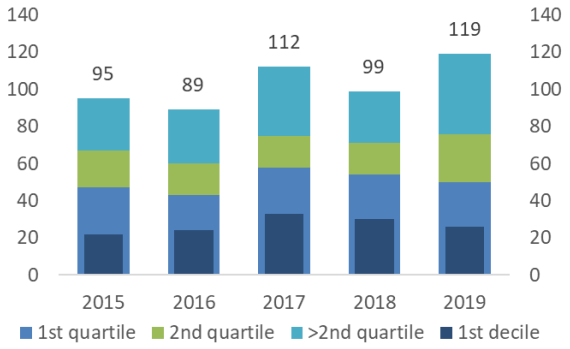



Scientific output of Area 5 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 6: TRANSLATIONAL ONCOLOGY

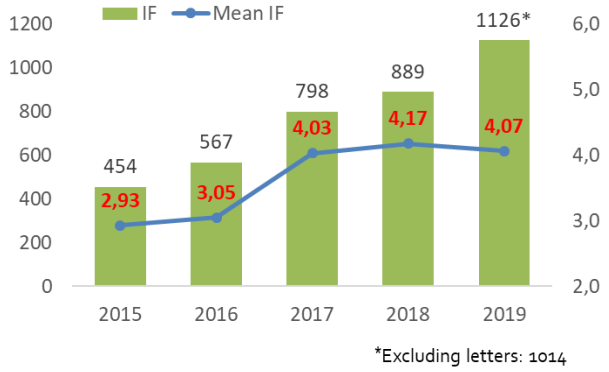



Scientific output of Area 6 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

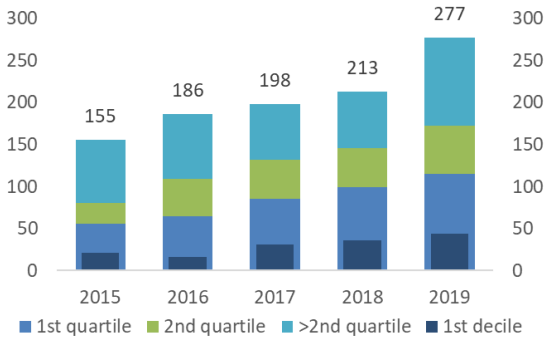



Scientific output of Area 6 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

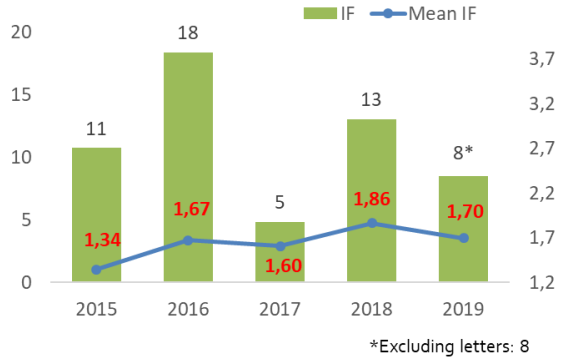



Scientific output of Area 7 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

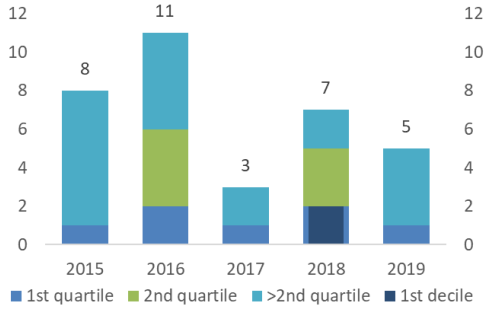



Scientific output of Area 7 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## NURSING RESEARCH GROUP




Scientific output of Area 6 in indexed journals with impact factor:



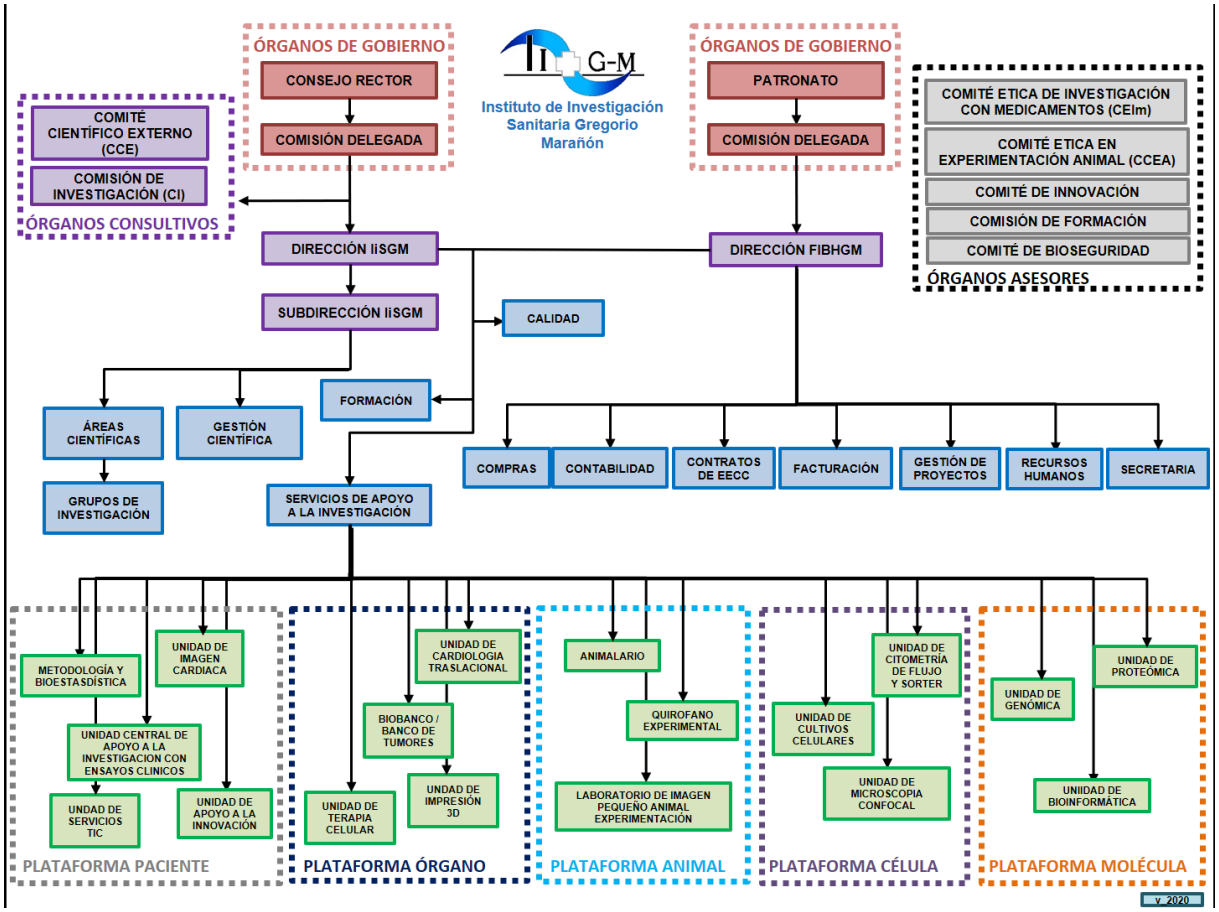

**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

Scientific output of Area 6 in indexed journals with impact factor:

**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

# Organizational Structure of IiSGM

## i. ORGANIZATIONAL CHART




## ii. GOVERNING BODIES

| GOVERNING COUNCIL | | |
|---|---|---|
| Chair | **Manuel Molina Muñoz** | Vice Councillor of Health care. Comunidad de Madrid |
| First Deputy chair | **Ignacio Lizasoain Hernández** | Vice-Chancellor of Scientific Policy, Research, and Doctorates. UCM. |
| Second Deputy-chair | **Juan Romo Urroz** | Chancellor of UC3M |
| Members at large | **Joseba Barroeta Urquiza** | Manager of HGUGM |
| | **Ismael Buño Borde** | Chair of research Committee<br>Scientific Director of IiSGM |
| | **Felipe Atienza Fernández** | Chair of the Clinical Research Ethics Committee |
| | **Juan Francisco del Cañizo López** | UCM Vicedean in HGUGM |
| Members | **Celso Arango López** | Trustee of the FIBHGM |
| | **Rafael Bañares Cañizares** | Trustee of the FIBHGM |
| | **Manuel Desco Menéndez** | Trustee of the FIBHGM |
| | **Francisco Fernández-Avilés Díaz** | Trustee of the FIBHGM |
| | **Miguel Martín Jiménez** | Trustee of the FIBHGM |

| | | |
|---|---|---|
| | **María Sanjurjo Sáez** | Trustee of the FIBHGM |
| | **Patricia Muñoz García de Paredes** | Trustee of the FIBHGM |
| | **Miguel Ángel Pozo García** | UCM |
| | **Francisco Javier Prieto Fernández** | UC3M. Trustee of the FIBHGM |
| Secretary | **Thierry Bardinet**. | Director of the FIBHGM |

| EXECUTIVE COMMITTEE OF THE BOARD OF TRUSTEES | | |
|---|---|---|
| Chair | **Joseba Barroeta Urquiza** | Manager of the HGUGM |
| | **Ismael Buño Borde** | Scientific Director of IiSGM |
| Members | **Celso Arango López** | Trustee of the FIBHGM |
| | **Francisco Fernández-Avilés Díaz** | Trustee of the FIBHGM |
| | **Miguel Martín Jiménez** | Trustee of the FIBHGM |
| | **Miguel Ángel Pozo García** | UCM |
| | **Francisco Javier Prieto Fernández** | UC3M. Trustee of the FIBHGM |
| Secretary | **Thierry Bardinet.** | Director of the FIBHGM |

# iii. ADVISORY BODIES

| EXTERNAL SCIENTIFIC COMMITTEE | |
|---|---|
| **Agustín Albillos Martínez** | *Head of Gastroenterology and Hepatology, Hospital Universitario Ramón y Cajal, IRYCIS. Professor of Medicine, Universidad de Alcalalá, Madrid.* |
| **Antoni L. Andreu Periz** | *Scientific Director of EATRIS (European infrastructure for translational medicine) Amsterdam. The Netherlands* |
| **Deborah Burks** | *Head of Research Group. Evaluator in different state and international agencies. Centro de Investigación Príncipe Felipe de Valencia* |
| **Ángel Carracedo Álvarez** | *Professor of the School of Medicine, Universidad de Santiago de Compostela. Instituto de Ciencias Forenses. Director of Fundación Pública Galega de Medicina Xenómica. IDIS (Instituto de Investigación Sanitaria de Compostela)* |
| **Ana Lluch Hernández** | *Professor of Medicine at the Faculty of Medicine of the University of Valencia and Head of the Department of Hematology and Medical Oncology at the Hospital Clínico Universitario de Valencia. Head of the Breast Cancer Biology Research Group at the Health Research Institute of the Hospital Clínico Universitario de Valencia (INCLIVA).* |
| **Ángeles Almeida Parra** | *Deputy Scientific Director of the Health Research Institute of Salamanca (IBSAL). Head of the Molecular Neurobiology Research Group of the IBSAL Institute. Associate Professor, Faculty of Pharmacy, University of Salamanca* |
| **Paloma Domingo García** | *General Director of the Spanish Foundation for Science and Technology (FECYT). Until 2018 she was Director of the Entrepreneurship and Innovation Service, Director of the Science Park and responsible for the Office of Research Results Transfer at the Universidad Carlos III de Madrid (UC3M).* |
| **Borja Ibáñez Cabeza** | *Head of the Translational Laboratory for Cardiovascular Imaging and Therapy and Director of the Department of Clinical Research at the National Center for Cardiovascular Research (CNIC), interventional cardiologist, Coordinator of the Research Unit and the Cardio-Oncology Unit at the Fundación Jiménez Díaz University Hospital.* |

| RESEARCH COMMITTEE |
|---|

| | | |
|---|---|---|
| Chair | **Ismael Buño Borde** | IiSGM Scientific Director |
| Secretary | **Pascual Balsalobre López(30/06/19)** | HGUGM |
| | **Constancio Medrano López(30/06/19)** | HGUGM |
| Members | **Luis Álvarez-Sala Walther** | HGUGM |
| | **Celso Arango López** | HGUGM |
| | **Antonio Artés Rodríguez** | UC3M |
| | **Fernando Asensio Rubio** | HGUGM |
| | **Felipe Atienza Fernández** | HGUGM |
| | **Pascual Balsalobre López (30/06/19)** | HGUGM |
| | **Rafael Bañares Cañizares** | HGUGM |
| | **José Mª Bellón Cano** | HGUGM |
| | **Javier Bermejo Thomas** | HGUGM |
| | **Rafael Correa Rocha** | HGUGM |
| | **Mª Carmen de la Cruz Arguedas** | HGUGM |
| | **Juan Francisco del Cañizo López** | UCM Vicedean in HGUGM |
| | **Manuel Desco Menéndez** | HGUGM |
| | **Francisco Fernández-Avilés Díaz** | HGUGM |
| | **Eduardo Fernández-Cruz** | HGUGM |
| | **Ana Mª García Pozo** | HGUGM |
| | **Darío García de Viedma del Álamo** | HGUGM |
| | **Juana Gil Herrera** | HGUGM |
| | **Juan Antonio León Luis** | HGUGM |
| | **Enrique Lledó García** | HGUGM |
| | **Luis Andrés López Fernández** | HGUGM |
| | **Miguel Martín Jiménez** | HGUGM |
| | **Constancio Medrano López** | HGUGM |
| | **Luis Alberto Menchén Viso** | HGUGM |
| | **Javier de Miguel Díez** | Teaching Committee of the HGUGM |
| | **Laura Moreno Márquez** | Technical Secretary of the FIBHGM |
| | **Patricia Muñoz García de Paredes** | HGUGM |
| | **Marisa Navarro Gómez** | HGUGM |
| | **Beatriz Nieto Pereda** | HGUGM |
| | **Francisco Pérez Vizcaíno** | UCM |
| Invited | **Arantzazu Miner Vélez** | Scientific Management of IiSGM |

# iv. SUPPORTING BODIES

**CLINICAL RESEARCH ETHICS COMMITTEE**

| | |
|---|---|
| Chair | **Felipe Atienza Fernández** |
| Vice-chair | **Andrés Jesús Muñoz Martin** |
| Secretary | **Roberto Collado Borrell** |
| Members | **Mª Luisa Baeza Ochoa de Ocariz** |
| | **Ana Mª Iglesias Mohedano** |
| | **Mª del Carmen Heras Escobar** |
| | **Juan Antonio Andueza Lillo** |
| | **Rafael Carrión Galindo** |
| | **Mª del Carmen de la Cruz Arguedas** |
| | **Ana Esther López Pérez** |
| | **Vicente del as Peñas Gil** |
| | **Mª Luisa Navarro Gómez** |
| | **Pilar Aitana Calvo Ferrandiz** |
| | **Mª Luisa Baeza Ochoa de Ocáriz** |
| | **Ana Mur Mur** |
| | **Carlos Rojas-Marcos Asensi** |

| | |
|---|---|
| | **Javier de Miguel Díez** |
| | **Patricia Font López** |
| | **Luis Andrés López Fernández** |
| | **Antonio Muiño Miguez** |
| | **Diego Rincón Rodríguez** |
| | **Isabel Gómez Valbuena** |
| Secretary | **Santos Puerta Cruz** |
| Administrative | **María José Martín Muñoz** |

## ANIMAL EXPERIMENTATION ETHICS COMMITTEE

| | |
|---|---|
| Chair | **Fernando Asensio Rubio** |
| Members | **Carlos Simón Adiego** |
| | **Laura Moreno Márquez** |
| | **Alberto Tejedor Jorge** |
| | **Begoña Quintana Villamandos** |
| | **Javier Urbano Villaescusa** |
| | **Batiste Andreu Martínez Climent** |
| | **Mª Victoria Gómez Gaviro** |
| | **Lorena Cussó Mula** |
| | **Javier Vaquero Martín** |
| | **Mª Luisa Baeza Ocariz** |
| | **Antonio Martínez Escandell** |
| | **Jesús López Herce Cid** |
| Secretary | **Miguel Relloso Cereceda** |

## INNOVATION COMMITTEE

| | | |
|---|---|---|
| Chair | **Ismael Buño Borde** | IiSGM Scientific Director |
| Vice-chair | **Manuel Desco Menéndez** | UAI Director |
| Members | **Thierry Bardinet** | FIBHGM Manager |
| | **Francisco Fernández Avilés Díaz** | HGUGM |
| | **Rafael Correa Rocha** | FIBHGM inestigator |
| | **Ana Herranz Alonso** | HGUGM |
| | **Iván Márquez Rodas** | HGUGM |
| | **Rubén Pérez Mañanes** | HGUGM |
| | **Guillermo Rodríguez Bernal** | HGUGM |
| | **Sonia García de San José** | HGUGM Vice-Manager |
| | **Carlos Blanco Bermejo** | UC3M |
| Secretary | **Beatriz Pérez** | UAI |

## TRAINING COMMITTEE

| | |
|---|---|
| Chair | **Constancio Medrano López** |
| Members | **Ismael Buño Borde** |
| | **Thierry Bardinet** |
| | **José María Bellón Cano** |
| | **Rafael Correa Rocha** |
| | **Fernando Asensio Rubio** |
| | **Arantzazu Miner Vélez** |

## BIOSECURITY COMMITTEE

| | |
|---|---|
| Chair | |
| Members | |
| Secretary | |

| RESEARCH SUPPORT SERVICES | |
|---|---|
| Scientific Director | **Ismael Buño Borde** |
| Manager | **Thierry Bardinet** |
| | **Incluir a los responsables delos SAIs** |

# v. MANAGEMENT BODY OF IiSGM

| HOSPITAL GREGORIO MARAÑÓN BIOMEDICAL RESEARCH FOUNDATION | |
|---|---|
| Director | **Thierry Bardinet** |
| Scientific and Quality Management | **Arantzazu Miner Vélez** |
| Scientific Management | **Irene Lomba Iriarte** |
| Project Management | **Laura Moreno Márquez** |
| | **Rosa del Ser Toral** |
| | **Carlos Arias López** |
| | **Montserrat Roura Portillo** |
| Clinical Trial Management | **María del Carmen de la Cruz Arguedas** |
| | **Mª Luisa Morales Jerez** |
| Human resources | **Alberto Gómez Moreno** |
| | **María González Rodríguez** |
| Accounting | **Estefanía Lavilla Guevara** |
| | **Mª Isabel Olmedo Andueza** |
| Invoicing | **Marta Martín-Arriscado Arroba** |
| Purchasing | **Miguel Ángel Conejo Martín** |
| Secretary | **Charo Calle Benito** |
| Document archiving | **Mariano Roda Cordero** |
| Administrative | **Blanca González Estables** |

# STRUCTURE OF RESEARCH AREAS AND GROUPS

## AREA 1 Biomedical Engineering

**COORDINATOR: Manuel Desco Menéndez**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 1.01 Advanced technological applications and human health | Manuel Desco Menéndez | CONSOLIDATED | HGUGM-UC3M |
| 1.02 Signal processing | Antonio Artés Rodriguez | CONSOLIDATED (in the process of integration) | UC3M |
| 1.03 Computer architecture, communications, and systems: ARCOS | Jesús Carretero Pérez | CONSOLIDATED (in the process of integration) | UC3M |
| 1.04 Nonparametric statistics and intensive computing | Juan Romo Urróz | CONSOLIDATED (in the process of integration) | UC3M |

## AREA 2 Cardiovascular diseases

**COORDINATOR: Francisco Fernández-Avilés Díaz**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 2.01 Natural history of heart disease | Francisco Fernández-Avilés Díaz | CONSOLIDATED | HGUGM-UCM |
| 2.02 Cardiovascular pathophysiology | Victoria Cachofeiro Ramos | CONSOLIDATED | UCM |
| 2.03 Cardiac celular electrophysiology | Eva Delpón Mosquera | CONSOLIDATED | UCM |
| 2.05 Cardiology and heart transplantation in infants | Constancio Medrano López | EMERGING | HGUGM |
| 2.06 Blood lipids and cardiovascular risk | Luis Antonio Álvarez-Sala Walther | EMERGING | HGUGM-UCM |
| 2.07 Acute cerebral ischemia. Stroke | Antonio Gil Núñez | EMERGING | HGUGM |

## AREA 3: Neuroscience and Mental Health

**COORDINATOR: Celso Arango López**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López | CONSOLIDATED | HGUGM-UCM |
| 3.03B Neurological diseases | Francisco Javier Grandas Pérez | EMERGING | HGUGM |

## AREA 4: Clinical Microbiology, Infectious Diseases and AIDS

**COORDINATOR: Patricia Muñoz García de Paredes**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 4.01 Infectious diseases | Patricia Muñoz García de Paredes | CONSOLIDATED | HGUGM-UCM |
| 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions | Juan Berenguer Berenguer | CONSOLIDATED | HGUGM |

## AREA 5: Diseases of the Immune System

**COORDINATOR: Eduardo Fernández-Cruz Pérez**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases | Eduardo Fernández-Cruz Pérez | CONSOLIDATED | HGUGM |
| 5.02 Molecular biology of HIV | Mª Ángeles Muñoz Fernández | CONSOLIDATED | HGUGM |
| 5.03 Systemic autoimmune diseases | José María Álvaro Gracia | CONSOLIDATED | HGUGM |
| 5.05 Pathogenesis of the immunoallergic response | José Manuel Zubeldia Ortuño | EMERGING | HGUGM |
| 5.06 Immune regulation and homeostasis in diseases of the immune system | Rafael Correa Rocha | EMERGING | HGUGM |
| 5.07 Infections in pediatric patients | María Luisa Navarro Gómez | CONSOLIDATED | HGUGM |

## AREA 6: Translational Oncology

**COORDINATOR: Miguel Martín Jiménez**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 6.01 Interdisciplinary oncology and biotechnology | Felipe Ángel Calvo Manuel | CONSOLIDATED | HGUGM-UCM |
| 6.02 Translational medical oncology and personalized cancer therapy | Miguel Martín Jiménez | CONSOLIDATED | HGUGM-UCM |
| 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | José Luis Díez Martín<br>Ismael Buño Borde | CONSOLIDATED | HGUGM |
| 6.04 Surgical oncology | Luis González Bayón | EMERGING | HGUGM |

## AREA 7: Systemic Diseases and Organ Transplantation

**COORDINATOR: Rafael Bañares Cañizares**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney | Marian Goicoechea Diezhandino | CONSOLIDATED | HGUGM |
| 7.02 Pathophysiology and natural history of liver and digestive diseases | Rafael Bañares Cañizares | CONSOLIDATED | HGUGM-UCM |
| 7.04 Diseases of the critically ill child | Jesús López-Herce Cid | CONSOLIDATED | HGUGM |
| 7.05B Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insuffi ciency and respiratory disorders of sleep | Luis Puente Maestu<br>Ignacio Garutti Martínez | CONSOLIDATED | HGUGM |
| 7.06 Regenerative medicine in plastic surgery | Rosa Pérez Cano<br>José Mª Lasso | EMERGING | HGUGM |
| 7.07 Experimental kidney transplantation | Enrique Lledó García | EMERGING | HGUGM |
| 7.08 Pediatric endocrinology | María Dolores Rodríguez Arnao | ASOCIADTED | HGUGM |
| 7.10 Regeneration and biomaterials in musculoskeletal disease | Francisco Javier Vaquero Martín | ASOCIADTED | HGUGM-UCM |
| 7.11 Iron metabolism disorders | María Rosa Peraita Adrados | ASOCIADTED | HGUGM |
| 7.12 Emergency medicine | Javier Muñoz González | ASOCIADTED | HGUGM |
| 7.16 Regenerative medicine and system development: cardiovascular and osteochondral | Mª Begoña Quintana Villamandos | EMERGING | HGUGM |
| 7.18 Peritransplant evaluation (liver) | José María Pérez Peña | ASOCIADO | HGUGM |
| 7.19 Perianesthetic assessment | Carmen Fernández Riveira | ASOCIADTED | HGUGM |
| 7.20 Anesthesia, toxins, and arrhythmias | Matilde Zaballos García | ASOCIADTED | HGUGM |
| 81 | José Antonio Serra Rexach | CONSOLIDATED | HGUGM |
| 7.22 Pathophysiology of the neonate and developing child | Manuel Sánchez Luna | EMERGING | HGUGM |
| 7.25 Artificial circulation laboratory | Juan Francisco del Cañizo López | EMERGING | HGUGM-UCM |
| 7.26 Evaluation of health services and clinical epidemiology | Rosa Plá Mestre | EMERGING | HGUGM |
| 7.27 Hospital pharmacy and pharmacogenomics | María Sanjurjo Sáez | CONSOLIDATED | HGUGM |
| 7.28 Clinical nutrition | Cristina Velasco Gimeno | EMERGING | HGUGM |
| 7.29 Vascular pathophysiology and pharmacology | Francisco Pérez Vizcaíno | CONSOLIDATED | UCM |
| 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | Santiago Lizarraga Bonelli<br>Juan Antonio deLeón | EMERGING | HGUGM |
| 7.32 Physical medicine and rehabilitation | Pilar Crespo Cobo<br>Marta Supervía Pola | EMERGING | HGUGM |

## Nursing Research Group

**COORDINATOR: Ana García Pozo**

| Group | Group leader | Organization |
|---|---|---|
| Research in nursing | Ana María García Pozo | HGUGM |

# COMPETITIVE PUBLICLY FUNDED RESEARCH STAFF CONTRACTS

**INSTITUTO DE SALUD CARLOS III**
**Miguel Servet Tipo I contracts**

| | Area | Group |
|---|---|---|
| **Susana Carmona Cañavate** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Marta Rapado Castro** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **María Guembe Ramírez** | 4.Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Belén Rodríguez Sánchez** | 4.Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Laura Pérez García** | 4.Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Pilar Escribano Martos** | 4.Infectious diseases and AIDS | 4.01 Infectious diseases |

**INSTITUTO DE SALUD CARLOS III**
**Sara Borrell contracts**

| | Area | Group |
|---|---|---|
| **Kenia Martinez Rodríguez** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Marta Martinez Bonet** | 5.Diseases of the Immune System | 5.06 mmune regulation and homeostasis in diseases of the immune system |

**INSTITUTO DE SALUD CARLOS III**
**Río Hortega contracts**

| | Area | Group |
|---|---|---|
| **Antonia Delgado Moreno** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Javier Castrodeza Calvo** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Manuel Durán Cutilla** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Miriam Ayora Rodrigo** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Maria Olmedo Sanperio** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Ana Mª Álvarez Uria** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **David Aguilera Alonso** | 5.Patología del sistema inmune | 5.07 Infections in pediatric patients |
| **Ana Clemente Sánchez** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and digestive diseases |
| **Miriam Garcia San Prudencio** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child |

**INSTITUTO DE SALUD CARLOS III**
**Juan Rodés contracts**

| | Area | Group |
|---|---|---|
| **Laura Pina Camacho** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Alicia Galar Recalde** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Mª Teresa Aldamiz Echevarria Lois** | 4. Infectious diseases and AIDS | 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions |
| **Begoña Santiago García** | 5.Patología del sistema inmune | 5.07 Infections in pediatric patients |

**INSTITUTO DE SALUD CARLOS III**

### Predoctoral contracts (PFIS)

| | Area | Group |
|---|---|---|
| **Magdalena Martínez García** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Renzo Abregu Crespo** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Mónica Burdeus Olavarrieta** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Sara Fuentelsaz Romero** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases |

### INSTITUTO DE SALUD CARLOS III
### Predoctoral (IIS-company in Sciences and Health Technologies) contracts (i-PFIS)

| | Area | Group |
|---|---|---|
| **Gerard Álvaro Loughlin Ramírez** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Felipe Díez del Hoyo** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |

### INSTITUTO DE SALUD CARLOS III
### Research Management Contracts

| | Area | Group |
|---|---|---|
| **Irene Lomba Iriarte** | | Technical Unit FIBHGM |

### INSTITUTO DE SALUD CARLOS III
### Bioinformatics Technicians Contracts

| | Area | Group |
|---|---|---|
| **Laura Castro Labrador** | | Bioinformatic UnitM |

### MINISTERIO DE CIENCIA E INNOVACIÓN
### Predoctoral Contracts

| | Area | Group |
|---|---|---|
| **Christian Chazo Paz** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |

### MINISTERIO DE EDUCACIÓN Y CIENCIA
### FPU Contracts (University Teacher Trainig Contracts)

| | Area | Group |
|---|---|---|
| **Alejandro José García Díaz** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Alicia García Alcón** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Laura Colomar Molla** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Alba Martín Moreno** | 5. Diseases of the Immune System | 5.02 Molecular biology of HIV |
| **Patricia Rubio Fernández** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |

### MINISTERIO DE CIENCIA E INNOVACIÓN
### Young employement Program contracts

| | Area | Group |
|---|---|---|

| | | |
|---|---|---|
| **Alicia Arévalo García** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Begoña Gallardo Alguacil** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Inés Noguero Soler** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Aina Catalina Mesquida Marcos** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Sergio Mezquita García** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Alba Alarcón Escudero** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases |
| **Paula Barnese García** | 7. Systemic Diseases and Organ Transplantation | 7.25 Artificial circulation laboratory |
| **Carla Gómez Oro** | 7. Systemic Diseases and Organ Transplantation | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium |
| **Lidia Albadalejo Navarro** | | Animal Facility |

## COMUNIDAD AUTÓNOMA DE MADRID
## Young employement Program contracts

| | Area | Group |
|---|---|---|
| **Vanessa Gomez Rangel** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Ana María Santos Coquillat** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Patricia Cantón Lobera** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Luis Diego Romero Miguel** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Sara Gómez Aguililla** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **María del Carmen Paternina Die** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Lidia Quiroga Maroto** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Ana Valera Pérez** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **José González Leiva** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **José Egido Basaltegui** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases |
| **Yaiza Perez García** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases |
| **Vanesa Cañadilla Martín** | 5. Diseases of the Immune System | 5.02 Molecular biology of HIV |
| **Marta Fernández Castillo** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Paula Muñiz Sevilla** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation |
| **Gonzalo Pérez Balsera** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation |
| **Cristina Andrés Zayas** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation |
| **Alejandra Balarezo Saldivar** | 7. Systemic Diseases and Organ Transplantation | 7. Systemic diseases and organ transplantation |
| **Elena Vázquez Ogando** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and digestive diseases |
| **Carolina Franco Herrera** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and digestive diseases |
| **Judith Abarca Zabadía** | 7. Systemic Diseases and Organ Transplantation | 7.27 Hospital pharmacy and pharmacogenomics |

| | | |
|---|---|---|
| **Virginia Albaladejo García** | | Animal Facility |
| **Alicia Sánchez Martín** | | Animal Facility |
| **Lara Sanz Criado** | | Cardiology Traslational Research Laboratory |
| **Alba Gutierrez Seijó** | | Confocal Microscopy Unit |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Intramural Program to Promote Research**
**Predoctoral contracts**

| | Area | Group |
|---|---|---|
| **Nicolás Lamanna Rama** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Patricia Pombo Conejero** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Jorge Gallego Valle** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Sara Salvador Martín** | 7. Systemic diseases and organ transplantation | 7.27 Hospital pharmacy and pharmacogenomics |
| **Maria Consuelo Latorre Sanz** | 7. Systemic diseases and organ transplantation | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Intramural Program to Promote Research**
**Predoctoral in healthcare innovation Contract**

| | Area | Group |
|---|---|---|
| **Alicia Díez de la Lastra Pose** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Intramural Program to Promote Research**
**Post-specialized Health Training Contracts.**

| | Area | Group |
|---|---|---|
| **Hugo González Zaldivar** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Mª Amalia Tamargo Delpón** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Ana Cambra Conejero** | 2. Cardiovascular diseases | 2.05 Cardiology and heart transplantation in infants |
| **María López Blazquez** | 2. Cardiovascular diseases | 2.05 Cardiology and heart transplantation in infants |
| **Francisco Galeano Valle** | 2. Cardiovascular diseases | 2.06 Blood lipids and cardiovascular risk |
| **Alvaro Andreu Bernabeu** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Ana Álvarez Uria Miyares** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Laura Ortega Morán** | 6. Translational Oncology | 6.02 Translational medical oncology and personalized cancer therapy |
| **Luis Alberto Sánchez Cámara** | 7. Systemic diseases and organ transplantation | 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney |
| **Gema Pérez Yagüe** | 7. Systemic diseases and organ transplantation | 7.04 Diseases of the critically ill child |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**

**Intramural Program to Promote Research**
**Post-doctoral Contracts.**

| | Area | Group |
|---|---|---|
| **Javier González Peñas** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Clara Alloza Romero** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Intramural Program to Promote Research**
**Intensification of research activity contracts (I+D+I and Nursing care)**

| | Area | Group |
|---|---|---|
| **Francisco J. Fernández-Avilés Díaz** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Manuel Martínez Selles** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Mª José Parellada Redondo** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Patricia Muñoz García** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Elena Reigadas Ramírez** | 4. Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Juan Berenguer Berenguer** | 4. Infectious diseases and AIDS | 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions |
| **Magdalena Salcedeo Plaza** | 7. Systemic diseases and organ transplantation | 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney |
| **Isabel Gutiérrez Cuellar** | | Nursing Group |
| **Julita Fernández Arranz** | | Nursing Group |
| **Cristina Béliz Mendiola** | | Nursing Group |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Researches Stabilization Contracts**

| | Area | Group |
|---|---|---|
| **María Luisa Soto Montenegro** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Joost Jansen** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Jesús Vicente Guinea Ortega** | 4.Infectious diseases and AIDS | 4.01 Infectious diseases |
| **Mª Jesús Serramía Lobera** | 4. Infectious diseases and AIDS | 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions |
| **Amaya Rocío Puig Kröger** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases |
| **José Luis Jiménez Fuentes** | 5. Diseases of the Immune System | 5.02 Molecular biology of HIV |
| **Rafael Correa Rocha** | 5.Diseases of the Immune System | 5.06 mmune regulation and homeostasis in diseases of the immune system |
| **Marjorie Pion** | 5. Diseases of the Immune System | 5.06 mmune regulation and homeostasis in diseases of the immune system |
| **Javier Vaquero Martín** | 7. Systemic Diseases and Organ Transplantation | 7.10 Regeneration and biomaterials in musculoskeletal disease |
| **Luis Andrés López Fernández** | 7. Systemic Diseases and Organ Transplantation | 7.27 Hospital pharmacy and pharmacogenomics |
| **Miguel Relloso Cereceda** | 7. Systemic Diseases and Organ Transplantation | 7.30 Pathophysiology in women, pregnancy, labor, and puerperium |

**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (IINSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)**
**Research Support Technician and Technical Staff**

| | Area | Group |
|---|---|---|
| **Susana Suárez Sancho** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **Virginia Plasencia Martín** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **José María Bellón Cano** | | Methodology and Biostatistics Unit |
| **Rafael Samaniego García** | | Confocal Microscopy Unit |
| **María Eugenia Fernández Santos** | | Cardiology translational research Laboratory |
| **Laura Díaz Muñoz** | | Flow Cytometry and Cell Sorter Unit |
| **María Isabel Clemente** | | Cell Culture Unit |
| **Ainhoa Simón Zárate** | | Genomics Unit |

UNIÓN EUROPEA
Fondo Social Europeo
*El FSE invierte en tu futuro*

**Unión Europea**
Fondo Europeo
de Desarrollo Regional
"Una manera de hacer Europa"

# RESEARCH SUPPORT SERVICES (RSSs

IiSGM has organized research support services into various technology platforms according to the object of research. Thus, IiSGM aims to promote the human and technological interrelationships necessary when investigating the object of biomedical research from different technological perspectives.
Five platforms have been developed, as follows:

1. **Patient platform**
2. **Organ platform**
3. **Animal platform**
4. **Cell platform**
5. **Molecular platform**

| Patient Platform | Organ Platform | Animal Platform | Cell Platform | Molecular Platform |
|---|---|---|---|---|
| Methodology and Biostatistics Unit | Biobank | Experimental Operating Room | Cell Therapy Unit | Genomics Unit |
| Clinical Research Central Support Unit | Cardiology Translational Research Laboratory | Animal Facility | Flow Cytometry and Cell Sorter Unit | Proteomics Unit |
| Innovation Support Unit | 3D Medical Printing Unit | Experimental Small-Animal Imaging Laboratory | Cell Culture Unit | Bioinformatics Unit |
| Cardiac Imaging Unit | | | Confocal Microscopy | |
| ICT Services Unit | | | | |

PATIENT PLATFORM
METHODOLOGY AND BIOSTATISTICS UNIT

## METHODOLOGY AND BIOSTATISTICS UNIT

To help researchers implement their hypotheses and research proposals and to provide advice on the most appropriate methodology, study design, and statistical techniques.

**Description**

Methodology and Biostatistics is a Research Support Service (RSS) that provides methodological and statistical advice for all those researchers who need help in any aspect of their research project: study type and design, data collection, sample size, database design, and statistical techniques. The service aims to provide the necessary assistance so that researchers can reach their research objectives.

The Unit also carriers out statistical analyses and database operations for those projects where the researcher finds the analysis problematic.

**Services provided**

***Methodological advice:***

- Most appropriate study type and design.
- Calculation of sample size.
- Statistical techniques best suited to each type of study.
- Methodological design for research projects.
- Interpretation of statistical results.

***Support and follow-up of ongoing projects:***

- Scientific articles.
- Communications to scientific meetings, talks.
- Doctoral theses and research proficiency projects.

***Application and statistical analysis of databases:***

- Design and creation of databases: Excel, Access, SPSS.
- Statistical analysis and application of databases.

The investigator can request an appointment in person, by telephone, or by email depending on the availability of Unit staff.

The results of studies with databases that require a statistical analysis ranges from 1 to 10 days. The variability in delivery time depends on the complexity of the study, the availability of Unit staff, and the workload.

**Facility**

The *Methodology and Biostatistics Unit* RSS is located in the prefabricated annex of the Experimental Medicine and Surgery building of Hospital General Universitario Gregorio Marañón (HGUGM). It comprises an office and an external workstation for residents in rotation.

**Technology**

Three networked computers with access to Internet and a shared printer.

The computers run SPSS and open-access statistical software such as EPIDAT 3.1, Granmo 7.1, and R.

**Staff**

José María Bellón Cano, Head of Unit.

A resident from the Preventive Medicine Department in rotation.

**Unit documentation**

Procedures manual of the *Methodology and Biostatistics Unit.*

**Contact**

*José María Bellón Cano*
*Head of Unit*
*Tel: 91 586 6454*
*E-mail: josemaria.bellon@salud.madrid.org*
*Edificio prefabricado (planta 0)*
*Hospital General Universitario Gregorio Marañón*
*C/ Dr. Esquerdo 46, 28007*

PATIENT PLATFORM
CLINICAL RESEARCH CENTRAL SUPPORT UNIT

## CLINICAL RESEARCH CENTRAL SUPPORT UNIT

### Platform for Clinical Research and Clinical Trial Units

**Mission**

To serve society by working to improve the health and wellbeing of citizens through the management of patient-oriented clinical research (both non-commercial and commercial), through continuous improvement, innovation and training, as well as by stimulating the professional and scientific development of all its members.

**Description**

It is a Research Support Service for all those IiSGM researchers who require support in the logistic, operational, and regulatory design of clinical trials and observational studies.

The UCAICEC is conceived as a unit dedicated to the promotion and support of quality Clinical Research and Clinical Trials by means of an integral support to the investigator in the planning, development, processing and execution of the clinical trials and non-commercial research studies.
Among the activities developed by the UCAICEC is the management of SCREN in our center. SCREN is a platform funded by the Carlos III Health Institute (ISCIII) with representation in more than 20 hospitals in Spain ( https://www.scren.es )

**Services provided**

***Advice on the preparation and performance of research projects:***

- Support in the management of documentation for evaluation by the CREC and regulatory bodies (Spanish Medication Agency [AEMPS] and regional government bodies
- Advice, management, and support with the preparation and follow-up of administrative documentation linked to the project
- Coordination and follow-up of approvals and implementation of the study (logistics and operations).
- Advice on management of medication and on performance of the trial (selection of CRO).
- Advice on the management of supplier contracts

***Monitoring (only for clinical trials managed by SCReN)***

**Facilities**

The office of UCAICEC is located in the ground floor of the Pabellon de Gobierno (planta baja) of HGUGM

**Technology**

The unit has two computer systems and access to a shared printer and shared photocopier and scanner of the FIBHGM.
Fireproof cupboard.
Documentation fi ling

**Unit documentation**

ISO 9001: 2015
PR-IPE-02: Procedure for the identification, document processing, and approval of commercial and non-commercial clinical trials
IT-IPE-01: Technical instruction (TI) criteria for the evaluation of a noncommercial clinical trial by the FIBHGM as sponsor
IT-IPE-02: Authorizations by competent authorities
IT-IPE-03: Medication management
IT-IPE-04: CRO budget
IT-IPE-05: Selection of CRO
IT-IPE-06: Management of contracts
PR-SPE-03: Procedure for follow-up clinical trials
PR-AMI-01: Procedure for identification of needs in methodological support and preparation of working program (clinical trials)
PR-AMI-02: Procedure for evaluation of working program for methodological support (clinical trials)

**Contact**

*María del C. de la Cruz Arguedas*
*Head of Unit*
*e-mail: ucaicec@fibhgm.org*
*Pabellón de Gobierno (planta baja)*
*Hospital General Universitario Gregorio Marañón*
*Calle Dr. Esquerdo, 46 28007 Madrid*

PATIENT PLATFORM
INNOVATION SUPPORT UNIT

## INNOVATION SUPPORT UNIT

**Mission**

To support and advise researchers during the various stages of the process of innovation and transfer so that ideas can become products and services that provide value to the health system and society.

**Description**

The Unit is a Research Support Service that helps researchers channel innovative ideas and proposals in the hospital setting. The Unit provides advice and dialogue aimed at all those who require assistance at any stage of the innovation and transfer process in the following areas: evaluation of ideas and results of research, support in the drafting and planning of innovation projects, prototyping, search for funding, search for technology and/or commercial partners, strategies for the protection of industrial and intellectual property, advice on the process of technological transfer, licenses, and company formation.

The objective of these activities is that innovation projects in these areas have greater potential for transfer to society in general and to the patient in particular.

The Innovation Support Unit of IiSGM (ISU) also provides training and information on transfer processes to bring the culture of innovation and entrepreneurship closer to the health care sector.

**Services provided**

The Unit provides support at each of the stages in the innovation process. In order to cover all stages, the Unit maintains alliances with external bodies, such as patent offices, consultancy companies, and business in general.

- Idea evaluation.
- Support in the valorization of ideas and research results.
- Prototyping (functional analysis and technical evaluation, design, manufacture of prototypes).
- Support in the drafting and planning of innovation projects.
- Search for funding.
- Support in the search for technological or commercial partners.
- Advice on contracts (drafting of collaboration agreements, licencing contracts, etc.).
- Advice on aspects referring to the strategy for protection of industrial and intellectual property.
- Advice on the administrative steps for technology transfer, licenses, and company formation.
- Outreach activities.
- Training on the management of innovation, creativity, and entrepreneurship.

**Location**

The Unit is located in the ground floor of Pabellon de Gobierno of HGUGM.

**Resources**

Mechanical workshop.
Electronic workshop.
IT workshop.
Access to specialized databases.

**Staff**

Team comprising 2 postgraduates specialized in management of innovation.
Engineering support team for development of prototypes.

**Contact**

*Beatriz Pérez*
*Tel: 91 426 92 79*
*E-mail: innovacion@iisgm.com*
*Pabellón de Gobierno (ground fl oor)*
*Hospital General Universitario Gregorio Marañón*
*Calle Doctor Esquerdo 46, 28007 Madrid*

PATIENT PLATFORM
CARDIAC IMAGING UNIT

## CARDIAC IMAGING UNIT

**Rationale**

Measurement of heart function is a key objective in the evaluation of the effect of cardiovascular therapy. Given their close correlation with long-term diagnosis, the scientific evidence generated during the last 50 years has consolidated the use of measures based on cardiovascular imaging techniques as surrogate objectives in clinical trials on cardiovascular medicine. In addition, the criteria for inclusion of patients in clinical trials are usually established depending on the cut-off points in various heart function indexes.

Furthermore, studies aimed at evaluating the safety of drugs used in other disciplines more frequently require evaluations of potential cardiotoxicity. Therefore, the development of biologics, mainly in the field of oncology, has led to an increase in demand for the evaluation of heart function as part of many clinical research protocols.

Given its availability, portability, and low cost, echocardiography is the initial technique of choice for assessment of heart function and monitoring of progress after a specific therapeutic measure. Nevertheless, at present, cardiac magnetic resonance provides more accurate and reproducible parameters for obtaining data on ventricular function and size. Since the variability in measurement decreases compared with other techniques, magnetic resonance has shown that it is possible to significantly reduce the sample size in studies based on measurement of ventricular function. Stratification of cardiovascular risk based only on clinical criteria has proven insufficient in a large number of patients, mainly those in the "intermediate risk" group. Moreover, pharmacologic intervention in chronic inflammation in clinical practice may have a direct effect on cardiovascular risk. In this context, the noninvasive measurement of atherosclerotic load and intima-media thickness using carotid ultrasound provides a well-validated surrogate index of cardiovascular risk in a specific patient.

On this basis, the mission of the Cardiac Imaging Unit is to provide a service to research groups both within and outside the IiSGM that can benefit from evaluation of heart function with echocardiography or magnetic resonance and evaluation of the risk of atherosclerosis using carotid ultrasound.

**Facilities**

Echocardiography and carotid ultrasound are performed to support researchers in the Echocardiography Laboratory, which is situated on the Ground Floor of the Ambulatory Care Pavilion, HGUGM. The laboratory has 2 cutting edge machines that were acquired by the IiSGM for research studies.

Magnetic resonance is performed using specific equipment purchased by IiSGM and is used preferentially for cardiac magnetic resonance. The system is a Philips Achieva with a 1.5 T magnet in the magnetic resonance area situated in the basement of the Oncology Pavilion. The equipment has complete software for cardiovascular examinations and is integrated with the hospital's computer system.

The Cardiac Imaging Analysis Unit of the Cardiology Service is situated on the ground floor of the IPMQ building in Hospital Gregorio Marañon. It covers 40 m² and has a latest-generation computer system with high storage capacity. It also has validated systems for quantitative evaluation of cardiovascular parameters (see below).

**Services provided**

***Echocardiography***

Image acquisition: 2D, 3D, tissue Doppler, color Doppler, continuous wave Doppler, and pulse Doppler of heart valves in parasternal, apical, subcostal, and suprasternal planes. Images are acquired using a 2.0 to 4.0 MHz transducer and a volumetric probe in a high-end device. The definitive model can be selected depending on the needs of the researcher

.

***Carotid ultrasound***

Acquisition of images using B mode and Doppler ultrasound of the common carotid artery, carotid sinus, and internal carotid artery with a linear probe.

***Functional cardiac MRI without contrast***

Acquisition of sequences to evaluate biventricular function in cine mode in short axes with complete coverage from base to apex of the LV: 2 cameras, 4 cameras, 3 cameras. 1.5 T device (Philips Achieva, software package release 9).

***Functional cardiac MRI with and without contrast***

After administration of a bolus of gadolinium contrast medium (0.2 mmol/kg), a multiplane perfusion sequence is run in an initial stage, followed by a 3D delayed enhancement sequence using inversion-recovery. Inversion time is adjusted using the Look-Locker tool. The images are acquired 15 minutes after administration of contrast. 1.5 T device (Philips Achieva, software package release 9).

***Standard echocardiography (as per request)***

Assessment of biventricular function using 2D images, assessment of mitral filling Doppler flow velocity, LV outflow tract, estimation of lung pressure, and tissue Doppler at the level of the mitral and tricuspid valves (EchoPac v.110.1.2, GE).

***Advanced echocardiography (as per request)***

Measurement of biventricular function using 3D images of the LV (EchoPac v.110.1.2, GE) and 3D imaging of the RV (4D-RV function; TomTec Imaging Systems). Measurement of longitudinal and circumferential strain of the LV. Measurement of 3D strain in LV (EchoPac v.110.1.2, GE).

***Carotid ultrasound (as per request)***

PATIENT PLATFORM
CARDIAC IMAGING UNIT

Measurement of the intima-medial thickness at the level of the common carotid artery, carotid sinus, and internal carotid artery (software IMT, EchoPac v.110.1.2, GE, software Q-Lab, Philips or ImageJ, which is
adaptable according to the manufacturer).

***Cardiac MR (as per request)***
Biventricular function, quantification of segmental contraction ("Wall Motion Analysis"), evaluation of intracardiac flow, quantification of delayed uptake (Medis® Cardiac MR QMass® and QFlow®). System can be adapted for quantification of clinical and preclinical imaging in large or small animals.

**Procedure for requesting a specific service**
The order form to be used is IiSGM IM-SPE-7.
The order form has 5 sections:
1- Name of the ISS
2- Name of the person requesting the service
3- Data on the service required and budget*
4- Remarks: Indicate whether the invoice is a self-invoice**
5- Signatures

*Data on the services provided:
[ ] Quantitative MR analysis
[ ] Quantitative echocardiography analysis
[ ] Quantitative carotid ultrasound analysis
**If justification is required for public projects, the SOP for self-invoicing IiSGM (PR-SPE-06) will be applied.

*NOTE: Sample transport is the responsibility of the Imaging Unit. The procedure is as follows:*
*- Issue the study protocol whose parameters are to be analyzed*
*- Once the protocol is studied by IU staff, the custom designed CRFs are sent to the center performing the study*
*- The persons performing the study send the imaging studies to be analyzed to the IU with their corresponding CRFs*
*- Performance of the analysis*
*- The results are sent to the center performing the study*
*- Imaging studies are filed in the IU for 1 year for re-analysis or to analyze other parameters if necessary*

**Contacts**

***Dr. Francisco Fernández-Avilés***
*Head of the Cardiology Department*
*5th floor. Area 5100*
*Cardiology Department*
*Hospital General Universitario Gregorio Marañón*
*Calle Doctor Esquerdo 46*
*28007 Madrid*
*E-mail: francisco.fernandezaviles@salud.madrid.org*
*Tel.: 91 426 58 82*

***Dr. Javier Bermejo Thomas***
*Head of the Cardiology Section*
*Coordinator, Noninvasive Cardiology Area*
*5th floor. Area 5100*
*Cardiology Department*
*Hospital General Universitario Gregorio Marañón*
*Calle Doctor Esquerdo 46*
*28007 Madrid*
*E-mail: javier.bermejo@salud.madrid.org*
*Tel.: 91 586 88 15*

***Ana Fernandez Baza***
*Secretary of the Cardiology Department*
*5th floor. Area 5100*
*Cardiology Department*
*Hospital General Universitario Gregorio Marañón*
*Calle Doctor Esquerdo 46*
*E-mail: cardiologia.hgugm@salud.madrid.org*
*Tel.: 91 426 58 82*

PATIENT PLATFORM
ICT SERVICES UNIT

## INFORMATION AND COMMUNICATION TECHNOLOGIES UNIT

The HGUGM has enormous research potential and generates a great deal of information related to the clinical trials being conducted. With the aim of developing this potential, the Information and Communication Technologies Unit was established as an IAS, as a platform to help research in the HGUGM, which promotes information technologies to facilitate the generation of ICT solutions.

The Sai is formed by a multidisciplinary team with wide experience both in the technology sector and in the health sector

Objective

To offer specialized advice in the implementation of technological solutions

Data representation: generation of dashboards and executive reports

Data mining: Database data download, processing downloads, normalization, filtering and processing of large amounts of data

Microinformatics: advice on user's position

Communications: video services

**Team**

All staff have at least five years of experience in implementing ICT projects in the health field and fit the profile of

Senior Information Systems and Technology Technician with responsibilities in :

1. IT and telecommunications project management
2. Design, development and operation of computer systems, including requirements analysis and specification, technical design, user relations, technical support and administration of systems, data, communication networks and security.

**Competences and skills:**

- Messaging and data management standards (4 HL7)
- Document exchange standards (2CDA)
- Terminology standards or controlled vocabularies (4 SNOMED CT)
- Security standards (1 ISO 27001)
- Project Management (2 PMP)

ORGAN PLATFORM
BIOBANK

## BIOBANK

### Mission

To contribute to the advancement of scientifi c knowledge in various diseases and to provide patients' biological samples for purposes of research. The samples are received, registered, processed, coded, and cryopreserved in the HIV Biobank of Hospital Gregorio Marañón (HGM HIV Biobank). They are then provided to research projects after approval by an external ethics committee and scientifi c committee.

### Description

The objectives of HGM HIV Biobank are met thanks to support from the bodies and people who collaborate with it:

- Cohorts with well-defined characteristics comprising patients with various diseases. The coordinators of the cohorts collect and store clinical information associated with the samples. HGM HIV Biobank currently holds samples from 9 cohorts: the HIV cohort, respiratory disease cohort, endocrinology cohort, neonatology cohort, oncology cohort, rare diseases cohort, infectious diseases cohort, nephrology cohort, and intensive care cohort.
- The various hospitals that deposit samples in HGM HIV Biobank, after signature of an agreement on the conditions of the deposit. At present, 57 Spanish hospitals deposit biological material. The departments of Hospital General Universitario Gregorio Marañón that currently deposit samples are Pediatrics, Neonatology, Anesthesia, Nephrology, and Pediatric Intensive Care.
- HGM HIV Biobank staff in charge of management, reception, processing, cryopreservation, and lending of samples.
- Other collaborating bodies include external ethics committee and scientific committee, which participate in decision making and evaluate the projects for which biological material is requested from HGM HIV Biobank.
- Lastly, researchers who are loaned samples for projects of excellence after previous approval by the appropriate committees.

All the processes carried out in HGM HIV Biobank are subject to a strict quality control system based on standard UNE-EN ISO 9001, for which HGM HIV Biobank is certified and which guarantees the quality of the samples and the fulfilment of ethical and legal rules.

### Services offered

HGM HIV Biobank offers the following services:

- Management, preparation, distribution, and follow-up of all the documentation necessary for depositing samples in HGM HIV Biobank and their subsequent reception, processing, registration, cryopreservation, and provision.
- Reception, processing, and cryopreservation of biological material from the various cohorts after signature of the corresponding deposit agreement.
- Ensuring the quality, traceability, and maximum viability of the biological material stored in HGM HIV Biobank.
- Recording of basic sample information.
- Adaptation of the HGM HIV Biobank database so that the coordinators of the different cohorts can register clinical and laboratory data of donors.
- Advice to the cohort coordinators on the use of the HGM HIV Biobank database.
- Consolidation of data associated with samples available in HGM HIV Biobank with the cohort coordinators and services that deposit biological material.
- Provision, for research purposes, of samples for projects, after approval by the corresponding committees.
- Creation and management of new sample collections for research projects and clinical trials and studies.
- Centralization and management of samples for the development of multicentre studies.
- Processing of samples for the development of research projects and clinical trials and studies.
- Advice on ethical and legal matters associated with the use of human samples for research.
- Advice on and analysis of economic sustainability
- Advice on design of and application for projects.
- Regulated teaching (processing techniques, biosafety, quality management quality control for biological samples), personalized training in technical and legal aspects of biobanks.
- Organization of events.
- Writing of scientific articles.
- The laboratory platform/HGM HIV Biobank also offers standardization of techniques between different groups or hospitals. Techniques such as ELISPOT and miRNA extraction are also offered for research projects and clinical studies and trials.

### Technology

HGM HIV Biobank currently has 2 cryopreservation rooms and a sample processing laboratory equipped with:

- 3 laminar flow cabinets.
- 3 microscopes.
- 2 centrifuges with swinging bucket rotors.
- 2 microcentrifuges.
- 1 incubator.
- 1 thermostatic bath.
- 1 thermocycler.
- 1 thermomixer.
- 5 pipette controllers.
- 28 micropipettes.
- 1 refrigerator (4º).
- 1 freezer (–20ºC).
- 11 freezers (–80ºC).
- 6 nitrogen tanks.
- Telephonic alarms
- Computer material.
- Air conditioning equipment.

### Facility

The Innovation Support Unit HGM HIV Biobank is located in the Maternity Building of IiSGM.

It covers 93 m2 and has its own electricity supply and air conditioning system in order to meet the quality requirements necessary for the services offered.

ORGAN PLATFORM
BIOBANK

**Contact**

***María Ángeles Muñoz-Fernández***
*Scientific Director and Head of Training and Implementation of New Techniques*
*Tel: 91 529 05 09*
*E-mail: mmunoz.hgugm@salud.madrid.org / mmunoz.hgugm@gmail.com*

***Isabel Mª García Merino***
*Coordinator, Head of Management and Quality, Head of Records*
*Tel: 91 529 05 09*
*E-mail: BioBancoVIH.hgugm@gmail.com*
*HGM HIV Biobank*
*Hospital GU Gregorio Marañón.*
*Edif cio Materno Infantil. Planta –1. Puerta-1 Do4*
*Calle Dr. Esquerdo, 46. (28007) Madrid*

ORGAN PLATFORM
CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

## CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

**Mission**

The Translational Research Laboratory in Cardiology, the former Bioartificial Organs and Matrices, is an infrastructure of the Research Institute of the Gregorio Marañón Hospital that is part of the Organ Platform focused on the field of Regenerative Medicine, of which Prof. Fernández-Avilés is the Scientific DirectorThe Cardiology Traslational Research Laboratory is an infrastructure of the IiSGM that forms part of the Regenerative Medicine and Bioartificial Organs Platform and is led by Professor Fernández-Avilés

**Description**

The laboratory started its activity focused on obtaining decellularized matrices, from animal and human organs, in order to recellularize them later with different cell types, thus achieving viable matrices that serve as replacement constructions for the sick organs that are not rejected in the transplant. Throughout its trajectory, it has reinforced these lines of research in Advanced Therapies with others linked to research in cardiology.

It is currently a Research Support Service that combines basic, preclinical and clinical research focused on understanding the specific processes at the molecular, cellular and organ level that underlie the broad spectrum of cardiovascular diseases.

The laboratory has implemented different technologies that support translational research in Cardiology and other disciplines at our hospital, as well as other research groups of national and international prestige.

Among them: Recellularization with bioreactors, 3D Bioimpression, Basic Electrophysiology, Genomics, Transcriptomics, Metagenomics, etc.

The RSS is managed by the IISGM's ISO 9001: 2015 quality system: which makes it possible to develop all projects in a reproducible manner and with proven traceability, in order to accelerate clinical translation.objective is to obtain decellularized matrices and organs from animal and human organs in order to to accelerate clinical translation.

**Services provided**

- Organ decellularization.
- Study of ventricular mechanics in the intact heart and decellularized matrices.
- Histology of the samples obtained from the different matrices.
- Tissue and cell electrophysiology program.
- Recellularization of decellularized matrices by co-culture.
- Recellularization program using bioreactors.
- Human cell culture:
  a) Vascular fat fraction or "fresh cells" from liposuction.
  b) Bone marrow mononuclear cells.
  c) Bone marrow mesenchymal cells.
  d) Fatty tissue mesenchymal cells.
  e) Obtaining iPS cells.
  f) Differentiation of iPS cells into cardiomyocytes.
- Culture of cells from animal tissue, eg, mesenchymal cells, iPS cells, cardiomyocytes, and resident cardiac cells.
- Maintenance of different cell lines.
- Studies on variants and gene expression.
- Academic and training platform.

**Technology**

**HISTOLOGY PROGRAM**

- Cryostat: Thermo Scientifi c Microm HM525-U.
- Carousel-type automatic tissue processor: Thermo Scientific Microm STP120-2.
- Modular embedding center: Thermo Scientifi c Microm EC350.
- Histology bath: Termofi n 3000459, Selecta.
- Microtome: Thermo Scientifi c Microm HM325.
- Culture oven: INCUBAT, Selecta.
- Leica BOND III for automatic IHC and ISH staining.
- Leica DMD108 Histology Station
- Leica ICC50 HD Direct Light Microscope

**CULTURE AND CRYOPRESERVATION PROGRAM**

- $CO_2$ incubators: Nuaire, Nu-4850-E, and with control of $CO_2$ and $O_2$ Nuaire, Nu-4950-E.
- Laminar fl ow biosafety cabinets: Nuaire, Nu-437-400-E.
- Safety cabinet: Safefast Elite.
- Ovens: 37ºC (TherMark) and 22ºC (Memmert).
- Toxic substance extraction cabinet: Captair Flex AM321.
- Inverted fluorescence microscope with camera: DMI3000.
- Liquid nitrogen tank: Taylor-Wharton, Cryocon M505K.
- Liquid nitrogen supply tank: Taylor-Wharton, L5750.
- Freezers (–80ºC): Profi line and Innova U-360.

**TISSUE AND CELL ELECTROPHYSIOLOGY PROGRAM**

- Medium-size Langendorf heart system (pig-human).
- Electric mapping system on Langendorf and cultures.
- Optical mapping system on Langendorf.
- Optical mapping system on tissue and culture.
- Electrical stimulation system.
- Decellularization program.
- Peristaltic pump: Masterfl ex 7524-45.
- Patch-Clamp set.

ORGAN PLATFORM
CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

**GENETICS, GENOMICS, AND TRANSCRIPTOMICS PROGRAM**

- Basic molecular biology equipment.
- Quantitative real-time PCR (RT-PCR) (CFX BioRad).
- Imaging equipment and gel analysis software.
- Gel-membrane transfer equipment: Trans Blot Turbo (BioRad).
- ImageQuant LAS 500 (GE Healthcare).
- Server for edition and analysis of massive sequencing data.

**SPECIFIC TECHNIQUES**

- Flow cytometry with MacsQuant 3-laser cytometer.
- Cell purification with separator: AutoMACS Pro.
- Rokit 3D in vivo bioprinter (Palex Medical)

**BIOREACTOR / RECELLULARIZATION PROGRAMS**

- Bioreactors for human and animal organs.
- Bioreactors with electromechanical stimulation.
- Static and dynamic cell seeding systems.

**Facility**

The laboratory is located on floor –1 of the Maternity Hospital. Its covers 275 m2 and is home to several work areas: the histology area, culture area, electrophysiology area, and genetics, genomics, and transcriptomics area.

**Contact**

***Francisco Fernández-Avilés***
*Scientifi c Director*
*E-mail: faviles@secardiologia.es*
*Tel: 91 4265882*

***Mª Eugenia Fernández Santos***
*Technical Director*
*E-mail: mariuge@fibhgm.org*
*Tel: 91 5290521; Mv: 657 65 0527*

*e-mail: cardiologiatraslacional@iisgm.com*
*Hospital GU Gregorio Marañón. Edificio Materno Infantil. Planta –1*
*C/ O'Donnell nº 48-52; 28009-Madrid.*

ORGAN PLATFORM
3D MEDICAL PRINTING UNIT

## 3D MEDICAL PRINTING UNIT

**Justification**

3D printing is a type of additive manufacturing that allows a digital model to be transformed into a real three-dimensional object.The objects are built layer by layer, using different technologies, such as stereolithography (SLA) or deposition of molten thermoplastic material, the latter being the most popular desktop technology in in-house 3D printing environments.

Limited for a long time to the industrial field, 3D printing has evolved to reach the professional user

In the medical 4.0 the manufacture of biomodels and custom devices through 3D printing allows:

- Personalized medical care: patient-centered precision medicine, improved perceived quality thanks to improved medical communication, and objective quality allowing the optimization of therapeutic times
- Education and clinical training: medical training and procedure simulation
- Pre-clinical testing: improving device design by testing on simulation models
- Innovation in customized medical devices: advanced rapid prototyping reducing verification and validation times.

HGUGM has pioneered the introduction of 3D printing as a working tool in clinical practice and research. In 2014, the first surgery was performed using patient-specific surgical guides manufactured on site for an intervention in Orthopedic Surgery and Traumatology. Since then, the interaction with different specialties has allowed us to gather the knowledge and experience necessary to offer a cost-effective medical 3D printing service.

**DESCRIPTION**

It is a research support service (SAI) that helps health professionals and researchers who have a need in which 3D printing can contribute to the development of a specific and individualized application in the health area. The aim of these activities is that innovative projects in these areas have more potential to be transferred to society in general and to the patient in particular

**SERVICES OFFERED**

- 3D Modeling
- Customized CAD/CAM solutions
- Rapid prototyping: functional analysis, technical evaluation, design and manufacturing
- 3D printing of biomodels from 3D model (STL, OBJ)
- 3D printing of patient-specific bioreproducts from medical image segmentation (CT, CBCT, MR, PET)
- Final product development: medical training, surgical simulation, positioning guides, customized instruments
- Advice on integrating 3D printing technology into the clinical process

RESOURCES

Material Resources

3D printing laboratory room with aeration and soundproofing system

Multiestation of work composed of computer equipment of last generation with high capacity of file and data processing

Post-processing tools

3D Printers FDM technology

3D Surface Scanner

Polymers and thermoplastic materials

Human Resources

Multidisciplinary team of medical specialists and biomedical engineers

Support team by means of pre and post grade students

**LOCATION**

Medical 3D printing laboratory is located on the first floor of the central building (IPQM) of the HGUGM

**CONTACT**

***Rubén Pérez Mañanes***
*Orthopedic Surgery and Traumatology Service*
*Sarcoma and Musculoskeletal Tumor Unit*
*Email: ruben.perez@salud.madrid.org*
*915688073*
*46 Dr. Esquerdo Street 28007 Madrid*

***José Antonio Calvo Haro***
*Orthopedic Surgery and Traumatology Service*
*Sarcoma and Musculoskeletal Tumor Unit*
*Email:joseantonio.calvo@salud.madrid.org*
*915688073*
*46 Dr. Esquerdo Street 28007 Madrid*

***Javier Pascau González-Garzón***
*Medical Imaging Laboratory*
*jpascau@hggm.es*
*43 Ibiza Street. Annexe Psychiatry. Second floor. 28009 Madrid*

## EXPERIMENTAL OPERATING ROOM

**Mission**

To provide appropriate surgical facilities and equipment for experiments with animals.

**Description**

The experimental operating room is a Research Support Service (RSS) with the appropriate fi ttings, material, and instruments for the most common surgical procedures.
The main operating room (A) has 2 tables that are custom-designed for animals. One table is radiotransparent to enable x-ray techniques to be performed. A third table can be installed when necessary.
Equipment is also available for more specific procedures such as laparoscopic surgery and extracorporeal circulation.
There are also 3 rooms equipped for microsurgery in small-animal procedures. Two are within the clean area of the animal facility (B and C) and 1 is outside the area (outer room D). The rooms are used for microsurgery training courses and for experiments with small animals.
The RSS Experimental Operating Room of IiSGM makes up the Surgical Area of the Experimental Medicine and Surgery Unit (MCE).

**Services provided**

The basic unit for providing services in the Surgical Area is the so-called Surgical Session, which implies the use of 1 operating table or microsurgery station for at least 1 morning or 1 afternoon.
Morning.— 8:30 h to 14:00 h (5.5 h).
Afternoon/evening.— 15:30 h to 21:00 h (5'5 h).

In addition to the Surgical Session, requests can be made for animals, support staff, and other equipment (see rates).
The small-animal rooms can be used for a half-session.
If the procedure to be performed requires an operating table (eg, for x-ray) and this prevents the other table from being used, then an exclusivity supplement will be applied.

**RESEARCH**

- Procedures associated with a funded research project.
- Procedures associated with a research project authorized by IiSGM but which is pending funding.
- Procedures associated with research projects from bodies outside the hospital.

**TEACHING/TRAINING**

- Practical sessions for undergraduate students from Universidad Complutense.
- Practical sessions for undergraduate students from Universidad Carlos III.

- Practical sessions enabling hospital staff to perfect surgical techniques.
- Practical sessions enabling staff from other centers to perfect surgical techniques.
- Training courses organized by HGUGM services.
- Training courses organized by other bodies.

**DISSEMINATION**

- Demonstrations or presentations of equipment or procedures organized by companies.

**Technology**

STANDARD OPERATING ROOM. Equipped with the following:
- Multipurpose tables
- Monitoring equipment
- Conventional surgical instruments
- Electric scalpel
- X-ray equipment
- Extracorporeal circulation equipment
- Basic laparoscopic surgery equipment

PROCEDURE ROOMS. Equipped with 4 work tables with stereoscopic microscopes (Nikon SMZ-1 and Zeiss OPMI 99) and basic surgical instruments.

**Facilities**

The RSU Experimental Operating Room is located in the Experimental Medicine and Surgery building of IiSGM. It covers 97 m2 divided into an operating room, pre-operating room, clean area for storing material with an autoclave for sterilizing, a dirty area for washing instruments with a chest freezer for animal cadavers, microsurgery laboratories, an offi ce, and changing rooms.

**Contact**

***Fernando Asensio***
*Head of the Surgical Area*
*Tel.: (+34) 91 4265015/ 91 5868103*
*E-mail: canizo@mce.hggm.es*
*Experimental Medicine and Surgery Unit*
*Hospital General Universitario Gregorio Marañón*

## ANIMAL FACILITY

**Misision**

To support translational research based on animal models. Biomedical research requires the use of small experimental animals that fulfi ll, as do biologic reagents, all the necessary requirements for the performance of high-quality research in a setting with measures that guarantee the health and well-being of the animals.

**Description**

The Animal Facility is a Research Support Unit (RSU) whose priority objective is to supply researchers with the best animals for their research projects and to maintain the appropriate environmental and clinical conditions for research to be carried out while ensuring animal health and well-being.

This service is aimed at all investigators from the IiSGM and from other centers. All users must have appropriate certification for the handling of experimental animals; therefore, they must have the appropriate professional credentials (Royal Decree 53/2013 and Order ECC/566/2015).

The RSU Animal Facility of IiSGM is part of the Experimental Medicine and Surgery Unit (MCE).

**Services provided**

Breeding, housing, and supply of different races and strains of rats, mice, and pigs under different housing conditions. Various options are available for experimental procedures in the animal facility with(out) the participation of inhouse personnel. The rates include accessory services such as administration of treatment, performance of procedures, and animal transport. Other experimental techniques can be requested (embryo transfer, freezing/thawing of embryos, etc).

**Facilities**

The Animal Facility is located on the ground floor of the Experimental Medicine and Surgery Unit (MCE). It covers a 170-m2 area divided into communal areas and animal housing areas.

The facility comprises 2 clearly differentiated areas: one for work with animals under standard conditions and another barrier area for work with animals under specific-pathogen–free conditions.

In the first area, animals can be housed in quarantine. The area is used for animals in transit or animals that, given the particular characteristics of a study, must leave the barrier area. This area also has a special containment room for biological risk 2 animals, as well as rooms to house pigs and for postoperative care. Rodents are bred, housed, and undergo experimental procedures in the barrier area.

Hospital General Universitario Gregorio Marañón (HGUGM) figures on the Registry of Facilities for the Breeders, Suppliers, and Users of Animals for Experimentation and Other Scientific Purposes (Registro de Establecimientos de Cría, Suministradores y Usuarios de Animales para la Experimentación u otros fiNes científicos) of the Autonomous Community of Madrid as a User Center (code: ES280790000087).

**Structure and distribution**

• Standard animal facility:
– Store
– Cleaning area
– Mouse quarantine room
– Rat quarantine room
– Pig quarantine room
– Postoperative room: pigs
– Room for housing biologic risk 2 rodents (infected animals)
• Barrier area:
– Rat room
– Mouse room
– Sterile material store
– Clean store
– Procedure room 1
– Procedure room 2

**Technology**

The animal facility is equipped with the following:
• Ventilated isolation cabinets with HEPA-ULPA filters for housing rodents.
• Laminar flow cabinets for animal transfer.
• Storage cabinet for rodents used in metabolic studies.
• 2 type II biosafety cabinets.
• Double-door sterilizer with a liquid program.
• Miniclave sterilizer with liquid program.
• Tray washer.
• Stretcher for animal transfer.
• Scale for large animals.
•Scales for rodents.
•Vaporized hydrogen peroxide sterilization equipment.
• Hydrocleaner.
• "Safety Access System" – SAS with a window format.
• Type 1000 and type 500 standard cages, with dividing grill.
• Feeding bottles: 1000 and 300 ml.
• Cages with grills and filters for mice and rats.
• Equipment, devices, and diverse material for experimental procedures, including induction chambers, respirators, and accessories for anesthesia and analgesia of rodents.

**Staff**

Clinicians:
**Fernando Asensio**, Doctor of Veterinary Medicine, Head of the Animal Facility.
**Pedro Llontop** Doctor of Veterinary Medicine.
**Paula Barnese**, Graduate in Veterinary Medicine.
**Silvia Rivero**, Graduate in Veterinary Medicine

ANIMAL PLATFORM

ANIMAL FACILITY

Technicians:
**Francisco Sánchez Cobos,** Animal Experimentation Technician.
**Alicia Sánchez Martín,** Animal Experimentation Technician.
**Lidia Albadalejo Navarro,** Animal Experimentation Technician.

**Contact**
***Fernando Asensio Rubio***
*Head of the Animal Facility*
*E-mail: fernando.asensio@iisgm.com*

***Pedro Llontop***
*Veterinarian*
***E**-mail: pedro.llontop@iisgm.com*

***Francisco Sánchez Cobos**.*
*Animal Experimentation Technician*
*E-mail: francisco.sanchez@iisgm.com*

*Unidad de Medicina y Cirugía Experimental - UMCE*
*Hospital General Universitario Gregorio Marañón*
*Tfno.: 91 586 6452*
*Calle Doctor Esquerdo, 46 Madrid 28007*

ANIMAL PLATFORM

EXPERIMENTAL SMALL-ANIMAL IMAGING LABORATORY

# EXPERIMENTAL SMALL-ANIMAL IMAGING LABORATORY

## Mission

The main objectives of the group are to perform research on advanced biomedical imaging technologies and to provide imaging services to researchers from the hospital and from other centers.

The group has led and currently leads various networks of excellence in Spain, such as "Red de Imagen Molecular y Multimodalidad" (Multimodality and Molecular Imaging Network) and "Red de Innovación Tecnológica en Hospitales" (Technological Innovation in Hospitals Network), as well as large consortia for technology transfer (CENIT program).

## Description

The Small Experimental Animal Imaging Laboratory has an instrument platform for molecular imaging of small animals. Its clearly multidisciplinary character enables it to address problems from different perspectives, thus facilitating rapid translation of research results to clinical practice and industry.

## Services provided

The types of study that can be performed cover a range of possibilities:

- Magnetic resonance: high-resolution "standard" anatomic imaging, spectroscopy (1-H, 31-P, 13-C), angiography (MRA),
tissue perfusion, diffusion imaging (DWI, DTI), magnetization transfer, functional magnetic resonance imaging (fMRI), dynamic cardiac studies, cell tracking, etc.
- Nuclear imaging (PET and SPECT): cell metabolism studies based on glucose (18F-FDG) or palmitic acid (18F-FTHA), with applications in oncology, neurology, cardiology, and inflammatory and infectious diseases. In vivo follow-up of biomolecules (antibodies/peptides) and cells, etc.
- Computed tomography imaging: studies of bone and biomaterials, morphometric studies, pulmonary studies, etc.
- Molecular probes: synthesis of nanoparticles, optic and/or radioactive labeling of biomolecules (antibodies, peptides, microvesicles, etc.)
- In vivo optic imaging: candida bacteremia (genetically modified strains), tumor metabolism (genetically modified strains), cell tracking, etc.
- SPIM: 3D immunohistochemical studies of whole or semiwhole organs.
- Animal procedures: the technical team of the laboratory has wide experience in procedures in animals for both basic studies (administration of substances, blood sampling, perfusions, necropsy, etc.) and advanced studies (stroke, stereotactic surgery, cardiac infarction, etc.)
- Other services provided by the laboratory include consultancy on the optimal techniques for specific problems and postprocessing of data (including quantification, coregistration of modalities, statistical parametric mapping [SPM], etc.).

Rates can be obtained from **www.iisgm.com** (Research Support Services).

## Facilities

The laboratory covers some 500 m² in the hospital. Slightly less than half of this space houses offices for staff; the remainder houses working laboratories (magnetic resonance rooms, radiopharmacy, PET, SPECT, hot laboratory for cell culture, optical imaging room). Another 500-m² area is also available on the campus of Universidad Carlos III de Madrid, which is oriented more toward technological development.

## Technology

- High-resolution PET/CT (SuperArgus, SEDECAL)
- High-resolution SPECT (U-SPECT-II, MILabs)
- Small animal magnetic resonance scanner (7 Tesla) (Bruker Biospec 70/20 USR)
- Planar optical imaging systems (bioluminescence and fluorescence)
- 3D Single plane illumination microscopy (SPIM) with 5 lasers (405, 488, 532, 590, 649)
- Laboratory animal monitoring system (SA models 1025 and 1030) compatible with the resonance system (temperature, respiration, heart rate, and pulse oximetry)
- Laboratory animal monitoring systems (RGB) compatible with PET (respiration and heart rate)
- Radiopharmacy Unit for in situ production of radiotracers
- Autoradiography system (BAS-5000, Fujifilm)
- Inhaled anesthesia systems (sevoflurane)

## Contact

***Lorena Cussó***
*Head of preclinic Platform*
*E-mail: lcusso@hggm.es*
*web: https://image.hggm.es/*
*Telf.: 91 426 50 17*

## CELL THERAPY UNIT

**Mission**

The Cell Therapy Unit gives support to basic-clinical research in the field of Advanced Therapies and Regenerative Medicine.

**Description**

The Unit is a Research Support Service aimed at researchers in our and other hospitals who wish to carry out preclinical and clinical studies in the field of regenerative medicine. The Unit comprises the following:

• Cell Therapy Laboratory: Laboratory whose environment is controlled based on the norms of Good Clinical Practice and Good Laboratory Practice for clinical cell production that does not require cell expansion or, therefore, production based on Good Manufacturing Practice. Also produces cells for preclinical trials in vitro. For example, trials have been developed in fields such as cardiology, gynecology, maxillofacial surgery, orthopedic surgery, dermatology, and general surgery.

• Cell Production Unit: Infrastructure that provides support to clinical research in regenerative medicine and cell therapy. The Unit has been certified by the Spanish Agency for Medications and Medical Devices (AEMPS) since February 2009, re-accredited for the fourth time in July 2018 (ES/133/15) for the production of 7 cell types: bone marrow mononuclear cells, bone marrow mesenchymal cells, vascular Stromal Fraction of fat (VSF), mesenchymal cells from fat tissue, periodontal ligament cells, NK cells and Treg cells. The cells have been applied in more than 20 clinical trials in our hospital and in other hospitals both in and outside the Community of Madrid.

**Services provided**

• Preclinical studies in cell therapy and regenerative medicine.

• Production of various cell types used in clinical trials under an infrastructure certified according to Good Manufacturing Practice and investigational products approved by the AEMPS for the production of various types of cell, with the following authorizations for investigational products (IP) approved by the AEMPS:

– Mononuclear bone marrow cells (IP Nos. 05-042 and 13-037).
– Stromal vascular fraction (fresh fat cells) (IP No. 11-027).
– Autologous bone marrow mesenchymal cells (IP No. 09-065).
– Allogenic bone marrow mesenchymal cells (IP No.12-088).
– Fatty tissue mesenchymal cells (IP No. 09-019 and 11-164).
– Periodontal ligament cells (IP No. 13-143).
– Stimulated and nonexpanded NK cells (IP: 17-025).
- Treg lymphocytic cells, differentiated, autologous, thymic tissue, expanded and stimulated with IL-2 (thyTreg) (PEI No. 19-083)

• Preparation of Investigational Medicinal Product Dossiers and standardized operating procedures. Validation of and reporting on cell products for which no IP number is available for approval by the AEMPS.

•Histology, immunohistochemistry, and immunofluorescence of organs and tissues.

• All work is carried out within the framework of Good Laboratory Practice, Good Clinical Practice, and Good Manufacturing Practice, ie, a rigid quality assurance system ensures robust results that can be easily transferred to clinical practice.

**Technology**

• Cell Therapy Laboratory:
– BIO II-A de TELSTAR laminar fl ow cabinet.
– Thermo $CO_2$ incubator.
– AXIOVER40 fl uorescence microscope.
– SEPAX system. EPPENDORF 5810R Biosafe for cell separation and refrigerated centrifuge.
– Barnstead MAXQ Mini 4450 shaker.

• Cell Production Unit (GMP):
– TELSTAR BIO II-A and II-A-P laminar fl ow cabinet equipped with continuous particle counters.
– Thermo 371 and STERI-CULT $CO_2$ incubators, with sterilization routine MODEL 3308 S/N THERMO.
– AXIOVER40 CFL microscope.
– EPPENDORF 5810R refrigerated centrifuge.
– Portable particle counter.
– Mechanical tissue digester.
– Automatic lyophilization vial capper and bag sealer.
– Barnstead MAXQ Mini 4450 orbital shaker.
– Bag thawing unit.
– Freezers with temperature ramp

**• Quality Control:**
– MacsQuant flow cytometer.
– BioRad thermocycler.
- PCR gel analyzer. Gel Logic
– Luminometer.
– Safefast ELITE isolation box.
– Microbiological culture oven (37ºC and 22ºC).

**Facility**

The facilities of the Cell Therapy Unit meet the criteria for Good Manufacturing Practice in medication. It is located on Floor –1 of the Clinical Building.

**Documentation**

Quality guarantee system, GMP formal guidelines with certification from the AEMPS (last certification was for 3 years [ES/125I/18; July de 2018]. At the present time there are several new products under review for authorization by the AEMPs,

**Contact**

***Mª Eugenia Fernández Santos.*** *Head of Unit.*
*Technical Manager of GMP*
*E-mail: mariuge@fibhgm.org*
*Tel.: (+34) 91 5290521 / (+34) 657 650 257*
*Clinical Building, Basement –1*
*Hospital General Universitario Gregorio Marañón*
*Calle O´Donell, 48 Madrid 28009*

## FLOW CYTOMETRY AND CELL SORTER UNIT

**Misión**

The Flow Cytometry and Sorter Unit is a Research Support Service (RRS) of the IiSGM. The Unit's mission is to provide flow cytometry support to researchers, both from the IiSGM and external or private companies. The Unit offers scientific-technical support to researchers ranging from experimental design advice, data interpretation, to the use of computer software for multiparametric analysis. This will allow the discovery, identification and tracking of cell markers, also facilitating the separation of different identified cell populations.

**Descripción**

Flow cytometry is an analytical/quantitative technique by which multiple characteristics can be measured in cells or particles of interest contained in a fluid, through marking with antibodies or fluorescent probes. The interaction with a laser will result in a scattering of light and fluorescence that will translate into obtaining detailed information on the structural and functional characteristics of the cells or particles under study. The application of the Cell Separator (Sorter) allows to separate cell populations in sterile conditions according to the characteristics analyzed by flow cytometry.

With this technique, multiple applications can be realized at the same time in a reduced sample volume. It is important to emphasize that this technique performs measurements particle by particle, beyond the descriptive population measures. The identification of cellular markers is of application in the investigation, diagnosis, follow-up and treatment of very diverse pathologies, reason why the Flow Cytometry and Cell Separation is a technology implied in the translational investigation.
The Flow Cytometry Unit has been certified since 2016 according to the guidelines of the Quality Management System (ISO 9001:2008) and since 2019 meets the requirements of the updating of the standard (ISO 9001:2015).

**Services provided**

**FLOW CYTOMETRY ANALYSER**

- Phenotyping different lymphocyte markers on surface or intracellular.
- Analysis of cell viability through propidium iodide, annexin V or 7-AAD marking.
- Cell cycle analysis by propidium iodide.
- Transfection efficiency analysis.
- Quantification of cytokines soluble in plasma, serum, or culture supernatants through a multiplex assay (up to 11 cytokines in 25ul sample).
- Intracellular cytokine analysis.
- Analysis of intracellular calcium movement by Fluo-4 marking.
- Analysis of apoptosis activation through several markers. Ex: Caspasa-3.
- Analysis of DNA fragmentation by TUNEL technique.
- *Detection of microparticles and exosomes in the supernatant of cultures, plasma, serums.*

**CELL SEPARATOR BY FLOW CYTOMETRY**

- Cloning.
- Separation of cell populations of interest.
- Separation of living cells for cell culture.
- Separation of fixed cells for later genetic analysis.

**SUPPORT TO THE RESEARCHER**

- Advice and optimization of study protocols or design of experiments.
- On-demand training and study of researchers' needs.
- Personalised advice on experimental approach, fluorochromes, markers available.
- Standardized procedures for the best possible processing of samples.
- Analysis by means of various computer applications.

**Technology**

**FLOW CITOMETER 10 COLORS, 12 parameters. Gallios Model (Beckman Coulter)**

- Detection of 10 colors, 12 parameters. Three lasers (blue-488nm, red-638nm and violet-405nm), controlled from the computer, with ignition system and quick stabilization.
- State-of-the-art photomultiplier tubes, with high sensitivity for the red range and excellent linearity throughout the range.
- Possibility of analysis of rare events due to the high speed of acquisition as well as the possibility of volume of acquired sample.

**14 COLOUR FLOW CITOMETER, 16 PARAMETERS. Model MAQSquant 16 (Miltenyi Biotec)**

- Detection of 14 colors, 16 parameters. Three lasers: blue-488nm (6 detectors), red-640nm (3 detectors) and violet-405nm (5 detectors).
- Possibility of selecting the FSC with the violet laser to increase the resolution against small particles.
- Sample acquisition in several containers: tubes, eppendorf and 96-well plates (possibility of refrigeration).
- Acquisition of small volumes.

**FLOW CITOMETER SEPARATOR model MoFlo Astrios, (Beckman- Coulter)**

- Integration in type II biological safety cabin.
- Aerosol evacuation and sample agitation system.
- Controlled temperature of the sample (cooling or heating).
- Possibility of up to 6 solid state lasers (640nm, 592 nm, 561 nm, 532 nm, 488nm, 405 nm) and 7 phinols. It currently has 2 lasers (488nm and 640nm).
- Depending on the application, the acquisition speed can be up to 100,000cel/sec; self-recognition by photomultipliers (PMT) and PODs that allows different configurations depending on the target.

Various collection systems: multiwell plates, propylene tubes, etc.

**CELL PLATFORM**

**FLOW CYTOMETRY AND CELL SORTER UNIT**

**FLUORESCENCE MICROSCOPE model Eclipse 50i with Nikon CFI60 optical system.**

**Facility**

The Flow Cytometry and Cell Sorter RSU is located in the Experimental Medicine and Surgery Unit .The room has its own electricity supply, air conditioning, and temperature regulation and fulfils the necessary quality requirements for the services provided.

**Staff**

Laura Díaz Muñoz, Head of Unit and Head Technician

**Contact**

***Laura Díaz Muñoz*** *Head Technician*
*Tel: 91 4269258*
*E-mail:lauradiaz@gmail.com*
*Experimental Medicine and Surgery Unit (prefabricated building). Floor 1*

## CELL CULTURE UNIT

**Mission**

The Cell Culture Unit is part of the Health Research Institute of the Gregorio Marañón Hospital (IiSGM) as a Research Support Service (RRS) aimed at providing scientific, technical and instrumental support to the centre's research groups and other public and private institutions in activities related to cell culture.

The development of in vitro cell cultures is an essential tool for the study of the molecular and cellular mechanisms that occur in any biological process. Cell cultures consist of the growth and maintenance in vitro of cells from normal or tumour organs or tissues. For this, it is essential to preserve the metabolic functions that cells have in vivo through the use of culture media of defined chemical composition and controlled conditions of temperature, pH, $CO_2$ concentration and humidity.

**Description**

The Cell Culture Unit is an essential base for the implementation and development of research projects that use cell cultures as an experimental tool in the field of Biomedical Research. It integrates infrastructures, laboratories, equipment and highly qualified personnel, with the aim of providing advice and scientific-technical support to the users of the Unit. It is made up of the Cell Culture Laboratory (Biosafety Level 2), the Microbiology Laboratory (Biosafety Level 2), the Radioactive Culture Laboratory (Biosafety Level 2) and the cryogenic facility.
The Cell Culture Unit has been certified since 2016 according to the guidelines of the Quality Management System (ISO 9001:2008) and since 2019 meets the requirements of the updating of the standard (ISO 9001:2015).

**Services provided**

- Management of the use of the facilities available to the Unit
- Periodic control of the installations and preventive maintenance of your equipment
- Surveillance for compliance with the work rules and cleanliness of the Cell Culture Unit, demanding the practice of good work habits from all users of these dependencies.
- Elaboration and adaptation of work protocols, cleaning/disinfection programs and use records of the equipment located in the Unit.
- Maintenance of adequate documentation for the correct management of the Unit
- Scientific-technical advice to the users of the Unit
- Detection of Mycoplasma Contamination
- Defrosting of cells

**Technology**

**Cell Culture Laboratory**

- 4 Class II Biological Safety booths; Model: Bio II Advance Brand: Telstar
- 2 Incubators of water jacket with temperature control, $CO_2$; and in environment of humidity saturation; Model: Model 3100 Series. Forma Series II water jacket $CO_2$ Incubator Brand: Thermo Scientific
- 1 Inverted microscope; Model: Labovert Brand: Leitz
- 1 Vacuum pump; Model: Vacusafe Confort Eco Brand: Integra Bioscience
- 1 Thermostatic bath; Model: IsoTemp FisherBrand analogue (10 litres) Make: Fisherbrand
- 1 Sorvall ST40R series refrigerated centrifuge. Brand Thermo Scientific
- 1 centrifuge Sorvall ST16 series
- 1 refrigerated mini-flute Sorvall legend 21R
- 3 devices to freeze the cells at Coolcell® LX viability.

Microbiology Laboratory

- 1 Class II biological safety cabinet; Model: Cabina Gelaire BSB-3
- 3 bacteriological stoves; 2 of Haraeus brand and 1 Selecta Incudigit
- 1 centrifuge; Model: Digitor 21 Make: Orthoaresa

Radioactive Culture Laboratory

- 1 Class II biological safety cabinet; Model: EuroAIre TDI CSB95 cabinet
- 1 Incubator of water jacket with temperature control, $CO_2$; and in environment of saturation of humidity; Model: Function Line Brand: Haraeus Instruments
- 1 Analog Thermostatic Bath Brand: Labbox
- 1 Inverted microscope; Make: Leica

**Cryogenic plant**

- 1 "Taylor Wharton" Liquid Nitrogen Container LS 4800 Laboratory Systems of 130 Liters
- 1 50 litre liquid nitrogen extractor system

**Facility**

The Cell Culture Unit is located on the first floor of the Experimental Medicine and Surgery Pavilion of the IiSGM. It has 60 m2 distributed in three rooms and equipped with its own specifications of electrical network and biological safety to meet the quality requirements of the services offered.

**Contact**

***Maribel Clemente Mayoral***
*Head of Unit*
*E-mail: maribel.clemente@iisgm.com*
*Tel.: (+34) 91 426 92 06*

## CONFOCAL MICROSCOPY

**Mission**

The Confocal Microscopy Unit is a research support service that assists researchers who require confocal fluorescence microscopy or video microscopy.

**Description**

The unit has 2 confocal microscopes at its disposal. These make it possible to acquire fluorescence images of fixed or live samples. The confocal microscope takes optical sections of a fluorescence-labeled sample without the need to invade it, thus providing information on the expression and location of molecules both in 3D (xyz) and in 4D (3D+time).

The most commonly used applications are as follows: 3D reconstruction of subcellular structures, cells, or tissues; marker colocalization studies; quantification of parameters of interest (eg, intensity of fluorescence, area, morphology, and cell density).

The Confocal Microscopy Unit has its own lines of research focusing on the design and development of experimental approaches, image processing, and data analysis.

In recent years, the unit has specialized in in vivo cell phenotyping using tissue sections. This service is aimed at research groups from the Institute and from other institutions that request it.

**Services provided**

- Spectral confocal microscopy of fixed samples: cells, tissues, and organs
- Video microscopy (time-lapse) of live samples in a $CO_2$- and temperature-controlled environment using a digital camera or in confocal mode (including FRAP).

Rates can be obtained from **www.iisgm.com** (Research Support Services).

**Technology**

**1. CONFOCAL FLUORESCENCE MICROSCOPE (LEICA-SP2, INSTALLED IN 2004): CONFOCAL MODULE**

- High-sensitivity multiband with AOBS
- Three independent and adjustable internal fluorescence detectors (PMT) and an internal detector for differential interference contrast (DIC)
- Digitalization of images: 4096 x 4096 pixels, 8 and 12 bits per channel
- Laser sweeping system with AOTF: maximum 2000 lines/s ROI scan under varying conditions for each region

*Laser module:* Multiple laser configuration with 7 excitation lines:

- Laser: 405 nm
- Ar/ArKr laser: 458, 476, 488, 496, and 514 nm
- Laser: 561 nm

*Inverted motorized microscope (DM IRE2 Fluo TCS)*

Objective lenses:

- HC PL-APO 10x/numerical aperture of 0.4
- HC PL-APO 20x/0.70 multi-immersion Lambda Blue
- HCX PL-APO 40x/1.25-0.75 oil immersion
- HCX PL-APO 63x/1.4-0.6 oil immersion
- PL-APO 63x/1.3 glycerol immersion

Illumination with EL6000 (halide lamp) and white LED for transmitted light

Three fluorescence filter blocks: DAPI, FITC, and Rhodamine

*Computer equipment:* Two HP computers running Windows XP (acquisition and processing).

Software: LCS version 15.37 and "Microlab" software license for FRAP.

**2. SPECTRAL CONFOCAL FLUORESCENCE INVERTED MICROSCOPE (LEICA-SPE, INSTALLED IN 2015)**

*Spectral confocal model:*

- AOTF.
- Internal fluorescence detector (PMT) and detector for clear fields
- Digitalization of images: 2048 x 2048 pixels, 8 and 12 bits per channel
- Sweep rate of 400, 600, and 800 Hz (bidirectional optional); K-scanner

*Laser module:* 4 solid-state lasers: 405, 488, 561, and 635 nm.

*Inverted motorized microscope (DMi8)*

APO chromatic lenses:

- ACS APO 10x/numerical aperture of 0.30 (dry).
- ACS APO 20x/0.60 for immersion in water, glycerol, and oil; corrected for 405 nm.
- ACS APO 40x/1.30 oil immersion.
- ACS APO 63x/1.30 oil immersion.

Illumination with EL6000 (halide lamp) and white LED for transmitted light

Galvanometric stage

Four fluorescence fi lter blocks: DAPI, FITC, Rhodamine, and Cy5

Environmental monitoring (temperature and $CO_2$) for experiments with cells and live tissue.

*Computer equipment*

Computer running Windows 7 Software: LAS-X with quantifi cation tools and an additional LAS-AF 3D model (reconstructions, projections, and 3D rendering).

**3. DIGITAL CAMERA**

sCMOS Orca Flash 4.0 LT coupled to the DMi8 microscope.

**Facility**

The Confocal Microscopy Unit is located in the Experimental Medicine and Surgery Unit. It covers 19.2 m2 and has its own electricity supply and air conditioning to fulfil the necessary quality requirements for the services provided.

**CELL PLATFORM**
CONFOCAL MICROSCOPY

**Contact**
***Rafael Samaniego***
*Head of Unit:*
*Tel. 91 586 8739 (confocal), 91 426 9256 (office)*
*E-mail: confocal@hggm.es*

***Paloma Sánchez Mateos***
*Scientifi c Co-Manager:*
*Tel: 91 586 8624*
*E-mail:*
*paloma.sanchezmateos@salud.madrid.org*

*Pabellón de Medicina y Cirugía Experimental (first fl oor)*
*Hospital General Universitario Gregorio Marañón*
*c/ Doctor Esquerdo, 46; Madrid 28007*

## GENOMICS UNIT

**Mission**To provide support to research studies based on the study of the genome and or expression products with the aim of contributing to diagnosis, risk assessment, follow-up, prevention, and therapy in genetic diseases.

**Description**

The Genomics Unit is a Research Support Unit (RSU) that performs sequencing of DNA from PCR products, measurement of fluorescence-labeled fragments, analysis of copy number variations, preparation of libraries, massive sequencing of gene panels, primer design, and design of gene panels for massive sequencing.
Similarly, it provides methodological support for sample preparation, depending on the application of interest, and personalized assessment in the preparation of projects.

The Genomics Unit also provides on-site services as part of the hospital medical services. The service is aimed at all Institute research services and research centers, companies, and other institutions that request it.

**Services provided**

- ***Sample quantification***

Fluorescence-based quantifi cation of nucleic acid samples.

- ***Analysis of DNA by capillary electrophoresis***

1. Sanger sequencing of DNA from purified PCR products and DNA cloned in vectors using capillary electrophoresis and BigDye Terminator v3.1 chemistry. Resolution of up to 600 bp. All samples are purified in order to avoid background noise and the remaining terminators. The primers used for the sequencing reaction are specifi c to the region to be studied.
2. Analysis of the size and quantity of fl uorescence-labeled DNA fragments using an in-house or commercial kit and analysis of fragments of a singlenucleotide polymorphism (SNP) using capillary electrophoresis. Software: GeneMapper. Filters: D, F, E5, G5. Size: Up to 500, 600, and 1200 bp.
3. Multiplex ligation probe amplification (MLPA). Ligation-binding reaction using probes with the homologous area of interest and subsequent amplifi cation by PCR to study copy number variations (CNVs). Fragment analysis by capillary electrophoresis.

- ***Analysis of DNA by massive sequencing***

1. Preparation of the library: Preparation of DNA libraries (enrichment, indexing, and quality control)
2. Massive sequencing: Sequencing by synthesis (MiSeq, Illumina). Preparation of the specific application library. The library can be delivered providing it is compatible with the Illumina sequencing system.

- ***Researcher support***

• Design of primers: Advice on the design of primers and probes for PCR studies.
• Design of gene panels for massive sequencing analysis: Design of gene panels for the study of one or more genotypes.
• Personalized assessment of the experimental approach.
• Analysis of researcher's needs.

**Facilities**

The Genomics Unit is situated on the first floor of the HGUGM Maternity Hospital. It occupies 85 m² and has a high-capacity fi ling and data processing computer system.

**Technology**

For sequencing studies, the Unit has 4 high-end systems for clinical practice and research studies, which were acquired by IiSGM. Two massive sequencer (MiSeq, NextSeq (Illumina)) and two genetic analyzer (ABI 3130xl- 16 capillary tubes- and ABI3730xl -96 capillary- Applied Biosystem). The Genomics Unit also has 3 conventional thermocyclers with a 96-well block (GeneAmp 9700 PCR System, Touchgene gradient, and Touch ThermoCycler C1000), a Qubit fluorimeter (Invitrogen, Thermo Fisher Scientific), refrigerated plate centrifuge, refrigerated Eppendorf centrifuge, Eppendorf Thermal shaker (Thermomixer C), speed-vac concentrator Savant DNA 120 (Thermo Fisher Scientific), fragment size analyser LabChip (Perkim-Elmer), vortex, mini-spin and ice machine

**Staff**

**Ismael Buño Borde**, Scientific Head
**Julia Suárez González,** Technical Head
**Mª José Delmas González**, Laboratory technician
**Ainhoa Simón Zárate**, Laboratory technician
**María Lozano**, Laboratory technician

**Contact**

***Julia Suárez González***
*Head Technician*
*Instituto de Investigación Sanitario Gregorio Marañón (IiSGM)*
*Calle Doctor Esquerdo 46*
*28007 Madrid*
*E-mail: julia.suarez@iisgm.com*
*Tf. 915290151*

MOLECULAR PLATFORM
PROTEOMICS UNIT

## PROTEOMICS UNIT

**Mission**

The principal objective of the Proteomics Unit is to promote scientifi c research and technological development in the fi eld of proteomics by offering research groups, hospitals, and companies a range of proteomics services, advice on projects, and training courses and seminars.

**Description**

The Proteomics Unit provides services other than identification of specific proteins. The techniques offered enable large-scale identification of the proteins that make up the proteome and the option of quantitative proteomics studies for comparison of the relative abundance of proteins in various samples. It is also possible to perform studies of protein–protein interactions and studies of post-translational modifications such as phosphorylation.

In addition, the unit provides targeted proteomics services that make it possible to identify and validate biomarkers in biological and clinical samples.

**Services provided**

**Mass spectrometry**

Determination of protein molecular mass.
2D electrophoresis (2D-PAGE)
Reparative liquid phase isoelectric focusing
Protein complex separation (Blue-Native)
Immunoproteomic analysis

**Peptide separation**

Reverse phase chromatography
isotope labeling, SILAC metabolic labeling
Label-free quantitative proteomics (label free)

**Study of post-translational modifications**

Phosphoproteomics
Other modifications: acetylation, ubiquitination...

**Targeted proteomics studies**

MRM analysis

**Other**

Transfer to PVDF membranes
Mass spectrometry
Ionic exchange chromatography
Preparative liquid phase isoelectric focusing

**Differential expression study**

Gel-based quantitative proteomics: DIGE fluorochrome labeling
Gel-free quantitative proteomics: iTRAQ
Identification of proteins using peptide fingerprinting (MS).
Identification of proteins using peptide fragmentation (MS/MS).
Peptide sequencing

**Liquid chromatography-mass spectrometry**

Analysis of highly complex samples.

**Subproteome analysis**.

Analysis of cell surface proteins (surform).

**Protein separation**

Monodimensional electrophoresis, SDS-PAGE.

**Facilities**

The proteomics unit is part of the Centro de Asistencia a la Investigación (CAI) de Genómica y Proteómica (Center for Aid to Research in Genomics and Proteomics) of Universidad Complutense de Madrid. It is located at the Faculty of Pharmacy, Universidad Complutense de Madrid (UCM) and belongs to the network of Laboratories of the Autonomous Community of Madrid (LAB.185).

**Technology**

Q-exactive HF mass spectrometer (Thermo Finnigan).
QTRAP 5500 mass spectrometer (AB SCIEX).
4800 Proteomics Analyzer mass spectrometer with TOF/TOF (AB SCIEX).
LTQ Segmented linear ion trap mass spectrometer (Thermo Finnigan).
Capillary liquid nano-chromatography system ETTAN LC (GE).
Typhoon 9400 fluorescences scanner (GE).
EttanTM system for 2D electrophoresis (GE).
Liquid isoelectric focus fractionator, OFFGEL (Agilent).

**Staff**

Professor of Microbiology, Universidad Complutense de Madrid.
Researcher, Department of Microbiology, and Scientific Director of the Proteomics Unit, UCM-Parque Científico, Madrid.
Vice-President, Spanish Proteomics Society.
Technical staff:

- **María Luisa Hernáez Sánchez**. Graduate in Pharmacy, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid, and Technical Director, Proteomics Unit.
- **Lola Gutiérrez Blázquez**. Graduate in Biological Sciences, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid
- **Felipe Clemente Velarde**. Doctor of Biochemistry, Universidad Autónoma de Madrid.
- **Inés Zapico**. Graduate in Chemical Sciences, Universidad de Oviedo.
- **Enrique Pérez**. Master of Bioinformatics, Universidad de Murcia.

**Unit documentation**

The unit has all the procedures, technical instructions, and registers in line with ISO UNE-EN ISO 9001:2008, awarded in 2010.

**Contact**

***Concha Gil García***
*Scientific Director*
*e-mail:* conchagil@ucm.es
***María Luisa Hernáez Sánchez***
*Tecnitian Head*
*e-mail:* mlhernae@ucm.es
Proteomics Unit
Pza. Ramón y Cajal, s/n
Facultad de Farmacia
UCM
28040 Madrid
Tel: (+34) 91 394 16 13
Fax: (+34) 91 394 17 45
*e-mail:* cai.proteomica@pas.ucm.es

## BIOINFORMATICS UNIT

**Mission**

The Bioinformatics Unit was set up to provide support for the design and analysis of genomic data from funded projects by research groups from the IiSGM and from external organizations.

**Description**

Bioinformatics and application of this approach in data processing and analysis has not only become an essential pillar of basic research focused on processing of large volumes of biologic data, but it has also become a tool to help decision making in translational medicine and research. For almost 2 decades, molecular biology and bioinformatics have developed and expanded in the health care field as tools for diagnosis and prognosis of diseases with a genetic component, in stratification of patients according to their genetic background, in disease follow-up, and in the potential identification of therapeutic targets in personalized medicine.

**Services provided**

***1 Genome Analysis***

a. Assembly and alignment of DNA sequences. After a step involving control of both the quality of the sample and the potential presence of cross contamination, assembly and alignment are undertaken using raw data from sequencing platforms.
b. Analysis of the human exome. Variant calling and annotation and CNVs.
c. Genotyping. Applied at all levels, with the possibility of simple GWAS. In the case of GWAS, with samples from various populations, we can add an analysis step for characterization and correction of the potential presence of populational stratification in the samples.

***2 Transcriptome analysis***

a. Assembly and alignment of mRNA sequences. After a step involving control of both the quality of the sample and the potential presence of cross-contamination, assembly and alignment are undertaken using raw data from sequencing platforms.
b. Microarray analysis. These are performed using both commercial and custom platforms, followed by a simple analysis of differences in expression between sample groups.
c. Functional analysis of biomarkers. The potential biological function of a set of differentially expressed biomarkers is established using approaches based on Gene Ontology and pathway enrichment analysis.
d. Quantification of mRNA-Seq transcripts. Various algorithms can be used according to the objective of the study. Depending on the end use of the analysis, data are normalized using the most appropriate procedure, and differences in expression between groups of samples are analyzed.
e. Studies on alternative splicing and isoforms using mRNA-Seq data.
f. Studies of expression using the platform nCounter from NanoString.

***3 Programming and Statistical Support***

a. Statistical analysis. Based mainly on R/Bioconductor, analysis includes the development of scripts in R, descriptive statistics, association analysis, clustering and principal components analysis (PCA), and the calculation of sample sizes and statistical power.
b. Evaluation of batch effects. Evaluation of batch effects in experimental data using clustering, PCA, multidimensional scaling (MDS), and special programs.
c. Assistance for preparation of manuscripts (methods and results) and application to calls for competitive funding (experimental design/study bioinformatics, material and methods, preliminary results, and pilot studies).

**Facilities and technology**

The core area of the Bioinformatics Unit is located on the ground floor of the Experimental Medicine and Surgery Department of IiSGM. Studies with large computational requirements—such as next-generation sequencing or advanced statistical modeling—can be performed using HP Proliant DL380 G9 servers, an HP Z820 workstation, and 2 NAS servers, as well as desktop devices and the necessary network infrastructure. These were purchased by the IiSGM and the Medical Oncology Service.
These devices are housed at two locations: the desktop devices, workstation, and one of the NAS servers are in the Experimental Medicine and Surgery building; the computing servers and the other NAS server is in the Data Processing Center of Hospital General Universitario Gregorio Marañón (HGUGM).
The Bioinformatics Unit works together with the Translational Oncology Laboratory of the Medical Oncology Service, actively cooperates with the ISS of the Genomics Unit, often carries out processing of data from the NanoString and Illumina MiSeq quantification platforms.

**Staff**

**Antonio Clemente Picornell Company**, Head of the ISS and Bioinformatics Coordinator
**Enrique Luis Álvarez Castillo**, Predoctoral Master's student of the Bioinformatics ISS and of the Medical Oncology Service

**Contact**

***Antonio Clemente Picornell Company***
*Head of the ISS and Bioinformatics Coordinatory*
*Instituto de Investigación Sanitario Gregorio Marañón (IiSGM)*
*C/ Doctor Esquerdo 46 28007 Madrid, Spain*
*E-mail (requests from the SAI):*
*sai.bioinformatica@iisgm.com*
*E-mail (research contact):*
*antonio.picornell@iisgm.com*
*Tel.: (+34) 915 290 724*

# INNOVATION, KNOWLEDGE TRANSFER, AND TRANSLATION TO PRACTICE



## INNOVATION SUPPORT UNIT

Innovation is a key element in the development of the research community, especially in the health care sector. IiSGM's commitment to this activity is unwavering and has led to the creation of a structure aimed at providing researchers with a smooth path from the innovative idea to the development of the end product.

The objectives of the IiSGM include encouraging and developing innovation within the organization by promoting the transfer of the results obtained by its professionals to society, the health system, the scientific community, and the financial system.

The Innovation Support Unit came into being from a powerful research and technological development group in the area of biomedical instrumentation and engineering at Hospital General Universitario Gregorio Marañón, with a solid record in transferring technology to the industrial sector.

The unit is structured in such a way that it provides channels for the ideas and proposals of professionals working at the hospital. Thus, the unit can support and advise researchers along the different stages of the innovation and transfer process, with the aim of turning their proposals into products and services that add value to the health system and society.

The purposes of the Innovation Support Unit include the following points:

- Providing the necessary support to professionals working at the hospital to help them innovate
- Bringing the culture of innovation and entrepreneurism closer to health/ research professionals
- Establishing channels to enable appropriate training and information for professionals working in innovation
- Promoting and strengthening alliances between the Innovation Support Unit and the various agents of innovation, both with other management structures, as well as with companies and R&D organizations and the business fabric
- Acting as a bridge between the agents of innovation from outside the IiSGM by offering ad hoc support services, both as interlocutors and as managers of innovation projects

In 2019, its structure was as follows:

- Head of unit: Manuel Desco Menéndez
- Project manager: Beatriz Pérez
- Innovation manager: Hugo De Navascués
- Innovation manager: Eva Caravilla
- Research manager: Trajana Garrido
- Quality control technician: Elena Rodríguez

Development and promotion of innovation is a specific area of the Strategic Plan of the IISGM.

In 2012, the Innovation Committee was set up to supervise and provide assistance in all areas associated with innovation. It provides regular analyses, studies, and follow-up of IiSGM innovation projects and provides criteria and support to ensure appropriate implementation and development.

The members of the Innovation Committee cover the different professional profiles associated with the IiSGM: researchers, physicians, managers, and personnel from other areas such as nursing, management/administration, and technical staff. The Innovation Committee is made up of the following members:

Steering Committee:

- Presidente: Dr. Ismael Buño (Director del IiSGM).
- Vicepresidente: Dr. Manuel Desco (Director de la UAI).
- D. Thierry Bardinet (gerente de la FIBHGM)

Members:
Dr. Francisco Fernández-Avilés Díaz (Jefe de Servicio de Cardiología).
Dr. Rubén Pérez-Mañanes (Servicio de Cirugía Ortopédica y Traumática)
Dra. Ana Herranz (Jefa de Sección de Farmacia Hospitalaria)
Dr. Rafael Correa (Jefe de Grupo del Laboratorio de Inmunoregulación)
Dr. Iván Márquez (Coordinador de la Unidad de Cáncer heredofamiliar)
Dr. Guillermo Rodríguez (Especialista de Área en el Servicio de Anestesia y Reanimación)
D. Carlos Blanco (Vicegerente de Investigación y Transferencia de la UC3M)
Dra. Sonia García de San José (Subdirectora Gerente del HGUGM)

Secretaría: Beatriz Pérez (Gestora de Proyectos de la UAI)

The identification and registration of the results of research to ensure that they are protected is key to promoting transfer and use of these results and the development of commercial technology-based projects.

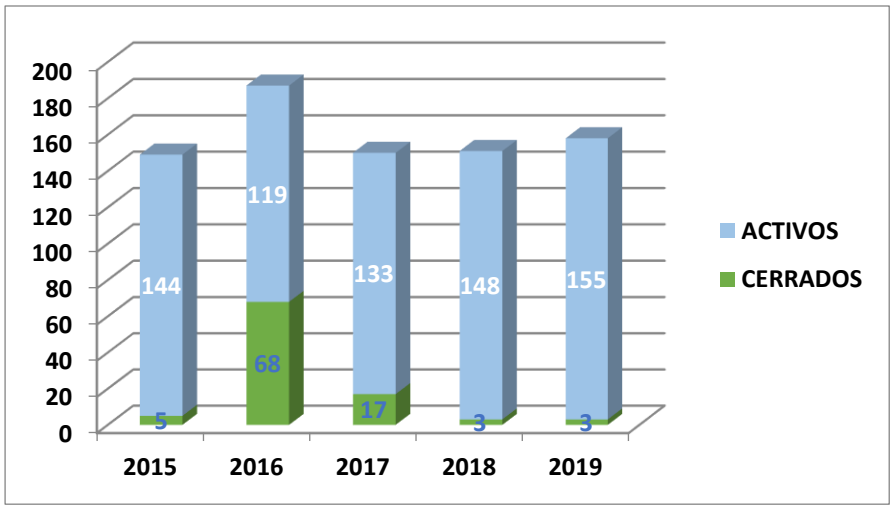
IiSGM activity in innovation during 2019 can be seen in the following 3 main areas:

## 1. Intellectual and industrial property

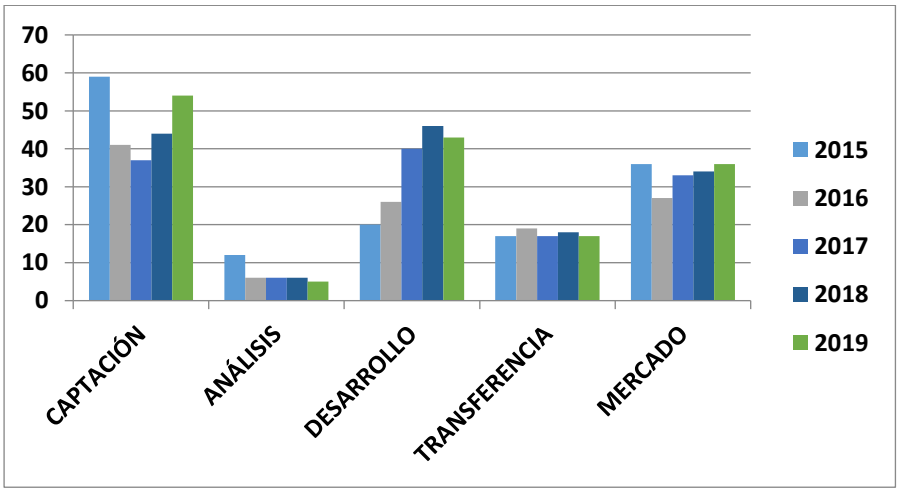
a) Patents applied for: 2 international patents, and 1 intellectual property registrations.
b) Patents awarded: 1 national patent and 1 intellectual property registrations.
c) Transfer of patents: 1 famiy of patents.

## 2. Innovation projects portfolio:

During 2019, 22 new innovation projects were started in the unit. The year closed with 155 active projects. The following figures show the distribution of projects classified by area and development phase over the last 5 years
With respect to calls for innovation projects, IiSGM has obtained more than 208,627.595 €.




Total Number of Projects




Total number of projects (per phase)

**Contracts**:
A total of 11 new contracts have been closed, both with companies and national and international organizations, 3 of them contracts were collaborative and another 1 was technology licensing.
Other initiatives and achievements of the Unit during 2019 include the following:

- One project selected to participate in HealthStart: Madri+d Foundation for Knowledge Program to promote the creation of technology start-ups in the health sector
- 83 meetings have been held with companies, collaborators and internal researchers.

- 155 innovation projects managed.
- Participation of the unit in informative sessions on innovation in national events
- The Unit is actively working with 81 national and international technological partners

It is noteworthy that the webpage of the IiSGM includes a specific section on innovation, which describes services provided by the ISU, the members of the ISU, contact details, latest news, and notable successes:

• Present an innovative idea or project by contacting http://www.iisgm.com/innovacion/unidad-de-apoyo-a-la-innovacion/comunica-tu-idea-2/

• Material for consultation such as the Innovation Guide http://www.iisgm.com/innovacion/unidad-de-apoyo-a-la-innovacion/normativa-de-invenciones-del-iisgm/

## INNOVATION PORTFOLIO

Below, we show the project portfolio, or "innovation funnel", generated by IiSGM and active as at December 2019.

| | ICTs Health | Material and devices | Medicines and pharmaceutical products | Biotechnology and molecular diagnosis | Imaging | Care organization |
|---|---|---|---|---|---|---|
| Ideas proposed (not developed) | 8 | 13 | 5 | 14 | 3 | 11 |
| Ideas under assessment | 1 | 4 | 0 | 0 | 0 | 0 |
| Ideas under development | 7 | 10 | 2 | 8 | 5 | 11 |
| Ideas under transfer | 3 | 4 | 2 | 4 | 3 | 1 |
| Ideas in the market | 10 | 5 | 5 | 2 | 7 | 7 |

The intellectual and industrial property of the IiSGM included in the technology portfolio is detailed below.
This information is constantly updated and can be consulted at: http://www.iisgm.com/innovacion/propiedad-intelectual-e-industrial/propiedad-intelectual-e-industrial/

## INDUSTRIAL PROPERTY REGISTRATIONS

| AREA | GROUP | TITLE | REFERENCE* | OWNER | INVENTORS |
|---|---|---|---|---|---|
| 1 | Group 1.01 Advanced technological applications and human health | Aparato de tomografía multimodal | P 2005 02612 (10 patents family) | FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A. | Juan José Vaquero, Manuel Desco |
| 1<br>7 | Group 1.01 Advanced technological applications and human health.<br>Group 7.22 Pathophysiology of the neonate and developing child | Incubadora para imagen con radiación no ionizante | PCT/ES 2007 070214 (3 patents family) | FIBHGM | Juan José Vaquero, Manuel Desco, Manuel Sánchez-Luna |
| 1 | Group 1.01 Advanced technological applications and human health | Aparato de adquisición de datos para tomografía computerizada por emisión de radiación gamma y su funcionamiento | P 2007 02836 | FIBHGM – Universidad Politécnica de Madrid | Juan José Vaquero, Manuel Desco, Pedro Guerra, Andrés de Santos, Giancarlo Sportelli |
| 1 | Group 1.01 Advanced technological applications and human health | Procedimiento y dispositivo para la detección y discriminación de eventos válidos en detectores de radiación gamma | PCT/ES 2009 070456 (2 patents family) | FIBHGM | Eduardo Lage, Gustavo Tapias, José Antonio Sánchez, Javier del Pino, Juan José Vaquero, Manuel Desco |
| 1<br>2 | Group 1.01 Advanced technological applications and human health<br>Group 2.01 Natural history of heart disease | Método para visualizar la información contenida en imágenes tridimensionales del corazón | P 2010 00363 (4 patents family) | FIBHGM - Universidad Politécnica de Madrid | Esther Pérez, Ángel Arenal, Javier Bermejo, Francisco Fernández-Avilés, Manuel Desco, Mª Jesús Ledesma, Andrés de Santos, José Luis Rubio |

| AREA | GROUP | TITLE | REFERENCE* | OWNER | INVENTORS |
|---|---|---|---|---|---|
| 1 | Group 1.01 Advanced technological applications and human health | Ciclotrón clásico superconductor compacto | P 2013 30626 (2 patents family) | UC3M - CIEMAT | Luis García-Tabarés, Concepción Oliver, Fernando Toral, Daniel Gavela, Diego Obradors, Cristina Vázquez, Iván Podadera, Javier Munilla, Jesús Calero, Jose M. Pérez, Friederich Haug |
| 1 | Group 1.01 Advanced technological applications and human health | Equipo y método de generación de tomografías | P 2017 30341 (3 patents family) | FIBHGM - UC3M | Manuel Desco, Mónica Abella |
| 1 | Group 1.01 Advanced technological applications and human health | Light Sheet Microscope and procedure for extended samples | P 2018 30912 | UC3M | Jorge Ripoll Lorenzo |
| 1 | Group 1.01 Advanced technological applications and human health | Mobile 3D imaging system based on light sheet microscopy | P 2018 30913 | UC3M | Jorge Ripoll Lorenzo |
| 1 | Group 1.01 Advanced technological applications and human health | Celda centelleadora | PCT/ES 2017 070623 | UC3M | Georgios Konstantinou, Juan José Vaquero, Rigoberto Chil, Manuel Desco |
| 1 7 | Group 1.01 Advanced technological applications and human health Group 7.25 Artificial circulation laboratory | Equipo y simulación para control de hemorragias | P 2017 30568 | FIBHGM – Medical Simulator | Manuel Desco, Juan Francisco del Cañizo |
| 1 2 | Group 1.02: Signal processing Group 2.01 Natural history of heart disease | Sistema y método para la detección automática de patrones electrofisiológicos anómalos | P 2017 31161 (2 patents family) | FIBHGM - UC3M | Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús, Fernández-Avilés Díaz |
| 2 | Group 2.01 Natural history of heart disease | Catéter y método para la detección de actividad eléctrica en un órgano | P 2014 31315 (5 patents family) | FIBHGM – Universidad Politécnica de Valencia – Universidad de Michigan | Andreu Martínez, Felipe Atienza, Miguel Rodrigo, Mª Salud Guillem, Omer Berenfeld |
| 2 | Group 0 2.01 Natural history of heart disease | Dispositivo de localización de arritmias cardiacas | P 2014 31597 (4 patents family) | FIBHGM - Universidad Politécnica de Valencia | Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, Mª Salud Guillem |
| 2 | Group 2.01 Natural history of heart disease | Mapping and quantifying blood status and thrombus risk in the heart | US 62259494 (3 patents family) | FIBHGM – University of California | Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez-Legazpi, Raquel Yotti |
| 3 | Group 3.03B Neurological diseases | Procedimiento mejorado para evaluar el riesgo cardiovascular | P 2009 01923 (2 patents family) | FIBHGM | María Concepción Guisasola, Elena Dulín |
| 4 7 | Group 4.01 Infectious diseases. Group 7.25 Artificial circulation laboratory. | Dispositivo para prevenir la neumonía asociada a ventilación mecánica | U 2014 30814 | FIBHGM | Juan Francisco del Cañizo, Emilio Bouza, Mª Jesús Pérez |
| 4 | Group 4.01 Infectious diseases | Dispositivo aplicador de antifúngico coloreado | P 2014 30751 | FIBHGM | Pablo Martín-Rabadán |
| 4 | Group 4.01 Infectious diseases | Portaobjetos | U 2014 30943 | FIBHGM | Pablo Martín-Rabadán Caballero |
| 4 | Group 4.02 Molecular biology of HIV | Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos | P 2015 00669 (2 patents family) | Universidad de Alcalá de Henares - FIBHGM | Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Cornelia Peña, José Luis Copa, Juan Soliveri, Jorge Pérez , Mª Ángeles Muñoz, José Luis Jiménez, Pilar García |
| 4 | Group 4.02 Molecular biology of HIV | Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos | P 2016 00726 | Universidad de Alcalá de Henares - FIBHGM | Mª Ángeles Muñoz, José Luis Jiménez, Carlos Guerrero, Daniel Sepúlveda, Rafael Ceña, Francisco Javier de la Mata,Rafael Gómez, Javier Sánchez-Nieves, Gabriel Mencía, Jesús Cano, José Luis Copa, Juan Soliveri, Jorge Pérez, Mercedes Valiente, Carlos Emilio Gutiérrez |
| | Group 5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases | Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune | P 2018 30197 (2 patents family) | FIBHGM | Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós |

| AREA | GROUP | TITLE | REFERENCE* | OWNER | INVENTORS |
|---|---|---|---|---|---|
| 5 | Group 5.02 Group Molecular biology of HIV | Dendrímeros carbosilanos catiónicos obtenidos mediante "click chemistry", su preparación y sus usos | P 2011 30804 | FIBHGM –Universidad de Alcalá de Henares -Universidad de Navarra | Francisco Javier de la Mata, Rafael Gómez, Eduardo Arnaiz, Sandra García, José Luis Copa, Juan Soliveri, José Manuel Hernández, Mª Ángeles Muñoz-Fernández, Verónica Briz, Mª Jesús Serramia, Conchita Tros |
| 5 | Group 5.02 Molecular biology of HIV | Dendrímeros carbosilanos con un núcleo polifenólico y su uso como antivirales | P 20103 0450 | Universidad de Alcalá de Henares - HGUGM | Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Paula Ortega, Mª Ángeles Muñoz-Fernández, Louis Chonco, Mª Jesús Serramia |
| 5 | Group 5.02 Molecular biology of HIV | Dendrímeros carbosilanos y su uso como antivirales | P 20103 0233 (8 patents family) | Universidad de Alcalá de Henares - HGUGM | Francisco Javier de la Mata, Rafael Gómez, Mª Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, Beatriz Rasines, Louis Chonco, Eduardo Arnaiz, Mª Jesús Serramia |
| 5 | Group 5.02 Molecular biology of HIV | Compuestos dendríticos carbosilanos homo y hetero-funcionalizados | P 2012 31187 (2 patents family) | Universidad de Alcalá de Henares - FIBHGM | Francisco Javier de la Mata, Rafael Gómez, Mª Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, José Luis Jiménez, Silvia Fernández, Marta Galán, Raquel Lorente, Elena Fuentes, Javier Sánchez, Cornelia Peña, Mª Jesús Serramía, Rosa Reguera |
| 6 | Group 6.02 Translational medical oncology and personalized cancer therapy | Método para seleccionar, manipular y aislar células tumorales circulantes en líquidos corporales por transferencia asistida por láser | PCT/ES 2018 070064 | FIBHGM - UPM | Miguel Martín, María del Monte, Andrés Muñoz, Rocío Ramos, Javier Gayarre, Tatiana Massarrah, Carlos Molpeceres |
| 6 | Group 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | alloGenomics | M 3600830 | FIBHGM | Ismael Buño, Milagros González-Rivera, José Luis Díez-Martín, Carolina Martínez-Laperche, Elena Buces, Jorge Gayoso, Mi Kwon, David Serrano, Pascual Balsalobre |
| 7 | Group 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney | Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos | PCT/ES 2008 070137 (23 patents family) | FIBHGM | Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas |
| 7 | Group 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney | Método de diagnóstico de insuficiencia renal | P 2011 31506 | FIBHGM - Universidad de Alcalá de Henares - Fundació PUIGVERT | Ricardo Bosch, Arancha Ortega, Jordi Bover, Alberto Lázaro, Alberto Tejedor |
| 7 | Group 7.01 Vascular damage and infl ammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology ofthe kidney | Cilastatin for use in the treatment of sepsis | EP 16382299 (9 patents family) | FIBHGM | Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás |
| 7 | Group 7.02 Fisiopatología e historia natural de las enfermedades hepáticas y gastroenterológicas | Method for predicting response to beta blockers | EP 19382971.0 | FIBHGM, IDIBAPS, CICBIOGUNE, FIBIoHRC, UAH, CIBERHED | Rafael Bañares, Jorge Gracia, Juan Manuel Falcón, Agustín Albillos |
| 7 | Group 7.04 Diseases of the critically ill child | Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua | P 2013 30340 | FIBHGM – SERGAS - Universidad de Santiago de Compostela | Jesús López-Herce, Santiago Mencía, Antonio Rodríguez |
| 7 | Group 7.06 Regenerative medicine in plastic surgery | Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos | P 2005 01182 (5 patents family) | FIBHGM | José María Lasso, Paola Nava |

| AREA | GROUP | TITLE | REFERENCE* | OWNER | INVENTORS |
|---|---|---|---|---|---|
| 7 | Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral | Use of esmolol for early regresion of left ventricular hypertrophy | EP10382141 (2 patents family) | FIBHGM | Emilio Delgado, Begoña Quintana |
| 7 | Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral | Dispositivo protector bucal con depresor lingual | P 2015 31508 (4 patents family) | FIBHGM | Guillermo Juan Rodríguez, Javier Casanova |
| 7 | Group 7.25 Artificial circulation laboratory | Método y aparato de hemodiafiltración | PCT/ES2007 070081 (3 patents family) | FIBHGM | Juan Francisco del Cañizo |
| 7 | Group 7.25 Artificial circulation laboratory | Dispositivo de asistencia ventricular | P 2013 31422 | FIBHGM | Juan Francisco del Cañizo, Manuel Ruiz |
| 7 | Group 7.25 Artificial circulation laboratory | Dispositivo para bombeo de sangre de forma tubular, con válvulas activas gobernado por vacío y aplicación del mismo | P9501070 (14 patents family) | SERMAS - HGUGM | Juan Francisco del Cañizo |
| 7 | Group 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | Maqueta didáctica armable | U 2015 30218 | FIBHGM | Juan Antonio León |
| | Obstetrics and Gynaecology Service | Simulador de sutura uterina | U 2012 30998 | FIBHGM | Óscar Martínez, Ignacio Cueto, Blanca González |
| | Obstetrics and Gynaecology Service | Simulador de útero para emergencias obstétricas | P 2013 30161 | FIBHGM | Óscar Martínez, Ignacio Cueto, Blanca González, Mª del Mar García, Ana Isabel Casas |
| | Obstetrics and Gynaecology Service | Dispositivo de sutura (doble aguja) | U 2013 30693 | FIBHGM | Óscar Martínez, Luis Ortiz, Ignacio Cueto, Blanca González |
| | General Surgery I Service | Mango ergonómico de cubierto | U 2014 30605 | FIBHGM | Irene de los Ríos, Mª Victoria Sevilla |
| | Resumption Service | Apósito | U 2014 31166 | FIBHGM | José Mª Isla |
| | Dermatology Service | Composición para liberación controlada de compuestos | P 2014 31583 | FIBHGM – Dr. Enrique Alía | Enrique Alía Fernández, Elena Conde |
| | IiSGM | Marca FIBHGM | M 2606584(3) | FIBHGM | Thierry Bardinet |
| | IiSGM | Marca IiSGM | M 2929252(2) | FIBHGM | Ismael Buño |
| | IiSGM | Marca ITEMAS | M 2961719(7) | FIBHGM | Manuel Desco |

| | |
|---|---|
| | **Transferred Industrial Property** |

*** REFERENCE**: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## INTELLECTUAL PROPERTY REGISTRATIONS

| AREA | GROUP | Title | Reference | Owner | Inventors |
|---|---|---|---|---|---|
| 1 | Group 1.01 Advanced technological applications and human health | MANGOOSE | Nº Asiento Registral: 02/2010/4412 | FIBHGM | Javier Pascau, Manuel Desco, Mónica Abellá, Alejandro Sisniega, Juan José Vaquero |
| 1 | Group 1.01 Advanced technological applications and human health | CUSQ: CARDIO US/Quantification | Nº Asiento Registral: 16/2010/303 | FIBHGM - UPM | Manuel Desco, María Jesús Ledesma, Andrés de Santos |
| 1 | Group 1.01 Advanced technological applications and human health | FIRST (Fast Iterative Reconstruction Software for Tomography) | Nº Depósito Notarial: 3806 | FIBHGM | José Manuel Udías, Joaquín López, Samuel España, Manuel Desco, Juan José Vaquero |
| 1 | Group 1.01 Advanced technological applications and human health | QuTIS (Quantification Tool for in vivo Spectroscopy) | Nª Depósito Notarial: 5095 | FIBHGM | Manuel Desco, Juan José Vaquero |
| 1 | Group 1.01 Advanced technological applications and human health | MMWKS | Sin número registro | FIBHGM | Manuel Desco, Juan José Vaquero |
| 1 | Group 1.01 Advanced technological applications and human health | MRSITool - software para la cuantificación de estudios de imagen estreptoscópica | Sin número registro | FIBHGM | Manuel Desco |

| AREA | GROUP | Title | Reference | Owner | Inventors |
|---|---|---|---|---|---|
| 1<br>1 | Group 1.01 Advanced technological applications and human health<br>Group 1.03 Computer architecture,communications, and systems:ARCOS | RapTor | Nº Asiento Registral: 16/2017/7104 | FIBHGM-UC3M | Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| 1 | Group 1.01 Advanced technological applications and human health | XAP-LAB | Nº Asiento Registral: 16/2017/7106 | FIBHGM-UC3M | Manuel Desco, Mónica Abella, Álvaro Martínez, Alba García |
| 1 | Group 1.01 Advanced technological applications and human health | FUX-SIM | Nº Asiento Registral: 16/2017/7105 | FIBHGM-UC3M | Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| 4 | Group 4.01 Infectious diseases | Estudio de impacto clínico de un plan docente de formación continuada sobre las infecciones asociadas a dispositivos intravasculares | Nº Asiento Registral: 16/2013/4798 | FIBHGM | Emilio Bouza, María Guembe, Patricia Muñoz, Mª Jesús Pérez, Mª del Mar San Segundo |
| 4<br>7 | Group 4.01 Infectious diseases<br>Group 7.27 Hospital pharmacy and pharmacogenomics | Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs) | Nº Asiento Registral: 16/2014/5265 | FIBHGM | Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio |
| 4 | Group 4.01 Infectious diseases | Material docente para la infección relacionada con el catéter | Nº Asiento Registral: 16/2014/6113 | FIBHGM | María Guembe, Emilio Bouza, María Jesús Pérez |
| 4 | Group 4.01 Infectious diseases | Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables | Nº Asiento Registral: 16/2015/2094 | FIBHGM | María Guembe, Pablo Martín-Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente |
| 4 | Group 4.01 Infectious diseases | Tolerancia cero a la bacteriemia relacionada con el catéter: optimización de la prevención con nuevos sistemas de vigilancia de las vías endovasculares | Nº Asiento Registral: 16/2015/2983 | FIBHGM | María Guembe, Emilio Bouza Mª Jesús Pérez Granda |
| 4 | Group 4.01 Infectious diseases | Documento de registro para vigilancia durante la inserción y el mantenimiento de los catéteres intravasculares | Nº Asiento Registral: 16/2015/2984 | FIBHGM | María Guembe, Emilio Bouza Mª Jesús Pérez |
| 4 | Group 4.01 Infectious diseases | Cultivo de conectores cerrados. Nueva alternativa de diagnóstico conservador de infección relacionada con el catéter | Nº Asiento Registral: 16/2017/517 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín-Rabadán |
| 4 | Group 4.01 Infectious diseases | Base de datos de perfiles de proteínas correspondientes a distintas especies de hongos filamentosos para mejorar su identificación mediante la técnica de espectrometría de masas MALDI-TOF | Nº Asiento Registral: 16/2019/6180 | FIBHGM | Belén Rodíguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz |
| 5<br>7 | Group 5.03 Systemic autoimmune diseases<br>Group 7.27 Hospital pharmacy and pharmacogenomics | Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas | Nº Asiento Registral: 16/2013/5179 | FIBHGM | Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez |
| 5 | Group 5.03 Systemic autoimmune diseases | Taller práctico de Técnicas de Laboratorio de Inmunología e interpretación clínica para médicos | Nº Asiento Registral: 16/2014/6111 | FIBHGM | Larissa Valor, Luis Carreño, Diana Hernández |
| 5 | Group 5.03 Systemic autoimmune diseases | Taller práctico de Técnicas de Laboratorio de Inmunofluorescencia indirecta (IFI "Live") para médicos | Nº Asiento Registral: 16/2014/6112 | FIBHGM | Larissa Valor, Fco. Javier López, Diana Hernández |
| 5 | Group 5.03 Systemic autoimmune diseases | Infiltraciones guiadas por ecografía en reumatología | Nº Asiento Registral: 16/2018/7393 | FIBHGM | Juan Carlos Nieto González |

| AREA | GROUP | Title | Reference | Owner | Inventors |
|---|---|---|---|---|---|
| 6 | Group 6.02 Translational medical oncology and personalized cancer therapy | SMART, application for cancer genetic counseling | Nº Asiento Registral: 16/2015/5724 | FIBHGM, UNED, URJC | Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo |
| 6 | Group 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | Herramienta informática para la Gestión Electrónica de la Agenda de Transplante Hematopoyético "gesTHrónica" | Nº Asiento Registral: 16/2008/7735 | FIBHGM | Pascual Balsalobre, Ismael Buño, José Luis Diez |
| 6 | Group 6.03Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | Panel alloGENOMICS v1.13 – Panel de genes y regiones de interés para su aplicación en el estudio de la influencia de los polimorfismos genéticos en el desarrollo de complicaciones post-trasplante alogénico de progenitores hematopoyéticos (alo-TPH) | Nº Asiento Registral: 16/2014/7306 | FIBHGM | Ismael Buño, Milagros González, José Luis Diez, Jorge Gayoso, Carolina Martínez, Elena Buces, David Serrano, Pascual Balsalobre, Mi Kwon |
| 7<br>7 | Group 7.04 Diseases of the critically ill child.<br>Group 7.27 Hospital pharmacy and pharmacogenomics | Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos | Nº Asiento Registral: 16/2011/7360 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |
| 7<br>4 | Group 7.27 Hospital pharmacy and pharmacogenomics<br>Group 4.01 Infectious diseases | Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs) | Nº Asiento Registral: 16/2014/5265 | FIBHGM | Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio |
| 7 | Group 7.27 Hospital pharmacy and pharmacogenomics | Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal de enfermería de planta y evaluación de su competencia | Nº Asiento Registral: 16/2015/503 | FIBHGM | Elena Lobato, María Sanjurjo, Ana Herranz, Carmen Rodríguez |
| 7 | Group 7.27 Hospital pharmacy and pharmacogenomics | E-OncoSalud: Programa de Telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico | Nº Asiento Registral: 16/2016/987 | FIBHGM | María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez. |
| 7<br>7 | Group 7.27 Hospital pharmacy and pharmacogenomics<br>Group 7.01 Inflamación y daño vascular en la Enfermedad Renal Crónica, Diálisis y Trasplante Renal. Fisiopatología renal | NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal | Nº Asiento Registral: 16/2016/989 | FIBHGM | Sara Ibáñez, María Sanjurjo, Ana Herranz Carmen Rodríguez, Mª Luisa Martín, Mª Ángeles Goicoechea, Eduardo Verde, José Luño |
| 7 | Group 7.27 Hospital pharmacy and pharmacogenomics | Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes o / antiagregados | Nº Asiento Registral: 16/2017/507 | FIBHGM | Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez |
| 7 | Group 7.27 Hospital pharmacy and pharmacogenomics | Control-Sugar24: calculadora para la insulinización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria | Nº Asiento Registral: 16/2017/6705 | FIBHGM | Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García |
| 7<br>7 | Group 7.27 Hospital pharmacy and pharmacogenomics<br>7.05B Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insuffi ciency and respiratory disorders of sleep | PK-GUIDE: Guía para monitorización clínica de fármacos | Nº Asiento Registral: 16/2017/6956 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| 7<br>7 | Group 7.27 Hospital pharmacy and pharmacogenomics<br>7.05B Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insuffi ciency and respiratory disorders of sleep | PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética | Nº Asiento Registral: 16/2017/6957 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |

| AREA | GROUP | Title | Reference | Owner | Inventors |
|---|---|---|---|---|---|
| 7 | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | Parto vaginal en 3d | Nº Asiento Registral: 16 / 2019 / 2823 | FIBHGM | Juan Antonio de León |
| 8 | Group 8 Research in nursing & Pediatric Emergency Department & Press Departament | Nos vamos de excursión a las Urgencias del Gregorio Marañón | Nº Asiento Registral: 16/2016/3799 | FIBHGM | Laura Cervantes, Paula Vázquez, David García |
| | IiSGM Technical Unit | GESTEO | Nº Asiento Registral: 16/2014/3806 | FIBHGM | Rafal Bañares, Mª Carmen Olmedo, José Mª Bellón, Miriam Arriaga, Luis Fernández, Mª Isabel Ballesteros, Maite Fontans, Xoan Barreiro, Alejandro López |
| | Innovation Support Unit IiSGM Technical Unit | Herramienta de Gestión y Cuadro de Mando de Innovación | Nº Asiento Registral: 16/2015/3255 | FIBHGM | Anna Riera, Manuel Desco, Eva Carravilla, Eva Talve, Marco Rivas, Isabel Ballesteros, Thierry Bardinet, Rafael Bañares, Carmen Olmedo |
| | Pediatric Emergency Department | Sistema de triage del paciente pediátrico en Urgencias-Gregorio Marañón (TRIPED-GM) | Nº Asiento Registral: 16/2015/5530 | FIBHGM | María Concepción Míguez Gloria Margarita Guerrero, María del Carmen Ignacio Cerro |

**Transferred Intellectual Property**

## TECHNOLOGY COMPANIES / START UP

The creation, consolidation and proliferation of companies requires a series of prerequisites to be met:

- Investment in R&D that contributes to the creation of new technological opportunities.
- Risk capital to finance the first stages of development of a start up
- A culture favourable to entrepreneurship in the environment;
- Specific programmes to support the creation of start-ups
- A regulatory-institutional framework that favours R&D&I, the protection of intellectual property and bringing researchers closer to the business world.

In this regard, it is worth highlighting the creation of the following companies

AMBIOX BIOTECH

Ambiox Biotech is characterized by its entrepreneurial spirit, capacity for innovation, and social commitment. Its mission is to apply innovative developments in nanotechnology to the field of biomedicine, thus bringing added value to Society that can be appreciated at international level. The creativity and innovation of Ambiox Biotech are developed for application in human health care, thus forging a link between science and the market.

The company was created as a spin-off at Universidad de Alcalá de Henares. Its team includes Mª Ángeles Muñoz, Director of the HIV Molecular Biology Group of the IiSGM.

SIMCOSMETIC BIOTECH, S.L.

SimCosmetic Biotech develops new dermocosmetics using natural ingredients. Its biotechnology platforms are designed to combine natural ingredients in order to generate new high-quality protected dermocosmetics with synergetic activity.

The company was the fruit of a joint venture between Hospital Gregorio Marañón, Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC), and the University of Freiburg (Germany), as well as with leading companies in the field of natural ingredients and development of cosmetics. SimCosmetic's key advantage in developing new dermocosmetic and skin care products is its ability to cooperate with various public and private organizations.

NATURE 4D

Nature 4D designs, develops, and sets up advanced imaging devices tailored to the needs of the client. These devices have multiple applications in the field of biomedicine and basic research.

Nature 4D was created as a spin-off at Universidad Carlos III de Madrid based on technology developed within the framework of the IiSGM. Its activity focuses on advanced optical imaging techniques, specifically advanced microscopy and preclinical optical imaging techniques. Thanks to a software application developed and registered by the sponsor and the company's highly specialized experience, Nature 4D offers tailored solutions involving optical imaging devices with user-friendly software for the acquisition and representation of data in 2D and 3D.

CORIFY CARE, S.L.

Corify Care is a spin-off of funded by main world-wide experts on cardiac arrhythmias which is going to introduce in the market a novel medical device to non-invasively map cardiac arrhythmias in real time. This novel technology will improve the treatment in more than 10 million of atrial fibrillation patients only in Europe. Its non-invasive electroanatomical mapping system allows the possibility to map all atrial fibrillation patients even during a regular visit to the cardiologist s without the need of invasive catheters.

Corify Care was created as a spin-off at IiSGM de Universitat Politècnica de Valencia. Its team includes Andreu Climent (CEO), Francisco Fernández-Avilés and Felipe Atienza of Cardiovascular Diseases Area of the IiSGM.

# INTERVENTIONAL AND NON INTERVENTIONAL CLINICAL STUDIES



During the year 2018, a total of **1115** clinical studies (clinical trials and observational studies) were active in our hospital. A total of 208studies were implemented.

Approximately 95% of the clinical trials with medicines started during 2018 were Phase I, II, and III studies.
As for the distribution by research areas, almost **46.1%** of the clinical trials were led by the Translational Oncology Area (Area 6).

| ACTIVE CLINICAL STUDIES | |
|---|---|
| 2015 | 945 |
| 2016 | 1048 |
| 2017 | 1226 |
| 2018 | 1190 |
| **2019** | **1115** |

| NEW CLINICAL STUDIES | | | |
|---|---|---|---|
| | Clinical Trials | Observational studies | Total |
| 2015 | 150 | 73 | 223 |
| 2016 | 125 | 57 | 182 |
| 2017 | 148 | 83 | 231 |
| 2018 | 136 | 74 | 210 |
| **2019** | **140** | **68** | **208** |

| DISTRIBUTION OF CLINICAL TRIALS SIGNED BY PHASE % | | | | | |
|---|---|---|---|---|---|
| | 2015 | 2016 | 2017 | 2018 | **2019** |
| Phase I | 5.33 | 7.2 | 6.8 | 11.7 | **7.28** |
| Phase II | 31.34 | 30.4 | 30.8 | 34.5 | **37.1** |
| Phase III | 58 | 56.8 | 52.5 | 48 | **43.7** |
| Phase IV | 1.33 | 2.4 | 6.3 | 3.6 | **4.6** |
| Others (Medical device, Vaccines) | 4 | 6.4 | 3.6 | 2.2 | **7.29** |

| DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2019 (National/International) | | |
|---|---|---|
| | Nº | % |
| National | 67 | 32.2 |
| International | 141 | 67.68 |

| DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2019 BY RESEARCH AREA OF IiSGM | | |
|---|---|---|
| | Nº | % |
| Area 1 | 0 | 0 |
| Area 2 | 17 | 8,2 |
| Area 3 | 18 | 8.7 |
| Area 4 | 7 | 3.4 |
| Area 5 | 26 | 12.5 |
| Area 6 | 96 | 46.2 |
| Area 7 | 41 | 19.7 |
| Nursing group | 0 | 0 |
| Associated clinicians | 3 | 1.4 |

# FUNDING OF IiSGM



The global analysis of Institute funding was performed by collecting all income obtained by research groups both from competitive/noncompetitive projects and from clinical trials, agreements with various bodies, and donations.

The objective of this methodology is to be able to provide information on the capacity of IiSGM groups to generate income.

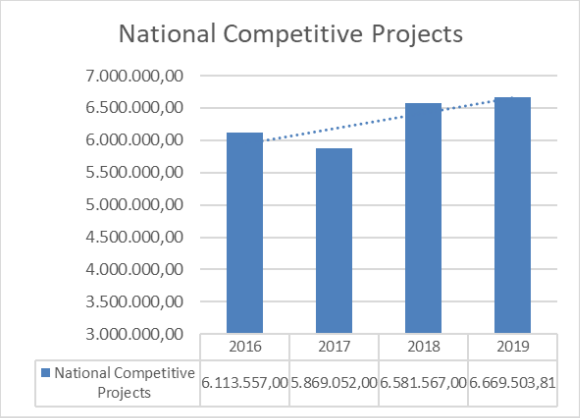
The total income generated by IiSGM researchers 'own activity in 2019 came to 16.476.182 15,503,687€ that is, 6,3% more than in 2018.

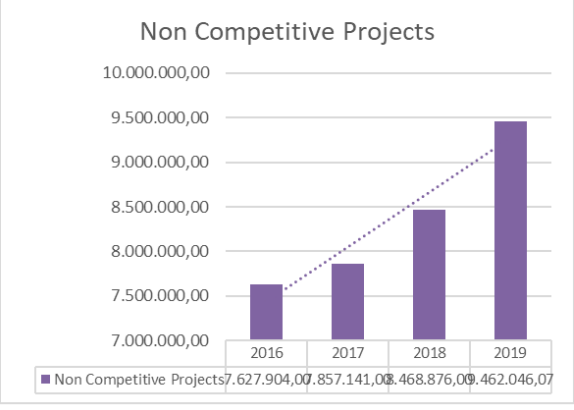
To these revenues must be added the nominative subsidy granted to this foundation by the Consejeria of Health of the Community of Madrid, which would raise total revenues to **17.098.402 euros**.

| | 2015 | 2016 | 2017 | 2018 | **2019** |
|---|---|---|---|---|---|
| Total income generated by researchers | 13,235,424 € | 14,219,400 € | 14,431,258 € | 15,503,687 € | **16,476,182 €** |
| Nominative subsidy C. Madrid | | | | 612,220€ | **622,220** |

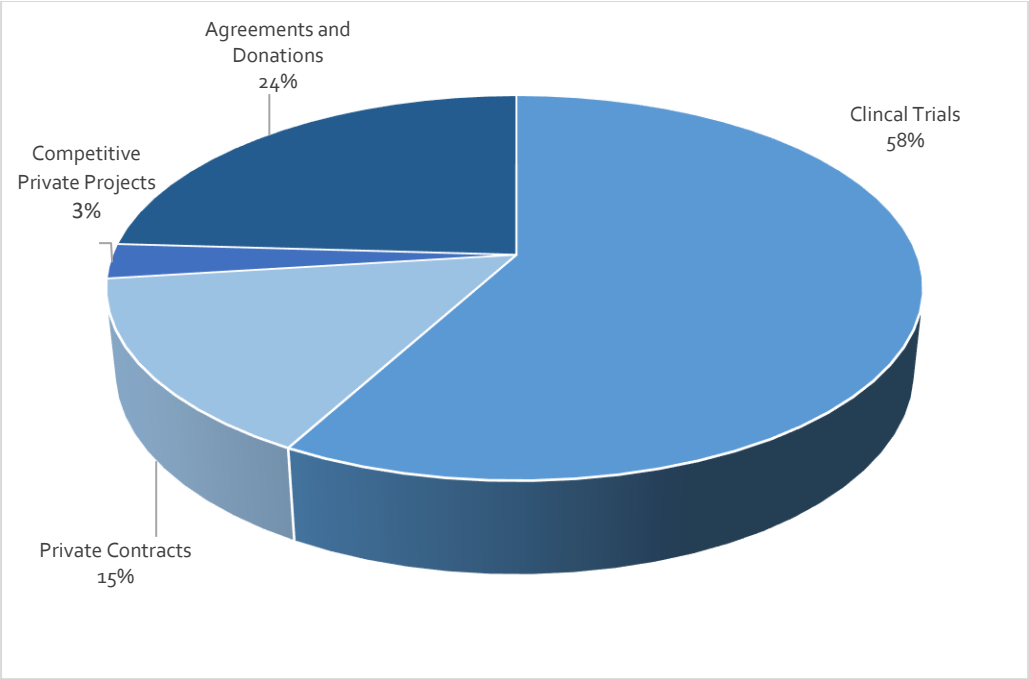
As in previous years, this income is earmarked for the support and development of research activities in the groups.

**EVOLUTION OF INCOME GENERATED BY RESEARCHERS BY CATEGORY:**





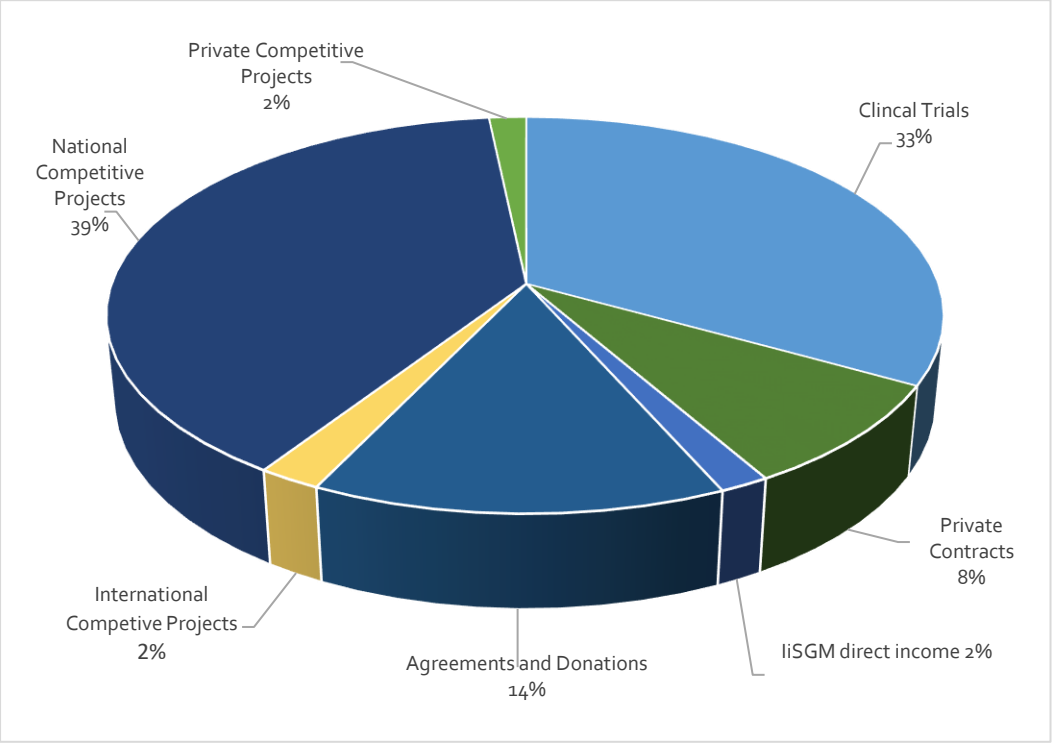
Overall, the distribution of income is as in previous years, with national competitive projects representing 39% and Clinical Trials 33%.




Distribution of private funding (2019)

**57% of income** was from the **private sector**

Of all income generated exclusively by researchers, 58% was from the private sector, reaching the figure of 9,745,976 euros in 2019, 58% of this amount was from clinical trials activity.




Resources generated by IiSGM researchers (2019)

**43%** of the resources obtained from **competitive calls**
Despite the reduction in funds available for research projects through competitive call, especially in the public sector, the IiSGM continues to have a considerable ability to generate income from competitive calls. In fact funds generated through National Competitive calls have increase 13,4% over the last 2 years.

*(ON A SEPARATE PAGE)*



As in previous years, in the case of individual information provided by each group in this report, only projects obtained by groups in **competitive calls (public and private**) where the principal investigator was a group researcher are reported.

Therefore, other sources of funding have not been taken into account.

The objective of this premise is to provide information on the capacity of each of the groups to obtain funding in a competitive environment

# LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH



## AREA 1: BIOMEDICAL ENGINEERING

### Group 1.01-Advanced technology applications and human health

TITLE: **ASPIDE: exAScale ProgramIng models for extreme Data procEssing** H2020 ASPIDE
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN COMMISSION (FRAMEWORK PROGRAM)
START DATE: 15/06/2018
END DATE: 14/12/2020

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Nuevo sistema de tomografía por rayos X portátil** DTS17/00122
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Tecchnology Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardiaco** PI18/00462
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Diagnóstico de la bacteriemia por Gram positivos mediante nuevos trazadores PET selectivos**. PI16/02037.

DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Predoctoral contract** FI18/00255
DIRECTOR: MARTINEZ GARCIA, MAGDALENA
PROJECT TYPE: Human Resourcest
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **The effects of pregnancy on the human brain** CP16/00096
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Cannabidiol como estrategia preventiva en la aparición de psicosis** DRO2017/085
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Ingenieria de datos inspirada en el cerebro**. S2013/ICE-2958 CM
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 14/11/2014
END DATE: 14/11/2018

TITLE: **Laboratorio de sondas moleculares** . EQC2019-006674-P
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 05/06/2019
END DATE: 31/12/20

TITLE: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anthi-Stapgyloccal antibodies and Immune-PET**
. FBBVA18/01
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION BBVA
START DATE: 30/04/2019
END DATE: 31/12/20

TITLE: **Red Madrileña de Nanomedicina en Imagen Molecular**. S2017/BMD-3867
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research network
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Ejercicio físico y N-acetil cisteína como terapias preventivas en la aparición de esquizofrenia durante la adolescencia: estudios preclínicos de imagen molecular y de comportamiento** FAK16/01
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
START DATE: 20/10/2016
END DATE: 30/03/2019

TITLE: **Miguel Servet contract "The effects of pregnancy on the human brain"** MS16/00096,
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **TÉcnico de imagen optica (confocal y spim)** PEJ2018-003117-A
DIRECTOR: CALLE HERNÁNDEZ, DANIEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Gestión y procesamiento de datos de neuroimagen en entorno cloud** PEJ2018-003141-A
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Nuevas sondas moleculares en imagen preclínica** PEJ2018-004151-A
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Posdoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-POST/BMD-9592
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-7899
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9077
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9401
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement comtract** PEJ-2017-AI/SAL-7487
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 03/12/2018

END DATE: 03/03/20

**-Not managed by FIBHGM**

TITLE: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level.**
DIRECTOR: RIPOLL, JORGE
PROJECT TYPE: Research project
FUNDING BODY: EUROPEAN COMMISSION
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales.** RTC-2017- 6600-1
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Realidad aumentada para entornos de planificación, simulación, entrenamiento y navegación quirúrgica: HoloMed.** IND2018/TIC-9753.
DIRECTOR: : PASCAU GONZÁLEZ-GARZÓN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **Utilización de técnicas de imagen avanzada en pequeño animal de laboratorio para aplicaciones cardiovasculares**
DIRECTOR: DESCO MENÉNDEZ, MANUEL / CUSSÓ, LORENA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN CNIC
START DATE: 01/01/2017
END DATE: 31/12/2020

TITLE: **Plataforma computacional para la caracterización de la dinámica espacio-temporal de las protusiones celulares.**
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: BBVA Foundation
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Descifrando la estructura y la función de las protusiones celulares en la migración tridimensional**. TEC2015–73064-EXP
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE**: Imagen óptica 3D ultrarrápida con información de fase en microscopía in-vivo** FIS2016-77892
DIRECTOR: RIPOLL LORENZO, JORGE / MOSCOSO, MA.
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Imagen paramétrica del cerebro embrionario: una nueva propuesta de instrumentación biomédica de altas prestaciones (IMPARABLE)** TEC2016-78052-R
DIRECTOR: MUÑOZ BARRUTIA, ARRATE / VAQUERO LÓPEZ, JUAN JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Nuevos escenarios de tomografía por rayos X (NEXT)** DPI2016-79075-R
DIRECTOR: ABELLA GARCÍA , MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Programa Garantía Juvenil** PEJ2018-001759-A
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER (Anxela Caldera Fernández)
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/10/2019
END DATE: 31/10/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: DESCO MENENDEZ, MANUEL (MARCOS VIDAL, LUIS)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/11/2018
END DATE: 31/10/2022

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Nikolaos Sakaltras)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 03/09/2018
END DATE: 02/09/2022

TITLE: **Programa para Personal Investigador Postdoctoral)**
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER ( Fernández Fernández, Roberto)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Valencia
START DATE: 01/09/2018
END DATE: 31/08/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Mónica García Sevilla)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 17/08/2018
END DATE: 17/08/2022

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: MUÑOZ BARRUTIA, ARRATE (Estíbaliz Gómez de Mariscal)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 18/09/2017
END DATE: 17/09/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER ( David García Mato)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 07/09/2017
END DATE: 06/09/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSE ( David Pérez Benito)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/09/2017
END DATE: 31/08/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Cristóbal Martínez Sánchez)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/02/2017
END DATE: 31/01/2021

## GROUP 1.02: Signal processing

**-Not managed by the FIBHGM**

TITLE: **Machine Learning Frontiers in Precision Medicine** H2020-MSCA-ITN-2018 Grant Agreement Nº813533
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **Advanced Bayesian computation methods for modelling and inference in complex dynamical networks** N00014-19-1-2226
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/03/2017
END DATE: 28/02/2022

TITLE: **LOLITA: Information Theory for Low-Latency Wireless Communications** ERC-2016-StG Nr. 714161
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/03/2017
END DATE: 28/02/2022

TITLE: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-I00
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Detección precoz de Crisis de Autismo**
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Fundación Universia
START DATE: 29/04/2019
END DATE: 30/04/2020

TITLE: **Domain Alignment and Data Wrangling with Deep Generative Models**
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Fundación BBVA
START DATE: 30/04/2019
END DATE: 30/04/2021

TITLE: **PRACTICO-CM Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Change-point Management (CAIMAN)** TEC2017-86921-C2-2-R
DIRECTOR: RAMÍREZ GARCÍA, DAVID
PROJECT TYPE: Research project

FUNDING BODY: MINECO
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Micro-fundamentos del comportamiento: Un enfoque basado en las TICs para entender el comportamiento humano y la interacción (aMBITION)** TEC2017-92552-EXP
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: CASI-CAM-CM
START DATE: 01/11/2018
END DATE: 31/12/2020

TITLE: **Caracterización automática de comportamiento mediante modelos latentes basados en redes profundas** IND2017/TIC-7618
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/02/2018
END DATE: 15/02/2021

TITLE: **Finite-length iterative decoding: fundamental limits, practical constructions and inference (FLUID)** TEC-2016-78434-C3-3-R
DIRECTOR: MARTÍNEZ OLMOS, PABLO; VAZQUEZ VILAR, GONZALO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Advanced Bayesian computation methods for estimation, prediction and control in multi-sensor complex system (ADVENTURE)** TEC2015-69868-C2-1-R
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Metodologías de aprendizaje automático en neuroimagen** PEJ2018-001757-A
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract: Research Assistant** PEJ-2018-AI/TIC-11059
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 15/01/2019
END DATE: 30/04/2020

TITLE: **Detection of behavioral changes and its application in psychiatry** IND2018/TIC-9574
DIRECTOR: RAMÍREZ GARCÍA, DAVID
PROJECT TYPE: Human Resources
FUNDING BODY: DIRECCIÓN GENRAL DE INVESTIGACIÓN E INNOVACIÓN. COMUNIDAD DE MADRID
START DATE: 04/02/2019
END DATE: 03/02/2022

TITLE: **Domain Alignment and Data Wrangling with Deep Generative Models** IND2018/TIC-9649
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Human Resources
FUNDING BODY: DIRECCIÓN GENRAL DE INVESTIGACIÓN E INNOVACIÓN. COMUNIDAD DE MADRID
START DATE: 04/02/2019
END DATE: 03/02/2022

## AREA 2: CARDIOVASCULAR DISEASE

### GROUP 2.01: Natural history of heart disease

TITLE: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017.
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA. PROGRAMA MARCO
START DATE: 01/03/2019
END DATE: 28/02/2024

TITLE: **Clinical development and proof of principle testing of new regenerative VEGF-D therapy for cost-effective treatment of refractory angina "A phase II randomized, double-blinded, placebo-controlled study"** H2020 ReGenHeart.
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA. PROGRAMA MARCO
START DATE: 01/01/2017
END DATE: 30/06/2021

TITLE: **Secondary Prevention of Cardiovascular Disease in the Elderly Trial (Secure)**. H2020 SECURE
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA.DG.SANCO
START DATE: 06/10/2017
END DATE: 06/10/2022

TITLE: **Artificial intelligence drive platform for atrial fibrillation stratification** EIT HEALTH AF-FINE :
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA.
START DATE: 01/07/2019
END DATE: 01/01/2021

TITLE: **CORIFY**: **Solving Cardiac Arrhythmias** CI17/00027
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION LA CAIXA
START DATE: 01/04/2017
END DATE: 30/04/2019

TITLE: **Desarrollo clínico de una terapia celular para reparación cardíaca basada en ingeniería de tejidos** RTC-2016-4911-1
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: MINECO PROYECTO RETOS 2016.
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Implicaciones clinicas y fisiológicas de los flujos intraventriculares en pacientes con insuficiencia cardiaca** DPI2016-75706-P
DIRECTOR: MARTINEZ-LEGAZPI AGUILO, PABLO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 30/12/2016
END DATE: 29/12/2019

TITLE: **Safey and Efficacy of the Intracoronary administration of Allogeneic human Cardiac Stem Cells in Patients with Ischemic Chronic Heart Failure at High Risk for Sudden Cardiac Death (CaSeC-HF)** PIC18/00024
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Guiado en tiempo real de la ablación de la fibrilación auricular mediante cartografia eléctrica global (CORIFY).** DTS16/00160
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Technological development project in health
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudios translacionales para el desarrollo de terapias génicas con telomerasa para el tratamiento del infarto de miocardio y de la fibrosis pulmonar.** DTS17/00091
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Technological development project in health
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Regeneración Cardíaca de Infarto Crónico Porcino mediante inyecciones Intramiocardiacas de Células Progenitoras Embebidas en Hidrogeles de Matriz Decelularizada** PI16/01123
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Disfunción diastólica en el adulto con Tretrálogia de Fallot. Bases Biomecánicas e implicaciones**. PI16/01237
DIRECTOR: PEREZ DEL VILLAR MORO, MARIA CANDELAS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estratificación y tratamiento de la fibrilación auricular basada en los mecanismos de perpetuacion de la arritmia (STRATIFY-AF)** PI17/01059
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/02/2018
END DATE: 31/12/2020

TITLE: **Validación prospectiva de un índice pronóstico de muerte súbita o arritmias ventriculares malignas en adultos con cardiopatías congénitas** PI17/01327
DIRECTOR: DATINO ROMANIEGA, TOMAS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Técnicas avanzadas de procesado de resonancia magnética para caracterizar el sustrato arritmogénico y el riesgo arrítmico en la miocardiopatía dilatada** PI18/01117
DIRECTOR: PÉREZ DAVID, ESTHER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Ablación radial para control de la Fibrilación auricular persistente (Artist Trial)** PI18/01895

DIRECTOR: ARENAL MAÍZ, ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **OCTOPUS-CHF Optical Coherence Tomography Observation of Pulmonary Ultra-Structural Changes in Heart Failure Tomografía de Coherencia óptica observación de los cambios ultra-estructurales pulmonares en insuficiencia** PI18/00254
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardiaca con fracción de eyección preservada del paciente diabético** PI18/01595
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **ITACA-CM. "Investigación Traslacional en arritmias cardíacas hereditarias** S2017/BMD-3738
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE**: IP FIS Contract** IFI15/00113.
DIRECTOR: LOUGHLIN RAMIREZ, GERARD ALVARO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE**: IP FIS Contract** IFI16/00010.
DIRECTOR: DIEZ DEL HOYO, FELIPE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 09/03/2017
END DATE: 31/12/2020

TITLE**: Río Hortega contract** CM18/00134
DIRECTOR: CASTRODEZA CALVO, JAVIER
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 31/01/2019
END DATE: 30/01/2020

## GROUP 2.02: Cardiovascular pathophysiology

- **Not managed by the FIBHGM**

TITLE: **Papel del estrés del retículo endoplámico y sus moduladores en el fibrosis miocárdica asociada a la isquemia miocárdica en el contexto de la obesidad. Relevancia de los miRNAs.** PI18/00257

DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Atracción de Talento Joven**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA , (Ernesto Martínez Martínez)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/02/2018
END DATE: 31/01/2019

TITLE: **Becas predoctorales UCM**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA , (Francisco ds Chagas Vasconcelos Neto)
PROJECT TYPE: Human Resources
FUNDING BODY: UCM
START DATE: 01/06/2019
END DATE: 31/05/2022

TITLE: **Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2018"**
DIRECTOR: MARTINEZ, ERNESTO, (Ana Romero Miranda)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/04/2019
END DATE: 30/03/2021

## GROUP 2.03: Cardiac celular electrophysiology

- **Not managed by the FIBHGM**

TITLE: **Papel de los factores de transcripción específicos cardiacos en el control de la actividad eléctrica miocárdica**.
SAF2017-88116-P
DIRECTOR: DELPÓN, EVA / CABALLERO, RICARDO
FUNDING BODY: MICINN/MINECO
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Estudio funcional de mutaciones en los genes HCN4, ZFHX3 y ANK2 identificadas en pacientes con fibrilación auricular familiar**. PI16/00398
DIRECTOR: TAMARGO MENENDEZ, JUAN
FUNDING BODY INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2017
END DATE: 30/09/20

TITLE: **Repercusiones funcionales de dos mutaciones en el gen TBX5. Papel del factor Tbx5 en el control de la actividad eléctrica cardiaca.** SEC2017
DIRECTOR: DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE CARDIOLOGÍA
START DATE: 2017
END DATE: 2018

TITLE: **Investigación Traslacional en Arritmias Cardiacas hereditArias. ITACA**-CM B017/BMD3738
DIRECTOR: DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: COMUNIDAD DE MADRID. PROGRAMA DE BIOMEDICINA
START DATE: 01/01/2018
END DATE: 31/12/2021

## GROUP 2.07: Acute cerebral ischemia: Stroke

TITLE: **"REgenerative Stem cell therapy for STroke in Europe"** H2020-RESSTORE
DIRECTOR: GIL NUÑEZ, ANTONIO
FUNDING BODY: EUROPEAN COMMISSION
TYPE OF PROJECT: European project
START DATE:01/10/2015
END DATE: 01/10/2020

## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

### GROUP 3.01: Neurobiological and psychological bases of mental disorders. Neurodevelopmental disorders.

TITLE: **H2020 Autism Innovative Medicine Studies – 2 – Trials.** H2020 AIMS-2-TRIALS
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: H2020 European research project
START DATE: 01/05/2018
END DATE: 31/05/2023

TITLE: **Multidisciplinary Approaches to Translational Research in Conduct Syndromes 603016-2 (MATRICS)** 7PM13/MATRICS
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: European research project
START DATE: 01/03/2014
END DATE: 01/03/2019

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT: Integrated research project of excellence
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1 : mecanismos epigenéticos y comorbilidad afectiva** PI18/01819
DIRECTOR: CARBALLO BELLOSO, JUAN JOSÉ
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles.** PI18/01119
DIRECTOR: MORENO PARDILLO, Mª DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente.** PI18/00753
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 año.** PI17/02227
DIRECTOR: MORENO RUIZ, CARMEN

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista.** PI17/01997
DIRECTOR: PINA CAMACHO, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis.** PI17/01249
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997
DIRECTOR: MAYORAL ARAGON, MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Biotipos en Trastornos del Especto Autista: relación con evolución clínica y respuesta a fármacos** PI17/00819
DIRECTOR: PARELLADA REDONDO, Mª JOSE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de deleción 22q11.2** PI17/00481
DIRECTOR: FRAGUAS HERRAEZ, DAVID
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Evaluación de la eficacia de una intervención preventiva sobre la prevalencia de bullying y el estado de salud en niños y adolescentes: Ensayo Clínico autorizado por Clusters**. PI16/02012
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudio de seguimiento a 8 años de la primera evaluación de niños y adolescentes hijos de pacientes con esquizofrenia o trastorno bipolar"** PI15/00810
DIRECTOR: MORENO PARDILLO, MARIA DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Estudio multicéntrico del maltrato en la infancia y el riesgo para enfermedad mental en niños y adolescentes: análisis de modificaciones epigenéticas y de su correlato con biomarcadores de inmunidad innata en un modelo periférico**. PI15/00723
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

TYPE OF PROJECT:Research project
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Estudio de vias fisiopatológicas diferenciales asociadas a fenotipos distintivos en una muestra de 200 pacientes con trastornos del espectro autista**. PI14/02103
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 31/12/2019

TITLE: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayo r de inicio temprano**. PI14/00815
DIRECTOR: JANSEN, JOOST
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayo r de inicio temprano"**. PI14/02069
DIRECTOR: MORENO ALONSO, CARMEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01
DIRECTOR: PINA CAMACHO, LAURA
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2019
END DATE: 31/10/2021

TITLE: **Combinación de tratamiento con N-acetil Cisteína (NAC) y entrenamiento cognitivo para promover cambios en los patrones de activación conductuales y neurales que subyacen al déficit cognitivo en psicosis adolescente** FAK18/01
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2018
END DATE: 31/10/2020

TITLE: **Prevención de envejecimiento celular en adolescentes con primer episodio psicótico tratados con N-acetil cisteína** FAK17/01
DIRECTOR: FRAGUAS HERRAEZ, DAVID
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2017
END DATE: 31/10/2019

TITLE: **A combination of two treatment strategies to promote changes in behavioral and neural activation patterns underlying cognitive deficits in adolescent psychosis** NARSAD2016
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: BRAIN & BEHAVIOUR RESEARCH FOUNDATION
TYPE OF PROJECT:Research project
START DATE: 01/06/2019
END DATE: 31/12/2019

TITLE: **Convocatoria beca predoctoral en Neurociencias 2016** FTPGB16/01
DIRECTOR: MOLINA GARCIA, MARIA DOLORES
FUNDING BODY: FUNDACIÓN TATIANA PEREZ DE GUZMAN EL BUENO
TYPE OF PROJECT:Research project
START DATE 12/12/2016
END DATE: 11/12/2020

TITLE: **Ramón y Cajal Contract** RYC-2017-23144
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/09/2018
END DATE: 31/08/2024

TITLE: **Ramón y Cajal Contract** RYC-2017-23144
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/09/2018
END DATE: 31/08/2024

TITLE: **Beca de doctorado Fundación Bancaria La Caixa-** INPHINIT2018-CS
DIRECTOR: ARANGO LÓPEZ, CELSO (Carol Stella)
FUNDING BODY: LA CAIXA
TYPE OF PROJECT:Human resources
START DATE: 29/10/2018
END DATE: 28/10/2021

TITLE: **Miguel Servet Contract** CP18/00077
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 01/10/2019

TITLE: **Río Hortega Contract** CM17/00119
DIRECTOR: DURÁN CUTILLA, MANUEL
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 29/01/2018
END DATE: 28/01/2020

TITLE: **Río Hortega Contract** CM17/00121
DIRECTOR: AYORA RODRIGUEZ, MIRIAM VALLE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 29/01/2018
END DATE: 28/01/2020

TITLE: **Sara Borrell Contract** CD18/00185
DIRECTOR: ARANGO LÓPEZ, CELSO (Kenia MArtínez)
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 01/10/2019

TITLE: **PREDOCTORAL Contract** FI18/00233
DIRECTOR: BURDEUS OLAVARRIETA, MONICA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III (AYUDAS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD)
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **PREDOCTORAL Contract** FI17/00230
DIRECTOR: ABREGU CRESPO, RENZO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III (AYUDAS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD)
TYPE OF PROJECT:Human resources
START DATE: 02/04/2018

END DATE: 01/04/2022

TITLE: **JUAN RODÉS Contract** JR16/00013
DIRECTOR: PINA CAMACHO, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Ayudas para la incorporación estable de Doctores**. IEDI-2016-00793
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
TYPE OF PROJECT:Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Formación profesorado universitario** FPU18/06550
DIRECTOR: RUBIO FERNANDEZ, PATRICIA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 29/10/2019
END DATE: 28/10/2023

TITLE: **Formación profesorado universitario** FPU16/01740
DIRECTOR: GARCIA ALCON, ALICIA
FUNDING BODY: MICINN/MINECO
TYPE OF PROJECT:Human resources
START DATE: 24/10/2017
END DATE: 23/10/2021

TITLE: **Formación profesorado universitario** FPU17/06467
DIRECTOR: COLOMAR MOLLA, LAURA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 26/10/2018
END DATE: 25/10/2022

TITLE: **JUAN DE LA CIERVA 2017. INCORPORACIÓN** IJCI-2017-33381
DIRECTOR: MARTINEZ RODRIGUEZ, KENIA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/10/2018
END DATE: 22/01/2019

TITLE: **Young employement contract. Ayudante investigación** PEJ-2017-AI/BMD-6274
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 02/02/2018
END DATE: 01/02/2020

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-8487
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 02/02/2019
END DATE: 01/02/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9585
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE01/01/2019

END DATE: 29/10/2019

### GROUP 3.03B: Neurologic diseases

TITLE: **H2020 EXTEND 779982. Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
FUNDING BODY: EU/PRG. MARCO
PROJECT TYPE:European Research project
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Evaluación objetiva de la marcha y de la postura mediante sensores inerciales en pacientes con enfermedad de Parkinson. Desarrollo de un índice global de locomoción y equilibrio** PI17/02007
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
FUNDING BODY: EU/PRG. MARCO
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Young employment program:Laboratory technician** PEJ16/MED/TL-0811
DIRECTOR: GUISASOLA ZULUETA, MARIA CONCEPCIÓN
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE.COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 03/02/2017
END DATE: 03/02/2019

## AREA 4: INFECTIOUS DISEASES AND AIDS

### GROUP 4.01: Infectious diseases

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: BOUZA SANTIAGO, EMILIO
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **A novel transnational strategy to control high-risk tuberculosis tranmission events.** AC16/00057
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Complementary accion
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía Cardiaca: estudio clínico, prospectivo y randomizado** PI18/01741
DIRECTOR: PEREZ GRANDA, MARIA JESUS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997

DIRECTOR: RODRIGUEZ SANCHEZ, MARIA BELEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Impacto de la implementación de un "bundle" para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045
DIRECTOR: GUEMBE RAMIREZ, MARÍA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Influencia de la gripe en los eventos cardiacos agudos y búsqueda de virus gripales cardiotrópicos. Estudio INFLUCAR** PI17/00061
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Desarrollo de un Biobanco de microbiota intestinal humana para programas de intervención precoz en el control de la Infección por Clostridium difficile (Proyecto BIOMICO**). PI16/00490
DIRECTOR: BOUZA SANTIAGO, EMILIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Diseño, puesta a punto y evaluación de una plataforma de captura de DNA de Mycobacterium tuberculosis para abordar la secuenciación de genoma completo directamente sobre muestra clínica**. PI16/01449
DIRECTOR: PEREZ GARCIA, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Caracterización Genotípica de Cándida como herramienta microbiológica para la discriminación entre cepas invasoras o colonizadoras**. PI16/01012
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Detección temprana de resistencias a antibióticos y antifungios usando espectrometría de masas (MALDI-TOF MS)**. PI15/01073
DIRECTOR: RODRIGUEZ SANCHEZ, BELEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Evaluación multicéntrica de una estrategia innovadora de vigilancia y caracterización avanzada de eventos de transmisión activa de Mycobacterium tuberculosis de especial relevancia)**. PI15/01554
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Caracterización de un brote de Clostridium difficile del ribotipo hipervirulento 027 mediante técnicas de epidemiología molecular** PI15/02046
DIRECTOR: MARÍN ARRIAZA, MARÍA DE LAS MERCEDES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Juan Rodes Contract** JR18/00030
DIRECTOR: GALAR RECALDE, ALICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/12/2018
END DATE: 31/12/2021

TITLE: **Miguel Servet Contract** CP15/00115
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Miguel Servet Contract** CP15/00075
DIRECTOR: PEREZ GARCIA, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Miguel Servet II Contract** CP14/00220
DIRECTOR: RODRÍGUEZ SÁNCHEZ, BELÉN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2015
END DATE: 31/12/2019

TITLE: **Miguel Servet II Contract** CPII18/00008
DIRECTOR: GUEMBE RAMÍREZ, MARÍA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Río Hortega Contract** CM18/00089
DIRECTOR ALVAREZ-URIA MIYARES, ANA MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Río Hortega Contract** CM17/00131
DIRECTOR: OLMEDO SAMPERIO, MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Young employement contract** PEJ2018-004609-A
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: MICINN
PROJECT TYPE: Human resources

START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract**. PEJ2018-004613-A
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract: Laboratory technician**. PEJ-2018-TL/BMD-10671
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 04/03/2019
END DATE: 03/03/2021

TITLE: **Young employement contract**: **Postdoctoral contract**. PEJD-2018-POST/BMD-8664
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract**: **Predoctoral contract**. PEJD-2017-PRE/BMD-3596
DIRECTOR: GUEMBE RAMIREZ, MARIA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2018
END DATE: 31/01/2019

TITLE: **Young employement contract: Laboratory technician**. PEJ16/MED/TL-1507
DIRECTOR: RODRIGUEZ SANCHEZ, BELEN
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

### GROUP 4.02: Clinical and epidemiological aspects of HIV and associated conditions

TITLE: **Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis**. PI17/00657
DIRECTOR: BERENGUER BERENGUER, JUAN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Juan Rodés contract**. JR17/00018
DIRECTOR: ALDAMIZ-ECHEVARRIA LOIS, Mª TERESA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Río Hortega contract oung employement contract**: **Postdoctoral contract**. CM17/00131
DIRECTOR: OLMEDO SAMPERIO, MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2020

## AREA 5: DISEASES OF THE IMMUNE SYSTEM

## GROUP 5.01: Pathophysiology and clinical investigation of chronic inflammatory and immune diseases

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Evaluación de la eficacia y toxicidad del uso de gammaglobulina intravenosa en el tratamiento de infecciones en pacientes con hipogammablobulinemia igg post-trasplante de órgano sólido** EC11-084
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
PROJECT TYPE: Clinicalresearch project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2012
END DATE: 30/03/2019

TITLE: **Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695
DIRECTOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE:31/12/2021

TITLE: **Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2020

TITLE: **Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2020

TITLE: **Microambiente inflamatorio del melanoma humano: Interacciones recíprocas tumor-estroma-tumor y significado clínico del estado de polarización de los macrófagos asociados a tumor.** PI13/02577
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2014
END DATE:31/01/2019

TITLE: **Validación de un nuevo método de obtención de plasma rico en plaquetas para su aplicación en úlceras cutáneas crónica.** PI13/01454
DIRECTOR: CIUDAD BLANCO, CRISTINA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2014
END DATE:05/02/2019

TITLE: **Perfiles inmunogeneticos en la linfohistiocitosis hemofagocitica (HLH) aplicados al diagnóstico rápido de los casos familiares (FHl) de la enfermedad**. PI12/02761
DIRECTOR: GIL HERRERA, JUANA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project

START DATE: 01/01/2013
END DATE: 30/01/2019

TITLE: **Juan Rodés Contract** JR14/00021
DIRECTOR: SARMIENTO MARCHESE, ELIZABETH ANGÉLICA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2015
END DATE: 31/01/2019

TITLE: **Young employement contract: Predoctoral**. PEJD-2018-PRE/BMD-8241A
DIRECTOR: SAMANIEGO GARCÍA, RAFAEL
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract: Technical researcher**. PEJ-2017-TL/BMD-7299
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Young employement contract.** PEJ2018-004617-A
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2019

## GROUP 5.02: Molecular biology of HIV

TITLE: **EUROPARTNER. Strengthening and spreading international partnership activities of the Faculty of Biology and Environmental Protection for interdisciplinary research and innovation of the University of Lodz**. NAWA IAP.EUROPARTNER
DIRECTOR: Maria Bryszewska
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: European research project of excellence
FUNDING BODY: COST (European Cooperation in Science and Technology).
START DATE: 01/12/2018
END DATE: 30/11/2020

TITLE: **COST action CA17140: Cancer nanomedicine - from the bench to the bedside** (NANO2CLINIC) CA17140
DIRECTOR: OTHER
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: European research project of excellence
FUNDING BODY: COST (European Cooperation in Science and Technology).
START DATE: 01/01/2018
END DATE: 30/12/2020

TITLE: **Implementación de plataformas para desarrollo de productos efectivos en dermatología (dermatitis atópica, dermatits por abarsión, psoriasis).** SNEO-20161140
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES / MOLINA, EDUARDO
PROJECT TYPE: European research project of excellence
FUNDING BODY: CDTI
START DATE: 01/01/2017
END DATE: 30/12/2019

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: Integrated research project of excellence

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Papel de la Nanomedicina en el desarrollo de una cura funcional para el VIH** PI17/01115
DIRECTOR JIMENEZ FUENTES, JOSE LUIS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Efecto de nuevas generaciones de dendrímeros con prevención dual frente al VIH/VHS-2: caracterización y prueba de concepto**. PI16/01863
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **RIO HORTEGA Contract**. CM16/00224
DIRECTOR: RUIZ SAEZ, BEATRIZ
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement contract: Research assistant**. PEJ-2017-AI/BMD-7446
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/03/2019
END DATE: 28/02/2021

TITLE: **Young employement contract:Laboratory Technician.** PEJ-2018-TL/BMD-11529
DIRECTOR: JIMENEZ FUENTES, JOSE LUIS
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2020

## GROUP 5.03: Systemic autoimmune diseases

TITLE: **Procedimiento breve de regulación emocional para la fibromialgia, a través de internet** PSI2017-85447-R
DIRECTOR: VALLEJO PAREJA, MIGUEL ÁNGEL
FUNDING BODY: MICINN
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2019

## GROUP 5.06: Immune homeostasis and regulation in diseases associated with the immune system

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Implementación de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) para prevenir el rechazo a trasplantes. Un nuevo arsenal terapeutico frente a alteraciones inmunes.** DTS18/00038
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Technology research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/01/2019

TITLE: **Ensayo clinico para evaluar la eficacia de una terapia celular cpon células Treg obtenidas de tejido tímico (thyTreg) en la preveción de rechazo en niños trasplantados de corazón**. PI18/00495
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Generación de celulas Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular**. PI18/00506
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Desarrollo de protocolos de expansión de células. Treg en condiciones GMP para su uso en inmunoterapia celular para la prevención de rechazo a trasplante en pacientes pediátricos**. PI15/00011
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/07/2019

TITLE **Ensayo de inmunoterapia celular para prevenir el rechazo a trasplante en niños mediante el aislamiento y re-infusión de células treg autólogas**. ICI14/00282
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Clinical Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiologia y fisiopatología hepática (EXOHEP-CM)**. S2017/BMD-3727-1
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/10/2018
END DATE: 31/12/2019

TITLE: **Sara Borrell contract** CD18/00105
DIRECTOR: MARTINEZ BONET, MARTA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Predoctoral contract** FI18/00109
DIRECTOR: FUENTELSAZ ROMERO, SARA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8524
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8094
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2019

### GROUP 5.07: Infections in the pediatric population

TITLE: A**ntibiotic resistance and prescribing in european children**. DGSANCO09/ARPEC
DIRECTOR: SAAVEDRA LOZANO, JESÚS
PROJECT TYPE: European Research project
FUNDING BODY: EUROPEAN COMMISSION DG.SANCO
START DATE: 01/09/2010
END DATE: 21/09/2018

TITLE: **Estudio de la coinfección por el virus de la hepatitis C en una cohorte de pacientes infectados por VIH por trasmisión vertical**. GLD14/00264
DIRECTOR: NAVARRO GÓMEZ, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: GILEAD
START DATE: 04/12/2014
END DATE: 20/09/2018

TITLE: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica**. PI17/00711
DIRECTOR: SANTIAGO GARCIA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Anticuerpos frente a las proteínas G, PreF y PostF del virus respiratorio sincitial (VRS) en lactantes y respuesta inmune sistémica. Implicaciones para el desarrollo de vacunas**. PI16/00822
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Juan Rodés contract** JR16/00036
DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Río Hortega contract** CM18/00100
DIRECTOR: AGUILERA ALONSO, DAVID
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract**: **Research**. PEJ-2017-AI/BMD-7405
DIRECTOR: SAAVEDRA LOZANO, JESÚS
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 13/12/2019

## AREA 6: TRANSLATIONAL ONCOLOGY

## GROUP 6.02: Translational medical oncology and personalized cancer therapy

TITLE: **Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo**. PI18/01775
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Cáncer de mama triple negativo: predicción de respuesta a docetaxel-carboplatino neoadyuvante mediante caracterización de TILS y firmas inmunes basadas en secuenciación masiva de RNA**. PI15/00117
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/06/2020

TITLE: **Evaluación daño cerebral (chemobrain) asociado al tratamiento del cáncer de mama**. FMAP12/01
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MAPFRE
START DATE: 01/01/2016
END DATE: 30/06/2020

TITLE: **Células circulantes tumorales (ctcs) como predictor precoz de supervivencia y respuesta al tratmieno en pacientes don cáncer de páncreas localmente avanzado o metastásico después del primer ciclo de quimioterapia**. SEOM17/01
DIRECTOR: MUÑOZ MARTÍN, ANDRES
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION SEOM
START DATE: 02/11/2017
END DATE: 01/11/2019

## GROUP 6.03: Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation

TITLE: **Biomarcadores genómicos y transcriptómicos del sistema inmune para la elaboración de modelos de riesgo de desarrollo de complicaciones post-trasplante hematopoyético**. PI17/01880
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Detección e incorporación de biomarcadores genómicos de evasión inmune tumoral en modelos predictivos de recaída post-trasplante hematopoyético**. AMHH 2017
DIRECTOR: MARTÍNEZ LAPERCHE, CAROLINA
PROJECT TYPE: Research project
FUNDING BODY: ASOCIACION ESPAÑOLA DE HEMATOLOGÍA Y HEMOTERAPIA
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Bioinformatic contract** CA18/00040
DIRECTOR: LAURA CASTRO LABRADOR
PROJECT TYPE: Human resources
FUNDING BODY: FUNDACIÓN ESPAÑOLA HEMATOLOGÍA Y HEMOTERAPIA (F:E:H:H.)
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Research Grant** FEHHDC-2018
DIRECTOR: CARBONELL MUÑOZ, DIEGO
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID

START DATE: 01/01/2019
END DATE: 31/12/2019



## AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

### GROUP 7.01: Inflammation and vascular damage in chronic kidney disease. Renal pathophysiology

TITLE: **Intervenciones sobre las balsas de colesterol epiteliales derivadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/00276
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatias pigmentosas.paludismo y rabdomiolisis** SENEFRO18/01
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SENEFRO
START DATE: 01/01/2019
END DATE: 31/12/2020

### GROUP 7.02: Pathophysiology and natural history of liver and digestive diseases

TITLE: **Development of dialive, a novel Liver Dialysis Device for the treatment of patients with Acute on Chronic Liver Failure (ACLF)**. H2020 ALIVER
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN UNION
START DATE: 01/01/2017
END DATE: 31/12/2020

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria sistemática.** PI18/01901
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Fusión celular y comunicación celular por exomas en la enfermedad y regeneración hepática.** PI18/01833
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatología de la barrera epitelial en la enfermedad inflamatoria intestinal.** PI16/02096
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Papel de la deficiencia de la vitamina D en los eventos claves de la cirrosis hepática e impacto de su suplementación.** PI16/00920
DIRECTOR: GARCIA MARTINEZ, RITA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Efectos de la hipotermia terapéutica en el fracaso hepático augdo (FHA) y en la regeneración hepática: Estudio preclínico en cerdos.** PI15/01083
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Desarrollo de terapias nutricionales para el tratamiento de colitis ulcerosa mediante el uso de formulaciones simbióticas.** RTC-2015-3584-1
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: Program RETOS. MICINN/MINECO
START DATE: 23/01/2015
END DATE: 23/01/2019

TITLE: **Impacto de la erradicación del vhc sobre el riesgo cardiovascular tras el trasplante hepático.** FISMT17/01
DIRECTOR: SALCEDO PLAZA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN GENERAL DE INVESTIGACIÓN DE LA SOCIEDAD MADRILEÑA DE TRANSPLANTE
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY:CONSEJERIA DE EDUCACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Río Hortega Contract.** CM17/00255
DIRECTOR: CLEMENTE SANCHEZ, ANA
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Río Hortega Contract.** CM19/00247
DIRECTOR: CABALLERO MARCOS, ARANZAZU
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/12/2019
END DATE: 31/11/2021

TITLE: **Incorporación Estable de Doctores. Programa I3**. IEDI-2016-00804
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement Contract :Laboratory Technician** PEJ-2018-TL/BMD-12024
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID

START DATE: 01/03/2019
END DATE: 28/02/2021

TITLE: **La microbiota en la historia natural de la enfermedad hepática y la hipertensión portal** PEJ2018-003826-A
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement Predoctoral Contract** PEJD-2018-PRE/BMD-8807
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## GROUP 7.04: Diseases of the critically ill child

TITLE: **Estudio clínico y experimental de parada cardiaca y reanimación cardiopulmonar en pediatría**. PI18/01632
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248
DIRECTOR: SANTIAGO LOZANO, MARÍA JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Efecto de la calidad de la reanimación cardiopulmonar en la supervivencia y estado neurológico de los niños que sufren una parada cardiaca**. PI16/00666
DIRECTOR: MENCÍA BARTOLOMÉ, SANTIAGO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Efecto de la ventilación y el masaje cardíaco sobre la calidad de la reanimación cardiopulmonar: estudio experimental animal y en un modelo de simulación pediátrica**. PI15/00743
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Efectos de la resucitación mediante albúmina hipertónica o gelafundina sobre los parámetros hemodinámicos, de perfusión tisular y de función renal en niños críticamente enfermos**. PI14/02046
DIRECTOR: URBANO VILLAESCUSA, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Río Hortega Contract.** CM19/00203
DIRECTOR: MANRIQUE MARTÍN, GEMA
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/12/2019
END DATE: 31/11/2021

TITLE: **Río Hortega Contract.** CM17/00210
DIRECTOR: GARCIA SAN PRUDENCIO, MYRIAM
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2021

## GROUP 7.05B Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insufficiency and respiratory disorders of sleep

TITLE: **Impacto de la administración de lidocaina intravenosa o paravertebral durante el intraoperatorio de la cirugia de resección pulmonar.** PI18/01305
DIRECTOR: GARUTTI MARTÍNEZ, IGNACIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Reducción de complicaciones post-operatorias pulmonares mediante una estrategia ventilatoria perioperatoria de apertura pulmonar.** PI18/01611
DIRECTOR: PIÑEIRO OTERO, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM)** S2017/BMD-3773
DIRECTOR: PUENTE MAESTU, LUIS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2020

## GROUP 7.16: Regenerative medicine and system development: cardiovascular and osteochondral

TITLE: **SHORT-TERM Esmolol confers cardioprotection persistent after treatment withdrawal. Future therapeutic targets in cardiac remodeling.** PI16/02069
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

**Not managed by FIBHGM**

TITLE: **Aeroevacuación en un escenario real: nueva herramienta de aprendizaje en las futuras generaciones de estudiantes de medicina.** PIMCD-245
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Innovation project
FUNDING BODY: UCM
START DATE: 09/01/2018
END DATE: 31/12/2020

TITLE: **Innovación en la docencia del grado de medicina: aerotransporte de pacientes con alto riesgo de contaminacion por enfermedad infecciosa en un escenario real.** PIMCD-333
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Innovation project
FUNDING BODY: UCM
START DATE: 01/01/2019
END DATE: 31/12/2021

## GROUP 7.20: Anesthesia, toxins, and arrhythmias

TITLE: **Evaluación de la eficacia de dos antídotos: bicarbonato sódico versus intralipid en un modelo porcino de farmacotoxicidad cardiaca por ropivacaína. Análisis del impacto en los parámetros hemodinámicos, electroctrocardiográficos, electrofisiológicos y de las arritmias**. PI15/00695
DIRECTOR: ZABALLOS GARCÍA, MATILDE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

## GROUP 7.21 Biopathology of aging

TITLE: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

## GROUP 7.22 Pathophysiology of the neonate and developing child

TITLE: **Ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** PI17/00838
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

## GROUP 7.25: Artificial circulation laboratory

TITLE: **Efectos del tipo de flujo sanguineo (continuo o pulsatil) sobre la microcirculación en un modelo animal de asistencia ventricular**. PI17/01319
DIRECTOR: RUIZ FERNÁNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Perfusión normotérmica de hígado para recuperación de hígados marginales. Isquemia ccaliente, esteatosis y discrepancia de tamaño**. PI15/01987
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/09/2019

TITLE: **Nuevas Tecnologías de Fabricación y Optimización de Tejidos : La Piel como sistema Modelo**PEJ2018-004026-A
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: PROGRAMA DE ACTIVIDADES DE I+D EN BIOMEDICINA
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 06/03/2019
END DATE: 06/03/2023

TITLE: **Mejora de las prestaciones del area quirurgica del servicio de medicina y cirugia experimental para el apoyo a los investigadores del Instituto de Investigacion Sanitaria del Hospital Gregorio Marañón** S2018/BAA-4480
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2020

## GROUP 7.27: Hospital pharmacy and pharmacogenomics

TITLE: **Factores farmacogenómicos y monitorización terapeútica como predictores de respuesta a anti-TNFs en enfermedad inflamatoria intestinal en niños**. PI16/00559
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement contract: Predoctoral.** PEJD-2018-PRE/BMD-8665
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## GROUP 7.29: Pharmacology and vascular pathophysiology

- **Not managed by the FIBHGM**

TITLE: **Vitamina D en la hipertension pulmonar**. SAF2016-77222-R
DIRECTOR: PÉREZ VIZCAINO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: Plan Nacional de I+D (CICYT)
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Therapeutic potential of exosomes derived from mesenchymal stem cells and late endothelial progenitor cells in bronchopulmonary dysplasia and pulmonary hypertension**. PI15/01100
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Déficit de vitamina D en los pacientes con hipertensión pulmonar arterial y potencial valor terapéutico de la vitamina D como inhibidor de la proliferación de las células de músculo liso vascular arterial pulmonar.** Beca Actelion
PROJECT TYPE: Research project
FUNDING BODY: Fundación de Pacientes contra la Hipertensión
START DATE: 01/06/2017
END DATE: 31/05/2019

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepáticas.** EXOHEP-CM S2017/BMD-3727
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2019

## GROUP 7.31 Pathophysiology in women, pregnancy, labor, and puerperium

TITLE: **Papel de la progesterona como inmunoactivador en la lucha contra las candidiasis vaginales y sistémicas: posible efecto antitumoral y sobre la implantación embrionaria**. PI16/00050
DIRECTOR: RELLOSO CERECEDA, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Relación del fallo de implantacion embrionaria con la dosis de progesterona sérica** PEJ2018-003326-A
DIRECTOR: PÉREZ MILÁN, FEDERICO
PROJECT TYPE: Research project
FUNDING BODY: MICINN

START DATE: 01/01/2019
END DATE: 31/12/2020



TITLE: **Young employement contract: Predoctoral** PEJD-2018-PRE/BMD-9513
DIRECTOR: PÉREZ MILÁN, FEDERICO
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## NURSING CARE GROUP

TITLE: **Efectividad de una intervención precoz en el diagnóstico y tratamiento de la hiponatremia para la prevención de caidas en pacientes hospitalizados**. FMM14/09
DIRECTOR: CARMEN LOBO RODRIGUEZ
PROJECT TYPE: Research project
FUNDING BODY: MUTUA MADRILEÑA FOUNDATION
START DATE: 26/09/2014
END DATE: 24/07/2019

# SCIENTIFIC PUBLICATIONS



The list presented below shows all the referenced publications in which investigators from the IiSGM participated in during 2019.
Publications with an impact factor greater than **10 points are** highlighted.

In order to obtain the total impact factor, only information from publications indexed as original articles, reviews, editorials, and proceedings papers have been taken into account. Other types of publication (eg, letters to the editor and case studies) have not been included.

It is important to note that publications involving different groups or areas of the Institute are computed individually in each group and area, although only once for purposes of the calculation of the Institute's total impact factor.

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| ACTA DERMATO-VENEREOLOGICA | 4,016 | 1 | 4,016 | Q1 |
| ACTA OPHTHALMOLOGICA | 3,362 | 1 | 3,362 | Q1 |
| ACTAS ESPANOLAS DE PSIQUIATRIA | 1,681 | 1 | 1,681 | Q3 |
| ACTAS UROLOGICAS ESPANOLAS | 0,873 | 12 | 10,476 | Q4 |
| ADICCIONES | 3,167 | 1 | 3,167 | Q1 |
| ADVANCES IN DATA ANALYSIS AND CLASSIFICATION | 1,603 | 1 | 1,603 | Q2 |
| ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY | 2,45 | 1 | 2,45 | Q2 |
| ADVANCES IN THERAPY | 3,871 | 1 | 3,871 | Q1 |
| AGING CELL | 7,238 | 1 | 7,238 | Q1 |
| AGING CLINICAL AND EXPERIMENTAL RESEARCH | 2,697 | 1 | 2,697 | Q3 |
| AGING AND DISEASE | 5,402 | 1 | 5,402 | Q1 |
| AIDS | 4,511 | 6 | 27,066 | Q1 |
| ALLERGY | 8,706 | 1 | 8,706 | Q1 |
| AMERICAN JOURNAL OF CARDIOLOGY | 2,57 | 2 | 5,14 | Q2 |
| AMERICAN JOURNAL OF EMERGENCY MEDICINE | 1,911 | 1 | 1,911 | Q2 |
| AMERICAN JOURNAL OF PERINATOLOGY | 1,474 | 1 | 1,474 | Q3 |
| AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY | 3,144 | 1 | 3,144 | Q2 |
| AMERICAN JOURNAL OF TRANSPLANTATION | 7,338 | 3 | 22,014 | Q1 |
| AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE | 2,126 | 1 | 2,126 | Q2 |
| ANALES DE PEDIATRIA | 1,313 | 20 | 26,26 | Q3 |
| ANAESTHESIA | 5,739 | 1 | 5,739 | Q1 |
| ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY | 1,634 | 4 | 6,536 | Q3 |
| ANESTHESIA AND ANALGESIA | 4,305 | 2 | 8,61 | Q1 |
| ANESTHESIOLOGY | 7,067 | 1 | 7,067 | Q1 |
| ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY | 4,969 | 1 | 4,969 | Q1 |
| ANNALS OF BIOMEDICAL ENGINEERING | 3,324 | 1 | 3,324 | Q2 |
| ANNALS OF CLINICAL MICROBIOLOGY AND ANTIMICROBIALS | 2,705 | 1 | 2,705 | Q3 |
| ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY | 3,66 | 1 | 3,66 | Q2 |
| ANNALS OF EMERGENCY MEDICINE | 5,799 | 2 | 11,598 | Q1 |
| ANNALS OF NONINVASIVE ELECTROCARDIOLOGY | 1,131 | 1 | 1,131 | Q4 |
| ANNALS OF ONCOLOGY | 18,274 | 5 | 91,37 | Q1 |
| ANNALS OF THE RHEUMATIC DISEASES | 16,102 | 2 | 32,204 | Q1 |
| ANNALS OF SURGERY | 10,13 | 2 | 20,26 | Q1 |
| ANNALS OF THORACIC SURGERY | 3,639 | 2 | 7,278 | Q1 |
| ANNALS OF TRANSLATIONAL MEDICINE | 3,297 | 2 | 6,594 | Q2 |
| ANNUAL REVIEW OF GENOMICS AND HUMAN GENETICS | 7,243 | 1 | 7,243 | Q1 |
| ANTIMICROBIAL AGENTS AND CHEMOTHERAPY | 4,904 | 5 | 24,52 | Q1 |
| ANTIMICROBIAL RESISTANCE AND INFECTION CONTROL | 3,594 | 1 | 3,594 | Q1 |
| ANTIOXIDANTS | 5,014 | 1 | 5,014 | Q1 |
| ANTIVIRAL RESEARCH | 4,101 | 3 | 12,303 | Q1 |
| APPLIED CLINICAL INFORMATICS | 2,147 | 1 | 2,147 | Q3 |
| ARCHIVOS DE BRONCONEUMOLOGIA | 4,957 | 14 | 69,398 | Q1 |
| ARCHIVES OF DISEASE IN CHILDHOOD | 3,041 | 1 | 3,041 | Q1 |
| ARCHIVES OF ENDOCRINOLOGY METABOLISM | 1,802 | 1 | 1,802 | Q4 |
| ARCHIVOS ESPANOLES DE UROLOGIA | 0,395 | 3 | 1,185 | Q4 |
| ARCHIVES OF GERONTOLOGY AND GERIATRICS | 2,128 | 1 | 2,128 | Q3 |
| ARCHIVES OF WOMENS MENTAL HEALTH | 2,5 | 1 | 2,5 | Q3 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| ARTHRITIS RESEARCH & THERAPY | 4,103 | 1 | 4,103 | Q1 |
| ARTHRITIS & RHEUMATOLOGY | 9,586 | 2 | 19,172 | Q1 |
| ATENCION PRIMARIA | 1,087 | 2 | 2,174 | Q3 |
| AUSTRALIAN CRITICAL CARE | 2,214 | 2 | 4,428 | Q1 |
| AUSTRALIAN OCCUPATIONAL THERAPY JOURNAL | 1,055 | 1 | 1,055 | Q4 |
| AUSTRALASIAN JOURNAL OF DERMATOLOGY | 1,789 | 2 | 3,578 | Q3 |
| AUTOIMMUNITY REVIEWS | 7,767 | 1 | 7,767 | Q1 |
| BOLETIN DE MALARIOLOGIA Y SALUD AMBIENTAL | 0,433 | 1 | 0,433 | Q4 |
| BEST PRACTICE & RESEARCH IN CLINICAL RHEUMATOLOGY | 2,727 | 1 | 2,727 | Q3 |
| BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS | 2,985 | 1 | 2,985 | Q2 |
| BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION | 3,853 | 2 | 7,706 | Q2 |
| BIOLOGICAL PSYCHIATRY | 12,095 | 1 | 12,095 | Q1 |
| BIOMEDICAL OPTICS EXPRESS | 3,921 | 1 | 3,921 | Q1 |
| BIOMED RESEARCH INTERNATIONAL | 2,276 | 1 | 2,276 | Q3 |
| BIOMOLECULES | 4,082 | 2 | 8,164 | Q2 |
| BLOOD | 17,543 | 1 | 17,543 | Q1 |
| BLOOD CANCER JOURNAL | 8,023 | 1 | 8,023 | Q1 |
| BMC CANCER | 3,15 | 4 | 12,6 | Q3 |
| BMC GASTROENTEROLOGY | 2,489 | 1 | 2,489 | Q3 |
| BMC GENOMICS | 3,594 | 1 | 3,594 | Q2 |
| BMC INFECTIOUS DISEASES | 2,688 | 2 | 5,376 | Q3 |
| BMC NEPHROLOGY | 1,913 | 2 | 3,826 | Q3 |
| BMC PEDIATRICS | 1,909 | 1 | 1,909 | Q2 |
| BMC PSYCHIATRY | 2,704 | 1 | 2,704 | Q2 |
| BMC PUBLIC HEALTH | 2,521 | 1 | 2,521 | Q2 |
| BMJ-BRITISH MEDICAL JOURNAL | 30,223 | 1 | 30,223 | Q1 |
| BONE MARROW TRANSPLANTATION | 4,725 | 1 | 4,725 | Q1 |
| BRAIN IMAGING AND BEHAVIOR | 3,391 | 1 | 3,391 | Q2 |
| BRAIN SCIENCES | 3,332 | 1 | 3,332 | Q2 |
| BRAIN STIMULATION | 6,565 | 1 | 6,565 | Q1 |
| BREAST CANCER RESEARCH | 4,988 | 1 | 4,988 | Q2 |
| BREAST CANCER RESEARCH AND TREATMENT | 3,831 | 3 | 11,493 | Q2 |
| BREAST JOURNAL | 1,991 | 1 | 1,991 | Q3 |
| BRITISH JOURNAL OF CANCER | 5,791 | 1 | 5,791 | Q1 |
| BRITISH JOURNAL OF HAEMATOLOGY | 5,518 | 1 | 5,518 | Q1 |
| BRITISH JOURNAL OF PHARMACOLOGY | 7,73 | 1 | 7,73 | Q1 |
| CANADIAN MEDICAL ASSOCIATION JOURNAL | 7,744 | 1 | 7,744 | Q1 |
| CANCER CHEMOTHERAPY AND PHARMACOLOGY | 2,967 | 1 | 2,967 | Q2 |
| CANCER MEDICINE | 3,491 | 2 | 6,982 | Q2 |
| CANCER | 5,742 | 2 | 11,484 | Q1 |
| CANCERS | 6,126 | 2 | 12,252 | Q1 |
| CARBOHYDRATE RESEARCH | 1,841 | 1 | 1,841 | Q2 |
| CARDIOLOGY JOURNAL | 1,669 | 1 | 1,669 | Q3 |
| CARDIOLOGY IN THE YOUNG | 1 | 1 | 1 | Q4 |
| CARDIOLOGY | 1,791 | 7 | 12,537 | Q3 |
| CARDIOVASCULAR DIABETOLOGY | 7,332 | 3 | 21,996 | Q1 |
| CARDIOVASCULAR JOURNAL OF AFRICA | 0,897 | 1 | 0,897 | Q4 |
| CARDIOVASCULAR RESEARCH | 8,168 | 1 | 8,168 | Q1 |
| CARDIOVASCULAR TOXICOLOGY | 2,284 | 1 | 2,284 | Q3 |
| CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS | 2,044 | 1 | 2,044 | Q3 |
| CELL | 38,637 | 1 | 38,637 | Q1 |
| CELL REPORTS | 8,109 | 1 | 8,109 | Q1 |
| CEREBROVASCULAR DISEASES | 2,698 | 1 | 2,698 | Q2 |
| CHEMOTHERAPY | 1,641 | 1 | 1,641 | Q4 |
| CIRUGIA ESPANOLA | 1,323 | 9 | 11,907 | Q3 |
| CIRCULATION RESEARCH | 14,467 | 1 | 14,467 | Q1 |
| CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY | 4,393 | 1 | 4,393 | Q1 |
| CIRCULATION-CARDIOVASCULAR INTERVENTIONS | 5,493 | 2 | 10,986 | Q1 |
| CIRCULATION | 23,603 | 2 | 47,206 | Q1 |
| CLEFT PALATE-CRANIOFACIAL JOURNAL | 1,347 | 1 | 1,347 | Q3 |
| CLINICAL ANATOMY | 1,967 | 1 | 1,967 | Q2 |
| CLINICAL CANCER RESEARCH | 10,107 | 3 | 30,321 | Q1 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| CLINICAL CARDIOLOGY | 2,248 | 1 | 2,248 | Q3 |
| CLINICAL CHEMISTRY AND LABORATORY MEDICINE | 3,595 | 1 | 3,595 | Q1 |
| CLINICA CHIMICA ACTA | 2,615 | 1 | 2,615 | Q2 |
| CLINICAL COLORECTAL CANCER | 3,245 | 1 | 3,245 | Q3 |
| CLINICAL DRUG INVESTIGATION | 2,267 | 1 | 2,267 | Q3 |
| CLINICAL AND EXPERIMENTAL DERMATOLOGY | 1,977 | 1 | 1,977 | Q3 |
| CLINICAL AND EXPERIMENTAL RHEUMATOLOGY | 3,319 | 3 | 9,957 | Q2 |
| CLINICAL INFECTIOUS DISEASES | 8,313 | 2 | 16,626 | Q1 |
| CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY | 6,628 | 1 | 6,628 | Q1 |
| CLINICAL JOURNAL OF PAIN | 2,893 | 2 | 5,786 | Q2 |
| CLINICAL KIDNEY JOURNAL | 3,388 | 4 | 13,552 | Q1 |
| CLINICAL MICROBIOLOGY AND INFECTION | 7,117 | 2 | 14,234 | Q1 |
| CLINICAL MICROBIOLOGY REVIEWS | 22,556 | 1 | 22,556 | Q1 |
| CLINICAL NUTRITION | 6,36 | 4 | 25,44 | Q1 |
| CLINICAL PEDIATRICS | 1,026 | 1 | 1,026 | Q4 |
| CLINICAL RESEARCH IN CARDIOLOGY | 5,268 | 1 | 5,268 | Q1 |
| CLINICAL RHEUMATOLOGY | 2,394 | 2 | 4,788 | Q3 |
| CLINICAL & TRANSLATIONAL ONCOLOGY | 2,737 | 12 | 32,844 | Q3 |
| CLINICAL TRANSPLANTATION | 1,665 | 3 | 4,995 | Q3 |
| COLLOIDS AND SURFACES B-BIOINTERFACES | 4,389 | 2 | 8,778 | Q1 |
| COMPREHENSIVE PHYSIOLOGY | 6,604 | 1 | 6,604 | Q1 |
| COMPUTERS IN BIOLOGY AND MEDICINE | 3,434 | 1 | 3,434 | Q1 |
| COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE | 3,632 | 1 | 3,632 | Q1 |
| CONTACT DERMATITIS | 3,952 | 1 | 3,952 | Q1 |
| CORTEX | 4,009 | 1 | 4,009 | Q1 |
| CURRENT MEDICINAL CHEMISTRY | 4,184 | 1 | 4,184 | Q1 |
| CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS | 4,376 | 1 | 4,376 | Q1 |
| CURRENT OPINION IN ALLERGY AND CLINICAL IMMUNOLOGY | 3,246 | 1 | 3,246 | Q3 |
| CURRENT OPINION IN INFECTIOUS DISEASES | 4,577 | 1 | 4,577 | Q1 |
| CURRENT OPINION IN RHEUMATOLOGY | 4,006 | 1 | 4,006 | Q2 |
| CURRENT UROLOGY REPORTS | 2,307 | 1 | 2,307 | Q2 |
| CYTOTHERAPY | 4,218 | 1 | 4,218 | Q1 |
| DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY | 3,192 | 1 | 3,192 | Q1 |
| DIABETES & METABOLISM | 4,731 | 1 | 4,731 | Q1 |
| DIABETES RESEARCH AND CLINICAL PRACTICE | 4,234 | 1 | 4,234 | Q1 |
| DIGESTIVE AND LIVER DISEASE | 3,57 | 2 | 7,14 | Q2 |
| DRUGS IN R&D | 2,277 | 1 | 2,277 | Q3 |
| EJSO | 3,959 | 1 | 3,959 | Q1 |
| ELECTRONICS | 2,412 | 1 | 2,412 | Q2 |
| EMERGING INFECTIOUS DISEASES | 6,259 | 2 | 12,518 | Q1 |
| EMERGENCY MEDICINE JOURNAL | 2,491 | 1 | 2,491 | Q1 |
| EMERGENCIAS | 3,173 | 6 | 19,038 | Q1 |
| ENDOCRINE CONNECTIONS | 2,592 | 1 | 2,592 | Q3 |
| ENDOCRINE | 3,235 | 2 | 6,47 | Q3 |
| ENDOCRINOLOGIA DIABETES Y NUTRICION | 1,18 | 6 | 7,08 | Q4 |
| ENDOSCOPY | 7,341 | 1 | 7,341 | Q1 |
| ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA | 1,654 | 11 | 18,194 | Q4 |
| EPIGENOMICS | 4,112 | 1 | 4,112 | Q2 |
| EPILEPSY & BEHAVIOR | 2,508 | 1 | 2,508 | Q2 |
| ESC HEART FAILURE | 3,902 | 1 | 3,902 | Q2 |
| EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE | 3,288 | 1 | 3,288 | Q2 |
| EUROPEAN CHILD & ADOLESCENT PSYCHIATRY | 3,941 | 3 | 11,823 | Q1 |
| EUROPEAN GERIATRIC MEDICINE | 1,232 | 1 | 1,232 | Q4 |
| EUROPEAN HEART JOURNAL | 22,673 | 4 | 90,692 | Q1 |
| EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE | 3,813 | 4 | 15,252 | Q2 |
| EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY | 6,696 | 1 | 6,696 | Q1 |
| EUROPEAN JOURNAL OF AGEING | 2,413 | 1 | 2,413 | Q2 |
| EUROPEAN JOURNAL OF CANCER | 7,275 | 5 | 36,375 | Q1 |
| EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES | 2,837 | 4 | 11,348 | Q2 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| EUROPEAN JOURNAL OF DERMATOLOGY | 2,782 | 8 | 22,256 | Q2 |
| EUROPEAN JOURNAL OF EMERGENCY MEDICINE | 2,17 | 1 | 2,17 | Q2 |
| EUROPEAN JOURNAL OF HAEMATOLOGY | 2,22 | 1 | 2,22 | Q3 |
| EUROPEAN JOURNAL OF HEALTH ECONOMICS | 2,367 | 1 | 2,367 | Q1 |
| EUROPEAN JOURNAL OF HEART FAILURE | 11,627 | 3 | 34,881 | Q1 |
| EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE | 0,892 | 2 | 1,784 | Q4 |
| EUROPEAN JOURNAL OF INTERNAL MEDICINE | 4,329 | 9 | 38,961 | Q1 |
| EUROPEAN JOURNAL OF NEUROLOGY | 4,516 | 5 | 22,58 | Q1 |
| EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING | 7,081 | 1 | 7,081 | Q1 |
| EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY | 2,51 | 1 | 2,51 | Q2 |
| EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY | 5,864 | 2 | 11,728 | Q1 |
| EUROPEAN JOURNAL OF PUBLIC HEALTH | 2,391 | 1 | 2,391 | Q2 |
| EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY | 2,139 | 1 | 2,139 | Q2 |
| EUROPEAN NEUROPSYCHOPHARMACOLOGY | 3,853 | 3 | 11,559 | Q1 |
| EUROPEAN POLYMER JOURNAL | 3,862 | 1 | 3,862 | Q1 |
| EUROPEAN PSYCHIATRY | 4,464 | 1 | 4,464 | Q1 |
| EUROPEAN UROLOGY | 17,947 | 1 | 17,947 | Q1 |
| EUROPACE | 4,045 | 2 | 8,09 | Q2 |
| EUROSURVEILLANCE | 6,454 | 3 | 19,362 | Q1 |
| EXPERT OPINION ON BIOLOGICAL THERAPY | 3,224 | 1 | 3,224 | Q2 |
| EXPERT OPINION ON DRUG SAFETY | 3,383 | 1 | 3,383 | Q2 |
| EXPERT OPINION ON INVESTIGATIONAL DRUGS | 5,081 | 1 | 5,081 | Q1 |
| EXPERT OPINION ON ORPHAN DRUGS | 0,805 | 1 | 0,805 | Q4 |
| EXPERT OPINION ON PHARMACOTHERAPY | 2,878 | 1 | 2,878 | Q2 |
| EXPERT REVIEW OF GASTROENTEROLOGY & HEPATOLOGY | 3,514 | 1 | 3,514 | Q2 |
| EXPERT REVIEW OF MEDICAL DEVICES | 2,2 | 1 | 2,2 | Q3 |
| FASEB JOURNAL | 4,966 | 1 | 4,966 | Q1 |
| FOOT & ANKLE INTERNATIONAL | 2,292 | 1 | 2,292 | Q2 |
| FREE RADICAL BIOLOGY AND MEDICINE | 6,17 | 1 | 6,17 | Q1 |
| FRONTIERS IN IMMUNOLOGY | 5,085 | 4 | 20,34 | Q1 |
| FRONTIERS IN MICROBIOLOGY | 4,235 | 1 | 4,235 | Q2 |
| FRONTIERS IN NEUROANATOMY | 3,292 | 1 | 3,292 | Q1 |
| FRONTIERS IN NEUROLOGY | 2,889 | 1 | 2,889 | Q2 |
| FRONTIERS IN ONCOLOGY | 4,848 | 1 | 4,848 | Q2 |
| FRONTIERS IN PEDIATRICS | 2,634 | 1 | 2,634 | Q1 |
| FRONTIERS IN PHYSIOLOGY | 3,367 | 1 | 3,367 | Q1 |
| FRONTIERS IN PSYCHIATRY | 2,849 | 3 | 8,547 | Q2 |
| FUNGAL GENETICS AND BIOLOGY | 3,071 | 1 | 3,071 | Q2 |
| FUTURE GENERATION COMPUTER SYSTEMS -THE INTERNATIONAL JOURNAL OF ESCIENCE | 6,125 | 1 | 6,125 | Q1 |
| FUTURE MEDICINAL CHEMISTRY | 3,607 | 1 | 3,607 | Q2 |
| FUTURE ONCOLOGY | 2,66 | 1 | 2,66 | Q3 |
| GASTROENTEROLOGIA Y HEPATOLOGIA | 1,581 | 6 | 9,486 | Q4 |
| GASTROENTEROLOGY | 17,373 | 3 | 52,119 | Q1 |
| GASTROINTESTINAL ENDOSCOPY | 6,89 | 1 | 6,89 | Q1 |
| GENERAL THORACIC AND CARDIOVASCULAR SURGERY | 1,088 | 1 | 1,088 | Q4 |
| GUT | 19,819 | 1 | 19,819 | Q1 |
| HAEMATOLOGICA | 7,116 | 3 | 21,348 | Q1 |
| HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK | 2,538 | 1 | 2,538 | Q1 |
| HEALTH AND QUALITY OF LIFE OUTCOMES | 2,344 | 1 | 2,344 | Q2 |
| HEALTH RESEARCH POLICY AND SYSTEMS | 2,365 | 1 | 2,365 | Q2 |
| HEART | 5,213 | 5 | 26,065 | Q1 |
| HEART FAILURE CLINICS | 2,327 | 1 | 2,327 | Q3 |
| HEMATOLOGICAL ONCOLOGY | 2,832 | 1 | 2,832 | Q2 |
| HEMATOLOGY-ONCOLOGY CLINICS OF NORTH AMERICA | 3,107 | 1 | 3,107 | Q2 |
| HEMODIALYSIS INTERNATIONAL | 1,839 | 1 | 1,839 | Q3 |
| HEPATOLOGY | 14,679 | 3 | 44,037 | Q1 |
| HUMAN BRAIN MAPPING | 4,421 | 3 | 13,263 | Q1 |
| HUMAN MUTATION | 4,124 | 1 | 4,124 | Q1 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| HYPERTENSION RESEARCH | 2,941 | 1 | 2,941 | Q2 |
| HYPERTENSION | 7,713 | 1 | 7,713 | Q1 |
| IEEE ACCESS | 3,745 | 1 | 3,745 | Q1 |
| IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS | 5,223 | 3 | 15,669 | Q1 |
| IEEE SIGNAL PROCESSING LETTERS | 3,105 | 1 | 3,105 | Q2 |
| IEEE TRANSACTIONS ON INFORMATION THEORY | 3,036 | 3 | 9,108 | Q2 |
| IEEE TRANSACTIONS ON MEDICAL IMAGING | 6,685 | 1 | 6,685 | Q1 |
| IEEE TRANSACTIONS ON SIGNAL PROCESSING | 5,028 | 1 | 5,028 | Q1 |
| IMMUNOLOGY AND ALLERGY CLINICS OF NORTH AMERICA | 3 | 1 | 3 | Q3 |
| INDIAN JOURNAL OF DERMATOLOGY | 1,523 | 1 | 1,523 | Q3 |
| INDIAN JOURNAL OF PEDIATRICS | 1,508 | 1 | 1,508 | Q3 |
| INFECTIOUS DISEASES | 2,494 | 1 | 2,494 | Q3 |
| INFECTION GENETICS AND EVOLUTION | 2,773 | 2 | 5,546 | Q3 |
| INFECTION | 3,04 | 1 | 3,04 | Q2 |
| INFLAMMATORY BOWEL DISEASES | 4,261 | 1 | 4,261 | Q2 |
| INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED | 2,106 | 1 | 2,106 | Q2 |
| INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY | 2,917 | 2 | 5,834 | Q3 |
| INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS | 4,621 | 2 | 9,242 | Q1 |
| INTERNATIONAL JOURNAL OF CANCER | 5,145 | 1 | 5,145 | Q1 |
| INTERNATIONAL JOURNAL OF CARDIOLOGY | 3,229 | 7 | 22,603 | Q2 |
| INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE | 2,772 | 2 | 5,544 | Q2 |
| INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE | 0,166 | 1 | 0,166 | Q4 |
| INTERNATIONAL JOURNAL OF CLINICAL PHARMACY | 1,616 | 1 | 1,616 | Q4 |
| INTERNATIONAL JOURNAL OF CLINICAL PRACTICE | 2,444 | 1 | 2,444 | Q2 |
| INTERNATIONAL JOURNAL OF DERMATOLOGY | 2,067 | 1 | 2,067 | Q3 |
| INTERNATIONAL JOURNAL OF DRUG POLICY | 4,444 | 1 | 4,444 | Q1 |
| INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH | 2,849 | 2 | 5,698 | Q1 |
| INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES | 4,556 | 3 | 13,668 | Q1 |
| INTERNATIONAL JOURNAL OF NANOMEDICINE | 5,115 | 1 | 5,115 | Q1 |
| INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY | 1,675 | 2 | 3,35 | Q3 |
| INTERNAL MEDICINE JOURNAL | 1,677 | 1 | 1,677 | Q3 |
| INVESTIGATIONAL NEW DRUGS | 3,525 | 1 | 3,525 | Q2 |
| JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE | 7,574 | 5 | 37,87 | Q1 |
| JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY | 8,277 | 1 | 8,277 | Q1 |
| JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY | 20,589 | 3 | 61,767 | Q1 |
| JOURNAL OF THE AMERICAN GERIATRICS SOCIETY | 4,18 | 1 | 4,18 | Q1 |
| JOURNAL OF THE AMERICAN HEART ASSOCIATION | 4,605 | 4 | 18,42 | Q1 |
| JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY | 5,439 | 7 | 38,073 | Q1 |
| JOURNAL OF BIOMEDICAL SCIENCE | 5,762 | 1 | 5,762 | Q1 |
| JOURNAL OF CARDIAC SURGERY | 1,49 | 2 | 2,98 | Q3 |
| JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA | 2,258 | 1 | 2,258 | Q3 |
| JOURNAL OF CARDIOVASCULAR PHARMACOLOGY | 2,598 | 1 | 2,598 | Q2 |
| JOURNAL OF CARDIOVASCULAR SURGERY | 1,415 | 1 | 1,415 | Q3 |
| JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH | 3,312 | 1 | 3,312 | Q2 |
| JOURNAL OF CELLULAR PHYSIOLOGY | 5,546 | 2 | 11,092 | Q1 |
| JOURNAL OF CHEMOTHERAPY | 1,661 | 1 | 1,661 | Q4 |
| JOURNAL OF CLINICAL APHERESIS | 1,629 | 2 | 3,258 | Q4 |
| JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM | 5,399 | 1 | 5,399 | Q1 |
| JOURNAL OF CLINICAL MEDICINE | 3,303 | 11 | 36,333 | Q1 |
| JOURNAL OF CLINICAL MONITORING AND COMPUTING | 2,108 | 1 | 2,108 | Q3 |
| JOURNAL OF CLINICAL NEUROSCIENCE | 1,76 | 1 | 1,76 | Q3 |
| JOURNAL OF CLINICAL ONCOLOGY | 32,956 | 3 | 98,868 | Q1 |
| JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS | 1,833 | 1 | 1,833 | Q4 |
| JOURNAL OF CLINICAL SLEEP MEDICINE | 3,586 | 1 | 3,586 | Q2 |
| JOURNAL OF CRANIOFACIAL SURGERY | 0,953 | 1 | 0,953 | Q4 |
| JOURNAL OF CRITICAL CARE | 2,685 | 1 | 2,685 | Q3 |
| JOURNAL OF CROHNS & COLITIS | 8,658 | 1 | 8,658 | Q1 |
| JOURNAL OF DERMATOLOGY | 3,072 | 1 | 3,072 | Q2 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| JOURNAL OF DERMATOLOGICAL TREATMENT | 2,156 | 2 | 4,312 | Q2 |
| JOURNAL OF ELECTROCARDIOLOGY | 0,944 | 1 | 0,944 | Q4 |
| JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY | 5,248 | 1 | 5,248 | Q1 |
| JOURNAL OF EVALUATION IN CLINICAL PRACTICE | 1,681 | 1 | 1,681 | Q3 |
| JOURNAL OF FOOT & ANKLE SURGERY | 1,043 | 1 | 1,043 | Q4 |
| JOURNAL OF GASTROINTESTINAL SURGERY | 2,573 | 1 | 2,573 | Q2 |
| JOURNAL OF GERIATRIC CARDIOLOGY | 2,491 | 3 | 7,473 | Q2 |
| JOURNAL OF GERIATRIC ONCOLOGY | 2,761 | 1 | 2,761 | Q3 |
| JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE | 2,706 | 1 | 2,706 | Q2 |
| JOURNAL OF HEPATOLOGY | 20,582 | 6 | 123,492 | Q1 |
| JOURNAL OF THE HISTORY OF THE NEUROSCIENCES | 0,347 | 1 | 0,347 | Q4 |
| JOURNAL OF HOSPITAL INFECTION | 3,271 | 2 | 6,542 | Q1 |
| JOURNAL FOR IMMUNOTHERAPY OF CANCER | 9,913 | 1 | 9,913 | Q1 |
| JOURNAL OF INHERITED METABOLIC DISEASE | 4,036 | 1 | 4,036 | Q2 |
| JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY | 1,277 | 1 | 1,277 | Q4 |
| JOURNAL OF INVASIVE CARDIOLOGY | 1,453 | 1 | 1,453 | Q4 |
| JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY | 3,488 | 11 | 38,368 | Q2 |
| JOURNAL OF KNEE SURGERY | 1,986 | 1 | 1,986 | Q2 |
| JOURNAL OF MEDICAL GENETICS | 4,943 | 1 | 4,943 | Q1 |
| JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION | 3,493 | 1 | 3,493 | Q2 |
| JOURNAL OF NANOBIOTECHNOLOGY | 6,518 | 2 | 13,036 | Q1 |
| JOURNAL OF NEPHROLOGY | 3,484 | 1 | 3,484 | Q1 |
| JOURNAL OF NEUROGASTROENTEROLOGY AND MOTILITY | 3,008 | 1 | 3,008 | Q2 |
| JOURNAL OF THE NEUROLOGICAL SCIENCES | 3,115 | 1 | 3,115 | Q2 |
| JOURNAL OF NURSING MANAGEMENT | 2,243 | 1 | 2,243 | Q1 |
| JOURNAL OF OBSTETRICS AND GYNAECOLOGY | 0,807 | 1 | 0,807 | Q4 |
| JOURNAL OF ONCOLOGY PHARMACY PRACTICE | 1,85 | 3 | 5,55 | Q4 |
| JOURNAL OF OPHTHALMOLOGY | 1,447 | 1 | 1,447 | Q3 |
| JOURNAL OF PAEDIATRICS AND CHILD HEALTH | 1,71 | 1 | 1,71 | Q3 |
| JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING | 2,296 | 1 | 2,296 | Q2 |
| JOURNAL OF PARKINSONS DISEASE | 5,178 | 1 | 5,178 | Q1 |
| JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY | 2,212 | 1 | 2,212 | Q2 |
| JORNAL DE PEDIATRIA | 2,029 | 1 | 2,029 | Q2 |
| JOURNAL OF PEDIATRIC SURGERY | 1,919 | 2 | 3,838 | Q2 |
| JOURNAL OF PEDIATRICS | 3,7 | 1 | 3,7 | Q1 |
| JOURNAL OF PERINATAL MEDICINE | 1,614 | 1 | 1,614 | Q3 |
| JOURNAL OF PERINATOLOGY | 1,967 | 1 | 1,967 | Q2 |
| JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY | 2,952 | 1 | 2,952 | Q2 |
| JOURNAL OF PHYSIOLOGY-LONDON | 4,547 | 3 | 13,641 | Q1 |
| JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY | 2,39 | 1 | 2,39 | Q2 |
| JOURNAL OF PSYCHIATRIC RESEARCH | 3,745 | 1 | 3,745 | Q1 |
| JOURNAL OF PSYCHOPHARMACOLOGY | 3,121 | 1 | 3,121 | Q2 |
| JOURNAL OF REPRODUCTIVE IMMUNOLOGY | 4,018 | 1 | 4,018 | Q1 |
| JOURNAL OF RHEUMATOLOGY | 3,35 | 3 | 10,05 | Q2 |
| JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY | 3,813 | 1 | 3,813 | Q2 |
| JOURNAL OF STOMATOLOGY ORAL AND MAXILLOFACIAL SURGERY | 1,152 | 1 | 1,152 | Q4 |
| JOURNAL OF SURGICAL RESEARCH | 1,841 | 1 | 1,841 | Q3 |
| JOURNAL OF SYSTEMS AND SOFTWARE | 2,45 | 1 | 2,45 | Q2 |
| JOURNAL OF THORACIC DISEASE | 2,046 | 1 | 2,046 | Q3 |
| JOURNAL OF TRANSLATIONAL MEDICINE | 4,124 | 1 | 4,124 | Q2 |
| JACC-CARDIOVASCULAR INTERVENTIONS | 8,432 | 2 | 16,864 | Q1 |
| JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES | 3,475 | 1 | 3,475 | Q2 |
| JAMA CARDIOLOGY | 12,794 | 1 | 12,794 | Q1 |
| JAMA ONCOLOGY | 24,799 | 2 | 49,598 | Q1 |
| JAMA PEDIATRICS | 13,946 | 1 | 13,946 | Q1 |
| JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION | 45,54 | 1 | 45,54 | Q1 |
| JOURNAL OF PARENTERAL AND ENTERAL NUTRITION | 2,853 | 1 | 2,853 | Q3 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| KIDNEY & BLOOD PRESSURE RESEARCH | 1,898 | 1 | 1,898 | Q3 |
| KIDNEY INTERNATIONAL | 8,945 | 1 | 8,945 | Q1 |
| LANCET | 60,392 | 3 | 181,176 | Q1 |
| LANCET INFECTIOUS DISEASES | 24,446 | 2 | 48,892 | Q1 |
| LANCET ONCOLOGY | 33,752 | 1 | 33,752 | Q1 |
| LANCET PSYCHIATRY | 16,209 | 1 | 16,209 | Q1 |
| LANCET RESPIRATORY MEDICINE | 25,094 | 1 | 25,094 | Q1 |
| LEUKEMIA & LYMPHOMA | 2,969 | 1 | 2,969 | Q2 |
| LEUKEMIA RESEARCH | 2,214 | 1 | 2,214 | Q3 |
| LIVER INTERNATIONAL | 5,175 | 2 | 10,35 | Q1 |
| LIVER TRANSPLANTATION | 4,57 | 1 | 4,57 | Q1 |
| LUNG CANCER | 4,702 | 1 | 4,702 | Q1 |
| MALARIA JOURNAL | 2,631 | 2 | 5,262 | Q1 |
| MATURITAS | 3,63 | 1 | 3,63 | Q1 |
| MBIO | 6,784 | 1 | 6,784 | Q1 |
| MEDICINA CLINICA | 1,635 | 5 | 8,175 | Q3 |
| MEDICAL DOSIMETRY | 1,396 | 1 | 1,396 | Q4 |
| MEDICINA INTENSIVA | 2,363 | 2 | 4,726 | Q3 |
| MEDICAL MYCOLOGY | 2,822 | 5 | 14,11 | Q1 |
| MEDICINE | 1,552 | 4 | 6,208 | Q3 |
| MICROBIAL PATHOGENESIS | 2,914 | 1 | 2,914 | Q3 |
| MINERVA ANESTESIOLOGICA | 2,498 | 2 | 4,996 | Q3 |
| MOLECULAR AUTISM | 5,869 | 1 | 5,869 | Q1 |
| MOLECULAR GENETICS & GENOMIC MEDICINE | 1,995 | 1 | 1,995 | Q3 |
| MOLECULAR GENETICS AND METABOLISM | 4,17 | 1 | 4,17 | Q1 |
| MOLECULAR IMAGING AND BIOLOGY | 2,925 | 2 | 5,85 | Q2 |
| MOLECULAR NUTRITION & FOOD RESEARCH | 5,309 | 1 | 5,309 | Q1 |
| MOVEMENT DISORDERS | 8,679 | 3 | 26,037 | Q1 |
| MYCOSES | 3,575 | 3 | 10,725 | Q1 |
| NANOMEDICINE | 4,3 | 1 | 4,3 | Q1 |
| NANOSCALE | 6,895 | 1 | 6,895 | Q1 |
| NATURE COMMUNICATIONS | 12,121 | 3 | 36,363 | Q1 |
| NATURE | 42,778 | 1 | 42,778 | Q1 |
| NEFROLOGIA | 1,544 | 7 | 10,808 | Q4 |
| NEONATOLOGY | 2,742 | 1 | 2,742 | Q1 |
| NEPHROLOGY DIALYSIS TRANSPLANTATION | 4,531 | 1 | 4,531 | Q1 |
| NEPHRON | 2,089 | 1 | 2,089 | Q3 |
| NETHERLANDS HEART JOURNAL | 1,933 | 1 | 1,933 | Q3 |
| NEUROBIOLOGY OF DISEASE | 5,332 | 1 | 5,332 | Q1 |
| NEUROCIRUGIA | 0,597 | 1 | 0,597 | Q4 |
| NEUROLOGIA | 2,283 | 7 | 15,981 | Q3 |
| NEUROLOGY | 8,77 | 1 | 8,77 | Q1 |
| NEUROPSYCHOPHARMACOLOGY | 6,751 | 1 | 6,751 | Q1 |
| NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS | 8,33 | 3 | 24,99 | Q1 |
| NEW ENGLAND JOURNAL OF MEDICINE | 74,699 | 4 | 298,796 | Q1 |
| NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT | 1,265 | 1 | 1,265 | Q3 |
| NUTRICION HOSPITALARIA | 0,888 | 4 | 3,552 | Q4 |
| NUTRIENTS | 4,546 | 2 | 9,092 | Q1 |
| OBESITY SURGERY | 3,412 | 2 | 6,824 | Q1 |
| ONCOLOGIST | 5,025 | 2 | 10,05 | Q2 |
| OPEN FORUM INFECTIOUS DISEASES | 3,656 | 4 | 14,624 | Q2 |
| ORAL DISEASES | 2,613 | 1 | 2,613 | Q1 |
| ORPHANET JOURNAL OF RARE DISEASES | 3,523 | 4 | 14,092 | Q2 |
| OSTEOPOROSIS INTERNATIONAL | 3,864 | 1 | 3,864 | Q2 |
| OXIDATIVE MEDICINE AND CELLULAR LONGEVITY | 5,076 | 1 | 5,076 | Q2 |
| PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA | 9,412 | 1 | 9,412 | Q1 |
| PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY | 1,303 | 1 | 1,303 | Q4 |
| PAIN MEDICINE | 2,513 | 1 | 2,513 | Q2 |
| PARKINSONS DISEASE | 1,758 | 1 | 1,758 | Q3 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| PATIENT-PATIENT CENTERED OUTCOMES RESEARCH | 3,226 | 1 | 3,226 | Q1 |
| PATIENT PREFERENCE AND ADHERENCE | 1,946 | 1 | 1,946 | Q2 |
| PEDIATRIC ALLERGY AND IMMUNOLOGY | 4,699 | 2 | 9,398 | Q1 |
| PEDIATRIC BLOOD & CANCER | 2,355 | 1 | 2,355 | Q2 |
| PEDIATRIC CRITICAL CARE MEDICINE | 2,854 | 8 | 22,832 | Q1 |
| PEDIATRIC DERMATOLOGY | 1,164 | 2 | 2,328 | Q4 |
| PEDIATRIC EMERGENCY CARE | 1,17 | 1 | 1,17 | Q3 |
| PEDIATRIC INFECTIOUS DISEASE JOURNAL | 2,126 | 5 | 10,63 | Q2 |
| PEDIATRIC NEPHROLOGY | 2,676 | 1 | 2,676 | Q1 |
| PEDIATRIC RESEARCH | 2,747 | 1 | 2,747 | Q1 |
| PEDIATRIC SURGERY INTERNATIONAL | 1,668 | 1 | 1,668 | Q3 |
| PEDIATRIC TRANSPLANTATION | 1,425 | 1 | 1,425 | Q3 |
| PEDIATRICS | 5,359 | 1 | 5,359 | Q1 |
| PHARMACOLOGICAL REPORTS | 2,754 | 1 | 2,754 | Q2 |
| PHARMACOLOGICAL RESEARCH | 5,893 | 2 | 11,786 | Q1 |
| PLOS ONE | 2,74 | 32 | 87,68 | Q2 |
| PSYCHOLOGICAL MEDICINE | 5,813 | 2 | 11,626 | Q1 |
| PULMONOLOGY | 2,778 | 1 | 2,778 | Q2 |
| QUALITY MANAGEMENT IN HEALTH CARE | 0,852 | 1 | 0,852 | Q4 |
| R JOURNAL | 3,312 | 1 | 3,312 | Q1 |
| RADIOTHERAPY AND ONCOLOGY | 4,856 | 1 | 4,856 | Q1 |
| RESPIRATORY MEDICINE | 3,095 | 2 | 6,19 | Q2 |
| RESUSCITATION | 4,215 | 1 | 4,215 | Q1 |
| REVISTA BRASILEIRA DE ANESTESIOLOGIA | 0,867 | 2 | 1,734 | Q4 |
| REVISTA CLINICA ESPANOLA | 1,304 | 5 | 6,52 | Q3 |
| REVISTA ESPANOLA DE CARDIOLOGIA | 4,642 | 14 | 64,988 | Q1 |
| REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS | 1,591 | 6 | 9,546 | Q4 |
| REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR | 1,09 | 2 | 2,18 | Q4 |
| REVISTA ESPANOLA DE QUIMIOTERAPIA | 1,132 | 11 | 12,452 | Q4 |
| REVISTA ESPANOLA DE SALUD PUBLICA | 0,746 | 1 | 0,746 | Q4 |
| REVISTA IBEROAMERICANA DE MICOLOGIA | 1,627 | 1 | 1,627 | Q4 |
| REVUE NEUROLOGIQUE | 1,911 | 1 | 1,911 | Q3 |
| REVISTA DE NEUROLOGIA | 0,562 | 5 | 2,81 | Q4 |
| REVISTA DE PSIQUIATRIA Y SALUD MENTAL | 2,63 | 4 | 10,52 | Q2 |
| RHEUMATOLOGY INTERNATIONAL | 1,984 | 3 | 5,952 | Q3 |
| RHEUMATOLOGY | 5,606 | 2 | 11,212 | Q1 |
| RHINOLOGY | 3,019 | 1 | 3,019 | Q1 |
| ROYAL SOCIETY OPEN SCIENCE | 2,647 | 1 | 2,647 | Q2 |
| SCHIZOPHRENIA RESEARCH | 3,759 | 2 | 7,518 | Q1 |
| SCHIZOPHRENIA BULLETIN | 7,958 | 5 | 39,79 | Q1 |
| SCIENTIFIC REPORTS | 3,998 | 25 | 99,95 | Q1 |
| SEMINARS IN ARTHRITIS AND RHEUMATISM | 4,751 | 2 | 9,502 | Q1 |
| SEMINARS IN THROMBOSIS AND HEMOSTASIS | 2,892 | 1 | 2,892 | Q2 |
| SEXUAL MEDICINE | 1,923 | 1 | 1,923 | Q2 |
| SEXUALLY TRANSMITTED DISEASES | 2,74 | 1 | 2,74 | Q3 |
| STEM CELL RESEARCH | 4,489 | 5 | 22,445 | Q1 |
| SUBSTANCE USE & MISUSE | 1,497 | 1 | 1,497 | Q3 |
| SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES | 3,149 | 1 | 3,149 | Q1 |
| SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES | 1,382 | 1 | 1,382 | Q3 |
| TARGETED ONCOLOGY | 4,036 | 1 | 4,036 | Q2 |
| THERAPEUTIC ADVANCES IN GASTROENTEROLOGY | 3,52 | 3 | 10,56 | Q2 |
| THERAPEUTIC HYPOTHERMIA AND TEMPERATURE MANAGEMENT | 1,176 | 1 | 1,176 | Q4 |
| THORAX | 8,834 | 1 | 8,834 | Q1 |
| THROMBOSIS AND HAEMOSTASIS | 4,379 | 1 | 4,379 | Q1 |
| THROMBOSIS RESEARCH | 2,869 | 2 | 5,738 | Q2 |
| TRANSLATIONAL ONCOLOGY | 3,558 | 1 | 3,558 | Q2 |
| TRANSLATIONAL PSYCHIATRY | 5,28 | 1 | 5,28 | Q1 |
| TRANSPLANT INFECTIOUS DISEASE | 2,071 | 2 | 4,142 | Q3 |
| TRANSPLANTATION PROCEEDINGS | 0,784 | 2 | 1,568 | Q4 |

| Journal | IF | Nº | Amount IF | Q |
|---|---|---|---|---|
| TRIALS | 1,883 | 4 | 7,532 | Q3 |
| ULTRASOUND IN OBSTETRICS & GYNECOLOGY | 5,571 | 1 | 5,571 | Q1 |
| VACCINE | 3,143 | 1 | 3,143 | Q2 |
| VACCINES | 4,086 | 1 | 4,086 | Q2 |
| VETERINARY ANAESTHESIA AND ANALGESIA | 1,368 | 1 | 1,368 | Q2 |
| VIRUS RESEARCH | 2,934 | 1 | 2,934 | Q2 |
| WORLD JOURNAL OF GASTROENTEROLOGY | 3,665 | 1 | 3,665 | Q2 |
| WORLD JOURNAL OF PEDIATRICS | 1,437 | 1 | 1,437 | Q3 |
| WORLD JOURNAL OF UROLOGY | 3,217 | 1 | 3,217 | Q2 |
| WORLD PSYCHIATRY | 40,595 | 1 | 40,595 | Q1 |
| **TOTAL** | | **956** | **4750,4** | |

Finally, publications in indexed journals with **no impact factor and nonindexed journals** are included in an appendix detailing the activity of the different groups.

| JOURNAL | Nº |
|---|---|
| ACTA OTORRINOLARINGOLOGICA ESPANOLA | 1 |
| ACTAS DERMO-SIFILIOGRAFICAS | 3 |
| ANALES DE PEDIATRIA | 1 |
| ANGIOLOGIA | 1 |
| BLOOD ADVANCES | 2 |
| CARDIOVASCULAR REVASCULARIZATION MEDICINE | 1 |
| CIRUGIA CARDIOVASCULAR | 7 |
| CLINICAL CASE REPORTS | 1 |
| CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS | 2 |
| EUROPEAN HEART JOURNAL | 1 |
| EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS | 1 |
| IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING | 2 |
| IEEE-ACM INTERNATIONAL SYMPOSIUM ON CLUSTER CLOUD AND GRID COMPUTING | 1 |
| INTED PROCEEDINGS | 1 |
| INTERNATIONAL JOURNAL OF SURGERY CASE REPORTS | 1 |
| JOURNAL OF CLINICAL ONCOLOGY | 1 |
| MEDICINA CLINICA | 1 |
| NATURE NEUROSCIENCE | 1 |
| ONCOTARGET | 1 |
| PROCEEDINGS OF SPIE | 2 |
| RADIOLOGIA | 1 |
| RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY | 2 |
| REUMATOLOGIA CLINICA | 7 |
| REVISTA CHILENA DE PEDIATRIA-CHILE | 2 |
| TRANSLATIONAL PEDIATRICS | 1 |
| ESMO OPEN | 1 |
| BLOOD RESEARCH | 1 |
| INTRACTABLE & RARE DISEASES RESEARCH | 3 |
| NUTRICION CLINICA Y DIETETICA HOSPITALARIA | 1 |
| REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION | 5 |
| CUREUS | 1 |
| CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS | 3 |
| HEPATIC MEDICINE-EVIDENCE AND RESEARCH | 1 |
| REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.) | 6 |

| JOURNAL | Nº |
|---|---|
| ERIA-REVISTA CUATRIMESTRAL DE GEOGRAFIA | 1 |
| ENDOCRINOLOGIA, DIABETES Y NUTRICION | 1 |
| NPJ BREAST CANCER | 1 |
| DRUGS IN CONTEXT | 1 |
| EUROPEAN UROLOGY FOCUS | 1 |
| ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA | 1 |
| SEMERGEN | 1 |
| CASE REPORTS IN PERINATAL MEDICINE | 1 |
| ENDOCRINOLOGY DIABETES AND METABOLISM CASE REPORTS | 1 |
| EUROPEAN CARDIOLOGY REVIEW | 1 |
| REVISTA DE GASTROENTEROLOGIA DE MEXICO | 2 |
| JCO PRECISION ONCOLOGY | 1 |
| NEW ZEALAND MEDICAL JOURNAL | 1 |
| REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA | 2 |
| REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA | 1 |
| JOURNAL OF OPTOMETRY | 1 |
| JOURNAL OF THE ENDOCRINE SOCIETY | 1 |
| TURKISH JOURNAL OF EMERGENCY MEDICINE | 1 |
| CEN CASE REPORTS | 1 |
| JOURNAL OF RADIATION ONCOLOGY | 1 |
| DRUG TARGET INSIGHTS | 1 |
| CHEMPHOTOCHEM | 1 |
| IET PROFESSIONAL APPLICATIONS OF COMPUTING SERIES | 1 |
| INFECTIOUS DISEASES AND THERAPY | 1 |
| THERAPEUTIC ADVANCES IN INFECTIOUS DISEASE | 1 |
| CASE REPORTS IN SURGERY | 1 |
| INTERNATIONAL JOURNAL OF NEONATAL SCREENING | 2 |
| WORLD JOURNAL OF HEPATOLOGY | 1 |
| REVISTA ORL | 1 |
| EFORT OPEN REVIEWS | 1 |
| JOURNAL OF VASCULAR SURGERY CASES AND INNOVATIVE TECHNIQUES | 1 |
| REVISTA LATINOAMERICANA DE HIPERTENSION | 1 |
| ULSTER MED J | 1 |
| EUROPEAN JOURNAL OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY | 1 |
| AACE CLINICAL CASE REPORTS | 1 |
| MULTIPLE SCLEROSIS JOURNAL - EXPERIMENTAL, TRANSLATIONAL AND CLINICAL | 2 |
| FRONTIERS IN BIOSCIENCE - ELITE | 1 |
| ENEUROLOGICALSCI | 1 |
| ECLINICALMEDICINE | 4 |
| PREVENTIVE NUTRITION AND FOOD SCIENCE | 1 |
| SARCOMA | 1 |
| CURRENT HEART FAILURE REPORTS | 1 |
| PEDIATRIC QUALITY & SAFETY | 1 |
| ELIFE | 1 |
| REVISTA DE ENFERMERÍA Y SALUD MENTAL | 1 |
| INDEX DE ENFERMERIA | 1 |

| JOURNAL | Nº |
|---|---|
| REVISTA PEDIATRÍA ATENCIÓN PRIMARIA | 1 |
| **Total general** | **121** |

# CLINICAL PRACTICE GUIDELINES

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 2.01 | Fernández Baza, Ana / Fernandez-Aviles Diaz, Francisco / Fernandez Santos, Maria Eugenia / Martinez Climent, Batiste Andreu / Sanz Ruiz, Ricardo | **Call to action from the cardiovascular reparative medicine community.** | Cardiopulse |
| 2.01 | Fernandez-Aviles Diaz, Francisco / Zatarain Nicolas, Eduardo | **Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations Abordaje de la fibrilación auricular en pacientes con cáncer activo. Documento de consenso de expertos y recomendaciones** | Revista española de cardiología |
| 2.01 | Fernandez-Aviles Diaz, Francisco | **Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine** | Circulation research |
| 2.01 | Fernandez-Aviles Diaz, Francisco / Sanz Ruiz, Ricardo | **ESC working group on cellular biology of the heart: Position paper for Cardiovascular Research: Tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure** | EUROPEAN HEART JOURNAL |
| 2.03 | López-Fernández T, Martín-García A, Roldán Rabadán I, Mitroi C, Mazón Ramos P, Díez-Villanueva P, Escobar Cervantes C, Alonso Martín C, Alonso Salinas GL, Arenas M, Arrarte Esteban VI, Ayala de La Peña F, Castro Fernández A, García Pardo H, García-Sanz R, González Porras JR, López de Sá E, Lozano T, Marco Vera P, Martínez Marín V, Mesa Rubio D, Montero Á, Oristrell G, Pérez de Prado A, Velasco Del Castillo S, Virizuela Echaburu JA, Zatarain-Nicolás E, Anguita Sánchez M, Tamargo Menéndez J | **Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations.** | REV ESP CARDIOL (ENGL ED). 2019;72(9):749-759. |
| 2.03 | Sulzgruber P, Wassmann S, Semb AG, Doehner W, Widimsky P, Gremmel T, Kaski JC, Savarese G, Rosano GMC, Borghi C, Kjeldsen K, Torp-Pedersen C, Schmidt TA, Lewis BS, Drexel H, Tamargo J, Atar D, Agewall S, Niessner A | **ral Anticoagulation in patients with non-valvular atrial fibrillation and a CHA2DS2-VASc score of 1 - a current opinion of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy and European Society of Cardiology Council on Stroke** | EUR HEART J CARDIOVASC PHARMACOTHER. 2019;5:171-180 |
| 2.03 | Regitz-Zagrosek V, Roos-Hesselink JW, Bauersachs J, Blomström-Lundqvist C, Cífková R, De Bonis M, Iung B, Johnson MR, Kintscher U, Kranke P, Lang IM, Morais J, Pieper PG, Presbitero P, Price S, Rosano GMC, Seeland U, Simoncini T, Swan L, Warnes CA; ESC Scientific Document Group | **Guía ESC 2018 sobre el tratamiento de las enfermedades cardiovasculares durante el embarazo** | REV ESP CARDIOL 2019;72:161.E1-E65 |
| 2.03 | Savarese G, Reiner MF, Uijl A, D'Amario D, Agewall S, Atar D, Baumgartner I, Borghi C, De Carlo M, Drexel H, Kaski JC, Kjeldsen KP, Kucher N, Lund LH, Niessner A, Semb AG, Schmidt TA, Sulzgruber P, Tamargo J, Vitale C, Wassmann S, Aboyans V, Lewis BS | **Antithrombotic therapy and major adverse limb events in patients with chronic lower extremity arterial disease: systematic review and meta-analysis from the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy in Collaboration with the European Society of Cardiology Working Group on Aorta and Peripheral Vascular Diseases.** | EUR HEART J CARDIOVASC PHARMACOTHER 2020;6(2):86-93. |
| 2.03 | Hollan I, Ronda N, Dessein P, Agewall S, Karpouzas G, Tamargo J, Niessner A, Savarese G, Rosano G, Kaski JC, Wassmann S, Meroni PL. | **Lipid management in rheumatoid arthritis: a position paper of the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology.** | EUR HEART J CARDIOVASC PHARMACOTHER. 2020;6(2):104-114. |
| 3.01 | Hebebrand, J.; Falissard, B.; Hoekstra, PJ.; Kaess, M.; Melchior, M.; Micali, N.; Moreno, C.; Rommelse, N.; Roessner, V.; Signorini, G. | EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry. | European Child and Adolescent Psychiatry, 28(6):731-734 |

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 3.01 | Arango, C.; Baeza, I.; Bernardo, M.; Cañas, F.; de Dios, C.; Díaz-Marsá, M.; García-Portilla, MP.; Gutiérrez-Rojas, L.; Olivares, JM.; Rico-Villademoros, F.; Rodríguez-Jiménez, R.; Sánchez-Morla, EM.; Segarra, R.; Crespo-Facorro, B. | Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain | Revista de Psiquiatría y Salud Mental, 12(2):92-105 |
| 4.01 | Oliver A Cornely, Ana Alastruey-Izquierdo, Dorothee Arenz, Sharon C A Chen, Eric Dannaoui, Bruno Hochhegger, Martin Hoenigl, Henrik E Jensen, Katrien Lagrou, Russell E Lewis, Sibylle C Mellinghoff, Mervyn Mer, Zoi D Pana, Danila Seidel, Donald C Sheppard, Roger Wahba, Murat Akova,Alexandre Alanio, Abdullah M S Al-Hatmi, Sevtap Arikan-Akdagli, Hamid Badali, Ronen Ben-Ami, Alexandro Bonifaz, Stéphane Bretagne, Elio Castagnola, Methee Chayakulkeeree, Arnaldo L Colombo, Dora E Corzo-León, Lubos Drgona, Andreas H Groll, Jesus Guinea, Claus-Peter Heussel, Ashraf S Ibrahim, Souha S Kanj, Nikolay Klimko, Michaela Lackner, Frederic Lamoth, Fanny Lanternier, Cornelia Lass-Floerl, Dong-Gun Lee, Thomas Lehrnbecher, Badre E Lmimouni, Mihai Mares, Georg Maschmeyer, Jacques F Meis, Joseph Meletiadis, C Orla Morrissey, Marcio Nucci, Rita Oladele, Livio Pagano, Alessandro Pasqualotto, Atul Patel, Zdenek Racil, Malcolm Richardson, Emmanuel Roilides, Markus Ruhnke, Seyedmojtaba Seyedmousavi, Neeraj Sidharthan, Nina Singh, János Sinko, Anna Skiada, Monica Slavin, Rajeev Soman, Brad Spellberg, William Steinbach, Ban Hock Tan, Andrew J Ullmann, Jörg J Vehreschild, Maria J G T Vehreschild, Thomas J Walsh, P Lewis White, Nathan P Wiederhold, Theoklis Zaoutis, Arunaloke Chakrabarti, for the Mucormycosis ECMM MSG Global Guideline Writing Group | **Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study** | Lancet Infect Dis 2019; 19: e405–21 |
| 4.01 | Carolina Garcia-Vidala,*,1, Ana Alastruey-Izquierdob,1, Manuela Aguilar-Guisadoc, Jordi Carratalàd, Carmen Castroe, Mario Fernández-Ruizf, José María Aguadof, José María Fernándezg, Jesús Fortúnh, José Garnacho-Monteroi, Joan Gavaldàj, Carlota Gudiold, Jesús Guineak, Alicia Gómez-Lópezb, Patricia Mu˜nozk, Javier Pemánl, Montserrat Roviram, Isabel Ruiz-Campsj, Manuel Cuenca-Estrellab | **Executive summary of clinical practice guideline for the management of invasive diseases caused by Aspergillus: 2018 Update by the GEMICOMED-SEIMC/REIPI** | Enferm Infecc Microbiol Clin. 2019;37(8):535–541 |

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 4.01 | Oscar Lena,*, Ibai Los-Arcosa, José María Aguadob, Marino Blanesc, Marta Bodrod, Jordi Carratalàe,Elisa Corderof, María Carmen Fari¨nasg, Mario Fernández-Ruizb, Jesús Fortúnh, Joan Gavaldàa,Francisco López-Medranob, Rogelio López-Vélezh, Carlos Lumbrerasb, Beatriz Mahilloi,María Ángeles Marcosd, Pilar Martin-Dávilah, José Miguel Montejoj, Asunción Morenod,Patricia Muñozk, Francesca Normanh, José Luis Pérez-Sáenzl, Tomás Pumarolaa, Núria Sabée,Rafael San-Juanb, Elisa Vidalm, Beatriz Domínguez-Gili, on behalf of the Transplant Infection StudyGroup (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC),and the National Transplant Organization (ONT) | **Executive summary of the Consensus Statement of the TransplantInfection Study Group (GESITRA) of the Spanish Society of InfectiousDiseases and Clinical Microbiology (SEIMC) and the NationalTransplant Organization (ONT) on the Selection Criteria of Donorsof Solid Organs in relation to Infectious Diseases** | Enferm Infecc Microbiol Clin . 2019 Dec 21;S0213-005X(19)30316-7 |
| 4.01 | Cardozo, Celia ;Cuervo, Guillermo ;Salavert, Miguel ;Merino, Paloma ;Gioia, Francesca ;Fernandez-Ruiz, Mario ;Lopez-Cortes, Luis E ;Escola-Verge, Laura ;Montejo, Miguel ;Munoz, Patricia ;Aguilar-Guisado, Manuela ;Puerta-Alcalde, Pedro ;Tasias, Mariona ;Ruiz-Gaitan, Alba ;Gonzalez, Fernando ;Puig-Asensio, Mireia ;Vena, Antonio ;Marco, Francesc ;Peman, Javier ;Fortun, Jesus ;Aguado, Jose Maria ;Almirante, Benito ;Soriano, Alejandro ;Carratala, Jordi ;Garcia-Vidal, Carolina ;GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group | **An evidence-based bundle improves the quality of care and outcomes of patients with candidaemia.** | The Journal of antimicrobial chemotherapy |
| 4.01 | Burillo, Almudena ;Munoz, Patricia ;Bouza, Emilio | **Risk stratification for multidrug-resistant Gram-negative infections in ICU patients**. | Current opinion in infectious diseases |
| 4.01 | Cuervo, Guillermo ;Garcia-Vidal, Carolina ;Puig-Asensio, Mireia ;Merino, Paloma ;Vena, Antonio ;Martin-Pena, Almudena ;Miguel Montejo, Jose ;Ruiz, Alba ;Lazaro-Perona, Fernando ;Fortun, Jesus ;Fernandez-Ruiz, Mario ;Isabel Suarez, Ana ;Castro, Carmen ;Cardozo, Celia ;Gudiol, Carlota ;Maria Aguado, Jose ;Ramon Pano, Jose ;Peman, Javier ;Salavert, Miquel ;Garnacho-Montero, Jose ;Miguel Cisneros, Jose ;Soriano, Alex ;Munoz, Patricia ;Almirante, Benito ;Carratala, Jordi ;REIPI ;GEMICOMED SEIMC Spanis | **Usefulness of guideline recommendations for prognosis in patients with candidemia** | MEDICAL MYCOLOGY |
| 4.01 | Bouza, Emilio ;Ancochea-Bermudez, Julio ;Campins, Magda ;Maria Eiros-Bouza, Jose ;Fargas, Jesus ;Garcia Rojas, Amos Jose ;Gracia, Diego ;Gutierrez Sanchez, Alipio ;Limia, Aurora ;Antonio Lopez, Jose ;del Carmen Magro, Maria ;Mirada, Gloria ;Munoz, Patricia ;Olier, Eduardo ;Ortiz de Lejarazu, Rail ;Urbiztondo, Luis ;Palomo, Esteban | **Vaccines for the prevention of infections in adults: an opinion paper on the situation in Spain** | REVISTA ESPANOLA DE QUIMIOTERAPIA |
| 4.01 | Bouza, Emilio ;Alonso, Sergio ;Asensio, Angel ;De Juan, Guillermo ;Garcia Lucio, Cristina ;Larrosa, Coral ;Lopez-Iglesias, Javier ;Munoz, Patricia ;Sierra, Rosalia ;Perianes, Jose ;Luis De la Serna, Jose ;Palomo, Esteban ;Gracia, Diego | **Information on nosocomial infections in the mainstream media: an opinion document** | REVISTA ESPANOLA DE QUIMIOTERAPIA |
| 4.02 | EACS Panel Members | **EACS Guidelines 2019** | https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf |

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 4.02 | The Spanish Association for the Study of the Liver | **Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH)** | DOI: 10.1016/j.gastrohep.2019.09.002 |
| 5.01 | Silvia Sánchez-Ramón 1, Arancha Bermúdez 2, Luis Ignacio González-Granado 3, Carlos Rodríguez-Gallego 4, Ana Sastre 5, Pere Soler-Palacín 6, ID-Signal Onco-Haematology Group ID-Signal Onco-Haematology Group: Luis Allende, Laia Alsina, Ana María Bielsa, Sara Calleja-Antolín, Carmen Cámara, Javier Carbone, Carmen Carreras, Ana De Andrés Martín, Angela Deyá, Cristina Díaz de Heredia, Romina Dieli-Crimi, José Luis Díez, Nerea Domínguez-Pinilla, Luis Fernández-Pereira, José Mª García, Juana Gil-Herrera, Antonio Gutiérrez, Isidro Jarque, Manel Juan, Francisco Lendínez, Pilar Llobet, Mónica López, Ana López de la Guía, Marcos López-Hoyos, Andrea Martín-Nalda, Mónica Martínez, Josefa Melero, Ana Méndez-Echevarría, Pedro Moral, Olaf Neth, María Núñez, Gonzalo Ocejo-Vinyals, Juliana Ochoa-Grullón, Peter Olbrich, Raquel Oña, Manuel Pérez-Encinas, Jaime Pons, Carmen Rodríguez, Berta Sánchez, Juan Luis Santos-Pérez, M Elena Seoane, Alexandru Vlagea | **Primary and Secondary Immunodeficiency Diseases in Oncohaematology: Warning Signs, Diagnosis, and Management** | Front Immunol. 2019 Mar 26;10:586 |
| 5.02 | Mª Ángeles Muñoz-Fernández. | **Documento de consenso del CEVIHP/SEIP/AEP/SPNS respecto al tratamiento antirretroviral en niños y adolescentes infectados por el VIH. Panel de expertos del Colaborativo Español para la Infección VIH Pediátrica (CEVIHP** | Sociedad Española de Infectologia Pediátrica (SEIP) de la Asociación Española de Pediatría (AEP) y Secretaria del Plan nacional del Sida |
| 5.03 | Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |
| 5.07 | Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |
| 5.07 | Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 5.07 | Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |
| 5.07 | Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |
| 6.02 | Dominique Farge*, Corinne Frere*, Jean M Connors, Cihan Ay, Alok A Khorana, Andres Munoz, Benjamin Brenner, Ajay Kakkar, Hanadi Rafii, Susan Solymoss, Dialina Brilhante, Manuel Monreal, Henri Bounameaux, Ingrid Pabinger, James Douketis, and the International Initiative on Thrombosis and Cancer (ITAC) advisory panel. | **2019 International Clinical Practice Guidelines for the Treatment and Prophylaxis of Venous Thromboembolism in Patients With Cancer** | Lancet Oncol 2019 Published Online September 3, 2019 http://dx.doi.org/10.1016/S1470-2045(19)30336-5 |
| 6.02 | Press MF, Seoane JA, Curtis C, Quinaux E, Guzman R, Sauter G, Eiermann W, Mackey JR, Robert N, Pienkowski T, Crown J, Martin M, Valero V, Bee V, Ma Y, Villalobos I, Slamon DJ. | **Assessment of ERBB2/HER2 Status in HER2-Equivocal Breast Cancers by FISH and 2013/2014 ASCO-CAP Guidelines.** | JAMA Oncol. 2019 Mar 1;5(3):366-375. doi: 10.1001/jamaoncol.2018.6012. |
| 6.02 | Chacón López-Muñiz, J. I.; Cruz Merino, L. de la; Gavilá Gregori; Martínez Dueñas, E.; Oliveira, M.; Seguí Palmer, M. A.; Álvarez López, I.; Antolin Novoa, S.; Bellet Ezquerra, M.; López-Tarruella, S. | **SEOM clinical guidelines in advanced and recurrent breast cancer (2018)** | Clin Transl Oncol 21, 31–45 (2019). https://doi.org/10.1007/s12094-018-02010-w |
| 6.03 | Marina García Morín | **Guía de recomendaciones de la SEHOP para el tratamiendo de la leucemia linfoblástica aguda o bifenotípica del lactante menor de un año** | Sociedad española de hematología y oncología pediátricas |
| 7.01 | GOICOECHEA, VERDE, LUÑO | **GUIAS DE PRÁCTICA CLÍNICA EN EL MANEJO TERAPEUTICO DE LAS ENFERMEDADES GLOMERULARES** | LIBRO ISBN 978-84-1317-082-4, EDITORIAL CIRCULO ROJO |
| 7.02 | Bataller R, Cabezas J, Aller R, Ventura-Cots M, Abad J, Albillos A, Altamirano J, Arias-Loste MT, Bañares R, Caballería J, Caballería L, Carrión JA, Diago M, Fernández Rodríguez C, Gallego R, García-Cortes M, García-Monzón C, Genescà J, Ginés P, Hernandez-Guerra M, Jorquera F, Lligoña A, Molina E, Pareja MJ, Planas R, Tomé S, Salmerón J, Romero-Gómez M | **Alcohol-related liver disease. Clinical practice guidelines. Consensus document sponsored by AEEH** | Gastroenterol Hepatol. . 2019 Dec;42(10):657-676. |
| 7.05B | Niven R, Aubier M, Bonta P, Puente-Maestu L, Facciolongo N, Ryan D. | **EUROPEAN CONSENSUS MEETING/STATEMENT ON BRONCHIAL THERMOPLASTY WHO? WHERE? HOW?** | Respir Med. 2019 Apr;150:161-164. doi: 10.1016/j.rmed.2019.02.020. Epub 2019 Mar 22. PubMed PMID: 30961945. |

| Group | Authors | Title | Journal / Reference |
|---|---|---|---|
| 7.22 | José Luis Leante Castellanos , Alejandro Pérez Muñuzuri , César W. Ruiz Campillo , Ester Sanz López , Isabel Benavente Fernández , María Dolores Sánchez Redondo , Segundo Rite Gracia, Manuel Sánchez Luna | **Recomendaciones para el cuidado del cordón umbilical en el recién nacido** | Anales de Pediatría |
| 7.22 | Manuel Sánchez Luna , Alejandro Pérez Muñuzuri , José Luis Leante Castellanos , César W. Ruiz Campillo , Ester Sanz López , Isabel Benavente Fernández , María Dolores Sánchez Redondo y Segundo Rite Gracia | **Recomendaciones de la Sociedad Española de Neonatología para la utilización de palivizumab como profilaxis de las infecciones graves por el virus respiratorio sincitial en lactantes de alto riesgo, actualización** | Anales de Pediatría |

# TRAINING: COURSES, SEMINARS, AND ONE-DAY TRAINING SESSIONS



During 2019, the IiSGM Training Committee continued working along the same lines as in previous years to detect specific needs in training.
After requesting information from IiSGM researchers by means of a needs analysis, we assessed the results and decided on the areas that were most relevant for the Institute.
These can be seen in the Training Plan 2018 (http://www.iisgm.com/actualidad/convocatorias-y-formacion/).

In general terms, the training activities offered by IiSGM are certified by the Continuing Training Committee of the Health Care Professions of the Autonomous Community of Madrid.

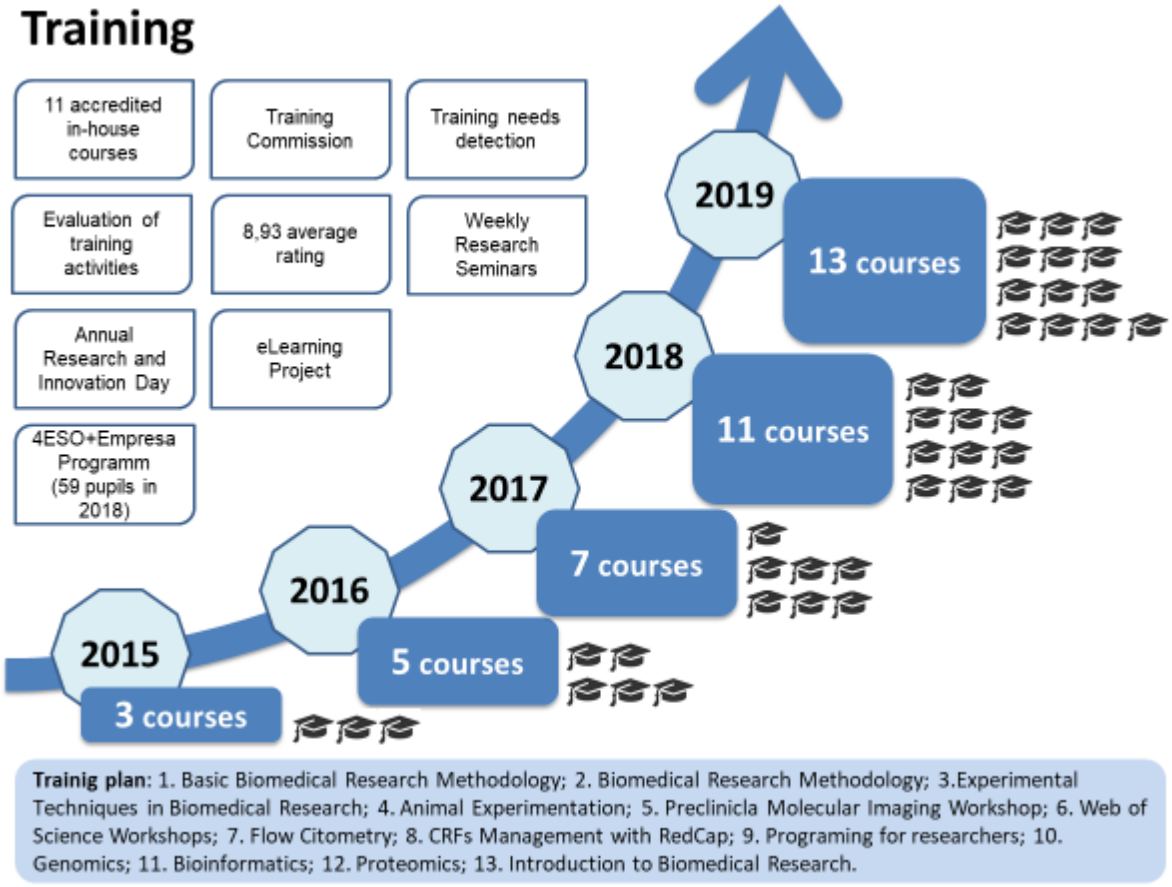
As set out in the Training Plan, during 2018, the IiSGM offered the following opportunities for training:

- Third edition of the ***Basic Course in Research Methodology***, which tries to cover the needs detected for training in basic areas of methodology in the needs analysis. This essentially practical course lasts 20 hours and is aimed mainly at medical residents and staff members who are in the early stages of their research career.
  Based on a case study, the course addresses review of information sources, design of a research project and database, and basic concepts of statistical analysis, interpretation and representation of results, as well as the synthesis and reporting of the information obtained.
- Fourth edition of the ***Course in Biomedical Research Methodology***, which is organized into 4 modules lasting 80 hours. The course provides advanced training in the basics of biomedical research methodology.
  The format of the course enables it to cover the all areas from the initial research hypothesis to publication of results.
- Fifth edition of the ***Course on Biomedical Research Instrumental Techniques***, which aims to provide researchers with data on the main instrumental techniques and the various research platforms of the IiSGM.
- Second edition of the ***Advanced Course on Surgery for Research With Rodents***, which aims to train the student in experimental surgery with laboratory animals.
  The couse is practical in nature and addresses various surgical and microsurgical techniques.
- First edition of the *Course on the Basics and Application of Flow Cytometry in Biomedical Research*
- Pilot edition: *Practical Course in Biomedical Research for Veterinarians*. The course lasts 500 hours and is aimed specifically at graduates in veterinary medicine who have completed their studies during the 3 years before the beginning of the course. The main objective is that that the student acquire knowledge and skills that are highly practical and applicable, enabling him/her to acquire a solid grounding for future integration in an experimental research team.
  The IiSGM has the ideal facilities, equipment, and staff for organizing training activities at the highest level. Therefore, its human and material resources can be appropriately managed to design competitive and high-quality training. The course has very specific elements that set it apart from the range of courses provided by health research institutes and could eventually become a reference in the field of postgraduate training for veterinarians.

Furthermore, the ***IiSGM Research Seminars Program*** is continuing, with weekly sessions covering areas of basic research (Lab Meetings), clinical medicine, and practical aspects of research, as well as with the participation of guest researchers. This forum is considered by the Institute to be the perfect space for implementing cooperation and synergies between groups from the IiSGM and researchers from other institutions who are invited to speak.

Other courses provided included the following:

- Seminars on research and lectures in the Medical Imaging Laboratory of the Experimental Medicine and Surgery Unit.
- A series of training activities were coordinated from the Nursing Research Support Unit, as follows:
  - Training courses in research methodology for resident nursing interns in gynecology and obstetrics, mental health, and pediatrics. First steps in bibliographic searches and information resources in health sciences and qualitative research.
  - Workshops: bibliographic searches and reference management. Creation of databases in access.




**COURSES**

| TITLE | NO. OF EDITIONS | DURATION (in hours) | STUDENTS' EVALUATION (maximum 10 points) |
|---|---|---|---|
| Basic Course in Biomedical Research Methodology | 2 | 24 | 8.9 |
| Course in Biomedical Research Methodology | 5 | 80 (in 4 modules) | 8.025 |
| Course in Experimental Techniques in Biomedical Research | 5 | 24 | 8.2 |
| Course on Animal Experimentation | 3 | 24 | 8.1 |
| Advanced Course on Advanced Surgery in Rodents | 2 | 30 | 9.5 |
| Workshop: Introduction to Preclinical Molecular Imaging and its Application in Biomedical Research | 1 | 80 | 8.1 |
| Course on the Basics and Application of Flow Cytometry in Biomedical Research | 1 | 20 | 9.5 |

**WORKSHOPS**

- Web of Science Workshops
- Workshops on the management of DCFs with RedCap
- Workshops on programming for researchers
- Workshops on genomics
- Workshop on bioinformatics

# DOCTORAL THESES DEFENDED

| Group | Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|---|
| 1.01 | Ph Thesis | **Ana Ortega Gil** | **Optimization of µCT imaging systems for soft-tissue dedicated tasks.** | Vaquero Lopez, Juan Jose | UC3M | 25/07/2019 |
| 1.01 | Ph Thesis | **Abraham Merino Torres** | **Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus** | Correa Rocha, Rafael<br>Desco Menéndez, Manuel | UC3M | 09/07/2019 |
| 1.01 | Bachelor Thesis | **Diana Méndez Araki** | **Caracterización del modelo Poly I:C Estudio volumétrico y de difusión mediante imagen por resonancia magnética.** | Soto Montenegro, María Luisa | UCM | 03/06/2019 |
| 1.01 | Bachelor Thesis | **Sandra López Cacerrada** | **Papel del estrés oxidativo y la senescencia celular en la fisiopatología de la esquizofrenia** | Romero Miguel, Luis Diego | UAH | 02/07/2019 |
| 1.02 | Ph Thesis | **LANCHO GALLEGO, ALEJANDRO** | **Fundamental limits of short-packet wireless communications** | Koch , Tobias | UC3M | 24/06/2019 |
| 1.02 | Ph Thesis | **VILLACRES ESTRADA, GRACE** | **Capacity Limits of Bursty Interference Channels** | Koch , Tobias | UC3M | 11/04/2019 |
| 1.02 | Ph Thesis | **AKYILDIZ , ÖMER DENIZ** | **Sequential and adaptive Bayesian computation for inference and optimization** | Míguez Arenas, Joaquin | UC3M | 11/03/2019 |
| 1.02 | Ph Thesis | **LIU , YANFANG** | **On Generalized LDPC Codes for Ultra Reliable Communication** | Koch, Tobias<br>Martínez Olmos, Pablo | UC3M | 31/01/2019 |
| 2.01 | Ph Thesis | **Ana Casado Plasencia** | **Evaluación de la seguridad y eficacia de la infusión intracoronaria de células madre residentes cardiacas en pacientes con infarto agudo de miocardio y disfunción ventricular** | Francisco Jesús Fernández-Aviles Diaz<br>Ricardo Sanz Ruiz | UCM | 19/12/2019 |
| 2.03 | Ph Thesis | **Raquel Garcia Utrilla** | **El factor de transcripción Tbx20 regula selectivamente la expresión de los canales cardiacos hERG y la densidad de la IKr posible implicación del gen TBX20 en el Síndrome de** | Eva Delpon Mosquera;<br>Juan Tamargo Menendez;<br>Ricardo Caballero Collado | UCM | 26/11/2019 |
| 2.06 | Ph Thesis | **Irene Bretón Lesmes** | **Gestación tras la cirugía bariátrica, evolución clínica y nutricional.** | Luis Antonio Álvarez-Sala Walther<br>Miguel Angel Rubio Herrera<br>Alfonso Calle | UCM | 19/12/2019 |
| 3.01 | Ph Thesis | **María Covadonga Martínez Díaz-Caneja** | **Efectos secundarios de tipo metabólico asociados al tratamiento con antipsicóticos de segunda generación en niños, adolescentes y adultos.** | Celso Arango López | UCM | 01/02/2019 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3.01 | Ph Thesis | **Jose De Arriba Enriquez** | **Productividad científica y calidad en servicios en salud mental: Estudio de la asociación entre la actividad científica en psiquiatría, y la calidad asistencial sanitaria prestada a pacientes en servicios de psiquiatría en hospitales españoles..** | Celso Arango López | UC3M | 01/03/2019 |
| 3.01 | Ph Thesis | **Alejandra Laorden Nieto** | **Caracterización del rendimiento neuropsicológico en personas con síndrome de deleción 22q11.2** | David Fraguas Herraez<br>Maria Mayoral Aragon<br>Juan José Carballo Belloso | UCM | 01/03/2019 |
| 4.01 | Ph Thesis | **Estefanía Abascal** | **Integración de estrategias de secuenciación de genoma completo para optimizar el conocimiento de las dinámicas de transmisión de Mycobacterium tuberculosis y para profundizar en el estudio de la complejidad clonal en la infección por este patógeno** | Dario García De Viedma Del Alamo | UCM | 01/01/2019 |
| 4.01 | Ph Thesis | **Maria Angeles Bordallo Cardona** | **Aproximación fenotípica y molecular a la inducción y detección de resistencia a equinocandinas en Candida glabrata** | Pilar Escribano Martos; Jesús Vicente Guinea Ortega | UCM | 01/01/2019 |
| 5.01 | Ph Thesis | **Esther Calderón** | **Evaluación del ácido fólico como modulador de las funciones efectoras de macrófagos** | Amaya Rocio Puig Kröger | UAM | 01/09/2019 |
| 5.02 | Ph Thesis | **Julia Diaz Miravalls** | **Descripción de las neumonías adquiridas en la comunidad por Staphylococcus aureus en niños** | David Aguilera Alonso | UCM | 01/06/2019 |
| 5.06 | | **Marta Fernandez Castillo** | **Estudio de los mecanismos inmunológicos del Síndrome Coronario Agudo, sus estados patológicos y enfermedades asociadas** | Rafael Correa Rocha | DIVERSOS ORGANISMOS OFICIALES | 27/02/2019 |
| 5.06 | Ph Thesis | **Abraham Merino López** | **Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus** | Manuel Desco Menéndez<br>Rafael Correa Rocha | UC3M | 09/07/2019 |
| 5.06 | Ph Thesis | **Rebeca Kennedy Batalla** | **Perfil inmunológico de pacientes pediátricos con ictiosis. Estudio del efecto de terapias pioneras sobre la clínica y la desregulación inmune observada en ictiosis** | Rafael Correa Rocha | UAH | 20/02/2019 |
| 5.06 | Ph Thesis | **Jimena Perez Moreno** | **Papel de las células T reguladoras en la alergía de las proteínas de la leche de vaca no** | Cesar Sanchez Sanchez<br>Rafael Correa Rocha | UCM | 06/09/2019 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | | | **mediada por IGE en la infancia** | | | |
| 5.07 | Ph Thesis | **Julia Diaz Miravalls** | **Descripción de las neumonías adquiridas en la comunidad por Staphylococcus aureus en niños** | David Aguilera Alonso | UCM | 01/06/2019 |
| 5.07 | | **Jimena Perez Moreno** | **Papel de las celulas T-reguladoras en la alergia a proteínas de leche de vaca no IgE mediada en la infancia.** | | UCM | 06/09/2019 |
| 7.04 | Ph Thesis | **Jimena Perez Moreno** | **Papel De Las Células T Reguladoras En La Alergía De Las Proteínas De La Leche De Vaca No Mediada Por IGE En La Infancia** | Cesar Sanchez Sanchez<br>Rafael Correa Rocha | UCM | 06/09/2019 |
| 7.11 | Ph Thesis | **Pablo Medrano Martínez** | **Alteraciones neuropsicológicas en la narcolepsia con cataplejia estudio de casos y controles** | María Rosa Peraita Adrados<br>MJ Ramos Platon | UCM | 22/03/2019 |
| 7.16 | Ph Thesis | **Irene Gonzalez Del Pozo** | **Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardiaca** | Maria Begoña Quintana Villamandos<br>Juan Francisco Del Cañizo López | UCM | 18/09/2019 |
| 7.18 | Ph Thesis | **Juan Laso Perez** | **Comparación del efecto de profol o sevoflurano sobre la lesión histológica, respuesta inflamatoria y hemodinámica hepática en un modelo porcino de "Small for flow Sydrome"** | Luís Enrique Olmedilla Arnal<br>José Manuel Asencio Pascual<br>Maria Cruz García Martín | UCM | 27/11/2019 |
| 7.25 | Ph Thesis | **Irene Gonzalez Del Pozo** | **Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardiaca** | Maria Begoña Quintana Villamandos; Juan Francisco Del Cañizo López | UCM | 18/09/2019 |
| 7.27 | Ph Thesis | **Bartosz Kaczmarczyk** | **Identificación de polimorfismos en el gen DPYD en pacientes con toxicidad grave a fluoropirimidinas** | Luis AndrésLópez Fernandez<br>Eva Miedes Vicente | UPM | 11/07/2019 |
| 7.27 | Ph Thesis | **Maria Belen Marzal Alfaro;** | **Modelo de excelencia en la atención farmacéutica al paciente oncohematológico en el ámbito hospitalario** | Irene Iglesias Peinado<br>Vicente Escudero Vilaplana<br>Carmen Guadalupe Rodríguez González | UCM | 03/04/2019 |
| 7.27 | Ph Thesis | **Roberto Collado Borrell;** | **Diseño e implantación de una aplicación móvil para el seguimiento farmacoterapéutico de pacientes en tratamiento con antineoplásicos orales** | Vicente Escudero Vilaplana<br>Rosa Maria Romero Jimenez<br>Irene Iglesias Peinado | UCM | 21/10/2019 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 8 | Master Thesis | **Susana Arias Rivera** | **Adaptación y validación de escalas de fragilidad en pacientes críticos ingresados en unidades de cuidados intensivos de España** | María Nieves Moro Tejedor | URJC | 15/07/2019 |
| 8 | Master Thesis | | **Percepción del ambiente educacional de los estudiantes de enfermería durante su periodo de prácticas asistenciales** | Maria Dolores Gonzalez Baz | UCM | 10/06/2019 |
| 8 | Bachelor Thesis | | **Plan de cuidados estandarizado: paciente hospitalizado con crisis miasténica** | Maria Dolores Gonzalez Baz | UCM | 03/06/2019 |
| 8 | Bachelor Thesis | | **Revisión bibliográfica de la atención al paciente con delirium** | Maria Dolores Gonzalez Baz | UCM | 04/06/2019 |
| 8 | Bachelor Thesis | | **La enfermera escolar: situación actual y necesidades de la población infantil** | Raquel Lopez Sanchez | UNIVERSIDAD DE OVIEDO | 18/11/2019 |
| 8 | Bachelor Thesis | | **Cuidados de enfermería en el paciente oncológico pediátrico y la integración de la terapia asistida con animales** | Raquel Lopez Sanchez | UNIVERSIDAD DE OVIEDO | 17/07/2019 |
| 8 | Bachelor Thesis | | **La función de la enfermera en el proceso de triaje** | Raquel Lopez Sanchez | UNIVERSIDAD DE OVIEDO | 17/07/2019 |

# COOPERATIVE RESEARCH STRUCTURES

| Group | Type (RETICS, CIBER, others.) | Name of Network | Role |
|---|---|---|---|
| 1.01 | Platform | Innovación en Tecnologías Médicas y Sanitarias (ITEMAS) | Coordinating group |
| 1.01 | CIBER | Salud Mental (CIBERSAM) | Collaborating group |
| 1.02 | CIBER | CIBERSAM | Others (Only Antonio Artés Rodríguez) |
| 2.01 | CIBER | CIBERCV. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares. CB16/11/00292 | Coordinating group |
| 2.01 | RETICS | Red de Terapia Celular (Ter CEL) RD16/0011/0029 | Collaborating group |
| 2.01 | Others | Red de Formación Interdisciplinaria en Regeneración Cardiaca (EUIN2017-88719) | Collaborating group |
| 2.02 | CIBER | CIBER de Enfermedades Cardiovasculares (CIBERCV) | Collaborating group |
| 2.02 | COST | ADMIRE (BM1301) | Collaborating group |
| 2.03 | CIBER | Enfermedades Cardiovasculares CB16/11/00303. | Collaborating group |
| 2.05 | CIBER | CIBERCV (ENFERMEDADES CARDIOVASCULARES) | Associated group |
| 4.01 | CIBER | CIBERES | Collaborating group |
| 4.01 | RETIC | REIPI | Others:active researchers |
| 4.01 | Platform | Spanish Clinical Research Network (SCReN) | Collaborating group |
| 4.01 | Others | RESITRA (Red Cooperativa de Infección en Paciente trasplantado) | Collaborating group |
| 4.02 | RETICS | Red Española de Investigación en SIDA (RIS). RD16/0025/0017 | Collaborating group |
| 5.01 | RETICS | Red de Investigación en Inflamación y Enfermedades Reumáticas. RIER RD16/0012/0007 | Collaborating group |
| 5.01 | Other | International Network for Strategic Initiatives in Global HIV Trials (INSIGHT) | Collaborating group |
| 5.02 | RETICS | RETIC-RIS - Red de Investigación en SIDA | Collaborating group |
| 5.02 | RED | RED IBEROAMERICANA DE CIENCIA Y TECNOLOGIA PARA EL DESARROLLO (CYTED) | Coordinating group |
| 5.02 | CIBER | CIBER BBN | Associated group |
| 5.02 | Platform | Red Nacional de Biobancos | Coordinating group |
| 5.02 | Others (ISBER) | International Society for Biological and Environmental Repositories | Associated group |
| 5.07 | RETICS | Red de Investigación en SIDA | Asociated group |
| 5.07 | Others (Scientific Societies Networks) | Red pediátrica para la prevención, diagnóstico precoz y tratamiento del VIH en niños. | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Pediatric Tuberculosis Network European Trialsgroup | Coordinating group |
| 5.07 | Others (Scientific Societies Networks | Red Española de Estudio de la Tuberculosis pediátrica | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Grupo de Estudio EREMITA (Estudio de Tuberculosis Resistente en Niños de la Comunidad de Madrid) | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Estudio de la influencia genética en la infección grave en pediatría | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | RED de Infección Congénita por CMV | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Pedatric European Network Treatment on AIDS | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Estudio de la Infección Meningocócica | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Pediatric infections Staphylococcus aureus meticilin resistence ESPID | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Estudio de los aspectos neurocognitivos en la Cohorte de infección VIH Pediátrica | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Red para el estudio de la enfermedad invasiva por SGA. | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Red Nacional para el Estudio de la infección osteoarticular | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Estudio Multicéntrico retrtospectivo y prospectivo de los factores epidemiológicos clínicos, analíticos y microbiológicos determinantes de la respuesta al | Coordinating group |

| Group | Type (RETICS, CIBER, others.) | Name of Network | Role |
|---|---|---|---|
| | | tratamiento de la enfermedad de Kawasaki y el riesgo del desarrollo de aneurismas coronarios en niños menores de 14 años de nuestro medio . | |
| 5.07 | Others (Scientific Societies Networks) | Red europea de ZIKA | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Red de Giardiasis pediátrica Nacional | Coordinating group |
| 5.07 | Others (Scientific Societies Networks) | Grupo de infecciones en drepanocitosis | Asociated group |
| 5.07 | Others (Scientific Societies Networks) | Red de Investigación Traslacional en Infecciones Pediátricas | Asociated group |
| 5.07 | Others (Scientific Societies Networks) | Red Nacional de estudio de Infección congénita por CMV | Asociated group |
| 5.07 | Others (Scientific Societies Networks) | Registro Nacional de casos de infección por ZIKA en el embarazo y recién nacido | Asociated group |
| 5.07 | Others (Scientific Societies Networks) | Sickle cell disease Pediatric Research about INfections Group | Coordinating group |
| 6.02 | RETICS | Redes Temáticas de Investigación Cooperativa en Salud en el Area de Cáncer. RD12/0036/0076 | Collaborating group |
| 6.02 | CIBER | CIBERONC CB16/12/00471 | Collaborating group |
| 6.03 | Others (Internacional Consortium) | ICISTEM - International Collaboration to guide and investigate the potential for HIV cure by Stem Cell Transplantation | Collaborating group |
| 6.03 | CIBER | CIBERER (CIBER de Enfermedades Raras) | Collaborating group |
| 6.03 | CSUR (Centers, Services and Reference Units. Comunidad de Madrid) | CSUR de Eritropatología Hereditaria | Collaborating group |
| 7.01 | RETICS | REDINREN | Collaborating group |
| 7.01 | Others (Scientific Societies Networks) | Consorcio para la Investigación del Fracaso Renal Agudo (CIFRA). Comunidad de Madrid | Collaborating group |
| 7.02 | CIBER | CIBEREHD | Fully fledged group Program Coordinator |
| 7.04 | RETICS | Red de salud Maternoinfantil y del Desarrollo III | Collaborating group |
| 7.04 | Others | Red de Salud Maternoinfantil y del Desarrollo (Red Samid [Mother and Child and Developmental Health Network]) | Collaborating group |
| 7.04 | Other | Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPCI [Latin American Network for the Study of Cardiorespiratory Arrest in Infancy]). | Collaborating group |
| 7.05B | RETICS | REDISEC Red de investigación en enfermedades crónicas | Associated group |
| 7.05B | Others (Red de la Comunidad de Madrid) | GENOBIA Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos con riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas. Aporte del análisis genético GENOBIA | Collaborating group Coordinating group (Network training activities) |
| 7.05B | Others | EPOCONSUL Spanish clinical audit on the medical care for COPD patients | Associated group |
| 7.05B | Others | CHACOS Study Group. Grupo de estudio para la caracterización del fenotipo mixto asma-epoc | Associated group |
| 7.05B | Others | SPANISH SLEEP NETWORK | Collaborating group |
| 7.05B | Others (Red privada financiada por Sanofi) | Registro informatizado de pacientes con enfermedad tromboembolíca (RIETE) | Associated group |
| 7.21 | CIBER | CIBERFES. Fragilidad y envejecimiento saludable | Collaborating group |
| 7.22 | CIBER | CIBERFES. Fragilidad y envejecimiento saludable | Collaborating group |
| 7.22 | Plataform | Spanish Clinical Research Network (SCReN) | Collaborating group |
| 7.25 | Platform | Innovación en Tecnologías Médicas y Sanitarias (ITEMAS) PT13/0006/0001 | Collaborating group |
| 7.27 | Platform | Spanish Clinical Research Network (SCReN) | Collaborating group |
| 7.29 | CIBER | CIBERES (Enfermedades Respiratorias). CB06/06/1084 | Collaborating group |
| 8 | Platform | Spanish Clinical Research Network (SCReN) | Collaborating group |

# 4. SCIENTIFIC ACTIVITY BY AREA

## AREA 1 BIOMEDICAL ENGINEERING



Area Coordinator: **Manuel Desco Menéndez**

The Area of Biomedical Engineering is a particularly interesting facet of the Instituto de Investigación Sanitaria Gregorio Marañón (IiSGM [*Gregorio Marañón Health Research Institute*]). It provides a complementary and clearly enriching vision of the type of research traditionally carried out in biomedicine. Its emphasis on technology, transferability, and immediacy of application, together with its clear orientation towards innovation, makes it an area of considerable added value.

These characteristics are evidenced by the considerable number of joint publications with other groups and areas of the Institute. Infact, the Area of Biomedical Engineering leads the Red de Innovación en Tecnologías Medicas y Sanitarias (ITEMAS [*Medical Technology Innovation Network*]) of the Instituto de Salud Carlos III (*Carlos III Health Institute*). This area is also the link between the IiSGM and Universidad Carlos III. In addition to its research activity, it plays a key role in the new undergraduate Degree in Biomedical Engineering offered by Universidad Carlos III.

Not surprisingly, therefore, the strategic axes of this area are directed towards consolidating collaboration with Universidad Carlos III (in which the incorporation of new research groups will be essential), defining and strengthening the area's role in teaching, consolidating the functioning of the Innovation Support Unit of Hospital General Universitario Gregorio Marañón (HGUGM) –which has considerably stepped up its activity during recent years– and intensifying its strategy of supporting and complementing clinical research.

Its marked technological character makes the Area of Biomedical Engineering a key player in obtaining funds from EU framework programs. Greater emphasis will be placed on this activity in the coming years.

Lastly, the Area of Biomedical Engineering aims to introduce a series of activities aimed at facilitating the participation of other technology groups in the IiSGM, thus promoting multidisciplinary research capacity and rapid knowledge transfer, and, in short,respondingeffectively to key issues in the field of biomedicine.

## GROUPS IN AREA 1

1.01. Advanced technological applications and human health
1.02. Signal processing
1.03. Computer architecture, communications, and systems (ARCOS)
1.04. Nonparametric statistical and intensive computing techniques

# 1.01 Advanced technological applications and human health

Group Director: **Manuel Desco Menéndez**
Organisms involved: **HGUGM**
**UC3M**
**Consolidated Group**

## Description of the research group

The work of this group is aimed mainly at research into medical imaging techniques, in terms of both developing new technology and processing methods and practical applications for clinical practice and biomedical research.
The group comprises researchers from very disparate fi elds (eg, physicians, engineers, physicists, and biologists) who belong to Universidad Carlos III and to Hospital Gregorio Marañón. Professionals from both entities work together to constitute the IiSGM. The group's clearly multidisciplinary character creates a strong connection with real clinical and preclinical needs. Collaboration with hospitals and other biomedical research centers facilitates rapid validation of results and has generated several successful cases of technology transfer to industry.
Consequently, the group has a wide range of imaging and processing techniques, some of which were obtained before they became commercially available. These techniques enable the group to offer advanced imaging services to internal and external research groups.
Research activity is based on 3 major lines: imaging support for clinical research, development of imaging tool technology, and biomedical research projects that require preclinical molecular imaging.

## Research lines

L1. Support for clinical research
L2. Technological development
L3. Biomedical experimentation

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ABELLA | GARCÍA | MÓNICA | R3 | Senior researcher |
| ALBALADEJO | GARCÍA | VIRGINIA | R1 | |
| ARÉVALO | GRACIA | ALICIA | Other | Superior Support technician |
| CALLE | HERNÁNDEZ | DANIEL | Other | Superior Support technician |
| CANTON | LOBERA | PATRICIA | R1 | |
| CARMONA | CAÑABATE | SUSANA | R3 | Miguel Servet I |
| CARRAVILLA | EXPÓSITO | EVA | Other | Support technician |
| CARRETERO | GÓMEZ | LAURA | Other | Other |
| CASQUERO | VEIGA | MARTA | R1 | Predoctoral |
| CÓMITRE | MARIANO | BLANCA | Other | |
| CONCEPCIÓN | BRITO | MANUEL | Other | Other |
| CUSSÓ | MULA | LORENA | R3 | Senior researcher |
| DESCO | MENÉNDEZ | MANUEL | R4 | Senior researcher / Group Director |
| DÍEZ | SANTIAGO | ESTHER | Other | Management |
| FELIPE | MAESTRE | Mª DE LA JARA | Other | Support technician |
| FERNÁNDEZ | DEL CERRO | CARLOS | Other | |
| FERNÁNDEZ | MARAVER | ELISA | Other | |
| FERNÁNDEZ | PENA | ALBERTO | R1 | Predoctoral |
| FRANCISCO | LÓPEZ | ALEXANDRA DE | Other | Support technician |
| GALLARDO | ALGUACIL | BEGOÑA | Other | |
| GARCÍA | DÍEZ | TATIANA | Other | Data management |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| GARCÍA | LÓPEZ DE HARO | CARLOS JAVIER | Other | |
| GARCÍA | MATO | DAVID | R1 | Research Staff in Training UC3M |
| GARCÍA | SEVILLA | MÓNICA | R1 | Predoctoral |
| GARRIDO | HUERTA | TRAJANA | Other | Management |
| GÓMEZ | DE MARISCAL | ESTÍBALIZ | R1 | Research Staff in Training UC3M |
| GÓMEZ | GAVIRO | MARÍA VICTORIA | R3 | Senior researcher |
| GÓMEZ | RANGEL | VANESSA | Other | Other |
| GONZÁLEZ | ARJONA | MARIO | Other | Research ssistant |
| GONZÁLEZ | GUTIERREZ | MARÍA ISABEL | R1 | Other |
| GUERRERO | MARTÍN | JUAN | Other | |
| HERREROS | PÉREZ | DESIRÉ | R1 | |
| LAMANNA | RAMA | NICOLÁS | R1 | |
| MACÍAS | GORDALIZA | PEDRO | R1 | Predoctoral |
| MARCOS | VIDAL | ASIER | R1 | Research Staff in Training UC3M |
| MARCOS | VIDAL | LUIS | R1 | Predoctoral |
| MARTIN | DE BLAS | DANIEL | Other | Other |
| MARTÍNEZ | GARCÍA | MAGDALENA | Other | Predoctoral |
| MARTÍNEZ | MARTÍNEZ | ÁLVARO | R1 | Superior Support technician |
| MARTÍNEZ | SÁNCHEZ | CRISTÓBAL | R1 | Research Staff in Training UC3M |
| MORENO | BERDÓN | PATRICIA | Other | Other |
| MORENO | CAMACHO | JORGE | Other | Support technician |
| MUÑOZ | BARRUTIA | ARRATE | R3 | Senior researcher |
| NAVAS | SÁNCHEZ | FRANCISCO JAVIER | Other | Other |
| NAVASCUÉS | LAUZET | HUGO JORGE DE | Other | |
| NOGUERO | SOLER | INÉS | Other | |
| ORTEGA | GIL | ANA | R1 | Others: i-PFIS |
| PASCAU | GONZÁLEZ-GARZÓN | JAVIER | R3 | Senior researcher |
| PATERNINA | DIE | Mª DEL CARMEN | R1 | Training |
| PÉREZ | BENITO | DAVID | R1 | Predoctoral |
| PÉREZ | URBINA | BEATRIZ | Other | |
| PIOL | | ALESSANDRO | R1 | Other |
| RAMOS | CALDERÓN | MANUEL | Other | |
| RIPOLL | LORENZO | JORGE | R4 | Senior researcher |
| RODRÍGUEZ | CASAÚ | ELENA | Other | Data management |
| ROLÍN | FERRER | DANIEL | Other | Support technician |
| ROMERO | MIGUEL | LUIS DIEGO | R1 | Training |
| RUIZ | ALBA | Mª TERESA | Other | |
| SAKALTRAS | | NOKOLAOS | R1 | Other |
| SALINAS | RODRÍGUEZ | BEATRIZ | R3 | Senior researcher |
| SANTOS | COQUILLAT | ANA MARIA | R2 | |
| SIERRA | PALOMARES | YOLANDA | Other | Support technician |
| SOBRINO | GORRICHO | GORKA | Other | Superior Support technician |
| SOTO | MONTENEGRO | MARÍA LUISA | R3 | Miguel Servet II |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| VAQUERO | LÓPEZ | JUAN JOSÉ | R4 | Senior researcher |



## *Research Projects – Competitive Calls*

TITLE: **ASPIDE: exAScale ProgramIng models for extreme Data procEssing** H2020 ASPIDE
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN COMMISSION (FRAMEWORK PROGRAM)
START DATE: 15/06/2018
END DATE: 14/12/2020

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Nuevo sistema de tomografía por rayos X portátil** DTS17/00122
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Tecchnology Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardiaco** PI18/00462
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE**: Diagnóstico de la bacteriemia por Gram positivos mediante nuevos trazadores PET selectivos**. PI16/02037.
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Predoctoral contract** FI18/00255
DIRECTOR: MARTINEZ GARCIA, MAGDALENA
PROJECT TYPE: Human Resourcest
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **The effects of pregnancy on the human brain** CP16/00096
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Cannabidiol como estrategia preventiva en la aparición de psicosis** DRO2017/085
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SERVICIOS SOCIALES E IGUALDAD
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Ingenieria de datos inspirada en el cerebro**. S2013/ICE-2958 CM
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 14/11/2014
END DATE: 14/11/2018

TITLE: **Laboratorio de sondas moleculares** . EQC2019-006674-P
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 05/06/2019
END DATE: 31/12/20

TITLE: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anthi-Stapgyloccal antibodies and Immune-PET**
. FBBVA18/01
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION BBVA
START DATE: 30/04/2019
END DATE: 31/12/20

TITLE: **Red Madrileña de Nanomedicina en Imagen Molecular**. S2017/BMD-3867
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research network
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Ejercicio físico y N-acetil cisteína como terapias preventivas en la aparición de esquizofrenia durante la adolescencia: estudios preclínicos de imagen molecular y de comportamiento** FAK16/01
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
START DATE: 20/10/2016
END DATE: 30/03/2019

TITLE: **Miguel Servet contract "The effects of pregnancy on the human brain"** MS16/00096,
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human resources

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **TÉcnico de imagen optica (confocal y spim)** PEJ2018-003117-A
DIRECTOR: CALLE HERNÁNDEZ, DANIEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Gestión y procesamiento de datos de neuroimagen en entorno cloud** PEJ2018-003141-A
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Nuevas sondas moleculares en imagen preclínica** PEJ2018-004151-A
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Posdoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-POST/BMD-9592
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-7899
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9077
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9401
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2021

**-Not managed by FIBHGM**

TITLE: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level.**
DIRECTOR: RIPOLL, JORGE
PROJECT TYPE: Research project
FUNDING BODY: EUROPEAN COMMISSION
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales.** RTC-2017- 6600-1
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Realidad aumentada para entornos de planificación, simulación, entrenamiento y navegación quirúrgica: HoloMed.** IND2018/TIC-9753.
DIRECTOR: : PASCAU GONZÁLEZ-GARZÓN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **Utilización de técnicas de imagen avanzada en pequeño animal de laboratorio para aplicaciones cardiovasculares**
DIRECTOR: DESCO MENÉNDEZ, MANUEL / CUSSÓ, LORENA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN CNIC
START DATE: 01/01/2017
END DATE: 31/12/2020

TITLE: **Plataforma computacional para la caracterización de la dinámica espacio-temporal de las protusiones celulares.**
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: BBVA Foundation
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Descifrando la estructura y la función de las protusiones celulares en la migración tridimensional**. TEC2015–73064-EXP
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE**: Imagen óptica 3D ultrarrápida con información de fase en microscopía in-vivo** FIS2016-77892
DIRECTOR: RIPOLL LORENZO, JORGE / MOSCOSO, MA.
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Imagen paramétrica del cerebro embrionario: una nueva propuesta de instrumentación biomédica de altas prestaciones (IMPARABLE)** TEC2016-78052-R
DIRECTOR: MUÑOZ BARRUTIA, ARRATE / VAQUERO LÓPEZ, JUAN JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Nuevos escenarios de tomografía por rayos X (NEXT)** DPI2016-79075-R
DIRECTOR: ABELLA GARCÍA , MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Programa Garantía Juvenil** PEJ2018-001759-A

DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER (Anxela Caldera Fernández)
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/10/2019
END DATE: 31/10/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: DESCO MENENDEZ, MANUEL (MARCOS VIDAL, LUIS)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/11/2018
END DATE: 31/10/2022

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Nikolaos Sakaltras)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 03/09/2018
END DATE: 02/09/2022

TITLE: **Programa para Personal Investigador Postdoctoral)**
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER ( Fernández Fernández, Roberto)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Valencia
START DATE: 01/09/2018
END DATE: 31/08/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Mónica García Sevilla)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 17/08/2018
END DATE: 17/08/2022

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: MUÑOZ BARRUTIA, ARRATE (Estíbaliz Gómez de Mariscal)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 18/09/2017
END DATE: 17/09/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: PASCAU GONZÁLEZ-GARZÓN, JAVIER ( David García Mato)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 07/09/2017
END DATE: 06/09/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSE ( David Pérez Benito)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/09/2017
END DATE: 31/08/2021

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: ABELLA GARCIA, MONICA, (Cristóbal Martínez Sánchez)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 01/02/2017
END DATE: 31/01/2021

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.)) | Name of Network | Role |
|---|---|---|
| Plataformas ISCIII | Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS) | Coordinating group |
| CIBER | CIBERSAM. CIBER Salud Mental | Collaborating group |

## *Industrial and intellectual property registrations*

### *Industrial property*

| Title | Reference* | Owner | Inventors |
|---|---|---|---|
| **Aparato de tomografía multimodal** | P200502612 (Familia con 10 patentes) | FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A. | Juan José Vaquero, Manuel Desco |
| **Incubadora para imagen con radiación no ionizante** | PCT/ES2007/070 214 (Familia con 3 patentes) | FIBHGM | Juan José Vaquero, Manuel Desco, Manuel Sánchez-Luna |
| **Aparato de adquisición de datos para tomografía computerizada por emisión de radiación gamma y su funcionamiento** | P200702836 | FIBHGM – Universidad Politécnica de Madrid | Juan José Vaquero, Manuel Desco, Pedro Guerra, Andrés de Santos, Giancarlo Sportelli |
| **Procedimiento y dispositivo para la detección y discriminación de eventos válidos en detectores de radiación gamma** | PCT/ES2009/070 456 (Familia con 2 patentes) | FIBHGM | Eduardo Lage, Gustavo Tapias, José Antonio Sánchez, Javier del Pino, Juan José Vaquero, Manuel Desco |
| **Método para visualizar la información contenida en imágenes tridimensionales del corazón** | P201000363 (Familia con 4 patentes) | FIBHGM - Universidad Politécnica de Madrid | Esther Pérez, Ángel Arenal, Javier Bermejo, Francisco Fernández-Avilés, Manuel Desco, Mª Jesús Ledesma, Andrés de Santos, José Luis Rubio |
| **Ciclotrón clásico superconductor compacto** | P 201330626 (Familia con 2 patentes) | UC3M - CIEMAT | Manuel Desco, Luis García-Tabarés, Concepción Oliver, Fernando Toral, Daniel Gavela, Diego Obradors, Cristina Vázquez, Iván Podadera, Javier Munilla, Jesús Calero, Jose M. Pérez, Friederich Haug |
| **Equipo y método de generación de tomografías** | P201730341 (Familia con 2 patentes) | FIBHGM - UC3M | Manuel Desco, Mónica Abella |
| **Light Sheet Microscope and procedure for extended samples** | P201830912, 21/09/2018 | UC3M | Jorge Ripoll Lorenzo |
| **Mobile 3D imaging system based on light sheet microscopy** | P201830913, 21/09/2018 | UC3M | Jorge Ripoll Lorenzo |
| **Celda centelleadora** | PCT/ES2017/070 623 | UC3M | Georgios Konstantinou, Juan José Vaquero, Rigoberto Chil, Manuel Desco |
| **Equipo y simulación para control de hemorragias** | P201730568 | FIBHGM – Medical Simulator | Manuel Desco, Juan Francisco del Cañizo |
| **Sistema y método para la detección automática de patrones electrofisiológicos anómalos** | P 2017 31161 (2 patents family) | FIBHGM - UC3M | Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús, Fernández-Avilés Díaz |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark)

### *Intellectual property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **MANGOOSE** | Nº Asiento Registral 02/2010/4412 | FIBHGM | Javier Pascau<br>Manuel Desco<br>Mónica Abellá |

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| | | | Alejandro Sisniega<br>Juan José Vaquero |
| **CUSQ: CARDIO US/Quantification** | Nº Asiente Registral: 16/2010/303 | FIBHGM - UPM | Manuel Desco<br>María Jesús Ledesma<br>Andrés de Santos |
| **FIRST (Fast Iterative Reconstruction Software for Tomography)** | Nº Depósito Notarial: 3806 | FIBHGM | José Manuel Udías<br>Joaquín López<br>Samuel España<br>Manuel Desco<br>Juan José Vaquero |
| **QuTIS (Quantification Tool for in vivo Spectroscopy)** | Nª Depósito Notarial: 5095 | FIBHGM | Manuel Desco<br>Juan José Vaquero |
| **MMWKS** | Sin número registro | FIBHGM | Manuel Desco<br>Juan José Vaquero |
| **MRSITool - software para la cuantificación de estudios de imagen estreptoscópica** | Sin número registro | FIBHGM | Manuel Desco |
| **RapTor** | Registry no.: 16/2017/7104 | FIBHGM-UC3M | Manuel Desco<br>Mónica Abella<br>Claudia de Molina<br>Estefanía Serrano<br>Fco. Javier García<br>Jesús Carretero |
| **XAP-LAB** | Registry no.: 16/2017/7106 | FIBHGM-UC3M | Manuel Desco<br>Mónica Abella<br>Álvaro Martínez<br>Alba García |
| **FUX-SIM** | Nº Asiento Registral: 16/2017/7105 | FIBHGM-UC3M | Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |

Transferred Intellectual Property

## *Doctoral theses, Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Ana Ortega Gil** | Optimization of µCT imaging systems for soft-tissue dedicated tasks. | VAQUERO LOPEZ, JUAN JOSE | UC3M | 25/07/2019 |
| Ph Thesis | **Abraham Merino Torres** | Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus | CORREA ROCHA, RAFAEL<br>DESCO MENÉNDEZ, MANUEL | UC3M | 09/07/2019 |
| PFC | **Diana Méndez Araki** | Caracterización del modelo Poly I:C. Estudio volumétrico y de difusión mediante imagen por resonancia magnética. | SOTO MONTENEGRO, MARÍA LUISA | UCM | 03/06/2019 |
| PFC | **Sandra López Cacerrada** | Papel del estrés oxidativo y la senescencia celular en la fisiopatología de la esquizofrenia | ROMERO MIGUEL, LUIS DIEGO | UAH | 02/07/2019 |

## *Publications* *Total Impact Factor:* ***114.7***

| | Nº | IF |
|---|---|---|
| Own publications | 15 | 49.7 |
| Joint publications | 12 | 65.1 |
| First decile publications | 5 | 43.6 |

| | | |
|---|---|---|
| First quartile publications | 15 | 84.2 |
| Second quartile publications | 9 | 25.7 |
| Third quartile publications | 2 | 3.8 |
| Fourth quartile publications | 1 | 1.1 |
| Nonindexed publications / No IF | 5 | - |
| **Total publications (including those without IF)** | **32** | **114.7** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *del Campo, L; Sanchez-Lopez, A; Salaices, M; von Kleeck, RA; Exposito, E; Gonzalez-Gomez, C; Cusso, L; Guzman-Martinez, G; Ruiz-Cabello, J; Desco, M; Assoian, RK; Briones, AM; Andres, V. Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. AGING CELL. 2019; 18(3) -. FI: 7.238. Cuartil: 1. (Article).*
- *Barba-Muller, E; Craddock, S; Carmona, S; Hoekzema, E. Brain plasticity in pregnancy and the postpartum period: links to maternal caregiving and mental health. ARCHIVES OF WOMENS MENTAL HEALTH. 2019; 22(2) 289-299. FI: 2.5. Cuartil: 3. (Article).*
- *Rioboo, RJJ; Desco, M; Gomez-Gaviro, MV. Impact of optical tissue clearing on the Brillouin signal from biological tissue samples. BIOMEDICAL OPTICS EXPRESS. 2019; 10(6) 2674-2683. FI: 3.921. Cuartil: 1. (Article).*
- *Pena-Zalbidea, S; Huang, AYT; Kavunja, HW; Salinas, B; Desco, M; Drake, C; Woodruff, PJ; Vaquero, JJ; Swarts, BM. Chemoenzymatic radiosynthesis of 2-deoxy-2-[(18)F]fluoro-d-trehalose ([(18)F]-2-FDTre): A PET radioprobe for in vivo tracing of trehalose metabolism. CARBOHYDRATE RESEARCH. 2019; 472 16-22. FI: 1.841. Cuartil: 2. (Article).*
- *Padron-Barthe, L; Villalba-Orero, M; Gomez-Salinero, JM; Dominguez, F; Roman, M; Larrasa-Alonso, J; Ortiz-Sanchez, P; Martinez, F; Lopez-Olaneta, M; Bonzon-Kulichenko, E; Vazquez, J; Marti-Gomez, C; Santiago, DJ; Prados, B; Giovinazzo, G; Gomez-Gaviro, MV; Priori, S; Garcia-Pavia, P; Lara-Pezzi, E. Severe Cardiac Dysfunction and Death Caused by Arrhythmogenic Right Ventricular Cardiomyopathy Type 5 Are Improved by Inhibition of Glycogen Synthase Kinase-3 beta. CIRCULATION. 2019; 140(14) 1188-1204. FI: 23.603. Cuartil: 1. (Article).*
- *Martinez, A; Garcia-Santos, A; Ballesteros, N; Desco, M; Abella, M. XAP-Lab: A software tool for designing flexible X-ray acquisition protocols. COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE. 2019; 177 243-252. FI: 3.632. Cuartil: 1. (Article).*
- *Casquero-Veiga, M; Garcia-Garcia, D; MacDowell, KS; Perez-Caballero, L; Torres-Sanchez, S; Fraguas, D; Berrocoso, E; Leza, JC; Arango, C; Desco, M; Soto-Montenegro, ML. Risperidone administered during adolescence induced metabolic, anatomical and inflammatory/oxidative changes in adult brain: A PET and MRI study in the maternal immune stimulation animal model. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2019; 29(7) 880-896. FI: 3.853. Cuartil: 1. (Article).*
- *Albert-Smet, I; Marcos-Vidal, A; Vaquero, JJ; Desco, M; Munoz-Barrutia, A; Ripoll, J. Applications of Light-Sheet Microscopy in Microdevices. FRONTIERS IN NEUROANATOMY. 2019; 13 -. FI: 3.292. Cuartil: 1. (Review).*
- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH;*

*Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Moreno-Conde, A; Parra-Calderon, CL; Sanchez-Seda, S; Escobar-Rodriguez, GA; Lopez-Otero, M; Cusso, L; del-Cerro-Garcia, R; Segura-Sanchez, M; Herrero-Uriguen, L; Marti-Ras, N; Alberti-Ibarz, M; Desco, M. ITEMAS ontology for healthcare technology innovation. HEALTH RESEARCH POLICY AND SYSTEMS. 2019; 17 -. FI: 2.365. Cuartil: 2. (Article).*

- *Pretus, C; Marcos-Vidal, L; Martinez-Garcia, M; Picado, M; Ramos-Quiroga, JA; Richarte, V; Castellanos, FX; Sepulcre, J; Desco, M; Vilarroya, O; Carmona, S. Stepwise functional connectivity reveals altered sensory-multimodal integration in medication-naive adults with attention deficit hyperactivity disorder. HUMAN BRAIN MAPPING. 2019; 40(16) 4645-4656. FI: 4.421. Cuartil: 1. (Article).*

- *Carmona, S; Martinez-Garcia, M; Paternina-Die, M; Barba-Muller, E; Wierenga, LM; Aleman-Gomez, Y; Pretus, C; Marcos-Vidal, L; Beumala, L; Cortizo, R; Pozzobon, C; Picado, M; Lucco, F; Garcia-Garcia, D; Soliva, JC; Tobena, A; Peper, JS; Crone, EA; Ballesteros, A; Vilarroya, O; Desco, M; Hoekzema, E. Pregnancy and adolescence entail similar neuroanatomical adaptations: A comparative analysis of cerebral morphometric changes. HUMAN BRAIN MAPPING. 2019; 40(7) 2143-2152. FI: 4.421. Cuartil: 1. (Article).*

- *Ariz, M; Abad, RC; Castellanos, G; Martinez, M; Munoz-Barrutia, A; Fernandez-Seara, MA; Pastor, P; Pastor, MA; Ortiz-de-Solorzano, C. Dynamic Atlas-Based Segmentation and Quantification of Neuromelanin-Rich Brainstem Structures in Parkinson Disease. IEEE TRANSACTIONS ON MEDICAL IMAGING. 2019; 38(3) 813-823. FI: 6.685. Cuartil: 1. (Article).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Ruiz-de-Leon, MJ; Jimenez-Sousa, MA; Moreno, S; Garcia, M; Gutierrez-Rivas, M; Leon, A; Montero-Alonso, M; Gonzalez-Garcia, J; Resino, S; Rallon, N; Benito, JM; Vallejo, A; Benito, JM; Ratlon, N; Restrepo, C; Rodriguez, N; Garcia, M; Cabello, A; Gorgolas, M; Resino, S; Briz, V; Jimenez, MA; Vazquez, MS; Fernandez, A; Garcia, P; Munoz, MA; Sanchez, J; Jimenez, JL; Sepulveda, D; Garcia, I; Consuegra, I; Leon, A; Arnedo, M; Plana, M; Climent, N; Garcia, F; Ruiz-Mateos, E; Dominguez, B; Tarancon, L; Rafii-Elddrissi, M; Polaino, MJ; Genebat, M; Viciana, P; Leal, M; Vidal, F; Rodriguez, E; Vilades, C; Peraire, J; Romero, J; Rodriguez, C; Vera, M; Este, J; Ballana, E; Martinez, MA; Franco, S; Nevot, M; Vallejo, A; Moreno, S; Pernas, M; Casado, C; Lopez, C; Capa, L; Perez, M; Alcami, J; Sanjuan, R; Cuevas, JM; Delgado, R; Sierra, O; ECRIS Network Integrated Spanish A. Lower expression of plasma-derived exosome miR-21 levels in HIV-1 elite controllers with decreasing CD4 T cell count. JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. 2019; 52(4) 667-671. FI: 3.493. Cuartil: 2. (Article).*

- *del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*

- *Gondard, E; Soto-Montenegro, ML; Cassol, A; Lozano, AM; Hamani, C. Transcranial direct current stimulation does not improve memory deficits or alter pathological hallmarks in a rodent model of Alzheimer's disease. JOURNAL OF PSYCHIATRIC RESEARCH. 2019; 114 93-98. FI: 3.745. Cuartil: 1. (Article).*

- *Salinas B; Guembe M; Cussó L; Kestler M; Guinea J; Desco M; Muñoz P; Bouza E. Assessment of the anti-biofilm effect of micafungin in an animal model of catheter-related candidemia. MEDICAL MYCOLOGY. 2019; 57(4) 496-503. FI: 2.822. Cuartil: 1. (Article).*

- *Cussó L; Musteanu M; Mulero F; Barbacid M; Desco M. Effects of a Ketogenic Diet on [F-18]FDG-PET Imaging in a Mouse Model of Lung Cancer. MOLECULAR IMAGING AND BIOLOGY. 2019; 21(2) 279-285. FI: 2.925. Cuartil: 2. (Article).*

- *Gordaliza, PM; Munoz-Barrutia, A; Via, LE; Sharpe, S; Desco, M; Vaquero, JJ. Computed Tomography-Based Biomarker for Longitudinal Assessment of Disease Burden in Pulmonary Tuberculosis. MOLECULAR IMAGING AND BIOLOGY. 2019; 21(1) 19-24. FI: 2.925. Cuartil: 2. (Article).*

- *Benito, ER; Chil, R; Udias, JM; Desco, M; Vaquero, JJ. SiPM-based PET detector module for a 4 pi span scanner. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 2019; 936 18-21. FI: 1.265. Cuartil: 3. (Review).*

- *Salagre, E; Arango, C; Artigas, F; Ayuso-Mateos, JL; Bernardo, M; Castro-Fornieles, J; Bobes, J; Desco, M; Fananas, L; Gonzalez-Pinto, A; Haro, JM; Leza, JC; Mckenna, PJ; Meana, JJ; Menchon, JM; Mico, JA; Palomo, T; Pazos, A; Perez, V; Saiz-Ruiz, J; Sanjuan, J; Tabares-Seisdedos, R; Crespo-Facorro, B; Casas, M; Vilella, E; Palao, D; Olivares, JM; Rodriguez-Jimenez, R; Vieta, E. CIBERSAM: Ten years of collaborative translational research in mental disorders. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(1) 1-8. FI: 2.63. Cuartil: 2. (Editorial Material).*

- *Hamid, N; Pretus, C; Atran, S; Crockett, MJ; Ginges, J; Sheikh, H; Tobena, A; Carmona, S; Gomez, A; Davis, R; Vilarroya, O. Neuroimaging 'will to fight' for sacred values: an empirical case study with supporters of an Al Qaeda associate. ROYAL SOCIETY OPEN SCIENCE. 2019; 6(6) -. FI: 2.647. Cuartil: 2. (Article).*

- *Garcia-Mato, D; Ochandiano, S; Garcia-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; Garcia-Leal, R; Calvo-Haro, JA; Perez-Mananes, R; Salmeron, JI; Pascau, J. Craniosynostosis surgery: workflow based on virtual surgical planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Gomez-de-Mariscal, E; Maska, M; Kotrbova, A; Pospichalova, V; Matula, P; Munoz-Barrutia, A. Deep-Learning-Based Segmentation of Small Extracellular Vesicles in Transmission Electron Microscopy Images. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Ortega-Gil, Ana; Vaquero, Juan Jose; Gonzalez-Arjona, Mario; Rullas, Joaquin; Munoz-Barrutia, Arrate. X-ray-based virtual slicing of TB-infected lungs. SCIENTIFIC REPORTS. 2019; 9(1) 19404-19404. FI: 3.998. Cuartil: 1. (Article).*

- *Prieto, P; Jaan, RI; Calle, D; Gomez-Serrano, M; Nunez, E; Fernandez-Velasco, M; Martin-Sanz, P; Alonso, S; Vazquez, J; Cerdan, S; Peinado, MA; Bosca, L. Interplay between post-translational cyclooxygenase-2 modifications and the metabolic and proteomic profile in a colorectal cancer cohort. WORLD JOURNAL OF GASTROENTEROLOGY. 2019; 25(4) 433-446. FI: 3.665. Cuartil: 2. (Article).*

***•Publications of the main WOS collection in journals without impact factor:***

- *Hu, J; Gorsak, T; Rodriguez, EM; Calle, D; Munoz-Ortiz, T; Jaque, D; Fernandez, N; Cusso, L; Rivero, F; Torres, RA; Sole, JG; Mertelj, A; Makovec, D; Desco, M; Lisjak, D; Alfonso, F; Sanz-Rodriguez, F; Ortgies, DH. Magnetic Nanoplatelets for High Contrast Cardiovascular Imaging by Magnetically Modulated Optical Coherence Tomography. CHEMPHOTOCHEM. 2019; 3(7) 529-539. (Article).*

- *Alfano, F; Fisac, JEO; Garcia-Sevilla, M; Conde, MH; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. PRONE TO SUPINE SURFACE BASED REGISTRATION WORKFLOW FOR BREAST TUMOR LOCALIZATION IN SURGICAL PLANNING. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 294-297. (Proceedings Paper).*

- *Gordaliza, PM; Vaquero, JJ; Sharpe, S; Gleeson, F; Munoz-Barrutia, A. Tuberculosis Lesions in CT Images Inferred using 3D-CNN and Multi-Task Learning. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).*

- *Polatoglu, MN; Liu, Y; Ni, RQ; Ripoll, J; Rudin, M; Wolf, M; Ren, WW. Simulation of Fluorescence Molecular Tomography using a Registered Digital Mouse Atlas. PROCEEDINGS OF SPIE. 2019; 11072 -. (Proceedings Paper).*

- *Arias-Valcayo, F; Herraiz, JL; Galve, P; Vaquero, JJ; Desco, M; Udias, JM. Awake preclinical brain PET imaging based on point sources. PROCEEDINGS OF SPIE. 2019; 11074 -. (Proceedings Paper).*

# 1.02 Signal processing

Group Director: **Antonio Artés Rodríguez**
Organisms involved: **UC3M**
**Consolidated (in the process of integration) Group**

## Description of the research group

The Signal Processing and Learning Group focuses its research and teaching activity in the following areas: detection, modification and classification of signals and images, machine learning, computational statistics in signal processing, information theory and related applications in communications, medicine, geophysics or social sciences

## Research lines

L1. Merging of data from monitoring devices.
L2. Data mining in psychiatry
L4. Monitoring
L4. Ambulatory monitoring with wearable devices
L5. Diagnostic support in patients with heart arrhythmias
L6. Signal processing and application of machine learning in medicine

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ARTÉS | RODRÍGUEZ | ANTONIO | R4 | |
| BARREJON | MORENO | DANIEL | R1 | Research Support Technician |
| BONILLA | ESCRIBANO | PABLO | R1 | Research Support Technician |
| CAMPAÑA | MONTES | JUAN JOSÉ | | Industrial Doctorate CAM |
| CARRETERO | VILLAJOS | PATRICIA | R1 | Industrial Doctorate CAM |
| CHAO | | QI | R1 | Postdoctoral researcher |
| COBO | AGUILERA | AURORA | R2 | Pre-doctoral researcher |
| KOCH | | TOBIAS | | |
| LANCHO | SERRANO | ALEJANDRO | R3 | Research Support Technician |
| LIU | | YANFANG | R2 | |
| LÓPEZ | YELA | ALBERTO | R2 | Researcher Doctor |
| LÓPEZ | SANTIAGO | JAVIER | R2 | |
| MARTÍNEZ | ORDÓNEZ | JOSE ALBERTO | R3 | Research Support Technician |
| MARTÍNEZ | OLMOS | PABLO | R1 | |
| MÍGUEZ | ARENAS | JOAQUÍN | R3 | |
| MORENO | MARTÍNEZ | ÁNGELA | R3 | Research Support Technician |
| MORENO | PINO | FERNANDO | R1 | Pre-doctoral researcher |
| MORENO | MUÑOZ | PABLO | R1 | Pre-doctoral researcher |
| OMER | DENIZ | AKYLDIZ | R2 | Research Support Technician |
| PEIS | AZNARTE | IGNACIO | R1 | Pre-doctoral researcher |
| PÉREZ | CRUZ | FERNANDO | R1 | |
| PÉREZ | VIEITES | SARA | R3 | Research Support Technician |
| RAMÍREZ | GARCÍA | DAVID | R1 | |
| RAVI | | JITHIN | R3 | Postdoctoral researcher |
| RODRÍGUEZ | DE DIAGO | MARTA | R2 | Research Assistant |
| ROMERO | MEDRANO | LORENA | R1 | Industrial Doctorate CAM |
| SUKEI | | EMESE | R2 | Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| VÁZQUEZ | ROMERO | ADRIÁN | R1 | |
| VÁZQUEZ | VILAR | GONZALO | R1 | |
| VÁZQUEZ | LÓPEZ | MANUEL | R2 | |
| VILLACRÉS | ESTRADA | GRACE | R3 | |
| YANEZ | MONTESDEOCA | ALBERTO | R1 | Research Support Technician |

## *Research Projects – Competitive Calls*

**Not managed by the FIBHGM**

TITLE: **Machine Learning Frontiers in Precision Medicine** H2020-MSCA-ITN-2018 Grant Agreement Nº813533
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **Advanced Bayesian computation methods for modelling and inference in complex dynamical networks** N00014-19-1-2226
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/03/2017
END DATE: 28/02/2022

TITLE: **LOLITA: Information Theory for Low-Latency Wireless Communications** ERC-2016-StG Nr. 714161
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: Comisión Europea
START DATE: 01/03/2017
END DATE: 28/02/2022

TITLE: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-I00
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Detección precoz de Crisis de Autismo**
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Fundación Universia
START DATE: 29/04/2019
END DATE: 30/04/2020

TITLE: **Domain Alignment and Data Wrangling with Deep Generative Models**
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Fundación BBVA
START DATE: 30/04/2019
END DATE: 30/04/2021

TITLE: **PRACTICO-CM Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Change-point Management (CAIMAN)** TEC2017-86921-C2-2-R
DIRECTOR: RAMÍREZ GARCÍA, DAVID
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Micro-fundamentos del comportamiento: Un enfoque basado en las TICs para entender el comportamiento humano y la interacción (aMBITION)** TEC2017-92552-EXP
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: CASI-CAM-CM
START DATE: 01/11/2018
END DATE: 31/12/2020

TITLE: **Caracterización automática de comportamiento mediante modelos latentes basados en redes profundas** IND2017/TIC-7618
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/02/2018
END DATE: 15/02/2021

TITLE: **Finite-length iterative decoding: fundamental limits, practical constructions and inference (FLUID)** TEC-2016-78434-C3-3-R
DIRECTOR: MARTÍNEZ OLMOS, PABLO; VAZQUEZ VILAR, GONZALO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Advanced Bayesian computation methods for estimation, prediction and control in multi-sensor complex system (ADVENTURE)** TEC2015-69868-C2-1-R
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Metodologías de aprendizaje automático en neuroimagen** PEJ2018-001757-A
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract: Research Assistant** PEJ-2018-AI/TIC-11059
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 15/01/2019
END DATE: 30/04/2020

TITLE: **Detection of behavioral changes and its application in psychiatry** IND2018/TIC-9574
DIRECTOR: RAMÍREZ GARCÍA, DAVID
PROJECT TYPE: Human Resources
FUNDING BODY: DIRECCIÓN GENRAL DE INVESTIGACIÓN E INNOVACIÓN. COMUNIDAD DE MADRID
START DATE: 04/02/2019
END DATE: 03/02/2022

TITLE: **Domain Alignment and Data Wrangling with Deep Generative Models** IND2018/TIC-9649
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Human Resources
FUNDING BODY: DIRECCIÓN GENRAL DE INVESTIGACIÓN E INNOVACIÓN. COMUNIDAD DE MADRID

START DATE: 04/02/2019
END DATE: 03/02/2022



## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | CIBERSAM CIBER Salud Mental | Others (Only Antonio Artés Rodríguez) |

## Industrial and intellectual property registrations

*Industrial Property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **Sistema y método para la detección automática de patrones electrofisiológicos anómalos Aparato de tomografía multimodalidad** | P201731161 | FIBHGM - UC3M | Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez. Ángel Arenal Maíz,Francisco Jesús Fernández-Avilés Díaz |

* ***Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## Doctoral theses, Bachelor theses and Master theses

| TYPE | CANDIDATE | TITLE | Name/S DIRECTOR/S | UNIVERSITY | DATE DEFENDED |
|---|---|---|---|---|---|
| Ph Thesis | **Lancho Gallego, Alejandro** | Fundamental limits of short-packet wireless communications | Koch , Tobias | UC3M | 24/06/2019 |
| Ph Thesis | **Villacres Estrada, Grace** | Capacity Limits of Bursty Interference Channels | Koch , Tobias | UC3M | 11/04/2019 |
| Ph Thesis | **Akyildiz , Ömer Deniz** | Sequential and adaptive Bayesian computation for inference and optimization | Míguez Arenas, Joaquin | UC3M | 11/03/2019 |
| Ph Thesis | **Liu , Yanfang** | On Generalized LDPC Codes for Ultra Reliable Communication | Koch , Tobias Martínez Olmos, Pablo | UC3M | 31/01/2019 |

## Publications

Total Impact Factor: ***36,5***

| | Nº | FI |
|---|---|---|
| Own publications | 6 | 24.8 |
| Joint publications | 3 | 11.7 |
| First decile publications | 0 | - |
| First quartile publications | 4 | 20.7 |
| Second quartile publications | 5 | 15.8 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 0 | 0.0 |

| | | |
|---|---|---|
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **11** | **36.5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Peis, I; Olmos, PM; Vera-Varela, C; Barrigon, ML; Courtet, P; Baca-Garcia, E; Artes-Rodriguez, A. Deep Sequential Models for Suicidal Ideation From Multiple Source Data. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2019; 23(6) 2286-2293. FI: 5.223. Cuartil: 1. (Article).*
- *Luengo, D; Rios-Munoz, G; Elvira, V; Sanchez, C; Artes-Rodriguez, A. Hierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2019; 23(1) 143-155. FI: 5.223. Cuartil: 1. (Article).*
- *Bonilla-Escribano, P; Ramirez, D; Sedano-Capdevila, A; Campana-Montes, JJ; Baca-Garcia, E; Courtet, P; Artes-Rodriguez, A. Assessment of e-Social Activity in Psychiatric Patients. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2019; 23(6) 2247-2256. FI: 5.223. Cuartil: 1. (Article).*
- *Eguizabal, A; Lameiro, C; Ramirez, D; Schreier, PJ. Source Enumeration n the Presence of Colored Noise. IEEE SIGNAL PROCESSING LETTERS. 2019; 26(3) 475-479. FI: 3.105. Cuartil: 2. (Article).*
- *Geiger, BC; Koch, T. On the Information Dimension of Stochastic Processes. IEEE TRANSACTIONS ON INFORMATION THEORY. 2019; 65(10) 6496-6518. FI: 3.036. Cuartil: 2. (Article).*
- *Liu, YF; Olmos, PM; Koch, T. A Probabilistic Peeling Decoder to Efficiently Analyze Generalized LDPC Codes Over the BEC. IEEE TRANSACTIONS ON INFORMATION THEORY. 2019; 65(8) 4831-4853. FI: 3.036. Cuartil: 2. (Article).*
- *Vazquez-Vilar, G; Fabregas, AGI; Verdu, S. The Error Probability of Generalized Perfect Codes via the Meta-Converse. IEEE TRANSACTIONS ON INFORMATION THEORY. 2019; 65(9) 5705-5717. FI: 3.036. Cuartil: 2. (Article).*
- *Garg, V; Santamaria, I; Ramirez, D; Scharf, LL. Subspace Averaging and Order Determination for Source Enumeration. IEEE TRANSACTIONS ON SIGNAL PROCESSING. 2019; 67(11) 3028-3041. FI: 5.028. Cuartil: 1. (Article).*
- *Moreno-Pino, F; Porras-Segovia, A; Lopez-Esteban, P; Artes, A; Baca-Garcia, E. Validation of Fitbit Charge 2 and Fitbit Alta HR Against Polysomnography for Assessing Sleep in Adults With Obstructive Sleep Apnea. JOURNAL OF CLINICAL SLEEP MEDICINE. 2019; 15(11) 1645-1653. FI: 3.586. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Horstmann, S; Ramirez, D; Schreier, PJ; Pries, A. Two-channel passive detection of cyclostationary signals in noise with spatio-temporal structure. CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS. 2019; 1333-1337. (Proceedings Paper).*
- *Lancho, A; Ostman, J; Koch, T; Vazquez-Vilar, G. Finite-Blocklength Approximations for Noncoherent Rayleigh Block-Fading Channels. CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS. 2019; 815-819. (Proceedings Paper).*

# 1.03 Computer architecture, communications, and systems: ARCOS

Group Director: **Jesús Carretero Pérez**
Organisms involved: **UC3M**
**Consolidated (in the process of integration) Group**

## Description of the research group

The research group of computer architecture, communications and systems (ARCOS) represents the Computer Architecture and Technology Area at the Carlos III of Madrid University.
Its main objective is to investigate and develop hardware and software systems in the areas of real-time and embedded systems, high-performance computing, storage systems, dependable systems.
ARCOS is a dynamic research group that is currently conducting research in various HPC areas. Our research activities are oriented to the development of new software for large-scale parallel and distributed systems, These activities cover the development and optimization of parallel and distributed applications, real time, reliable designs, and high performance computing, including cross-layer optimizations of HPC storage I/O stack, parallel file systems, I/O acceleration of scientific workflows, auto-tuning of parallel I/O based on machine learning, dynamic monitoring of HPC infrastructures, convergence of HPC and Bigdata software stacks, and resource allocation elasticity in HPC and clouds.
All the former knowledge has been applied to several scientific and industrial areas, such as fluid mechanics, reconstruction of 3D medical images, Big Data Analytics, finance computing, and simulations involving complex systems, trying to combine real world engineering with cutting-edge research topics. As a result, ARCOS has strong relations with a portfolio of major European laboratories and companies in areas such as Informatics, Bioengineering and Aerospace.
Moreover, ARCOS researchers are leading several European projects, such as COST Action IC1305 entitled "Network for Sustainable Ultrascale Computing" (NESUS, www.nesus.eu), with more than 70 institutions from 40 countries all around the world, or the projects REPARA (www.repara-project.eu) and RePhrase (rephrase-ict.eu) that address the programmability for parallel systems with special attention to heterogeneous architectures.
Besides that, ARCOS is actively involved in the standardization of the C++ programming language (representing Spain in the ISO C++ standards committee).

## Research lines

**Axis 1: High-performance processing**
- Line 1: Cluster processing.
- Line 2: Cloud computing.
- Line 1: High-performance storage.
- Line 1: GPU processing.

**Axis 2: Medical image processing**
- Line 1: Real-time reconstruction of 3D images.

**Axis 3: Epidemic simulators**
- Line 1: Simulation of influenza with social information.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CAINO | LORES | SILVINA | | FPU |
| CALDERON | MATEOS | ALEJANDRO | | Postdoctoral |
| CARRETERO | PEREZ | JESUS | | Senior researcher |
| EXPOSITO | SINGH | DAVID | | Postdoctoral |
| FERNANDEZ | MUÑOZ | JAVIER | | Postdoctoral |
| GARCIA | BLAS | FRANCISCO JAVIER | | Postdoctoral |
| GARCIA | CARBALLEIRA | FELIX | | Senior researcher |
| GARCIA | FERNÁNDEZ | ALBERTO | | |
| GARCIA | SANCHEZ | JOSE DANIEL | | Postdoctoral |
| GOMEZ | CARRASCO | CARLOS | | |
| ISAILA | | FLORIN | | Postdoctoral |
| LI | | XIN | | |
| LLOPIS | SANMILLAN | PABLO | | |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ORTIZ | NIETO | DANIEL | | |
| RODRIGO | DURO | FRANCISCO JOSÉ | | |
| SÁNCHEZ | GARCIA | LUIS MIGUEL | | |
| SERRANO | LÓPEZ | ESTEFANÍA | | FPU |
| SOTOMAYO | FERNANDEZ | RAFAEL | | |

## *Publications* *Total Impact Factor:* ***17.0***

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 14.7 |
| Joint publications | 1 | 2.3 |
| First decile publications | 1 | 6.1 |
| First quartile publications | 2 | 9.9 |
| Second quartile publications | 3 | 7.2 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **7** | **17.0** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Cascajo, A; Singh, DE; Carretero, J. Performance-Aware Scheduling of Parallel Applications on Non-Dedicated Clusters. ELECTRONICS. 2019; 8(9) -. FI: 2.412. Cuartil: 2. (Article).*
- *Gonzalez-Compean, JL; Telles, O; Lopez-Arevalo, I; Morales-Sandoval, M; Sosa-Sosa, VJ; Carretero, J. A policy-based containerized filter for secure information sharing in organizational environments. FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE. 2019; 95 430-444. FI: 6.125. Cuartil: 1. (Article).*
- *Caino-Lores, S; Carretero, J; Nicolae, B; Yildiz, O; Peterka, T. Toward High-Performance Computing and Big Data Analytics Convergence: The Case of Spark-DIY. IEEE ACCESS. 2019; 7 156929-156955. FI: 3.745. Cuartil: 1. (Article).*
- *Melo, A; Carretero, J; Stenstrom, P; Ranka, S; Ayguade, E. Trends on heterogeneous and innovative hardware and software systems. JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING. 2019; 133 362-364. FI: 2.296. Cuartil: 2. (Editorial Material).*
- *Singh, DE; Carretero, J. Combining malleability and I/O control mechanisms to enhance the execution of multiple applications. JOURNAL OF SYSTEMS AND SOFTWARE. 2019; 148 21-36. FI: 2.45. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Garcia-Blas, J; Astorga, DD; Garcia, JD; Carretero, J. Exploiting stream parallelism of MRI reconstruction using GrPPI over multiple back-ends. IEEE-ACM INTERNATIONAL SYMPOSIUM ON CLUSTER CLOUD AND GRID COMPUTING. 2019; 631-637. (Proceedings Paper).*
- *Carretero, J; Jeannot, E; Zomaya, A. Ultrascale Computing Systems Preface. IET PROFESSIONAL APPLICATIONS OF COMPUTING SERIES. 2019; 24 1-7. (Editorial Material).*

# 1.04 Nonparametric statistical and intensive computing techniques

Group Director: **Juan Romo Urroz**
Organisms involved: **UC3M**
**Consolidated (in the process of integration) Group**



## Research lines

**Axis 1: Big data**.
Line 1: Genetic studies with massive databases
Line 2: Design of genetic networks.
Line 3: Analysis and selection of polymorphisms.
**Axis 2: Analysis of complex data**.
Line 1: Analysis of functional data
Line 2: Analysis of microarray data.
Line 3: Analysis of images
**Axis 3: Survival analysis**.
Line 1: Study of the efficacy of treatment using confidence intervals
Line 2: Definition of reliability measures and associated comparisons.
Line 2: Use of MAP models for analysis of the appearance of events.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| AGUILERA | MORILLO | CARMEN | | Postdoctoral |
| ARRIBAS | GIL | ANA | | Postdoctoral |
| CABANA | GARCERAN DEL VALL | ELISA | | Predoctoral |
| LILLO | RODRIGUEZ | ROSA ELVIRA | | Senior Researcher |
| MINGOTTI | | NICOLA | | Others |
| RODRÍGUEZ | CÉSAR | JOANNA | | Predoctoral |
| ROMO | URROZ | JUAN | | Senior Researcher |
| SGUERA | | CARLO | | Postdoctoral |
| STRZALKOVSKA | KOMINIAK | EWA | | Other |

## Publications

Total Impact Factor: **4.9**

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 1,6 |
| Joint publications | 1 | 3,3 |
| First decile publications | 0 | - |
| First quartile publications | 1 | 3,3 |
| Second quartile publications | 1 | 1,6 |
| Third quartile publications | 0 | 0,0 |
| Fourth quartile publications | 0 | 0,0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **2** | **4,9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor***

- Valencia, D; Lillo, RE; Romo, J. *A Kendall correlation coefficient between functional data*. ADVANCES IN DATA ANALYSIS AND CLASSIFICATION. 2019; 13(4) 1083-1103. FI: 1.603. Cuartil: 2. (Article).
- Ieva, F; Paganoni, AM; Romo, J; Tarabelloni, N. *roahd Package: Robust Analysis of High Dimensional Data*. R JOURNAL. 2019; 11(2) 291-307. FI: 3.312. Cuartil: 1. (Article).

# AREA 2 CARDIOVASCULAR DISEASES

Area Coordinator**: Francisco Fernández-Avilés Díaz**

Cardiovascular diseases constitute a major health problem in developed countries, both because of their prevalence and incidence and because of their severity; hence the importance of a research area for cardiovascular diseases in the IiSGM. The Area of Cardiovascular Diseases covers all aspects of this modern epidemic, through basic research and, very importantly, clinical research,including various emerging and associated clinical groups from a variety of hospital services.

A particularly interesting characteristic of this Area is its cooperative spirit. Its main group coordinates the national Red de Investigación Cardiovascular (RIC [*Cooperative Network for Research on Cardiovascular Disease*]) for the study of cardiovascular diseases, which is funded by the Instituto de Salud Carlos III. Of particular interest, this area includes basic research groups belonging to the Universidad Complutense and envisages wide-ranging agreements with American universities for the development of an ambitious program for the generation of artificial organs (SABIO Project). In addition to such important ongoing projects, the Area of Cardiovascular Diseases has forged an ambitious set of objectives for the coming years, including promotion of basic research laboratories, increased funding from the EU's Seventh Framework Programme for Research and Technological Development, and development of a model for the evaluation and identification of intellectual property products.

Finally, the Area of Cardiovascular Diseases places particular emphasis on undergraduate education and, importantly, training for research personnel.

# GROUPS IN AREA 2

2.01. Natural history of heart disease
2.02 Cardiovascular pathophysiology
2.03. Cardiac celular electrophysiology
2.05. Cardiology and heart transplantation in infants
2.06. Blood lipids and cardiovascular risk
2.07. Acute cerebral ischemia. Stroke.
•

# 2.01 Natural history of heart disease

Group Director: **Francisco Fernández Avilés Díaz**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

Basic, translational and clinical research on cardiovascular diseases, in collaboration with clinical groups and institutions, and coordination of CIBER Cardiovascular at a national level.

## Research lines

**Axis 1: Consolidation of research lines in cardiovascular diseases**
L 1: Consolidation of the basic research area
L 2: Leading national and European research projects
L 3: Consolidation of the translational research area of the cardiac cellular electrophysiology area
L 4: Maintenance and consolidation of scientific output
L 5: Diversification of funding sources by consolidating several PIs
**Axis 2: Consolidation of training**
L 1: Increase in the offer for postgraduate training
L 2: Encourage temporary stays for researchers at prestigious laboratories.
**Axis 3: Consolidation of infrastructures**
L 1: Final distribution and equipping of the Bioartificial Organ Laboratory.
**Axis 4: R&D&i**
L 1: Development of a model for evaluating and identifying intellectual property products
L2: Development of spin-off models with hospitals and universities

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ACOSTA | OCAMPO | ALEJANDRA | Other s | Laboratory technician |
| ALONSO | GARCIA | ANDRES | R1 | First Stage Researcher |
| ALCON | DURAN | BLANCA | R1 | First Stage Researcher |
| ALVAREZ | ZABALLOS | SARA | R1 | First Stage Researcher |
| ARENAL | MAÍZ | ÁNGEL | R3 | Established Researcher |
| ATIENZA | FERNÁNDEZ | FELIPE | R3 | Established Researcher |
| AVILA | ALONSO | PABLO | R2 | Recognised Researcher |
| BEJARANO | AROSEMENA | ROBERTO ANDRES | R1 | |
| BENITO | VICENTE | YOLANDA | R1 | First Stage Researcher |
| BERMEJO | THOMAS | JAVIER | R3 | Established Researcher |
| BRUÑA | FERNANDEZ | VANESA | R1 | First Stage Researcher |
| CARTA | BERGAZ | ALEJANDRO | R1 | First Stage Researcher |
| CASTRODEZA | CALVO | JAVIER | R2 | Recognised Researcher |
| CHACON | TOME | CARMEN | Other | Project manager CAM |
| CHAZO | PAZ | CHRISTIAN | R1 | First Stage Researcher |
| CORISCO | BELTRÁN | RAFAEL | R1 | First Stage Researcher |
| CUENCA | PARRA | SOFIA | R2 | Recognised Researcher |
| DATINO | ROMANIEGA | TOMÁS | R3 | Established Researcher |
| DELGADO | MONTERO | ANTONIA | R2 | Recognised Researcher |
| DE LA PAVA | ISAZA | YIRAN SEBASTIAN | R1 | First Stage Researcher |
| DEVESA | CORDERO | CAROLINA | R1 | First Stage Researcher |
| DIEZ | DEL HOYO | FELIPE | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ELIZAGA | CORRALES | JAIME | R3 | Established Researcher |
| ESPINOSA | CASTRO | MARIA ÁNGELES | R2 | Recognised Researcher |
| FERNANDEZ | AVILA | ANA ISABEL | R2 | Recognised Researcher |
| FERNANDEZ | BAZA | ANA MARIA | Other | Research project manager |
| FERNANDEZ | CORDON | CLARA | R1 | First Stage Researcher |
| FERNANDEZ | SANTOS | Mª EUGENIA | R3 | Established Researcher |
| FERNÁNDEZ-AVILES | DIAZ | FRANCISCO JESÚS | R4 | Leading Researcher |
| FERNÁNDEZ-YAÑEZ | GARCÍA-MONGE | JUAN | R2 | Recognised Researcher |
| GABALDON | BADIOLA | ALVARO | R1 | First Stage Researcher |
| GARCIA | CARREÑO | JORGE | R1 | First Stage Researcher |
| GARCIA | DEL REY | Mª DEL CARMEN | R1 | First Stage Researcher |
| GARCIA | DIAZ | ALEJANDRO JOSE | R1 | First Stage Researcher |
| GARCIA | MONTERO | MARTA | R1 | First Stage Researcher |
| GARNACHO | GOMEZ | LUIS JORGE | R1 | First Stage Researcher |
| GOMEZ | CARRILLO | VICTOR | R1 | First Stage Researcher |
| GOMEZ | GONZALEZ | CRISTINA | R1 | First Stage Researcher |
| GÓMEZ | CID | LIDIA | R1 | First Stage Researcher |
| GÓMEZ | SÁNCHEZ | ROBERTO | R1 | First Stage Researcher |
| GONZALEZ | CASAL | DAVID | R1 | First Stage Researcher |
| GONZALEZ | MANSILLA | ANA | R2 | Recognised Researcher |
| GONZALEZ | PINTO | ÁNGEL | R3 | Established Researcher |
| GONZALEZ | SALDIVAR | HUGO ORLANDO | R2 | Recognised Researcher |
| GONZÁLEZ | TORRECILLA | ESTEBAN | R3 | Established Researcher |
| GRIGORIAN | SHAMAGIAN | LILIAN | R2 | Recognised Researcher |
| GUTIÉRREZ | IBAÑES | ENRIQUE | R3 | Established Researcher |
| HERRERA | FLORES | CRISTIAN | R1 | First Stage Researcher |
| HURTADO | MARTIN | MARTA | Other | |
| JUÁREZ | FERNÁNDEZ | MIRIAM | R2 | Recognised Researcher |
| JURADO | ÁLVAREZ | ELENA | R1 | First Stage Researcher |
| LOPEZ | GARCIA | JUAN CARLOS | R1 | First Stage Researcher |
| LORCA | GUTIERREZ | REBECA | R2 | Recognised Researcher |
| LOUGHLIN | RAMIREZ | GERARD ALVARO | R1 | First Stage Researcher |
| LUNA | LOPEZ | RAQUEL | R1 | First Stage Researcher |
| MARTIN | DE MIGUEL | IRENE | R1 | First Stage Researcher |
| MARTIN | MANZANO | VIRGINIA MILAGROS | R1 | First Stage Researcher |
| MARTINEZ | CLIMENT | BATISTE ANDREU | R2 | Recognised Researcher |
| MARTINEZ | SOLANO | JORGE | R1 | First Stage Researcher |
| MARTÍNEZ-SELLES | D'OLIVEIRA SOARES | MANUEL | R3 | Established Researcher |
| MARTINEZ-LEGAZPI | AGUILO | PABLO | R3 | Established Researcher |
| MATARIN | UCLES | FRANCISCO | Other | Research project manager |
| MATEOS | GAITAN | ROBERTO | R1 | First Stage Researcher |
| MENDEZ | FERNANDEZ | IRENE | R2 | Recognised Researcher |
| MOMBIELA | RAMIREZ DE GANUZA | TERESA | R2 | Recognised Researcher |
| MUÑOZ | LOPEZ | IRENE | R1 | First Stage Researcher |
| NAVAS | TEJEDOR | PAULA | R2 | Recognised Researcher |
| OLIVER | RUIZ | JOSE MARIA | R2 | Recognised Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ORTIZ | BAUTISTA | CARLOS | R2 | Recognised Researcher |
| PAREJA | MALAGON | ANA MIRIAM | Other | Laboratory technician |
| PÉREZ | DAVID | ESTHER | R3 | Established Researcher |
| PEREZ DEL VILLAR | MORO | MARIA CANDELAS | R3 | Established Researcher |
| PIÑA | LANCHO | MARIA JESUS | R2 | Recognised Researcher |
| PLASENCIA | MARTIN | VIRGINIA | Other | Laboratory technician |
| POSTIGO | ESTEBAN | ANDREA | R1 | First Stage Researcher |
| PRIETO | AREVALO | RAQUEL | R1 | First Stage Researcher |
| RIVERA | JUAREZ | ALLAN ROBERTO | R2 | Recognised Researcher |
| RÍOS | MUÑOZ | GONZALO RICARDO | R2 | Recognised Researcher |
| RODRIGUEZ | GONZALEZ | ELENA | R2 | Recognised Researcher |
| SANCHEZ | DE LA NAVA | ANA MARIA | R1 | First Stage Researcher |
| SANZ | RUIZ | RICARDO | R3 | Established Researcher |
| SOBRINO | GONZALEZ | OLGA | R1 | First Stage Researcher |
| SORIANO | TRIGUERO | JAVIER | R2 | Recognised Researcher |
| SOUSA | CASANOVAS | IAGO | R2 | Recognised Researcher |
| SOUTO | AGUADO | MYRIAM | | |
| SUAREZ | SANCHO | SUSANA | R1 | First Stage Researcher |
| TAMARGO | DELPÓN | MARIA AMALIA | R1 | First Stage Researcher |
| VALERO | MASA | MARIA JESUS | R2 | Recognised Researcher |
| VAZQUEZ | ALVAREZ | MARIA EUGENIA | R3 | Established Researcher |
| VAZQUEZ | CASTAÑO | ALEXANDRA | R1 | First Stage Researcher |
| VELIZ | TAPIA | SAMUEL ANTONIO | | |
| VICENT | ALAMINOS | MARIA LOURDES | | |
| VILLA | ARRANZ | ADOLFO | R3 | Established Researcher |
| ZATARAIN | NICOLAS | EDUARDO | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

TITLE: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017.
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA. PROGRAMA MARCO
START DATE: 01/03/2019
END DATE: 28/02/2024

TITLE: **Clinical development and proof of principle testing of new regenerative VEGF-D therapy for cost-effective treatment of refractory angina "A phase II randomized, double-blinded, placebo-controlled study"** H2020 ReGenHeart.
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA. PROGRAMA MARCO
START DATE: 01/01/2017
END DATE: 30/06/2021

TITLE: **Secondary Prevention of Cardiovascular Disease in the Elderly Trial (Secure)**. H2020 SECURE
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA.DG.SANCO
START DATE: 06/10/2017
END DATE: 06/10/2022

TITLE: **Artificial intelligence drive platform for atrial fibrillation stratification** EIT HEALTH AF-FINE :

DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: European research project
FUNDING BODY: UNION EUROPEA.
START DATE: 01/07/2019
END DATE: 01/01/2021

TITLE: **CORIFY**: **Solving Cardiac Arrhythmias** CI17/00027
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION LA CAIXA
START DATE: 01/04/2017
END DATE: 30/04/2019

TITLE: **Desarrollo clínico de una terapia celular para reparación cardíaca basada en ingeniería de tejidos** RTC-2016-4911-1
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: MINECO PROYECTO RETOS 2016.
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Implicaciones clinicas y fisiológicas de los flujos intraventriculares en pacientes con insuficiencia cardiaca** DPI2016-75706-P
DIRECTOR: MARTINEZ-LEGAZPI AGUILO, PABLO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 30/12/2016
END DATE: 29/12/2019

TITLE: **Safey and Efficacy of the Intracoronary administration of Allogeneic human Cardiac Stem Cells in Patients with Ischemic Chronic Heart Failure at High Risk for Sudden Cardiac Death (CaSeC-HF)** PIC18/00024
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Guiado en tiempo real de la ablación de la fibrilación auricular mediante cartografia eléctrica global (CORIFY).** DTS16/00160
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Technological development project in health
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudios translacionales para el desarrollo de terapias génicas con telomerasa para el tratamiento del infarto de miocardio y de la fibrosis pulmonar.** DTS17/00091
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Technological development project in health
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Regeneración Cardíaca de Infarto Crónico Porcino mediante inyecciones Intramiocardiacas de Células Progenitoras Embebidas en Hidrogeles de Matriz Decelularizada** PI16/01123
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Disfunción diastólica en el adulto con Tretrálogia de Fallot. Bases Biomecánicas e implicaciones**. PI16/01237
DIRECTOR: PEREZ DEL VILLAR MORO, MARIA CANDELAS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estratificación y tratamiento de la fibrilación auricular basada en los mecanismos de perpetuacion de la arritmia (STRATIFY-AF)** PI17/01059
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/02/2018
END DATE: 31/12/2020

TITLE: **Validación prospectiva de un índice pronóstico de muerte súbita o arritmias ventriculares malignas en adultos con cardiopatías congénitas** PI17/01327
DIRECTOR: DATINO ROMANIEGA, TOMAS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Técnicas avanzadas de procesado de resonancia magnética para caracterizar el sustrato arritmogénico y el riesgo arrítmico en la miocardiopatía dilatada** PI18/01117
DIRECTOR: PÉREZ DAVID, ESTHER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Ablación radial para control de la Fibrilación auricular persistente (Artist Trial)** PI18/01895
DIRECTOR: ARENAL MAÍZ, ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **OCTOPUS-CHF Optical Coherence Tomography Observation of Pulmonary Ultra-Structural Changes in Heart Failure Tomografía de Coherencia óptica observación de los cambios ultra-estructurales pulmonares en insuficiencia** PI18/00254
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardiaca con fracción de eyección preservada del paciente diabético** PI18/01595
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **ITACA-CM. "Investigación Traslacional en arritmias cardíacas hereditarias** S2017/BMD-3738
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018

END DATE: 31/12/2021

TITLE: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE**: IP FIS Contract** IFI15/00113.
DIRECTOR: LOUGHLIN RAMIREZ, GERARD ALVARO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE**: IP FIS Contract** IFI16/00010.
DIRECTOR: DIEZ DEL HOYO, FELIPE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 09/03/2017
END DATE: 31/12/2020

TITLE**: Río Hortega contract** CM18/00134
DIRECTOR: CASTRODEZA CALVO, JAVIER
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 31/01/2019
END DATE: 30/01/2020

## *Industrial and intellectual property registrations*

### *Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Método para visualizar la información contenida en imágenes tridimensionales del corazón** | P201000363 (Familia con 4 patentes) | FIBHGM - Universidad Politécnica de Madrid | Esther Pérez, Ángel Arenal, Javier Bermejo, Francisco Fernández-Avilés, Manuel Desco, Mª Jesús Ledesma, Andrés de Santos, José Luis Rubio |
| **Catéter y método para la detección de actividad eléctrica en un órgano** | P201431315 (Familia con 5 patentes) | FIBHGM – Universidad Politécnica de Valencia – Universidad de Michigan | Andreu Martínez, Felipe Atienza, Miguel Rodrigo, Mª Salud Guillem, Omer Berenfeld |
| **Dispositivo de localización de arritmias cardiacas** | P201431597 (Familia con 4 patentes) | FIBHGM - Universidad Politécnica de Valencia | Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, Mª Salud Guillem |
| **Mapping and quantifying blood statis and thrombus risk in the heart** | US 62259494 (Familia con 3 patentes) | FIBHGM – University of California | Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez-Legazpi, Raquel Yotti |
| **Sistema y método para la detección automática de patrones electrofisiológicos anómalos** | P201731161 (Familia con 2 patentes) | FIBHGM - UC3M | Ángel Arenal, Francisco Fernández Avilés, Gonzalo Ricardo Ríos, Antonio Artés |

| | |
|---|---|
| | Transferred patents |

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|

| | | |
|---|---|---|
| CIBER | CIBERCV. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares. CB16/11/00292 | Coordinating group |
| RETICS | Red de Terapia Celular (Ter CEL) RD16/0011/0029 | Collaborating group |
| Others | Red de Formación Interdisciplinaria en Regeneración Cardiaca (EUIN2017-88719) | Collaborating group |



## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | **Ana Casado Plasencia** | Evaluación de la seguridad y eficacia de la infusión intracoronaria de células madre residentes cardiacas en pacientes con infarto agudo de miocardio y disfunción ventricular | Francisco Jesús Fernández-Aviles Diaz<br>Ricardo Sanz Ruiz | UCM | 19/12/2019 |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Fernández Baza, Ana / Fernandez-Aviles Diaz, Francisco / Fernandez Santos, Maria Eugenia / Martinez Climent, Batiste Andreu / Sanz Ruiz, Ricardo | **Call to action from the cardiovascular reparative medicine community.** | CARDIOPULSE |
| Fernandez-Aviles Diaz, Francisco / Zatarain Nicolas, Eduardo | **Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations Abordaje de la fibrilación auricular en pacientes con cáncer activo. Documento de consenso de expertos y recomendaciones** | REVISTA ESPAÑOLA DE CARDIOLOGÍA |
| Fernandez-Aviles Diaz, Francisco | **Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine** | CIRCULATION RESEARCH |
| Fernandez-Aviles Diaz, Francisco / Sanz Ruiz, Ricardo | **ESC working group on cellular biology of the heart: Position paper for Cardiovascular Research: Tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure** | EUROPEAN HEART JOURNAL |

## *Publications* *Total Impact Factor: **502.9***

| | Nº | FI |
|---|---|---|
| Own publications | 48 | 235,5 |
| Joint publications | 49 | 267,3 |
| First decile publications | 16 | 229,1 |
| First quartile publications | 53 | 399,1 |
| Second quartile publications | 20 | 64,0 |
| Third quartile publications | 17 | 31,3 |
| Fourth quartile publications | 7 | 8,4 |
| Nonindexed publications / No IF | 13 | - |
| **Total publications (including those without IF)** | **110** | **502,9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

*Gual, M; Formiga, F; Ariza-Sole, A; Lopez-Palop, R; Sanchis, J; Marin, F; Vidan, MT; Martinez-Selles, M; Sionis, A; Sanchez-Salado, JC; Lorente, V; Diez-Villanueva, P; Vives-Borras, M; Cordero, A; Bueno, H; Alegre, O; Abu-Assi, E; Cequier, A; LONGEVO-SCA Registry Investigators. Diabetes mellitus, frailty and prognosis in very elderly patients with acute coronary syndromes. AGING CLINICAL AND EXPERIMENTAL RESEARCH. 2019; 31(11) 1635-1643. FI: 2.697. Cuartil: 3. (Article).*

*Llao I; Formiga F; Ariza Sole A; Cruzado JM; Sanchis J; Rama I; Martinez-Selles M; Garay A; Guerrero C; Diez-Villanueva P; Alegre O; Abu-Assi E; Cequier A; LONGEVO-SCA registry investigators. Frequency of Renal Dysfunction and Frailty in Patients >= 80 Years of Age With Acute Coronary Syndromes. AMERICAN JOURNAL OF CARDIOLOGY. 2019; 123(12) 2039-2043. FI: 2.57. Cuartil: 2. (Article).*

*Martin-Demiguel, I; Nunez-Gil, IJ; Perez-Castellanos, A; Vedia, O; Uribarri, A; Duran-Cambra, A; Martin-Garcia, A; Corbi-Pascual, M; Marzo, MG; Martinez-Selles, M. Prevalence and Significance of Interatrial Block in Takotsubo Syndrome (from the RETAKO Registry). AMERICAN JOURNAL OF CARDIOLOGY. 2019; 123(5) 729-735. FI: 2.57. Cuartil: 2. (Article).*

*Vu, V; Rossini, L; Montes, R; Campos, J; Moon, J; Martinez-Legazpi, P; Bermejo, J; del Alamo, JC; May-Newman, K. Mitral Valve Prosthesis Design Affects Hemodynamic Stasis and Shear In The Dilated Left Ventricle. ANNALS OF BIOMEDICAL ENGINEERING. 2019; 47(5) 1265-1280. FI: 3.324. Cuartil: 2. (Article).*

*Alexander, B; Milden, J; Hazim, B; Haseeb, S; Bayes-Genis, A; Elosua, R; Mart?nez-Sell?s, M; Yeung, C; Hopman, W; de Luna, AB; Baranchuk, A. New electrocardiographic score for the prediction of atrial fibrillation: The MVP ECG risk score (morphology-voltage-P-wave duration). ANNALS OF NONINVASIVE ELECTROCARDIOLOGY. 2019; 24(6) -. FI: 1.131. Cuartil: 4. (Article).*

*Munoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; Lopez-Roa, P; Juarez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernandez-Aviles, F; Martinez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 142(2) 109-115. FI: 1.791. Cuartil: 3. (Article).*

*Vicent, L; Ariza-Sole, A; Diez-Villanueva, P; Alegre, O; Sanchis, J; Lopez-Palop, R; Formiga, F; Gonzalez-Salvado, V; Bueno, H; Marin, F; Llibre, C; Llao, I; Vidan, MT; Abu-Assi, E; Aboal, J; Martinez-Selles, M. Statin Treatment and Prognosis of Elderly Patients Discharged after Non-ST Segment Elevation Acute Coronary Syndrome. CARDIOLOGY. 2019; 142(2) 73-78. FI: 1.791. Cuartil: 3. (Article).*

*Vicent, L; Juarez, M; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Fernandez-Aviles, F; Martinez-Selles, M. Clinical Profile and Ventricular Arrhythmias after Sacubitril/Valsartan Initiation<bold> </bold>. CARDIOLOGY. 2019; 142(2) 67-72. FI: 1.791. Cuartil: 3. (Article).*

*Vicent, L; Martinez-Selles, M. Can Sacubitril/Valsartan Have a Proarrhythmic Effect in Some High-Risk Patients?. CARDIOLOGY. 2019; 143(1-2) 14-21. FI: 1.791. Cuartil: 3. (Article).*

*Vicent, L; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. Seasonality in Mortality in a Cardiology Department: A Five-Year Analysis in 500 Patients. CARDIOLOGY. 2019; 143(1-2) 34-35. FI: 1.791. Cuartil: 3. (Letter).*

*Vicent, L; Ayesta, A; Esteban-Fernandez, A; Gomez-Bueno, M; De-Juan, J; Diez-Villanueva, P; Iniesta, AM; Rojas-Gonzalez, A; Bover-Freire, R; Iglesias, D; Garcia-Aguado, M; Perea-Egido, JA; Martinez-Selles, M. Sex Influence on the Efficacy and Safety of Sacubitril/Valsartan. CARDIOLOGY. 2019; 142(1) 26-27. FI: 1.791. Cuartil: 3. (Letter).*

*Bruna, V; Velasquez-Rodriguez, J; Valero-Masa, MJ; Perez-Guillem, B; Vicent, L; Diez-Delhoyo, F; Devesa, C; Sousa-Casasnovas, I; Juarez, M; de Luna, AB; Bayes-Genis, A; Baranchuk, A; Fernandez-Aviles, F; Martiez-Selles, M. Prognostic of Interatrial Block after an Acute ST-Segment Elevation Myocardial Infarction. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).*

*Madonna, R; Van Laake, LW; Botker, HE; Davidson, SM; De Caterina, R; Engel, FB; Eschenhagen, T; Fernandez-Aviles, F; Hausenloy, DJ; Hulot, JS; Lecour, S; Leor, J; Menasche, P; Pesce, M; Perrino, C; Prunier, F; Van Linthout, S; Ytrehus, K; Zimmermann, WH; Ferdinandy, P; Sluijter, JPG. ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. CARDIOVASCULAR RESEARCH. 2019; 115(3) 488-500. FI: 8.168. Cuartil: 1. (Review).*

*Atienza, F; Marquez, MF; Sanchez-Quintana, D. Letter by Atienza et al Regarding Article, "Autopsy as a Source of Discovery in Cardiovascular Medicine: Then and Now". CIRCULATION. 2019; 139(4) 566-567. FI: 23.603. Cuartil: 1. (Letter).*

*Shamagian, LG; Madonna, R; Taylor, D; Climent, AM; Prosper, F; Bras-Rosario, L; Bayes-Genis, A; Ferdinandy, P; Fernandez-Aviles, F; Belmonte, JCI; Fuster, V; Bolli, R. Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine. CIRCULATION RESEARCH. 2019; 124(6) 938-951. FI: 14.467. Cuartil: 1. (Review).*

*Leef, G; Shenasa, F; Bhatia, NK; Rogers, AJ; Sauer, W; Miller, JM; Swerdlow, M; Tamboli, M; Alhusseini, MI; Armenia, E; Baykaner, T; Brachmann, J; Turakhia, MP; Atienza, F; Rappel, WJ; Wang, PJ; Narayan, SM. Wavefront Field Mapping Reveals a Physiologic Network Between Drivers Where Ablation Terminates Atrial Fibrillation. CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY. 2019; 12(8) -. FI: 4.393. Cuartil: 1. (Article).*

*Diez-Delhoyo, F; Gutierrez-Ibanes, E; Sanz-Ruiz, R; Vazquez-Alvarez, ME; Saldivar, HG; Juarez, AR; Sarnago, F; Martinez-Selles, M; Bermejo, J; Soriano, J; Elizaga, J; Fernandez-Aviles, F. Prevalence of Microvascular and Endothelial Dysfunction in the Nonculprit Territory in Patients With Acute Myocardial Infarction The FISIOIAM Study. CIRCULATION-CARDIOVASCULAR INTERVENTIONS. 2019; 12(2) -. FI: 5.493. Cuartil: 1. (Article).*

*Regueiro, A; Linke, A; Latib, A; Ihlemann, N; Urena, M; Walther, T; Husser, O; Herrmann, HC; Nombela-Franco, L; Cheema, A; Le Breton, H; Stortecky, S; Kapadia, S; Bartorelli, AL; Sinning, JM; Amat-Santos, I; Munoz-Garcia, AJ; Lerakis, S; Gutierrez-Ibanes, E; Abdel-Wahab, M; Tchetche, D; Testa, L; Eltchaninoff, H; Livi, U; Castillo, JC; Jilaihawi, H; Webb, JG; Barbanti, M; Kodali, S; de Brito, FS; Ribeiro, HB; Miceli, A; Fiorina, C; Dato, GMA; Rosato, F; Serra, V; Masson, JB; Wijeysundera, HC; Mangione, JA; Ferreira, MC; Lima, VC; Carvalho, LA; Abizaid, A; Marino, MA; Esteves, V; Andrea, JCM; Messika-Zeitoun, D; Himbert, D; Kim, WK; Pellegrini, C; Auffret, V; Nietlispach, F; Pilgrim, T; Durand, E; Lisko, J; Makkar, RR; Lemos, P; Leon, MB; Puri, R; San Roman, A; Vahanian, A; Sondergaard, L; Mangner, N; Rodes-Cabau, J. Infective Endocarditis Following Transcatheter Aortic Valve Replacement Comparison of Balloon- Versus Self-Expandable Valves. CIRCULATION-CARDIOVASCULAR INTERVENTIONS. 2019; 12(11) -. FI: 5.493. Cuartil: 1. (Article).*

*Ahrens, I; Averkov, O; Zuniga, EC; Fong, AYY; Alhabib, KF; Halvorsen, S; Kader, MABSKA; Sanz-Ruiz, R; Welsh, R; Yan, HB; Aylward, P. Invasive and antiplatelet treatment of patients with non-ST-segment elevation myocardial infarction: Understanding and addressing the global risk-treatment paradox. CLINICAL CARDIOLOGY. 2019; 42(10) 1028-1040. FI: 2.248. Cuartil: 3. (Review).*

*Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

*Ayesta, A; Urrutia, G; Madrid, E; Vernooij, RWM; Vicent, L; Martinez-Selles, M. Sex-mismatch influence on survival after heart transplantation: A systematic review and meta-analysis of observational studies. CLINICAL TRANSPLANTATION. 2019; 33(12) -. FI: 1.665. Cuartil: 3. (Article).*

*Crespo-Leiro, MG; L?pez-Vilella, R; Granados, AL; Mirabet-P?rez, S; D?ez-L?pez, C; Barge-Caballero, E; Segovia-Cubero, J; Gonz?lez-Vilchez, F; Rangel-Sousa, D; Blasco-Peir?, T; de la Fuente-Gal?n, L; D?az-Molina, B; Zatarain-Nicol?s, E; Avalos, FC; Almenar-Bonet, L. Use of Idarucizumab to reverse the anticoagulant effect of dabigatran in cardiac transplant surgery. A multicentric experience in Spain. CLINICAL TRANSPLANTATION. 2019; 33(12) -. FI: 1.665. Cuartil: 3. (Review).*

*Liberos, A; Rodrigo, M; Hernandez-Romero, I; Quesada, A; Fernandez-Aviles, F; Atienza, F; Climent, AM; Guillem, MS. Phase singularity point tracking for the identification of typical and atypical flutter patients: A clinical-computational study. COMPUTERS IN BIOLOGY AND MEDICINE. 2019; 104 319-328. FI: 3.434. Cuartil: 1. (Article).*

*Sanchez-Guijo, Fermin; Garcia-Olmo, Damian; Prosper, Felipe; Martinez, Salvador; Zapata, Agustin; Fernandez-Aviles, Francisco; Toledo-Aral, Juan Jose; Torres, Miguel; Farinas, Isabel; Badimon, Lina; Labandeira-Garcia, Jose Luis; Garcia-Sancho, Javier; Moraleda, Jose M; TerCel. Spanish Cell Therapy Network (TerCel): 15 years of successful collaborative translational research. CYTOTHERAPY. 2019; 22(1) 1-5. FI: 4.218. Cuartil: 1. (Article).*

*Lorente, V; Ariza-Sole, A; Jacob, J; Formiga, F; Marin, F; Martinez-Selles, M; Viana-Tejedor, A; Bardaji, A; Sionis, A; Palau-Vendrell, A; Diez-Villanueva, P; Aboal, J; Gonzalez-Salvado, V; Bueno, H; Representacion Investigadores Reg. Criteria for admitting elderly patients with acute coronary syndrome to critical care units from Spanish hospital emergency departments: a LONGEVO-SCA cohort study. EMERGENCIAS. 2019; 31(3) 154-160. FI: 3.173. Cuartil: 1. (Article).*

*Lopez-Azor, JC; Vicent, L; Valero-Masa, MJ; Esteban-Fernandez, A; Gomez-Bueno, M; Perez, A; Diez-Villanueva, P; De-Juan, J; Manuel-Iniesta, A; Bover, R; del Prado, S; Martinez-Selles, M. Safety of sacubitril/valsartan initiated during hospitalization: data from a non-selected cohort. ESC HEART FAILURE. 2019; 6(6) 1161-1166. FI: 3.902. Cuartil: 2. (Article).*

*Garcia-Niebla, J; Lacalzada-Almeida, J; Diaz-Munoz, J; Barragan-Acea, A; Baranchuk, A; Martinez-Selles, M. Interatrial block and takotsubo syndrome. EUROPACE. 2019; 21(11) 1755-1755. FI: 4.045. Cuartil: 2. (Letter).*

*Postigo, A; Datino, T; Espinosa, MA; Fernandez-Aviles, F; Arenal, A. Epicardial ablation for ventricular tachycardia in Freidreich's ataxia cardiomyopathy. EUROPACE. 2019; 21(7) -. FI: 4.045. Cuartil: 2. (Editorial Material).*

*Lacunza-Ruiz, FJ; Moya-Mitjans, A; Martinez-Alday, J; Baron-Esquivias, G; Ruiz-Granell, R; Garcia-Alberola, A; Garcia-Bolao, I; Arias, MA; Ripoll-Vera, T; Beiras, X; Arribas, F; Lopez-Gil, M; Sotillo, J; Ruiz-Granell, R; Villacastin, J; Ruiz-Mateas, F; Martinez-Alday, J; Arcocha, MF; Telleria, R; Curcio, A; Fidalgo, M; Tejada-Ruiz, J; Alonso, JMME; Martinez-Sande, JL; Lechuga, I; Garcia-Medin, MD; Andrade, F; Marti, J; Orosa, P; Lawers, C; Sacristan, JFG; Navarro, A; Benezet, J; Garcia, J; Martin, J; Atienza, F; Perez, L; Barba-Pichardo, R; Gonzalez, S; Toquero, J; Cano, L; Hernandez-Madrid, A; Herreros, B; Munoz, JF; Murillo, JML; Rodriguez, A; Pastor, A; Garcia-Guerrero, JJ; Merino-Llorens, JL; Moya, A; Garcia-Alberola, A; Ruiz, FJL; Diaz, E; Alzueta, J; Arana, E; Spanish Reveal Registry. Diagnostic yield of the implantable loop recorder in octogenarians. EUROPEAN GERIATRIC MEDICINE. 2019; 10(1) 129-133. FI: 1.232. Cuartil: 4. (Article).*

*Flores, CH; Ortiz-Bautista, C; Calvo, JC; Fernandez-Aviles, F. When winter comes with all itsmight, so does the fright. EUROPEAN HEART JOURNAL. 2019; 40(32) 2740-2740. FI: 22.673. Cuartil: 1. (Editorial Material).*

*Sanz-Ruiz, R; Climent, AM; Fernandez-Santos, ME; Fernandez-Baza, A; Fernandez-Aviles, F. Call to action from the cardiovascular reparative medicine community. EUROPEAN HEART JOURNAL. 2019; 40(32) 2661-2662. FI: 22.673. Cuartil: 1. (Editorial Material).*

*Fosbol, EL; Park, LP; Rizk, H; Clara, L; Sanchez, M; Casabe, JP; Nacinovich, F; Oses, PF; Ronderos, R; Sucari, A; Thierer, J; Altclas, J; Kogan, S; Spelman, D; Athan, E; Harris, O; Kennedy, K; Tan, R; Gordon, D; Papanicolas, L; Korman, T; Kotsanas, D; Dever, R; Konecny, P; Lawrence, R; Rees, D; Feneley, MP; Harkness, J; Jones, P; Post, J; Reinbott, P; Ryan, S; Gattringer, R; Wiesbauer, F; Andrade, AR; de Brito, ACP; Guimaraes, AC; Grinberg, M; Mansur, AJ; Siciliano, RF; Strabelli, TMV; Vieira, MLC; Tranchesi, RAD; Paiva, MG; Fortes, CQ; Ramos, AD; Weksler, C; Ferraiuoli, G; Golebiovski, W; Lamas, C; Karlowsky, CJA; Keynan, Y; Morris, AM; Jones, SB; Garcia, P; Cereceda, M; Fica, A; Mella, RM; Fernandez, R; Franco, L; Gonzalez, J; Jaramillo, AN; Barsic, B; Bukovski, S; Krajinovic, V; Pangercic, A; Rudez, I; Vincelj, J; Freiberger, T; Pol, J; Zaloudikova, B; Ashour, Z; El Kholy, A; Mishaal, M; Osama, D; Rizk, H; Aissa, N; Alauzet, C; Alla, F; Campagnac, C; Doco-Lecompte, T; Selton-Suty, C; Casalta, JP; Fournier, PE; Habib, G; Raoult, D; Thuny, F; Delahaye, F; Delahaye, A; Vandenesch, F; Donal, E; Donnio, PY; Flecher, E; Michelet, C; Revest, M; Tattevin, P; Chevalier, F; Jeu, A; Remadi, JP; Rusinaru, D; Tribouilloy, C; Bernard, Y; Chirouze, C; Hoen, B; Leroy, J; Plesiat, P; Neuerburg, C; Mazaheri, B; Naber, C; Athanasia, S; Deliolanis, I; Giamarellou, H; Thomas, T; Giannitsioti, E; Papanicolaou, K; Mylona, E; Paniara, O; Papanikolaou, K; Pyros, J; Skoutelis, A; Sharma, G; Francis, J; Nair, L; Thomas, V; Venugopal, K; Hannan, MM; Hurley, JP; Cahan, A; Gilon, D; Israel, S; Korem, M; Rubinstein, E; Strahilevitz, J; Durante-Mangoni, E; Mattucci, I; Pinto, D; Agrusta, F; Senese, A; Ragone, E; Utili, R; Cecchi, E; De Rosa, F; Forno, D; Imazio, M; Trinchero, R; Grossi, P; Lattanzio, M; Toniolo, A; Goglio, A; Raglio, A; Ravasio, V; Rizzi, M; Suter, F; Carosi, G; Magri, S; Signorini, L; Kanafani, Z; Kanj, SS; Sharif-Yakan, A; Abidin, I; Tamin, SS; Martinez, ER; Nieto, GIS; van der Meer, JTM; Chambers, S; Holland, D; Morris, A; Raymond, N; Read, K; Murdoch, DR; Dragulescu, S; Ionac, A; Mornos, C; Butkevich, OM; Chipigina, N; Kirill, O; Vadim, K; Vinogradova, T; Edathodu, J; Halim, M; Liew, YY; Tan, RS; Lejko-Zupanc, T; Logar, M; Mueller-Premru, M; Commerford, P; Commerford, A; Deetlefs, E; Hansa, C; Ntsekhe, M; Almela, M; Armero, Y; Azqueta, M; Castaneda, X; Cervera, C; Falces, C; de-la-Maria, CG; Fita, G; Gatell, JM; Heras, M; Llopis, J; Marco, F; Mestres, CA; Miro, JM; Moreno, A; Ninot, S; Pare, C; Pericas, JM; Ramirez, J; Rovira, I; Sitges, M; Anguera, I; Font, B; Guma, JR; Bermejo, J; Bouza, E; Fernandez, MAG; Gonzalez-Ramallo, V; Marin, M; Munoz, P; Pedromingo, M; Roda, J; Rodriguez-Creixems, M; Solis, J; Almirante, B; Fernandez-Hidalgo, N; Tornos, P; de Alarcon, A; Parra, R; Alestig, E; Johansson, M; Olaison, L; Snygg-Martin, U; Pachirat, O; Pachirat, P; Pussadhamma, B; Senthong, V; Casey, A; Elliott, T; Lambert, P; Watkin, R; Eyton, C; Klein, JL; Bradley, S; Kauffman, C; Bedimo, R; Chu, VH; Corey, GR; Crowley, AL; Douglas, P; Drew, L; Fowler, VG; Holland, T; Lalani, T; Mudrick, D; Samad, Z; Sexton, D; Stryjewski, M; Wang, A; Woods, CW; Lerakis, S; Cantey, R; Steed, L; Wray, D; Dickerman, SA; Bonilla, H; DiPersio, J; Salstrom, SJ; Baddley, J; Patel, M; Peterson, G; Stancoven, A; Levine, D; Riddle, J; Rybak, M; ICE-PLUS Investigators. The association between vegetation size and surgical treatment on 6-month mortality in left-sided infective endocarditis. EUROPEAN HEART JOURNAL. 2019; 40(27) 2243-2251. FI: 22.673. Cuartil: 1. (Article).*

*Yoon, SH; Whisenant, BK; Bleiziffer, S; Delgado, V; Dhoble, A; Schofer, N; Eschenbach, L; Bansal, E; Murdoch, DJ; Ancona, M; Schmidt, T; Yzeiraj, E; Vincent, F; Niikura, H; Kim, WK; Asami, M; Unbehaun, A; Hirji, S; Fujita, B; Silaschi, M; Tang, GHL; Kuwata, S; Wong, SC; Frangieh, AH; Barker, CM; Davies, JE; Lauten, A; Deuschl, F; Nombela-Franco, L; Rampat, R; Nicz, PFG; Masson, JB; Wijeysundera, HC; Sievert, H; Blackman, DJ; Gutierrez-Ibanes, E; Sugiyama, D; Chakravarty, T; Hildick-Smith, D; de Brito, FS; Jensen, C; Jung, C; Smalling, R; Arnold, M; Redwood, S; Kasel, AM; Maisano, F; Treede, H; Ensminger, SM; Kar, S; Kaneko, T; Pilgrim, T; Sorajja, P; Van Belle, E; Prendergast, BD; Bapat, V; Modine, T; Schofer, J; Frerker, C; Kempfert, J; Attizzani, GF; Latib, A; Schaefer, U; Webb, JG; Bax, JJ; Makkar, RR. Outcomes of transcatheter mitral valve replacement for degenerated bioprostheses, failed annuloplasty rings, and mitral annular calcification. EUROPEAN HEART JOURNAL. 2019; 40(5) 441-451. FI: 22.673. Cuartil: 1. (Article).*

*Vicent, L; Ariza-Sole, A; Alegre, O; Sanchis, J; Lopez-Palop, R; Formiga, F; Gonzalez-Salvados, V; Bueno, H; Vidan, MT; Diez-Villanueva, P; Abu-assi, E; Martinez-Selles, M. Octogenarian women with acute coronary syndrome present frailty and readmissions more frequently than men. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(3) 242-251. FI: 3.813. Cuartil: 2. (Article).*

*Perez-Castellanos, A; Atienza, F; Bueno, H; Sousa, L; Fernandez-Aviles, F. Tako-tsubo cardiomyopathy triggered by multiple shocks in electrical storm. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(3) 252-263. FI: 3.813. Cuartil: 2. (Article).*

*Ariza-Sole, A; Alegre, O; Elola, FJ; Fernandez, C; Formiga, F; Martinez-Selles, M; Bernal, JL; Segura, JV; Iniguez, A; Bertomeu, V; Salazar-Mendiguchia, J; Salado, JCS; Lorente, V; Cequier, A. Management of myocardial infarction in the elderly. Insights from Spanish Minimum Basic Data Set. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(8) 771-774. FI: 3.813. Cuartil: 2. (Article).*

*Vidan, MT; Sanchez, FJM; Sanchez, E; Ortiz, FJ; Serra-Rexach, JA; Martinez-Selles, M; Bueno, H. Most elderly patients hospitalized for heart failure lack the abilities needed to perform the tasks required for self-care: impact on outcomes. EUROPEAN JOURNAL OF HEART FAILURE. 2019; 21(11) 1434-1442. FI: 11.627. Cuartil: 1. (Article).*

*Arminanzas, C; Farinas-Alvarez, C; Zarauza, J; Munoz, P; Ramallo, VG; Selles, MM; Meda, JMM; Pericas, JM; Goenaga, MA; Burgos, GO; Alvarez, RR; Corral, LC; Galvez-Acebal, J; Marcos, FJM; Farinas, MC; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Amado, C; Castillo, CA; Garcia, AA; Belaustegui, MC; Izquierdo, RG; Garcia, I; Gonzalez-Rico, C; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Sarralde, A; Teira, R; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Role of age and comorbidities in mortality of patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 63-71. FI: 4.329. Cuartil: 1. (Article).*

*Sanchis, J; Soler, M; Nunez, J; Ruiz, V; Bonanad, C; Formiga, F; Valero, E; Martinez-Selles, M; Marin, F; Ruescas, A; Garcia-Blas, S; Minana, G; Abu-Assi, E; Bueno, H; Ariza-Sole, A. Comorbidity assessment for mortality risk stratification in elderly patients with acute coronary syndrome. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 62 48-53. FI: 4.329. Cuartil: 1. (Article).*

*Martinez-Selles, M. Pregnancy and cardiovascular risk. EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY. 2019; 26(10) 1118-1118. FI: 5.864. Cuartil: 1. (Letter).*

*Benito, Y; Martinez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodriguez-Perez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).*

*Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas,*

*FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

*Martinez-Selles, M; Bayes-Genis, A. Asymptomatic severe aortic stenosis: biomarkers are welcome. HEART. 2019; 106(2) 154-162. FI: 5.213. Cuartil: 1. (Article).*

*Gallego, P; Oliver, JM. CONGENITAL HEART DISEASE IN ADULT PATIENTS Medical therapy for heart failure in adult congenital heart disease: does it work?. HEART. 2019; 105(12) 911-. FI: 5.213. Cuartil: 1. (Article).*

*Galian-Gay, L; Hevia, AC; Teixido-Tura, G; Palomares, JR; Gutierrez-Moreno, L; Maldonado, G; Gonzalez-Alujas, MT; Sao-Aviles, A; Gallego, P; Calvo-Iglesias, F; Bermejo, J; Robledo-Carmona, J; Sanchez, V; Saura, D; Sevilla, T; Burillo-Sanz, S; Guala, A; Garcia-Dorado, D; Evangelista, A; BICUSPID Investigators. Familial clustering of bicuspid aortic valve and its relationship with aortic dilation in first-degree relatives. HEART. 2019; 105(8) 603-608. FI: 5.213. Cuartil: 1. (Article).*

*Gonzalez-Mansilla, A; Martinez-Legazpi, P; Prieto, A; Goma, E; Haurigot, P; del Villar, CP; Cuadrado, V; Delgado-Montero, A; Prieto, R; Mombiela, T; Perez-David, E; Gonzalez, ER; Benito, Y; Yotti, R; Perez-Vallina, M; Fernandez-Aviles, F; Bermejo, J. Valve area and the risk of overestimating aortic stenosis. HEART. 2019; 105(5) 355-356. FI: 5.213. Cuartil: 1. (Editorial Material).*

*Luengo, D; Rios-Munoz, G; Elvira, V; Sanchez, C; Artes-Rodriguez, A. Hierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2019; 23(1) 143-155. FI: 5.223. Cuartil: 1. (Article).*

*Barge-Caballero, G; Castel-Lavilla, MA; Almenar-Bonet, L; Garrido-Bravo, IP; Delgado, JF; Rangel-Sousa, D; Gonzalez-Costello, J; Segovia-Cubero, J; Farrero-Torres, M; Lambert-Rodriguez, JL; Crespo-Leiro, MG; Hervas-Sotomayor, D; Portoles-Ocampo, A; Martinez-Selles, M; De La Fuente-Galan, L; Rabago-Juan-Aracil, G; Gonzalez-Vilchez, F; Mirabet-Perez, S; Muniz, J; Barge-Caballero, E. Venoarterial extracorporeal membrane oxygenation with or without simultaneous intra-aortic balloon pump support as a direct bridge to heart transplantation: results from a nationwide Spanish registry. INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY. 2019; 29(6) 967-968. FI: 1.675. Cuartil: 3. (Editorial Material).*

*Diaz, DM; Caballero, GC; Ortiz, AI; Pinto, AG. Inflammatory myofibroblastic tumour in the right ventricle of a 66-year-old man. INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY. 2019; 29(5) 670-677. FI: 1.675. Cuartil: 3. (Article).*

*Vicent, L; Cinca, J; Vazquez-Garcia, R; Gonzalez-Juanatey, JR; Rivera, M; Segovia, J; Pascual-Figal, D; Bover, R; Worner, F; Delgado-Jimenez, J; Fernandez-Aviles, F; Martinez-Selles, M. Discharge treatment with angiotensin-converting enzyme inhibitor/angiotensin receptor blocker after a heart failure hospitalisation is associated with a better prognosis irrespective of left ventricular ejection fraction. INTERNAL MEDICINE JOURNAL. 2019; 49(12) 1505-1513. FI: 1.677. Cuartil: 3. (Article).*

*Galar, A; Munoz, P; Valerio, M; Cercenado, E; Garcia-Gonzalez, X; Burillo, A; Sanchez-Somolinos, M; Juarez, M; Verde, E; Bouza, E. Current use of daptomycin and systematic therapeutic drug monitoring: Clinical experience in a tertiary care institution. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(1) 40-48. FI: 4.621. Cuartil: 1. (Article).*

*Briongos-Figuero, S; Estevez, A; Perez, ML; Martinez-Ferrer, JB; Garcia, E; Vinolas, X; Arenal, A; Alzueta, J; Basterra, N; Rodriguez, A; Lozano, I; Munoz-Aguilera, R. Survival and arrhythmic risk among ischemic and non-ischemic heart failure patients with prophylactic implantable cardioverter defibrillator only therapy: A propensity score-matched analysis. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

*Martinez-Selles, M; Lucia, A. Exercise and heart. In medium virtus est?. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 274 163-169. FI: 3.229. Cuartil: 2. (Article).*

*Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria,*

*CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 286 143-144. FI: 3.229. Cuartil: 2. (Editorial Material).*

*Fernandez, AI; Yotti, R; Gonzalez-Mansilla, A; Mombiela, T; Gutierrez-Ibanes, E; del Villar, CP; Navas-Tejedor, P; Chazo, C; Martinez-Legazpi, P; Fernandez-Aviles, F; Bermejo, J. The Biological Bases of Group 2 Pulmonary Hypertension. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(23) -. FI: 4.556. Cuartil: 1. (Review).*

*Vlastra, W; Chandrasekhar, J; Vendrik, J; Gutierrez-Ibanes, E; Tchetche, D; de Brito, FS; Barbanti, M; Kornowski, R; Latib, A; D'Onofrio, A; Ribichini, F; Baan, J; Tijssen, JGP; Pan, M; Dumonteil, N; Mangione, JA; Sartori, S; D'Errigo, P; Tarantini, G; Lunardi, M; Orvin, K; Pagnesi, M; Gila, JS; Modine, T; Dangas, G; Mehran, R; Piek, JJ; Delewi, R. Transfemoral TAVR in Nonagenarians From the CENTER Collaboration. JACC-CARDIOVASCULAR INTERVENTIONS. 2019; 12(10) 911-920. FI: 8.432. Cuartil: 1. (Article).*

*Chamandi, C; Barbanti, M; Munoz-Garcia, A; Latib, A; Nombela-Franco, L; Gutierrez-Ibanez, E; Veiga-Fernandez, G; Cheema, AN; Cruz-Gonzalez, I; Serra, V; Tamburino, C; Mangieri, A; Colombo, A; Jimenez-Quevedo, P; Elizaga, J; Lee, DH; del Blanco, BG; Puri, R; Cote, M; Philippon, F; Rodes-Cabau, J. Long-Term Outcomes in Patients With New-Onset Persistent Left Bundle Branch Block Following TAVR. JACC-CARDIOVASCULAR INTERVENTIONS. 2019; 12(12) 1175-1184. FI: 8.432. Cuartil: 1. (Article).*

*Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

*Irabien, A; Gil-Jaurena, JM; Pita, A; Perez-Caballero, R; Gonzalez-Pinto, A. Double-barrel endocarditis. JOURNAL OF CARDIAC SURGERY. 2019; 34(10) 1100-1102. FI: 1.49. Cuartil: 3. (Editorial Material).*

*Vicent, L; Esteban-Fernandez, A; Gomez-Bueno, M; De-Juan, J; Diez-Villanueva, P; Iniesta, AM; Ayesta, A; Gonzalez-Saldivar, H; Rojas-Gonzalez, A; Bover-Freire, R; Iglesias, D; Garcia-Aguado, M; Perea-Egido, JA; Martinez-Selles, M. Sacubitril/Valsartan in Daily Clinical Practice: Data From a Prospective Registry. JOURNAL OF CARDIOVASCULAR PHARMACOLOGY. 2019; 73(2) 118-124. FI: 2.598. Cuartil: 2. (Article).*

*Vicent, L; Martinez-Selles, H; Lucia, A; Emanuele, E; Fernandez-Aviles, F; Martinez-Selles, M. Interleukin-1 Receptor-Like 1 (IL1R1) Levels Are Not Increased in Healthy Centenarians. JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH. 2019; 12(3) 268-269. FI: 3.312. Cuartil: 2. (Letter).*

*Martinez-Selles, M; Escobar-Robledo, LA; Bernal, E; Nombela, L; Ayesta, A; Gomez-Doblas, JJ; Lopez-Otero, D; Gonzalez-Saldivar, H; Fernandez-Cordon, C; Bayes-de-Luna, A; Ariza-Sole, A. Rational and design of the Baseline Interatrial block and Transcatheter aortic valve implantation (BIT) registry. JOURNAL OF ELECTROCARDIOLOGY. 2019; 57 100-103. FI: 0.944. Cuartil: 4. (Article).*

*Vicent, L; Bruna, V; Devesa, C; Garcia-Carreno, J; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. An overview of end-of-life issues in a cardiology department. Is the mode of death worse in the cardiac intensive care unit?. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(6) 482-489. FI: 2.491. Cuartil: 2. (Article).*

*Vicent, L; Martinez-Selles, M. Frailty and acute coronary syndrome: does gender matter?. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(2) 138-144. FI: 2.491. Cuartil: 2. (Review).*

*Vives-Borras, M; Martinez-Selles, M; Ariza-Sole, A; Vidan, MT; Formiga, F; Bueno, H; Sanchis, J; Alegre, O; Duran-Cambra, A; Lopez-Palop, R; Abu-Assi, E; Sionis, A; LONGEVO-SCA Investigators. Clinical and prognostic implications of delirium in elderly patients with non-ST-segment elevation acute coronary syndromes. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(2) 121-128. FI: 2.491. Cuartil: 2. (Article).*

*Briongos-Figuero, S; Sanchez, A; Perez, ML; Martinez-Ferrer, JB; Garcia, E; Vinolas, X; Arenal, A; Alzueta, J; Basterra, N; Rodriguez, A; Lozano, I; Munoz-Aguilera, R. Single-brand dual-chamber discriminators to prevent inappropriate shocks in patients implanted with prophylactic implantable cardioverter defibrillators: a propensity-weighted comparison of single- and dual-chamber devices. JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY. 2019; 54(3) 267-275. FI: 1.277. Cuartil: 4. (Article).*

*Diez-Delhoyo, F; Elizaga, J; Gutierrez-Ibanes, E; Fernandez-Aviles, F. Toggle Malapposition and Femoral Subocclusion as a Potential Complication of Manta Closure Device During TAVR. JOURNAL OF INVASIVE CARDIOLOGY. 2019; 31(10) 300-300. FI: 1.453. Cuartil: 4. (Editorial Material).*

*del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*

*Prieto-Arevalo, R; Munoz, P; Cuerpo, G; Mari-Hualde, A; Castelo-Corral, L; Navas-Elorza, E; Cifuentes-Luna, C; Alonso-Socas, MD; Boix-Palop, L; Martinez-Selles, M; Spanish Collaboration Endocarditis. Pulmonary Infective Endocarditis. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. 2019; 73(21) 2782-2784. FI: 20.589. Cuartil: 1. (Letter).*

*Rodriguez-Gabella, T; Catala, P; Munoz-Garcia, AJ; Nombela-Franco, L; Del Valle, R; Gutierrez, E; Regueiro, A; Jimenez-Diaz, VA; Ribeiro, HB; Rivero, F; Fernandez-Diaz, JA; Pibarot, P; Alonso-Briales, JH; Tirado-Conte, G; Moris, C; Del Hoyo, FD; Jimenez-Britez, G; Zaderenko, N; Alfonso, F; Gomez, I; Carrasco-Moraleja, M; Rodes-Cabau, J; Calvar, JASR; Amat-Santos, IJ. Renin-Angiotensin System Inhibition Following Transcatheter Aortic Valve Replacement. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. 2019; 74(5) 631-641. FI: 20.589. Cuartil: 1. (Article).*

*Diez-Villanueva, P; Vera, A; Ariza-Sole, A; Alegre, O; Formiga, F; Lopez-Palop, R; Marin, F; Vidan, MT; Martinez-Selles, M; Salamanca, J; Sionis, A; Garcia-Pardo, H; Bueno, H; Sanchis, J; Abu-Assi, E; Gonzalez-Salvado, V; Llao, I; Alfonso, F; LONGEVO-SCA Registry Investigators. Mitral Regurgitation and Prognosis After Non-ST-Segment Elevation Myocardial Infarction in Very Old Patients. JOURNAL OF THE AMERICAN GERIATRICS SOCIETY. 2019; 67(8) 1641-1648. FI: 4.18. Cuartil: 1. (Article).*

*Uribarri, A; Nunez-Gil, IJ; Conty, DA; Vedia, O; Almendro-Delia, M; Cambra, AD; Martin-Garcia, AC; Barrionuevo-Sanchez, M; Martinez-Selles, M; Raposeiras-Roubin, S; Guillen, M; Acuna, JMG; Matute-Blanco, L; Vicente, JAL; Flecha, ASG; Andres, M; Perez-Castellanos, A; Lopez-Pais, J; RETAKO Investigators. Short- and Long-Term Prognosis of Patients With Takotsubo Syndrome Based on Different Triggers: Importance of the Physical Nature. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(3) -. FI: 4.605. Cuartil: 1. (Article).*

*Lindman, BR; Goel, K; Bermejo, J; Beckman, J; O'Leary, J; Barker, CM; Kaiser, C; Cavalcante, JL; Elmariah, S; Huang, J; Hickey, GL; Adams, DH; Popma, JJ; Reardon, MJ. Lower Blood Pressure After Transcatheter or Surgical Aortic Valve Replacement is Associated with Increased Mortality. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(21) -. FI: 4.605. Cuartil: 1. (Article).*

*Rivera-Juarez, A; Hernandez-Romero, I; Puertas, C; Zhang-Wang, S; Sanchez-Alamo, B; Martins, R; Figuera, C; Guillem, MS; Climent, AM; Fernandez-Aviles, F; Tejedor, A; Jalife, J; Atienza, F. Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(24) -. FI: 4.605. Cuartil: 1. (Article).*

*Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*

*Vehmeijer, JT; Koyak, Z; Zwinderman, AH; Harris, L; Peinado, R; Oechslin, EN; Silversides, CK; Bouma, BJ; Budts, W; van Gelder, IC; Oliver, JM; Mulder, BJM; de Groot, JR. PREVENTION-ACHD: PRospEctiVE study on implaNTable cardioverter-defibrillator therapy and suddeN cardiac death in Adults with Congenital Heart Disease; Rationale and Design. NETHERLANDS HEART JOURNAL. 2019; 27(10) 474-479. FI: 1.933. Cuartil: 3. (Article).*

*Lopez-Sainz, A; Climent, V; Ripoll-Vera, T; Espinosa, MA; Barriales-Villa, R; Navarro, M; Limeres, J; Domingo, D; Kasper, DC; Garcia-Pavia, P. Negative screening of Fabry disease in patients with conduction disorders requiring a pacemaker. ORPHANET JOURNAL OF RARE DISEASES. 2019; 14 -. FI: 3.523. Cuartil: 2. (Letter).*

*Gonzalez-Torrecilla, E; Avila-Alonso, P. Successful cryoablation of dual atrioventricular nodal nonreentrant tachycardia: First reported cases. PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY. 2019; 42(12) 1597-1600. FI: 1.303. Cuartil: 4. (Article).*

*Quintana-Villamandos, B; del Pozo, IG; Pazo-Sayos, L; Bellon, JM; Pedraz-Prieto, A; Pinto, AG; Delgado-Baeza, E. Plasma protein thiolation index (PTI) as a potential biomarker for left ventricular hypertrophy in humans. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

*Hernandez-Romero, I; Guillem, MS; Figuera, C; Atienza, F; Fernandez-Aviles, F; Climent, AM. Optical imaging of voltage and calcium in isolated hearts: Linking spatiotemporal heterogeneities and ventricular fibrillation initiation. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

*Cano, O; Bellver, A; Fontenla, A; Villuendas, R; Penafiel, P; Francisco-Pascual, J; Ibanez, JL; Bertomeu-Gonzalez, V; Garcia-Riesco, L; Garcia-Seara, J; Martinez-Brotons, A; Calvo, D; Campos, B; Enero, J; Pelaez, A; Martinez-Ferrer, J; Mazuelos, F; Morinigo, JL; Exposito, C; Arenal, A; Pombo, M; Segura, F; Pastor, A; Perez, F; Fernandez-Lozano, I; Gonzalez-Ferrer, JJ; Moreno, S; Martin-Fernandez, J; Ormaetxe, J; Pavon, R; Tolosana, JM; Merce, J; Garcia-Almagro, FJ; Alvarez, M; Macias, A; Peinado, R; Linde, C; Normand, C; Dickstein, K. Spanish Results of the Second European Cardiac Resynchronization Therapy Survey (CRT-Survey II). REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(3) 208-214. FI: 4.642. Cuartil: 1. (Article).*

*Diez-Villanueva P; Ariza-Sole A; Vidan MT; Bonanad C; Formiga F; Sanchis J; Martin-Sanchez FJ; Ruiz Ros V; Sanmartin Fernandez M; Bueno H; Martinez-Selles M. Recommendations of the Geriatric Cardiology Section of the Spanish Society of Cardiology for the Assessment of Frailty in Elderly Patients With Heart Disease. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(1) 63-71. FI: 4.642. Cuartil: 1. (Article).*

*Garcia-Carreno, J; Sousa-Casasnovas, I; Devesa-Cordero, C; Gutierrez-Ibanes, E; Fernandez-Aviles, F; Martinez-Selles, M. Cardiopulmonary Resuscitation With Percutaneous ECMO in Refractory In-hospital Cardiac Arrest: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 154-159. FI: 4.642. Cuartil: 1. (Article).*

*Couto-Mallon D; Gonzalez-Vilchez F; Almenar-Bonet L; Diaz-Molina B; Segovia-Cubero J; Gonzalez-Costello J; Delgado-Jimenez, J; Castel-Lavilla, MA; Crespo-Leiro, MG; Rangel-Sousa, D; Martinez-Selles, M; Rabago-Juan-Aracil, G; De-la-Fuente-Galan, L; Blasco-Peiro, T; Hervas-Sotomayor, D; Garrido-Bravo, IP; Mirabet-Perez, S; Muniz, J; Barge-Caballero, E. Prognostic Value of Serum Lactate Levels in Patients Undergoing Urgent Heart Transplant: A Subanalysis of the ASIS-TC Spanish Multicenter Study. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 182-183. FI: 4.642. Cuartil: 1. (Letter).*

*Gonzalez-Vilchez, F; Almenar-Bonet, L; Crespo-Leiro, MG; Segovia-Cubero, J; Gonzalez-Costello, J; del Prado, JMA; Sousa-Casasnovas, I; Sobrino-Marquez, JM; Delgado-Jimenez, J; Perez-Villa, F; Gomez-Buena, M; Hernandez-Perez, F; Martinez-Penades, S; Cebrian-Pinar, M; Lopez-Vilella, R; Sanchez-Lazaro, I; Martinez-Dolt, L; Paniagua-Martin, MJ; Barge-Caballero, E; Barge-Caballero, G; Couto-Mallon, D; Lopez-Granados, A; Segura-Saintgerons, C; Mesa, D; Ruiz, M; Romo, E; Carrasco, F; Lopez-Aguilera, J; Cobo, M; Llano-Cardenal, M; de Prada, JAV; Nistal-Herrera, F; Martinez-Selles, M; Ortiz, C; Zatarain, E; Valero, MJ; Fernandez-Yanez, J; Navas, P; Castrodeza, J; Garcia-Cosio, MD; Moran-Fernandez, L; Blazquez, Z; Caravaca, P; Roig-Minguell, E; Brossa-Loidi, V; Mirabet-Perez, S; Lopez-Lopez, L; Rangel-Sousa, D; Manito-Lorite, N; Diez-Lopez, C; Roca-Elias, J; Rabago-Aracil, G; Castel, MA; Farrero, M; Garcia-Alvarez, A; Lambert-Rodriguez, JL; Diaz-Molina, B; Bernardo-Rodriguez, MJ; Camino-Lopez, M; Gil-Jaurena, JM; Gil-Villanueva, N; Garrido-Bravo, I; Pascual-Figal, DA; Pastor-Perez, FJ; Blasco-Peiro, T; Portoles-Ocampo, A; Sanz-Julve, M; de La Fuente-Galan, L; Tobar-Ruiz, J; Correa-Fernandez, AM; Garcia-Guereta-Silva, L; Gonzalez-Rocafort, A; de Lera, CL; Polo-Lopez, L; Albert-Brotons, DC; Gran-Ipina, F; Abella-Anton, R; Spanish Heart Transplant Teams. Spanish Heart Transplant Registry. 30th Official Report of the Spanish Society of Cardiology Working Group on Heart Failure (1984-2018). REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 185-185. FI: 4.642. Cuartil: 1. (Letter).*

*Garcia Carreno J; Sousa-Casasnovas I; Vicent Alaminos ML; Atienza Fernandez F; Martinez Selles M; Fernandez Aviles F. Extracorporeal Membrane Oxygenation in Patients With Electrical Storm: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(11) 954-962. FI: 4.642. Cuartil: 1. (Article).*

*Garcia Carreno J; Sousa-Casasnovas I; Fernandez Aviles F; Martinez Selles M. Antiarrhythmic Drugs Are not the Only Option in Electrical Storm: Extracorporeal Membrane Oxygenation as a Life-saving Alternative. Response. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(5) 392-397. FI: 4.642. Cuartil: 1. (Article).*

*Luna-Lopez, R; Sousa-Casasnovas, I; Garcia-Carreno, J; Devesa-Cordero, C; Fernandez-Aviles, F; Martinez-Selles, M. Use of Extracorporeal Membrane Oxygenator in Massive Pulmonary Embolism. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(9) 749-759. FI: 4.642. Cuartil: 1. (Article).*

*Sanchis, J; Ariza-Sole, A; Abu-Assi, E; Alegre, O; Alfonso, F; Barrabes, JA; Baz, JA; Carol, A; Villanueva, PD; del Blanco, BG; Elizaga, J; Fernandez, E; del Egido, AG; Picard, JG; Blazquez, IG; Hospital, JAG; Hernandez-Antolin, R; Llibre, C; Marin, F; Sanchez, DM; Martin, R; Selles, MM; Minana, G; Gallardo, MJM; Nunez, J; de Prado, AP; Pinar, E; Sanmartin, M; Sionis, A; Villa,*

*A; Marrugat, J; Bueno, H. Invasive Versus Conservative Strategy in Frail Patients With NSTEMI: The MOSCA-FRAIL Clinical Trial Study Design. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(6) 495-495. FI: 4.642. Cuartil: 1. (Editorial Material).*

*Saldivar, HG; Delhoyo, FD; Ibanes, EG. An Unusual Angiographic Image of Infective Endocarditis. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(8) 694-695. FI: 4.642. Cuartil: 1. (Letter).*

*Saldivar, HG; Alaminos, LV; Rodriguez-Pascual, C; de la Morena, G; Fernandez-Golfin, C; Amoros, C; Alonso, MB; Dolz, LM; Sole, AA; Guzman-Martinez, G; Gomez-Doblas, JJ; Jimenez, AA; Fuentes, ME; Gay, LG; Ortiz, MR; Avanzas, P; Abu-Assi, E; Ripoll-Vera, T; Diaz-Castro, O; Osinalde, EP; Bernal, E; Martinez-Selles, M. Prognosis of Patients With Severe Aortic Stenosis After the Decision to Perform an Intervention. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(10) 880-882. FI: 4.642. Cuartil: 1. (Letter).*

*Perez-Castellanos, A; Martinez-Selles, M; de la Villa, BG; Nunez-Gil, IJ. Factors Impacting Prognosis Among Patients with Tako-tsubo Syndrome. Response. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(9) 793-794. FI: 4.642. Cuartil: 1. (Letter).*

*Lopez-Fernandez, T; Martin-Garcia, A; Rabadan, IR; Mitroi, C; Ramos, PM; Diez-Villanueva, P; Cervantes, CE; Martin, CA; Salinas, GLA; Arenas, M; Esteban, VIA; de la Pena, FA; Fernandez, AC; Pardo, HG; Garcia-Sanz, R; Porras, JRG; de Sa, EL; Lozano, T; Vera, PM; Marin, VM; Rubio, DM; Montero, A; Oristrell, G; de Prado, AP; del Castillo, SV; Echaburu, JA; Zatarain-Nicolas, E; Sanchez, MA; Menendez, JT; Marin, F; Lopez-Sendon, JL; Zamorano, JL. Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(12) 1020-1030. FI: 4.642. Cuartil: 1. (Article).*

*Rossello, X; Rodriguez-Sinovas, A; Vilahur, G; Crisostomo, V; Jorge, I; Zaragoza, C; Zamorano, JL; Bermejo, J; Ordonez, A; Bosca, L; Vazquez, J; Badimon, L; Sanchez-Margallo, FM; Fernandez-Aviles, F; Garcia-Dorado, D; Ibanez, B. CIBER-CLAP (CIBERCV Cardioprotection Large Animal Platform): A multicenter preclinical network for testing reproducibility in cardiovascular interventions. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

*Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

*Toran, JL; Lopez, JA; Gomes-Alves, P; Aguilar, S; Torroja, C; Trevisan-Herraz, M; Moscoso, I; Sebastiao, MJ; Serra, M; Brito, C; Cruz, FM; Sepulveda, JC; Abad, JL; Galan-Arriola, C; Ibanez, B; Martinez, F; Fernandez, ME; Fernandez-Aviles, F; Palacios, I; R-Borlado, L; Vazquez, J; Alves, PM; Bernad, A. Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

*Agnelli C; Valerio M; Olmedo M; Guinea J; Zatarain-Nicolás E; Del Carmen Martínez-Jiménez M; Alcalá L; Escribano P; Cebollero Presmanes M; Bouza E; Muñoz P; Martín-Rabadán P. Fatal disseminated infection by Gymnascella hyalinospora in a heart transplant recipient. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(5) -. FI: 2.071. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor***

*Cordoba-Soriano JG; Rivera-Juarez A; Gutierrez-Diez A; Gutierrez-Ibanes E; Gallardo-Lopez A; Samaniego-Lampon B; Lozano I; Melehi D; Portero-Portaz JJ; Elizaga J; Jimenez-Mazuecos J. The feasibility and safety of ambulatory percutaneous coronary interventions in complex lesions. CARDIOVASCULAR REVASCULARIZATION MEDICINE. 2019; 20(10) 875-882. (Article).*

*Pedraz-Prieto, A; Monzon-Diaz, D; Gonzalez, RHRA; Las, CJ; Hortal-Iglesias, J; Gonzalez-Pinto, AT. Ventricular fibrillation in early postoperative period after David procedure due to surgical ligation of the conal artery. CIRUGIA CARDIOVASCULAR. 2019; 26(3) 169-171. (Article).*

*Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Gonzalez-Lopez, MT; Pardo, C; Zamorano, JA; Ramirez, B; Perez, R; Gonzalez-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).*

*Pita-Fernandez, A; Gil-Jaurena, JM; Perez-Caballero-Martinez, R; Pardo-Pardo, C; Gonzalez-Lopez, MT; Rodriguez-Abella-Gonzalez, H; Irabien-Ortiz, A; Perez-Perez, R; Ramirez-Gomez, B; Zamorano-Serrano, J; Gonzalez-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).*

*Sanchez, LG; Flores, MF; Cirujano, ML; Castano, V; Rincon, M. Nutritional intervention in patients with heart failure. 3 month results of a clinical trial. NUTRICION CLINICA Y DIETETICA HOSPITALARIA. 2019; 39(1) 22-31. (Article).*

***Other publications***

*Delgado JF; Ferrero Gregori A; Fernández LM; Claret RB; Sepúlveda AG; Fernández-Avilés F; González-Juanatey JR; García RV; Otero MR; Segovia Cubero J; Pascual Figal D; Crespo-Leiro MG; Alvarez-García J; Cinca J; Ynsaurriaga FA. Patient-Associated*

*Predictors of 15- and 30-Day Readmission After Hospitalization for Acute Heart Failure. CURRENT HEART FAILURE REPORTS. 2019; 16(6) 304-314. (Article).*

*Tamargo Delpon M; Gonzalez Torrecilla E. Repetitive Ventriculoatrial Block During Nodal Reentrant Tachycardia. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(11) 964-964. (Article).*

*Barge-Caballero E; Gonzalez-Vilchez F; Delgado JF; Mirabet-Perez S; Gonzalez-Costello J; Perez-Villa F; Martinez-Selles M; Segovia-Cubero J; Hervas-Sotomayor D; Blasco-Peiro T; De la Fuente-Galan L; Lambert-Rodriguez JL; Rangel-Sousa D; Almenar-Bonet L; Garrido-Bravo IP; Rabago-Juan-Aracil G; Muniz J; Crespo-Leiro MG. Use of Intra-aortic Balloon Pump as a Bridge to Heart Transplant in Spain: Results From the ASIS-TC Study. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(10) 835-843. (Article).*

*Velasquez-Rodriguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernandez M; Valerio M; Fernandez-Aviles F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(06-ene.) 535-542. (Article).*

*Subirana I; Fernandez Aviles F; Elosua R; Lidon RM; Garcia-Dorado D; Marrugat J; investigadores del estudio ATHOS. Interhospital Variability in Acute Coronary Syndrome Management in the ATHOS Study. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(07-ene.) 691-693. (Article).*

*Perez-Castellanos A; Martinez-Selles M; Uribarri A; Devesa-Cordero C; Sanchez-Salado JC; Ariza-Sole A; Sousa I; Juarez M; Fernandez-Aviles F. Development and External Validation of an Early Prognostic Model for Survivors of Out-of-hospital Cardiac Arrest. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(12) 1005-1011. (Article).*

*de la Torre Hernandez JM; Brugaletta S; Gomez Hospital JA; Baz JA; Perez de Prado A; Lopez Palop R; Cid B; Garcia Camarero T; Diego A; Gutierrez H; Fernandez Diaz JA; Sanchis J; Alfonso F; Blanco R; Botas J; Navarro Cuartero J; Moreu J; Bosa F; Vegas Valle JM; Elizaga J; Arrebola AL; Ruiz Arroyo JR; Hernandez F; Salvatella N; Monteagudo M; Gomez Jaume A; Carrillo X; Martin Reyes R; Lozano F; Rumoroso JR; Andraka L; Dominguez AJ. Baseline Risk Stratification of Patients Older Than 75 Years With Infarction and Cardiogenic Shock Undergoing Primary Angioplasty. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).*

*Gonzalez-Casal D; Mateos Gaitan R; Sanchez Prida N; Gonzalez-Saldivar H; Diez-Delhoyo F. Infarto agudo de miocardio en menor de 30 anos. inverted exclamation markLa edad no es excluyente!. SEMERGEN. 2019; 45(3) 205-207. (Article).*

# 2.02 Cardiovascular pathophysiology

Group Director: **Victoria Cachofeiro Ramos**
Organisms involved: **UCM**
**Consolidated Group**

## Description of the research group

The core of the project research team is made up of researchers from the Cardiovascular and Metabolic Pathophysiology Group of obesity of the Department of Physiology, School of Medicine, UCM under the coordination of Victoria Cachofeiro and Ernesto Martínez
The main objective of the group is to achieve a better understanding of the molecular and cellular mechanisms involved in the functional, structural and mechanical alterations of the cardiovascular system associated with different risk factors including obesity.
To carry out our research, we use various experimental approaches: animal models, in vivo and ex vivo experiments and cell studies combining physiological, pharmacological, molecular, histological and imaging techniques in which the group has a great experience as endorsed by our publications

## Research lines

**Axis 1: Cardiovascular metabolic damage associated with obesity**
L1: Role of changes in the use of metabolic substrates in cardiac damage associated with obesity
L2: Role of mitochondrial dysfunction in cardiac damage associated with obesity.
**Axis 2: Mechanisms involved in cardiovascular damage associated with ischemia**
L 1: Role of changes in the use of metabolic substrates in cardiac damage associated with ischemia
L 2: Role of mitochondrial dysfunction in cardiac damage associated with ischemia.
L 3: Impact of obesity on cardiac damage associated with ischemia

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| BARTOLOMÉ | PASCUAL | MARIA VISITACIÓN | R3 | Established Researcher |
| CACHOFEIRO | RAMOS | VICTORIA | R4 | Leading Researcher |
| DELGADO | VALERO | BEATRIZ | R1 | First Stage Researcher |
| JURADO | LÓPEZ | RAQUEL | Other | Research Support Technician |
| MARTINEZ | MARTINEZ | ERNESTO | R3 | Established Researcher |
| VASCONCELOS | DE SOUSA NETO | FRANCISCO DAS CHAGAS | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

- **Not managed by the FIBHGM**

TITLE: **Papel del estrés del retículo endoplámico y sus moduladores en el fibrosis miocárdica asociada a la isquemia miocárdica en el contexto de la obesidad. Relevancia de los miRNAs.** PI18/00257
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Atracción de Talento Joven**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA , (Ernesto Martínez Martínez)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/02/2018
END DATE: 31/01/2019

TITLE: **Becas predoctorales UCM**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA , (Francisco ds Chagas Vasconcelos Neto)
PROJECT TYPE: Human Resources
FUNDING BODY: UCM
START DATE: 01/06/2019
END DATE: 31/05/2022

TITLE: **Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2018"**
DIRECTOR: MARTINEZ, ERNESTO, (Ana Romero Miranda)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/04/2019
END DATE: 30/03/2021

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | CIBER de Enfermedades Cardiovasculares (CIBERCV) | Collaborating group |
| COST | ADMIRE (BM1301) | Collaborating group |

## *Publications* *Total Impact Factor: **13.0***

| | Nº | FI |
|---|---|---|
| Own publications | 2 | 9.0 |
| Joint publications | 1 | 4.1 |
| First decile publications | 1 | 5.0 |
| First quartile publications | 2 | 9.0 |
| Second quartile publications | 1 | 4.1 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **3** | **13.0** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Martinez-Gonzalez, J; Varona, S; Canes, L; Galan, M; Briones, AM; Cachofeiro, V; Rodriguez, C. Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. BIOMOLECULES. 2019; 9(10) -. FI: 4.082. Cuartil: 2. (Review).*
- *Marin-Royo, G; Rodriguez, C; Le Pape, A; Jurado-Lopez, R; Luaces, M; Antequera, A; Martinez-Gonzalez, J; Souza-Neto, FV; Nieto, ML; Martinez-Martinez, E; Cachofeiro, V. The role of mitochondrial oxidative stress in the metabolic alterations in diet-induced obesity in rats. FASEB JOURNAL. 2019; 33(11) 12060-12072. FI: 4.966. Cuartil: 1. (Article).*
- *Marin-Royo, G; Ortega-Hernandez, A; Martinez-Martinez, E; Jurado-Lopez, R; Luaces, M; Islas, F; Gomez-Garre, D; Delgado-Valero, B; Lagunas, E; Ramchandani, B; Garcia-Bouza, M; Nieto, ML; Cachofeiro, V. The Impact of Cardiac Lipotoxicity on Cardiac Function and Mirnas Signature in Obese and Non-Obese Rats with Myocardial Infarction. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

# 2.03 Cardiac celular electrophysiology

Group Director: **Eva Delpón Mosquera**
Organisms involved: **UCM**
**Consolidated Group**

## Description of the research group

The group is composed of three professors (Dr. Delpón, Dr.Tamargo, and Dr.Caballero) from the Department of Pharmacology of the School of Medicine of UCM and has formed part of the IiSGM since its inception date. It is also integrated by a Postdoctoral Researcher of the Talent Attraction Program of the Community of Madrid (Dr. Cebrián) and six predoctoral hired.
The group maintains its uninterrupted activity for more than 30 years in the areas of cardiac cell electrophysiology and cardiovascular pharmacology. Our group is the founder and coordinator of the ITACA consortium (www.itaca.edu.es) dedicated to translational research in hereditary cardiac arrhythmias.
At present, the research lines funded by competitive national and regional projects are:
1) Functional study of the new genes involved in the genesis of hereditary primary arrhythmogenic syndromes.
2) Characterization of the composition and functioning of cardiac canalosomes.
3) Identification of the cellular mechanisms responsible for the genesis and maintenance of atrial fibrillation and search for new targets for therapeutic intervention

## Research lines

**Axis 1: Cardiac cellular electrophysiology**
L 1: Description of the composition of cardiac channelosomes.
L 2: Identification of the genetic bases of primary arrhythmogenic syndromes (PAS).
L 3: Identification of the cellular mechanisms responsible for the genesis and maintenance of atrial fibrillation (AF).
**Axis 2: Cardiovascular clinical pharmacology**
Lí 1: Cardiovascular clinical pharmacology

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CABALLERO | COLLADO | RICARDO | R4 | Leading Researcher |
| CAMARA | CHECA | ANABEL | | |
| CEBRIÁN | CASTILLO | JORGE | | |
| CRESPO | GARCÍA | TERESA | | |
| DAGO | REQUENA | MARÍA | | |
| DELPON | MOSQUERA | EVA | R4 | Leading Researcher |
| GARCIA | UTRILLA | RAQUEL | | |
| NIETO | MARIN | PALOMA | | |
| RUBIO | ALARCÓN | MARCOS | | |
| SACRISTÁN | GONZÁLEZ | ANA SANDRA | | |
| TAMARGO | MENENDEZ | JUAN | R4 | Leading Researcher |
| TINAQUERO | FAURA | DAVID | | |
| VAQUERO | LOPEZ | PALOMA SAN JUAN | | |

## Research Projects – Competitive Calls

- **Not managed by the FIBHGM**

TITLE: **Papel de los factores de transcripción específicos cardiacos en el control de la actividad eléctrica miocárdica**.
SAF2017-88116-P
DIRECTOR: DELPÓN, EVA / CABALLERO, RICARDO
FUNDING BODY: MICINN/MINECO

PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Estudio funcional de mutaciones en los genes HCN4, ZFHX3 y ANK2 identificadas en pacientes con fibrilación auricular familiar**. PI16/00398
DIRECTOR: TAMARGO MENENDEZ, JUAN
FUNDING BODY INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2017
END DATE: 30/09/20

TITLE: **Repercusiones funcionales de dos mutaciones en el gen TBX5. Papel del factor Tbx5 en el control de la actividad eléctrica cardiaca.** SEC2017
DIRECTOR: DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE CARDIOLOGÍA
START DATE: 2017
END DATE: 2018

TITLE: **Investigación Traslacional en Arritmias Cardiacas hereditArias. ITACA**-CM B017/BMD3738
DIRECTOR: DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: COMUNIDAD DE MADRID. PROGRAMA DE BIOMEDICINA
START DATE: 01/01/2018
END DATE: 31/12/2021

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | Enfermedades Cardiovasculares CB16/11/00303. | Collaborating group |

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | **Raquel Garcia Utrilla** | El factor de transcripción Tbx20 regula selectivamente la expresión de los canales cardiacos hERG y la densidad de la IKr posible implicación del gen TBX20 en el Síndrome de | Eva Delpon Mosquera; Juan Tamargo Menendez; Ricardo Caballero Collado | UCM | 26/11/2019 |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| López-Fernández T, Martín-García A, Roldán Rabadán I, Mitroi C, Mazón Ramos P, Díez-Villanueva P, Escobar Cervantes C, Alonso Martín C, Alonso Salinas GL, Arenas M, Arrarte Esteban VI, Ayala de La Peña F, Castro Fernández A, García Pardo H, García-Sanz R, González Porras JR, López de Sá E, Lozano T, Marco Vera P, Martínez Marín V, Mesa Rubio D, Montero Á, Oristrell G, Pérez de Prado A, Velasco Del Castillo S, Virizuela Echaburu JA, | **Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations.** | REV ESP CARDIOL (ENGL ED). 2019;72(9):749-759. |

| Authors | Title | Journal / Reference |
|---|---|---|
| Zatarain-Nicolás E, Anguita Sánchez M, Tamargo Menéndez J | | |
| Sulzgruber P, Wassmann S, Semb AG, Doehner W, Widimsky P, Gremmel T, Kaski JC, Savarese G, Rosano GMC, Borghi C, Kjeldsen K, Torp-Pedersen C, Schmidt TA, Lewis BS, Drexel H, Tamargo J, Atar D, Agewall S, Niessner A | **ral Anticoagulation in patients with non-valvular atrial fibrillation and a CHA2DS2-VASc score of 1 - a current opinion of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy and European Society of Cardiology Council on Stroke** | EUR HEART J CARDIOVASC PHARMACOTHER. 2019;5:171-180 |
| Regitz-Zagrosek V, Roos-Hesselink JW, Bauersachs J, Blomström-Lundqvist C, Cífková R, De Bonis M, Iung B, Johnson MR, Kintscher U, Kranke P, Lang IM, Morais J, Pieper PG, Presbitero P, Price S, Rosano GMC, Seeland U, Simoncini T, Swan L, Warnes CA; ESC Scientific Document Group | **Guía ESC 2018 sobre el tratamiento de las enfermedades cardiovasculares durante el embarazo** | REV ESP CARDIOL 2019;72:161.E1-E65 |
| Savarese G, Reiner MF, Uijl A, D'Amario D, Agewall S, Atar D, Baumgartner I, Borghi C, De Carlo M, Drexel H, Kaski JC, Kjeldsen KP, Kucher N, Lund LH, Niessner A, Semb AG, Schmidt TA, Sulzgruber P, Tamargo J, Vitale C, Wassmann S, Aboyans V, Lewis BS | **Antithrombotic therapy and major adverse limb events in patients with chronic lower extremity arterial disease: systematic review and meta-analysis from the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy in Collaboration with the European Society of Cardiology Working Group on Aorta and Peripheral Vascular Diseases.** | EUR HEART J CARDIOVASC PHARMACOTHER 2020;6(2):86-93. |
| Hollan I, Ronda N, Dessein P, Agewall S, Karpouzas G, Tamargo J, Niessner A, Savarese G, Rosano G, Kaski JC, Wassmann S, Meroni PL. | **Lipid management in rheumatoid arthritis: a position paper of the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology.** | EUR HEART J CARDIOVASC PHARMACOTHER. 2020;6(2):104-114. |

## *Publications* — *Total Impact Factor:* ***34.4***

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 15.8 |
| Joint publications | 3 | 18.6 |
| First decile publications | 2 | 14.4 |
| First quartile publications | 5 | 28.3 |
| Second quartile publications | 2 | 6.1 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **8** | **34.4** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Sanchez, M; Romero, M; Gomez-Guzman, M; Tamargo, J; Perez-Vizcaino, F; Duarte, J. Cardiovascular Effects of Flavonoids. CURRENT MEDICINAL CHEMISTRY. 2019; 26(39) 6991-7034. FI: 4.184. Cuartil: 1. (Review).*
- *Haller, PM; Sulzgruber, P; Kaufmann, C; Geelhoed, B; Tamargo, J; Wassmann, S; Schnabel, RB; Westermann, D; Huber, K; Niessner, A; Gremmel, T. Bleeding and ischaemic outcomes in patients treated with dual or triple antithrombotic therapy: systematic review and meta-analysis. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2019; 5(4) 226-236. FI: 6.696. Cuartil: 1. (Review).*
- *Tamargo, J; Caballero, R; Delpon, E. New drugs in preclinical and early stage clinical development in the treatment of heart failure. EXPERT OPINION ON INVESTIGATIONAL DRUGS. 2019; 28(1) 51-71. FI: 5.081. Cuartil: 1. (Article).*
- *Tamargo, J; Caballero, R; Delpon, E. Pharmacotherapy for hypertension in pregnant patients: special considerations. EXPERT OPINION ON PHARMACOTHERAPY. 2019; 20(8) 963-982. FI: 2.878. Cuartil: 2. (Review).*
- *Ruilope, LM; Ruiz-Hurtado, G; Barderas, MG; de la Cruz, JJ; Lucia, A; de la Sierra, A; Gorostidi, M; Vinyoles, E; Segura, J; Solis, J; Arribas, F; Garcia-Puig, J; Tamargo, J; O'Brien, E; Volpe, M; Whelton, PK; Williams, B; Banegas, JR. Frequency and Prognosis of Treated Hypertensive Patients According to Prior and New Blood Pressure Goals Post Hoc Analysis of the Spanish Ambulatory Blood Pressure Monitoring Registry. HYPERTENSION. 2019; 74(1) 130-136. FI: 7.713. Cuartil: 1. (Article).*
- *Tamargo, J. Happy 50th anniversary of amiodarone (1969-2019). INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 293 115-116. FI: 3.229. Cuartil: 2. (Editorial Material).*
- *Nieto-Marin, P; Jimenez-Jaimez, J; Tinaquero, D; Alfayate, S; Utrilla, RG; del Rey, MDRV; Perin, F; Sarquella-Brugada, G; Monserrat, L; Brugada, J; Tercedor, L; Tamargo, J; Delpon, E; Caballero, R. Digenic Heterozigosity in SCN5A and CACNA1C Explains the Variable Expressivity of the Long QT Phenotype in a Spanish Family. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(4) 324-332. FI: 4.642. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Tamargo, J. Sodium-glucose Cotransporter 2 Inhibitors in Heart Failure: Potential Mechanisms of Action, Adverse Effects and Future Developments. EUROPEAN CARDIOLOGY REVIEW. 2019; 14(1) 23-32. (Article).*

# 2.05 Cardiology and heart transplantation in children

Group Director: **Constancio Medrano López**
Organisms involved: **HGUGM**
**Emerging group**

## Description of the research group

The group covers the research activity of the Infant Heart Area, which includes infant heart surgery and cardiology. Since 2016, Dr. B. Ezquieta's group (RASopathies) has joined the Area, a new line in international cooperation has been opened, and scientific output has been increased, especially in the lines of heart surgery and innovation in infant interventional cardiology.

## Research lines

**Axis 1: Heart transplant in children**
L 1: Optimize and reduce antirejection therapy.
**Axis 2: Cardiomyopathy in children**
L 1: Correlation between genotype and phenotype.
L 2: Development of advanced imaging techniques (speckle trackingechocardiography**).**
**Axis 3: Respiratory infections and congenital heart disease**
L 1: Impact on patients with heart disease**.**
**Axis 4: Drugs used in infant and pediatric cardiology**
L 1: Utility and safety of cardiovascular drugs in infancy**.**
**Axis 5: Infant cardiac rehabilitation (cooperation with Infant Rehabilitationreserch group: Dr.Supervia and Dr. Arroyo)**
L 1: Improving quality of life**.**
**Axis 6: Cell therapy in pediatric cardiology**
L 1: New therapies in advanced heart failure**.**
**Axis 7: Innovation in interventional approaches in congenital heart disease and in infants**
Line 1: New devices adapted to congenital heart disease**.**
**Axis 8: Innovation in surgical approaches in congenital heart disease and in infants**
Line 1: New mini-invasive techniques are safe and reduce morbidity.
**Axis 9: Telemedicine**
L 1: Tool for optimizing patient follow-up and cooperation with other centers/professionals**.**
**Axis 10: RASopathies (in collaboration with Molecular Biology research group: Dr. Begoña Ezquieta)**
L 1: Improving knowledge about health**.**
**Axis 11: International cooperation**
L 1: Training as a development tool**.**
**Axis 12: Innovation in infant electrophysiology**
L 1: Optimizing infant electrophysiology devices and techniques.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ALVAREZ | GARCIA-ROVES | REYES | R1 | First Stage Researcher |
| ALVAREZ | MARTIN | TERESA | R1 | First Stage Researcher |
| BALLESTEROS | TEJERIZO | FERNANDO | R1 | First Stage Researcher |
| CAMBRA | CONEJERO | ANA | R2 | Recognised Researcher |
| CAMINO | LÓPEZ | MANUELA | R1 | First Stage Researcher |
| CARCHENILLA | PULIDO | INMACULADA | R1 | First Stage Researcher |
| CENTENO | JIMÉNEZ | MIRIAN | R1 | First Stage Researcher |
| COBOS | HINOJAL | SUSANA | R1 | First Stage Researcher |
| CUENCA | YUNTA | ALEJANDRA | R1 | First Stage Researcher |
| EZQUIETA | ZUBICARAY | BEGOÑA | R3 | Established Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| GARCIA | GONZALEZ | Mª DOLORES | R1 | First Stage Researcher |
| GIL | JAURENA | JUAN MIGUEL | R1 | First Stage Researcher |
| GIL | VILLANUEVA | NURIA | R1 | First Stage Researcher |
| GORMAZ | IBAÑEZ | FRANCISCA | R1 | First Stage Researcher |
| LOPEZ | BLAZQUEZ | MARIA | R1 | First Stage Researcher |
| MEDRANO | LOPEZ | CONSTANCIO | R4 | Leading Researcher |
| PANADERO | CARLAVILLA | MARIA ESTHER | R1 | First Stage Researcher |
| PARDO | PARDO | CARLOS ANDRES | R2 | Recognised Researcher |
| PINERO | DIAZ | GLORIA ISABEL | R1 | First Stage Researcher |
| PITA | FERNANDEZ | ANA | R1 | First Stage Researcher |
| RELAÑO | GARCÍA | CRISTINA | R1 | First Stage Researcher |
| RODRIGUEZ | OGANDO | ALEJANDRO | R2 | Recognised Researcher |
| SOBRINO | BALADRON | ADOLFO | R1 | First Stage Researcher |
| SOLANA | GRACIA | RUTH | R3 | Established Researcher |
| VERA | RODRÍGUEZ | ANA | R1 | First Stage Researcher |
| WILKINSON | | SAMANTHA | R1 | First Stage Researcher |
| ZUNZUNEGUI | MARTINEZ | JOSÉ LUIS | R1 | First Stage Researcher |

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | CIBERCV (ENFERMEDADES CARDIOVASCULARES) | Associated group |

## Publications

Total Impact Factor: **51.2**

| | Nº | FI |
|---|---|---|
| Own publications | 3 | 11,5 |
| Joint publications | 11 | 39,6 |
| First decile publications | 2 | 20,1 |
| First quartile publications | 7 | 38,1 |
| Second quartile publications | 1 | 4,3 |
| Third quartile publications | 4 | 6,3 |
| Fourth quartile publications | 2 | 2,6 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **18** | **51,2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Lopez-Abente, J; Bernaldo-de-Quiros, E; Camino, M; Gil, N; Panadero, E; Campos-Dominguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).*
- *Segovia, AC; Ledesma, CC; Blazquez, ML; Perez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).*
- *Gil-Jaurena, JM; Perez-Caballero, R; Pardo, C. Upper Ministernotomy for Pulmonary Valve Repair. ANNALS OF THORACIC SURGERY. 2019; 107(2) 151-152. FI: 3.639. Cuartil: 1. (Article).*
- *Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Pardo, C. Paracorporeal Connection to Heart-Lung Machine in Transplant Surgery With the Berlin Heart Ventricular Assist Device. ANNALS OF THORACIC SURGERY. 2019; 107(5) 305-306. FI: 3.639. Cuartil: 1. (Editorial Material).*

- *Happel, CM; Martinez, JLZ; del Cerro, MJ; Schranz, D; Khalil, M; Ballesteros, F; Pardeiro, CA; Bertram, H; Beerbaum, P; Haas, NA. A word of caution: diabolic behaviour of AndraStents (R): inflation of supporting balloon leads to "diabolo"-misconfiguration of the stent. CARDIOLOGY IN THE YOUNG. 2019; 29(7) 972-976. FI: 1. Cuartil: 4. (Article).*

- *Morray, BH; Jones, TK; Coe, JY; Gitter, R; Martinez, JZ; Turner, DR; Gray, RG; Lung, TH; Berman, DP; Levi, DS. Implantation of the Melody transcatheter pulmonary valve PB1016 in patients with dysfunctional right ventricular outflow tract conduits. CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS. 2019; 93(3) 474-480. FI: 2.044. Cuartil: 3. (Article).*

- *Gonzalez, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Perez, R; Alvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; Lopez-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).*

- *Benito, Y; Martinez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodriguez-Perez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).*

- *Blazquez, ML; Hernani, MT; Calatayud, GA; Gonzalez-Pinto, LC; Menchen, L; Jimenez, IM; Garcia, BG; Calleja, AL; Sanchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).*

- *Norrish, G; Ding, T; Field, E; Ziolkowska, L; Olivotto, I; Limongelli, G; Anastasakis, A; Weintraub, R; Biagini, E; Ragni, L; Prendiville, T; Duignan, S; McLeod, K; Ilina, M; Fernandez, A; Bokenkamp, R; Baban, A; Kubus, P; Daubeney, PEF; Sarquella-Brugada, G; Cesar, S; Marrone, C; Bhole, V; Medrano, C; Uzun, O; Brown, E; Gran, F; Castro, FJ; Stuart, G; Vignati, G; Barriales-Villa, R; Guereta, LG; Adwani, S; Linter, K; Bharucha, T; Garcia-Pavia, P; Rasmussen, TB; Calcagnino, MM; Jones, CB; De Wilde, H; Toru-Kubo, J; Felice, T; Mogensen, J; Mathur, S; Reinhardt, Z; O'Mahony, C; Elliott, PM; Omar, RZ; Kaski, JP. Development of a Novel Risk Prediction Model for Sudden Cardiac Death in Childhood Hypertrophic Cardiomyopathy (HCM Risk-Kids). JAMA CARDIOLOGY. 2019; 4(9) 918-927. FI: 12.794. Cuartil: 1. (Article).*

- *Irabien, A; Gil-Jaurena, JM; Pita, A; Perez-Caballero, R; Gonzalez-Pinto, A. Double-barrel endocarditis. JOURNAL OF CARDIAC SURGERY. 2019; 34(10) 1100-1102. FI: 1.49. Cuartil: 3. (Editorial Material).*

- *Webb, NJA; Baumann, U; Camino, M; Frauca, E; Undre, N; Garcia-Guereta, L; Tonshoff, B; Reding, R; Rubik, J; Di-Filippo, S; Deschenes, G; OPTION Study Grp. Pharmacokinetics of tacrolimus granules in pediatric de novo liver, kidney, and heart transplantation: The OPTION study. PEDIATRIC TRANSPLANTATION. 2019; 23(1) -. FI: 1.425. Cuartil: 3. (Article).*

- *Gonzalez-Vilchez, F; Almenar-Bonet, L; Crespo-Leiro, MG; Segovia-Cubero, J; Gonzalez-Costello, J; del Prado, JMA; Sousa-Casasnovas, I; Sobrino-Marquez, JM; Delgado-Jimenez, J; Perez-Villa, F; Gomez-Buena, M; Hernandez-Perez, F; Martinez-Penades, S; Cebrian-Pinar, M; Lopez-Vilella, R; Sanchez-Lazaro, I; Martinez-Dolt, L; Paniagua-Martin, MJ; Barge-Caballero, E; Barge-Caballero, G; Couto-Mallon, D; Lopez-Granados, A; Segura-Saintgerons, C; Mesa, D; Ruiz, M; Romo, E; Carrasco, F; Lopez-Aguilera, J; Cobo, M; Llano-Cardenal, M; de Prada, JAV; Nistal-Herrera, F; Martinez-Selles, M; Ortiz, C; Zatarain, E; Valero, MJ; Fernandez-Yanez, J; Navas, P; Castrodeza, J; Garcia-Cosio, MD; Moran-Fernandez, L; Blazquez, Z; Caravaca, P; Roig-Minguell, E; Brossa-Loidi, V; Mirabet-Perez, S; Lopez-Lopez, L; Rangel-Sousa, D; Manito-Lorite, N; Diez-Lopez, C; Roca-Elias, J; Rabago-Aracil, G; Castel, MA; Farrero, M; Garcia-Alvarez, A; Lambert-Rodriguez, JL; Diaz-Molina, B; Bernardo-Rodriguez, MJ; Camino-Lopez, M; Gil-Jaurena, JM; Gil-Villanueva, N; Garrido-Bravo, I; Pascual-Figal, DA; Pastor-Perez, FJ; Blasco-Peiro, T; Portoles-Ocampo, A; Sanz-Julve, M; de La Fuente-Galan, L; Tobar-Ruiz, J; Correa-Fernandez, AM; Garcia-Guereta-Silva, L; Gonzalez-Rocafort, A; de Lera, CL; Polo-Lopez, L; Albert-Brotons, DC; Gran-Ipina, F; Abella-Anton, R; Spanish Heart Transplant Teams. Spanish Heart Transplant Registry. 30th Official Report of the Spanish Society of Cardiology Working Group on Heart Failure (1984-2018). REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(11) 954-962. FI: 4.642. Cuartil: 1. (Article).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Pita-Fernandez, A; Gil-Jaurena, JM; Perez-Caballero-Martinez, R; Pardo-Pardo, C; Gonzalez-Lopez, MT; Rodriguez-Abella-Gonzalez, H; Irabien-Ortiz, A; Perez-Perez, R; Ramirez-Gomez, B; Zamorano-Serrano, J; Gonzalez-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).*
- *Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Gonzalez-Lopez, MT; Pardo, C; Zamorano, JA; Ramirez, B; Perez, R; Gonzalez-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).*
- *Rodriguez, CM; Martin, TA; Zapata, AL; Martin, YR; Alegre, MLS; Carrasco, JD. Evolution and trends in a pediatric cardiac magnetic resonance imaging program in a tertiary hospital over a 14-year period. RADIOLOGIA. 2019; 61(6) 489-497. (Article).*

***Other publications***

- *Camino M; Morales MD. Beta 1 -adrenergic receptor antibodies in children with dilated cardiomyopathy. FRONTIERS IN BIOSCIENCE - ELITE. 2019; 11 102-108. (Article).*

# 2.06 Blood lipids and cardiovascular risk

Group Director: **Luis Antonio Álvarez-Sala Walther**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

L1. Prevalence of subaneurysmal dilations of abdominal aorta in a cohort of hypertensive patients and predictive value of micro-RNA
L2. Effects of pectin obtained from the Canary Islands banana on mitochondrial biogenesis

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ALVAREZ-SALA | WALTHER | LUIS ANTONIO | R4 | Leading Researcher |
| BELLO | MARTINEZ | ELENA | R2 | Recognised Researcher |
| CABRERA | AGUILAR | FRANCISCO JAVIER | | |
| CONTHE | GUTIERREZ | PEDRO | R2 | Recognised Researcher |
| DE MIGUEL | YANES | JOSE Mª | | |
| DEL TORO | CERVERA | JORGE | R1 | First Stage Researcher |
| DEMELO | RODRÍGUEZ | PABLO | R1 | First Stage Researcher |
| GALEANO | VALLE | FRANCISCO | | |
| MILLAN | NUÑEZ-CORTES | JESUS | R4 | Leading Researcher |
| PÉREZ | DE OTEYZA | CARLOS | | |
| PÉREZ | RUS | GLORIA | R1 | First Stage Researcher |
| RECARTE | GARCIA-ANDRADE | CARLOS | R1 | First Stage Researcher |
| TORRES | DO REGO | ANA | | |
| VALDES | GROSS | INES | | |

## Doctoral theses, Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Irene Bretón Lesmes** | **Gestación tras la cirugía bariátrica, evolución clínica y nutricional.** | Luis Antonio Álvarez-Sala Walther<br>Miguel Angel Rubio Herrera<br>Alfonso Calle | UCM | 19/12/2019 |

## Publications

Total Impact Factor: ***105.3***

| | Nº | FI |
|---|---|---|
| Own publications | 13 | 40.6 |
| .Joint publications | 19 | 64.8 |
| First decile publications | 1 | 3.3 |
| First quartile publications | 12 | 59.9 |
| Second quartile publications | 9 | 25.7 |
| Third quartile publications | 10 | 17.9 |
| Fourth quartile publications | 1 | 1.8 |

| | | |
|---|---|---|
| Nonindexed publications / No IF | 14 | - |
| **Total publications (including those without IF)** | **46** | **105.3** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Galeano-Valle, F; Haw, JS. Erythematous Rash in a Transgender Patient: A Quiz Erythema ab igne. ACTA DERMATO-VENEREOLOGICA. 2019; 99(6) 623-624. FI: 4.016. Cuartil: 1. (Editorial Material).*
- *Galeano-Valle, F; Vengoechea, J; Galindo, RJ. A rare mutation in hypophosphatasia: a case report of adult form and review of the literature. ARCHIVES OF ENDOCRINOLOGY METABOLISM. 2019; 63(1) 89-93. FI: 1.802. Cuartil: 4. (Review).*
- *Garcia-Garcia, A; Parra-Virto, A; Galeano-Valle, F; Demelo-Rodriguez, P. Spontaneous Pneumomediastinum and Subcutaneous Emphysema: Hamman's Syndrome. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(12) 661-663. FI: 4.957. Cuartil: 1. (Letter).*
- *Galeano-Valle, F; Donis-Sevillano, E. Right hypoglossal nerve palsy due to jugular paraganglioma. ATENCION PRIMARIA. 2019; 51(5) 320-321. FI: 1.087. Cuartil: 3. (Editorial Material).*
- *Fruchart, JC; Santos, RD; Aguilar-Salinas, C; Aikawa, M; Rasadi, K; Amarenco, P; Barter, PJ; Ceska, R; Corsini, A; Despres, JP; Duriez, P; Eckel, RH; Ezhov, MV; Farnier, M; Ginsberg, HN; Hermans, MP; Ishibashi, S; Karpe, F; Kodama, T; Koenig, W; Krempf, M; Lim, S; Lorenzatti, AJ; McPherson, R; Nunez-Cortes, JM; Nordestgaard, BG; Ogawa, H; Packard, CJ; Plutzky, J; Ponte-Negretti, CI; Pradhan, A; Ray, KK; Reiner, Z; Ridker, PM; Ruscica, M; Sadikot, S; Shimano, H; Sritara, P; Stock, JK; Su, TC; Susekov, AV; Tartar, A; Taskinen, MR; Tenenbaum, A; Tokgozoglu, LS; Tomlinson, B; Tybjaerg-Hansen, A; Valensi, P; Vrablik, M; Wahli, W; Watts, GF; Yamashita, S; Yokote, K; Zambon, A; Libby, P. The selective peroxisome proliferator-activated receptor alpha modulator (SPPARM) paradigm: conceptual framework and therapeutic potential: A consensus statement from the International Atherosclerosis Society (IAS) and the Residual Risk Reduction Initiati. CARDIOVASCULAR DIABETOLOGY. 2019; 18 -. FI: 7.332. Cuartil: 1. (Article).*
- *Lopez-de-Andres, A; de Miguel-Diez, J; Munoz-Rivas, N; Hernandez-Barrera, V; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Impact of type 2 diabetes mellitus in the utilization and in-hospital outcomes of surgical mitral valve replacement in Spain (2001-2015). CARDIOVASCULAR DIABETOLOGY. 2019; 18 -. FI: 7.332. Cuartil: 1. (Review).*
- *de Miguel-Yanes, JM; Jimenez-Garcia, R; Hernandez-Barrera, V; de Miguel-Diez, J; Mendez-Bailon, M; Munoz-Rivas, N; Perez-Farinos, N; Lopez-de-Andres, A. Infective endocarditis according to type 2 diabetes mellitus status: an observational study in Spain, 2001-2015. CARDIOVASCULAR DIABETOLOGY. 2019; 18(1) -. FI: 7.332. Cuartil: 1. (Article).*
- *Galeano-Valle, F; Perez-Rus, G; Demelo-Rodriguez, P; Ordieres-Ortega, L; Ortega-Moran, L; Munoz-Martin, A J; Medina-Molina, S; Alvarez-Sala-Walther, L A; Del-Toro-Cervera, J. Monitoring anti-Xa levels in patients with cancer-associated venous thromboembolism treated with bemiparin. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; -. FI: 2.737. Cuartil: 3. (Article).*
- *Troya, J; Ryan, P; Montejano, R; Cabello, A; Cuevas, G; Matarranz, M; Canamares, I; Solis, J; Walther, LAS. Alternative switching strategies based on regimens with a low genetic barrier: do clinicians have a choice nowadays?. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(3) 423-426. FI: 2.837. Cuartil: 2. (Review).*
- *Mendez-Bailon, M; Jimenez-Garcia, R; Hernandez-Barrera, V; Comin-Colet, J; Esteban-Hernandez, J; de Miguel-Diez, J; de Miguel-Yanes, JM; Munoz-Rivas, N; Lorenzo-Villalba, N; Lopez-de-Andres, A. Significant and constant increase in hospitalization due to heart failure in Spain over 15 year period. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 46-52. FI: 4.329. Cuartil: 1. (Article).*
- *Munoz-Rivas, N; Jimenez-Garcia, R; Mendez-Bailon, M; Hernandez-Barrera, V; de Miguel-Diez, J; Lorenzo-Villalba, N; de Miguel-Yanes, JM; Lopez-de-Andres, A. Type 2 diabetes increases the risk of hospital admission for heart failure and reduces the risk of in hospital mortality in Spain (2001-2015). EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 53-59. FI: 4.329. Cuartil: 1. (Article).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Jimenez-Trujillo, I; Hernandez-Barrera, V; Jimenez-Garcia, R; Lorenzo, A; Pedrajas, JM; Visona, A; Lopez-Miguel, P; Monreal, M; Adarraga, MD; Aibar, MA; Aibar, J; Alfonso, M; Amado, C; Aranda, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Carrasco, C; Cruz, AJ; de Miguel-Diez, J; del Toro, J; Diaz-Pedroche, MC; Diaz-Peromingo, JA; Falga, C; Fernandez-Capitan, C; Fidalgo, MA; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Morillo, M; Garcia-Ortega, A; Gavin, O; Gomez, V; Gonzalez-Martinez, J; Grau, E; Guijarro, R; Guirado, L; Gutierrez, J; Hernandez-Blasco, L; Isern, V; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Jimenez, J; Jou, I; Joya, MD; Lalueza, A; Lima, J; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Lumbierres, M; Madridano, O; Marchena, PJ; Martin-Martos; Monreal, M; Morales, MV; Nieto, JA; Nunez, A; Nunez, MJ; Olivares, MC; Otalora, S; Otero, R; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Perez-Jacoiste, A; Penis, ML; Pesce, ML; Porras, JA; Riesco, D; Rivas, A; Rodriguez-Davila, MA; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Sahuquillo, JC; Sala-Sainz, MC; Samperiz, A; Sanchez-Munoz-Torrero, JF; Sancho, T; Soler, S; Soto, MJ; Surinach, JM; Tolosa, C; Torrents, A; Torres, MI; Trujillo-Santos, J; Uresandi, F; Usandizaga, E; Valle, R; Vela, J; Vidal, G; Villalobos, A; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanasschc, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Farge-Bancel, D; Hij, A; Merah, A; Mahe, I; Moustafa, F; Braester, A; Brenner, B; Ellis, M; Tzoran, I; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Cattabiani, C; Ciammaichella, M; Dentali, F; Di Micco, P; Giorgi-Pierfranceschi, M; Grandone, E; Imbalzano, E; Maida, R; Mastroiacovo, D; Ngoc, V; Pace, F; Parisi, R; Pesavento, R; Prandoni,*

*P; Quintavalla, R; Rocci, A; Siniscalchi, C; Sotgiu, P; Tiraferri, E; Tufano, A; Visona, A; Zalunardo, B; Kalejs, R; Skride, A; Vitola, B; Bosevski, M; Zdraveska, M; Ii, B; Fresa, M; Mazzolai, L; Caprini, J; Bui, HM; RIETE Investigators. Mortality after pulmonary embolism in patients with diabetes. Findings from the RIETE registry. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 48-56. FI: 4.329. Cuartil: 1. (Article).*

- *Arcopinto, M; Schiavo, A; Salzano, A; Bossone, E; D'Assante, R; Marsico, F; Demelo-Rodriguez, P; Baliga, RR; Cittadini, A; Marra, AM. Metabolic Syndrome in Heart Failure: Friend or Foe?. HEART FAILURE CLINICS. 2019; 15(3) 349-. FI: 2.327. Cuartil: 3. (Article).*

- *Rodriguez-Jimenez, C; Pernia, O; Mostaza, J; Rodriguez-Antolin, C; Garcia-Diaz, JD; Alonso-Cerezo, C; Garcia-Polo, I; Blanco, A; Lahoz, C; Arrieta, F; Beltran, L; de Bustamante, AD; Garzon-Lorenzo, L; Alvarez-Sala, LA; Asenjo, A; de Caceres, II; Rodriguez-Novoa, S. Functional analysis of new variants at the low-density lipoprotein receptor associated with familial hypercholesterolemia. HUMAN MUTATION. 2019; 40(8) 1181-1190. FI: 4.124. Cuartil: 1. (Article).*

- *Murgier, M; Darmon, M; Zeni, F; Valle, R; Del Toro, J; Llamas, P; Mazzolai, L; Villalobos, A; Monreal, M; Brenner, B; Farge-Bancel, D; Barba, R; Di Micco, P; Bertoletti, L; Tzoran, I; Reis, A; Bounameaux, H; Maly, R; Verhamme, P; Bosevski, M; Caprini, JA; Adarraga, MD; Aibar, MA; Aibar, J; Alfonso, M; Amado, C; Aranda, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Carrasco, C; Cruz, AJ; del Pozo, R; del Toro, J; Diaz-Pedroche, MC; Diaz-Peromingo, JA; Encabo, M; Falga, C; Fernandez-Capitan, C; Fidalgo, MA; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Morillo, M; Garcia-Raso, A; Gavin, O; Gomez, V; Gonzalez-Martinez, J; Grau, E; Guijarro, R; Gutierrez, J; Isern, V; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Jimenez, J; Jou, I; Joya, MD; Lalueza, A; Lima, J; Llamas, P; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Lumbierres, M; Madridano, O; Marchena, PJ; Martin-Martos, F; Martin-Romero, M; Monreal, M; Morales, MV; Nieto, JA; Nunez, A; Nunez, MJ; Olivares, MC; Otalora, S; Otero, R; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Peris, ML; Pesce, ML; Porras, JA; Riesco, D; Rivas, A; Rodriguez-Davila, MA; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Sahuquillo, JC; Sala-Sainz, MC; Samperiz, A; Sanchez-Munoz-Torrero, JF; Sancho, T; Soler, S; Soto, MJ; Surinach, JM; Tolosa, C; Torres, MI; Trujillo-Santos, J; Uresandi, F; Usandizaga, E; Valle, R; Vela, J; Vidal, G; Villalobos, A; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanassche, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Farge-Bancel, D; Hij, A; Merah, A; Mahe, I; Moustafa, F; Braester, A; Brenner, B; EllisM; Tzoran, I; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Cattabiani, C; Ciammaichella, M; Dentali, F; DiMicco, P; Giorgi-Pierfranceschi, M; Grandone, E; Imbalzano, E; Maida, R; Mastroiacovo, D; Ngoc, V; Pace, F; Pallotti, G; Parisi, R; Pesavento, R; Prandoni, P; Quintavalla, R; Rocci, A; Romualdi, R; Siniscalchi, C; Sotgiu, P; Tiraferri, E; Tonello, D; Tufano, A; Visona, A; Skride, A; Bosevski, M; Krstevski, G; Zdraveska, M; Bounameaux, H; Mazzolai, L; Caprini, J; RIETE Investigators. Frequency and prognostic impact of acute kidney injury in patients with acute pulmonary embolism. Data from the RIETE registry. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 291 121-126. FI: 3.229. Cuartil: 2. (Article).*

- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Trends and hospital outcomes of lung transplantation among patients with and without chronic obstructive pulmonary disease in Spain: a national population-based study (2001-2015). INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2019; 14 729-737. FI: 2.772. Cuartil: 2. (Article).*

- *de Miguel-Diez, J; Jimenez-Garcia, R; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Lopez-de-Andres, A. National Trends In Kidney, Heart And Liver Transplants Among Patients With And Without Chronic Obstructive Pulmonary Disease In Spain (2001-2015). INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2019; 14 2235-2243. FI: 2.772. Cuartil: 2. (Article).*

- *de Miguel-Yanes, JM; Jimenez-Garcia, R; de Miguel-Diez, J; Hernandez-Barrera, V; Mendez-Bailon, M; Munoz-Rivas, N; Lopez-de-Andres, A. In-hospital outcomes for solid organ transplants according to type 2 diabetes status: An observational, 15-year study in Spain. INTERNATIONAL JOURNAL OF CLINICAL PRACTICE. 2019; 73(3) -. FI: 2.444. Cuartil: 2. (Article).*

- *De Miguel-Diez, J; Lopez-De-Andres, A; Hernandez-Barrera, V; De Miguel-Yanes, JM; Mendez-Bailon, M; Munoz-Rivas, N; Jimenez-Garcia, R. Chronic obstructive pulmonary disease is not associated with worse in-hospital outcomes after surgical aortic valve replacement in Spain (2001-2015). JOURNAL OF CARDIOVASCULAR SURGERY. 2019; 60(3) 413-421. FI: 1.415. Cuartil: 3. (Article).*

- *de Miguel-Diez, J; Jimenez-Garcia, R; Hernandez-Barrera, V; Puente-Maestu, L; Giron-Matute, WI; de Miguel-Yanes, JM; Mendez-Bailon, M; Villanueva-Orbaiz, R; Albaladejo-Vicente, R; Lopez-de-Andres, A. Trends in the Use and Outcomes of Mechanical Ventilation among Patients Hospitalized with Acute Exacerbations of COPD in Spain, 2001 to 2015. JOURNAL OF CLINICAL MEDICINE. 2019; 8(10) -. FI: 3.303. Cuartil: 1. (Article).*

- *Garcia-Garcia, A; Demelo-Rodriguez, P; Ordieres-Ortega, L; Cervilla-Munoz, E; Garcia-Fernandez-Bravo, I; Pulfer, MD; Lopez-Aparicio, A; Galeano-Valle, F; del Toro-Cervera, J. Idiopathic versus Provoked Renal Infarction: Characteristics and Long-Term Follow-Up of a Cohort of Patients in a Tertiary Hospital. KIDNEY & BLOOD PRESSURE RESEARCH. 2019; 44(6) 1432-1440. FI: 1.898. Cuartil: 3. (Article).*

- *de-Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Munoz-Rivas, N; Romero-Maroto, M; Jimenez-Garcia, R. Retrospective observational analysis of hospital discharge database to characterize primary pulmonary hypertension and its outcomes in Spain from 2004 to 2015. MEDICINE. 2019; 98(18) -. FI: 1.552. Cuartil: 3. (Article).*

- *Demelo-Rodriguez, P; Galeano-Valle, F; Garcia-Fernandez-Bravo, I; Piqueras-Ruiz, S; Alvarez-Sala-Walther, L; del Toro-Cervera, J. Rivaroxaban for the treatment of venous thromboembolism in real life A single-center prospective study. MEDICINE. 2019; 98(3) -. FI: 1.552. Cuartil: 3. (Article).*

- *Ditano-Vazquez, P; Torres-Pena, JD; Galeano-Valle, F; Perez-Caballero, AI; Demelo-Rodriguez, P; Lopez-Miranda, J; Katsiki, N; Delgado-Lista, J; Alvarez-Sala-Walther, LA. The Fluid Aspect of the Mediterranean Diet in the Prevention and Management of Cardiovascular Disease and Diabetes: The Role of Polyphenol Content in Moderate Consumption of Wine and Olive Oil. NUTRIENTS. 2019; 11(11) -. FI: 4.546. Cuartil: 1. (Review).*

- *Riera-Mestre, A; Mora-Lujan, JM; Trujillo-Santos, J; Del Toro, J; Nieto, JA; Pedrajas, JM; Lopez-Reyes, R; Soler, S; Ballaz, A; Cerda, P; Monreal, M; Monreal, M; Prandoni, P; Brenner, B; Farge-Bancel, D; Barba, R; Di Micco, P; Bertoletti, L; Schellong, S; Tzoran, I; Reis, A; Bosevski, M; Bounameaux, H; Maly, R; Verhamme, P; Caprini, JA; Bui, HM; Adarraga, MD; Agud, M; Aibar, MA; Alcalde-Manero, M; Alfonso, J; Amado, C; Arcelus, JI; Ballaz, A; Barba, R; Barbagelata, C; Barron, M; Barron-Andres, B; Blanco-Molina, A; Camon, AM; Canas, I; Castro, J; Cerda, P; de Miguel, J; del Toro, J; Demelo, P; Diaz-Pedroche, C; Diaz-Peromingo, JA; Dominguez, I; Escribano, JC; Falga, C; Fernandez-Capitan, C; Fernandez-Criado, MC; Fidalgo, MA; Flores, K; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Raso, A; Gavin-Bianco, O; Gavin-Sebastian, O; Gil-Diaz, A; Godoy-Diaz, D; Gomez, V; Gomez-Cuelvo, C; Gonzalez-Martinez, J; Grau, E; Guirado, L; Gutierrez, J; Hernandez-Blasco, LM; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Joya, MD; Jou, I; Lalueza, A; Lecumberri, R; Lima, J; Llamas, P; Lobo, JL; Lopez-Jimenez, L; Lopez-Meseguer, M; Lopez-Miguel, P; Lopez-Nunez, JJ; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Loring, M; Lumbierres, M; Madridano, O; Maestre, A; Marchena, PJ; Martin-Martos, F; Martinez-Baquerizo, C; Martinez-Garcia, MA; Mellado, M; Moises, J; Monreal, M; Morales, MV; Munoz-Bianco, A; Nieto, JA; Nunez, MJ; Olivares, MC; Olivera, PE; Ortega, C; Osorio, J; Otalora, S; Otero, R; Panadero-Macia, M; Parra, V; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Perez-Rus, G; Penis, ML; Pesantez, D; Porras, JA; Riera-Mestre, A; Rivas, A; Rodriguez-Cobo, A; Rodriguez-Matute, C; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Ruiz-Sada, P; Sahuquillo, JC; Sala-Sainz, MC; Salgueiro, G; Samperiz, A; Sanchez-Martinez, R; Sanchez-Munoz-Torrero, JF; Segui, E; Soler, S; Suarez, S; Surinach, JM; Tolosa, C; Torres, MI; Trujillo-Santos, J; Uresandi, F; Valero, B; Valle, R; Vidal, G; Aar, C; Villares, P; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanassche, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Debourdeau, P; Courtois, MC; Farge-Bancel, D; Helfer, H; Hij, A; Mahe, I; Moustafa, F; Schellong, S; Braester, A; Brenner, B; Tzoran, I; Bilora, F; Bortoluzzi, C; Ciammaichella, M; Dentali, F; Di Micco, P; Fermi, P; Imbaizano, E; Lodigiani, C; Maida, R; Mastroiacovo, D; Mumoli, N; Pace, F; Pesavento, R; Pomero, F; Prandoni, P; Quintavalla, R; Rocci, A; Rota, L; Siniscalchi, C; Tiraferri, E; Tufano, A; Visona, A; Hong, NV; Zalunardo, B; Kalejs, RV; Kigitovica, D; Skride, A; Bosevski, M; Zdraveska, M; Bounameaux, H; Mazzola, L; Capnini, JA; Tafur, AJ; Bui, HM; RIETE Investigators. Natural history of patients with venous thromboembolism and hereditary hemorrhagic telangiectasia. Findings from the RIETE registry. ORPHANET JOURNAL OF RARE DISEASES. 2019; 14(1) -. FI: 3.523. Cuartil: 2. (Article).*

- *Lopez-de-Andres, A; Perez-Farinos, N; de Miguel-Diez, J; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Type 2 diabetes and postoperative pneumonia: An observational, population-based study using the Spanish Hospital Discharge Database, 2001-2015. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*

- *de-Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; De Miguel-Yanes, JM; Mendez-Bailon, M; Munoz-Rivas, N; Jimenez-Garcia, R. Trends, characteristics, in-hospital outcomes and mortality in surgical mitral valve replacement among patients with and without COPD in Spain (2001-2015). PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Moreno Diaz J; Aranda Sanchez M; Gonzalez Munera A; Demelo Rodriguez P; Martin Iglesias D; Macia Rodiguez C; Munoz Munoz C; Ortiz Llaurado G; Lorenzo Lopez Reboiro M; Salgado Ordonez F. Getting to know internal medicine mentors: new training requirements. REVISTA CLINICA ESPANOLA. 2019; 219(2) 67-72. FI: 1.304. Cuartil: 3. (Article).*

- *Macia-Rodriguez C; Reboiro, MLL; Iglesias, DM; Gonzalez-Munera A; Diaz, JM; Martinez, AM; Llaurado, GO; Demelo-Rodriguez P; Munoz Munoz C; Ordonez, FS. Fifth-year internal medicine residents in Spain: A survey on education, assessment of competencies and job perspectives. REVISTA CLINICA ESPANOLA. 2019; 219(2) 61-66. FI: 1.304. Cuartil: 3. (Article).*

- *Demelo-Rodriguez, P; de Miguel-Yanesy, JM; Gomez-Vallejo, S. Clozapine-induced eosinophilia and serositis. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(2) 130-131. FI: 2.63. Cuartil: 2. (Letter).*

- *Jara-Palomares, L; Alfonso, M; Maestre, A; Jimenez, D; Garcia-Bragado, F; Font, C; Reyes, RL; Blasco, LH; Vidal, G; Otero, R; Monreal, M; Adarraga, MD; Aibar, MA; Aibar, J; Amado, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Canas, I; Carrasco, C; Castro, J; de Ancos, C; Del Toro, J; Demelo, P; Diaz-Peromingo, JA; Diaz-Simon, R; Falga, C; Farfan, AI; Fernandez-Capitan, C; Fernandez-Criado, MD; Fernandez-Nunez, S; Fidalgo, A; Font, L; Garcia, MA; Garcia-Morillo, M; Garcia-Raso, A; Gavin-Sebastian, O; Gayol, MD; Gil-Diaz, A; Gomez, V; Gomez-Cuervo, C; Gonzalez-Martinez, J; Grau, E; Gutierrez, J; Gutierrez-Gonzalez, S; Iglesias, M; Jaras, MJ; Jou, I; Joya, MD; Lalueza, A; Lima, J; Llamas, P; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Nunez, JJ; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Madridano, O; Marchena, PJ; Martin, JM; Mellado, M; Morales, MD; Nieto, ML; Nieto, JA; Nunez, MJ; Olivares, MC; Pedrajas, JM; Pellejero, G; Prez-Rus, G; Peris, ML; Porras, JA; Rivas, A; Rodriguez-Davila, MA; Rodriguez-Hernandez, AA; Rubio, CM; Ruiz-Artacho, P; Ruiz-Ruiz, J; Ruiz-Sada, P; Sahuquillo, JC; Salazar, V; Samperiz, A; Munoz-Torrero, JFS; Sancho, T; Soler, S; Surinach, JM; Tapia, E; Tolosa, C; Torres, MI; Trujillo-Santos, J; Uresandi, F; Valle, R; Villares, P; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanassche, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Celis, G; del Pozo, G; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Debourdeau, P; Farge-Bancel, D; Hij, A; Mahe, I; Moustafa, F; Schellong, S; Braester, A; Brenner, B; Tzoran, I; Sharif-Kashani, B; Barillari, G; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Ciammaichella, M; Dentali, F; Di Micco, P; Maida, R; Mastroiacovo, D; Mumoli, N; Pace, F; Parisi, R; Pesavento, R; Prandoni, P; Quintavalla, R; Rocci, A; Romualdi, R; Sinicalchi, C; Tufano, A; Visona, A; Hong, NV; Zalunardo, B; Gibietis, V; Kigitovica, D; Skride, A; Bosevski, M; Bounameaux, H; Mazzolai, L; Caprini, JA; Bui, HM; Pham, KQ; Reis, A; RIETE*

*Investigators. Comparison of seven prognostic tools to identify low-risk pulmonary embolism in patients aged <50 years. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Galeano-Valle, F; Perez-Latorre, L; Diez-Romero, C; Fanciulli, C; Aldamiz-Echeverria-Lois, T; Tejerina-Picado, F. Cervical and Oropharyngeal Lymphogranuloma Venereum: Case Report and Literature Review. SEXUALLY TRANSMITTED DISEASES. 2019; 46(10) 689-692. FI: 2.74. Cuartil: 3. (Review).*

***Publications of the main WOS collection in journals without impact factor:***

- *Lucia, OO; Pablo, DR; Sandra, PR; Jorge, D. Recurrent bilateral deep vein thrombosis after cava vein resection in a patient with leiomyosarcoma. BLOOD RESEARCH. 2019; 54(1) 1-1. (Editorial Material).*
- *Galeano-Valle, F; Diaz-Crespo, FJ; Melero-Martin, R; Apaza-Chavez, JE; Del-Toro-Cervera, J; Demelo-Rodriguez, P. Massive generalized crystal-storing histiocytosis associated with extracellular crystalline nephropathy: clinical, immunohistochemical, and ultrastructural studies of a unique disorder and review of the literature. CEN CASE REPORTS. 2019; 8(3) 166-172. (Review).*
- *Blasco, M; Ascaso, JF; Brea, A; Diaz, A; Hernandez-Mijares, A; Pedro-Botet, J; Pinto, X; Millan, J; Grp Dislipidemia Aterogenica SEA. Control of the overall lipid profile. CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS. 2019; 31(2) 75-88. (Review).*
- *Brea, A; Hernandez-Mijares, A; Millan, J; Ascaso, JF; Blasco, M; Diaz, A; Mantilla, T; Pedro-Botet, JC; Pinto, X. Non-HDL cholesterol as a therapeutic goal. CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS. 2019; 31 28-33. (Article).*
- *Hernandez-Mijares, A; Ascaso, JF; Blasco, M; Brea, A; Diaz, A; Mantilla, T; Pedro-Botet, J; Pinto, X; Millan, J. Residual cardiovascular risk of lipid origin. Components and pathophysiological aspects. CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS. 2019; 31 34-41. (Article).*
- *Oblitas, CM; Galeano-Valle, F; Vela-De La Cruz, L; Del Toro-Cervera, J; Demelo-Rodriguez, P. Omalizumab as a Provoking Factor for Venous Thromboembolism. DRUG TARGET INSIGHTS. 2019; 13 -. (Letter).*
- *Baltasar-Corral, J; Martin-Rojas, RM; Parra-Virto, A; Galeano-Valle, F; Del-Valle-Dieguez, M; Del-Toro-Cervera, J; Demelo-Rodriguez, P. Torcular herophili and lateral sinus thrombosis: An atypical presentation of Lemierre's syndrome. INTRACTABLE & RARE DISEASES RESEARCH. 2019; 8(3) 206-209. (Article).*
- *Oblitas, CMA; Galeano-Valle, F; Toledo-Samaniego, N; Pinilla-Llorente, B; Del Toro-Cervera, J; Alvarez-Luque, A; Garcia-Garcia, A; Demelo-Rodriguez, P. Budd-Chiari Syndrome in Behcet's Disease successfully managed with immunosuppressive and anticoagulant therapy: A case report and literature review. INTRACTABLE & RARE DISEASES RESEARCH. 2019; 8(1) 60-66. (Review).*
- *Perez-Sanz, MT; Cervilla-Munoz, E; Alonso-Munoz, J; Marcelo-Ayala, A; Pulfer, MD; Galeano-Valle, F. Retroperitoneal fibrosis associated with orbital pseudotumor without evidence of IgG4: A case report with review of literature. INTRACTABLE & RARE DISEASES RESEARCH. 2019; 8(1) 29-35. (Review).*
- *Benito-Martinez, E; Galeano-Valle, F; Gonzalez, A; Edgar, MA; Oprea-Ilies, G; Ioachimescu, AG; Pasquel, FJ. Ectopic ACTH Syndrome With Association of Multiple Pulmonary Sclerosing Pneumocytomas and Multiple Carcinoid Tumorlets. JOURNAL OF THE ENDOCRINE SOCIETY. 2019; 3(5) 937-942. (Article).*
- *Demelo-Rodriguez, P; Olleros, CL; Higueras, EM; Peligros, I; del Toro-Cervera, J. Gastrointestinal stromal tumor as a cause of cancer-associated thrombosis. REVISTA DE GASTROENTEROLOGIA DE MEXICO. 2019; 84(2) 250-252. (Letter).*

***Other publications***

- *Galeano-Valle F; Benito-Martinez E; Álvarez-Sala-Walther L; Oprea-Ilies G; Umpierrez GE; Pasquel FJ. An atypical presentation of diabetic myonecrosis. AACE CLINICAL CASE REPORTS. 2019; 5(1) -. (Article).*
- *Galeano-Valle F; Ordieres-Ortega L; Demelo-Rodriguez P. Acute thrombosis of the azygos vein and severe post-thrombotic syndrome of superior vena cava. MEDICINA CLINICA. 2019; 152(11) -. FI: 1.635. Cuartil: 3. (Letter).*
- *Zamorano-León JJ; Ballesteros S; de Las Heras N; Alvarez-Sala L; de la Serna-Soto M; Zekri-Nechar K; Freixer G; Calvo-Rico B; Yang Z; García-García JM; Lahera V; López-Farré AJ. Effect of Pectin on the Expression of Proteins Associated with Mitochondrial Biogenesis and Cell Senescence in HT29-Human Colorectal Adenocarcinoma Cells. PREVENTIVE NUTRITION AND FOOD SCIENCE. 2019; 24(01-ene.) 187-196. (Article).*

# 2.07 Acute cerebral ischemia. Stroke

Group Director: **Antonio Gil Núñez**
Organisms involved: **HGUGM**
**Emerging group**

## Description of the research group

Research group of the Vascular Neurology Section - Stroke Center on all aspects of cerebrovascular disease with participation in multidisciplinary and multicenter studies.

## Research lines

L1: Epidemiologic, clinical, and therapeutic aspects of cerebral ischemic disease.
L2: WEBICTUS II
L3: Diagnosis and therapy in cardioembolic cerebral ischemia.
L4: CAOS study
L5: Neurologic intervention in acute stroke.
L6: Validation of etiologic scales.
L7: Teleictus for the area
L8: Study on stroke code for delay times
L9: ESUS GM study
L10: Hidden FA detection in ESOS
L11: Stroke in cancer
L12: Prospective registration of unstable carotid plates in ESUS. PLACA-IN-Esus registration

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| DÍAZ | OTERO | FERNANDO | R1 | First Stage Researcher |
| FERNÁNDEZ | BULLIDO | YOLANDA | R1 | First Stage Researcher |
| GARCIA | PASTOR | ANDRES | R2 | Recognised Researcher |
| GIL | NUÑEZ | ANTONIO | R4 | Leading Researcher |
| IGLESIAS | MOHEDANO | ANA MARIA | R2 | Recognised Researcher |
| VALES | MONTERO | MARTA | R1 | First Stage Researcher |
| VAZQUEZ | ALEN | PILAR | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

TITLE: **"REgenerative Stem cell therapy for STroke in Europe**" H2020-RESSTORE
DIRECTOR: GIL NUÑEZ, ANTONIO
FUNDING BODY: EUROPEAN COMMISSION
PROJECT TYPE: European project
START DATE:01/10/2015
END DATE: 01/10/2020

## Publications

Total Impact Factor: **34.9**

| | Nº | FI |
|---|---|---|
| Own publications | 5 | 12.5 |
| Joint publications | 5 | 22.4 |
| First decile publications | 1 | 8.8 |
| First quartile publications | 4 | 22.3 |

| | | |
|---|---|---|
| Second quartile publications | 2 | 5.8 |
| Third quartile publications | 3 | 6.2 |
| Fourth quartile publications | 1 | 0.6 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **11** | **34.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Mohedano, AMI; Pastor, AG; Pinto, AD; Nunez, ACG. Bolus-to-Infusion Time in Stroke Patients Treated with Alteplase on the CT Table: A Clinical Concern. CEREBROVASCULAR DISEASES. 2019; 48(1-2) 96-97. FI: 2.698. Cuartil: 2. (Editorial Material).*
- *Garc?a-Pastor, A; Gil-N??ez, A; Ram?rez-Moreno, JM; Gonz?lez-Nafr?a, N; Tejada, J; Moniche, F; Portilla-Cuenca, JC; Mart?nez-S?nchez, P; Fuentes, B; Gamero-Garc?a, MA; de Leci?ana, MA; Masju?n, J; C?novas-Verge, D; Aladro, Y; Parkhutik, V; Lago-Mart?n, A; de Arce-Borda, AM; Usero-Ru?z, M; Delgado-Mederos, R; Pampliega, A; Ximenez-Carrillo, A; Bartulos-Iglesias, M; Castro-Reyes, E; Spanish Cerebrovasc Dis Study Grp. The risk of recurrent stroke at 24 months in patients with symptomatic carotid near-occlusion: results from CAOS, a multicentre registry study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(2) 230-237. FI: 4.516. Cuartil: 1. (Article).*
- *Zapata-Wainberg, G; Masjuan, J; Quintas, S; Ximenez-Carrillo, A; Pastor, AG; Zabaleta, MM; Cardona, P; Guerrero, MMF; Llull, L; Fernandez, LB; Rodrigo, MC; Egido, J; Serena, J; Vivancos, J; Res ANITA-FA Study. The neurologist's approach to cerebral infarct and transient ischaemic attack in patients receiving anticoagulant treatment for non-valvular atrial fibrillation: ANITA-FA study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(11) 1391-1398. FI: 4.516. Cuartil: 1. (Article).*
- *Otero-Ortega, L; Guti?rrez-Fern?ndez, M; Guti?rrez-Z??iga, R; Madero-Jarabo, R; de Leci?ana, MA; Laso-Garc?a, F; Lisbona, A; Delgado-Mederos, R; G?llego-Culler?, J; Mart?nez-Zabalete, M; Freijo, M; Portilla, JC; Gil-N??ez, A; D?ez-Tejedor, E; Fuentes, B; Spanish Cerebrovasc Dis Study Grp. The effect of post-stroke hyperglycaemia on the levels of brain damage and repair-related circulating biomarkers: the Glycaemia in Acute Stroke Study II. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(12) 1439-1446. FI: 4.516. Cuartil: 1. (Article).*
- *Vales-Montero, M; Garcia-Pastor, A; Iglesias-Mohedano, AM; Esteban-de Antonio, E; Salgado-Camara, P; Garcia-Dominguez, JM; Vazquez-Alen, P; Diaz-Otero, F; Fernandez-Bullido, Y; Gil-Nunez, A. Cerebral amyloid angiopathy-related transient focal neurological episodes: A transient ischemic attack mimic with an increased risk of intracranial hemorrhage. JOURNAL OF THE NEUROLOGICAL SCIENCES. 2019; 406 -. FI: 3.115. Cuartil: 2. (Article).*
- *Montero, MV; Sierra, OM; Martinez, JR; Gil, FF; Carballal, CF; Cuello, JP. Spinal epidural abscess caused by Streptococcus agalactiae in an immunocompetent patient. MEDICINA CLINICA. 2019; 153(7) 290-292. FI: 1.635. Cuartil: 3. (Editorial Material).*
- *de la Cruz, MH; Rubio, RD; Buzo, EL; Otero, FD; Alen, PV; Rincon, JO; Montalvo, JP; Chicote, AC; Perez, FG. Syndrome of transient headache and neurological deficits with cerebrospinal fluid lymphocytosis (HaNDL) in a patient with confusional symptoms, diffuse EEG abnormalities, and bilateral vasospasm in transcranial Doppler ultrasound: A case report and litera. NEUROLOGIA. 2019; 34(7) 493-495. FI: 2.283. Cuartil: 3. (Letter).*
- *Perez-Sanchez, JR; Rodriguez, MA; Diaz-Otero, F; Lesmes, IB. Treatment of idiopathic intracranial hypertension with bariatric surgery. NEUROLOGIA. 2019; 34(8) 536-542. FI: 2.283. Cuartil: 3. (Review).*
- *Ntaios, G; Georgiopoulos, G; Perlepe, K; Sirimarco, G; Strambo, D; Eskandari, A; Nannoni, S; Vemmou, A; Koroboki, E; Manios, E; Rodriguez-Campello, A; Cuadrado-Godia, E; Roquer, J; Arnao, V; Caso, V; Paciaroni, M; Diez-Tejedor, E; Fuentes, B; Pardo, JR; Sanchez-Velasco, S; Arauz, A; Ameriso, SF; Pertierra, L; Gomez-Schneider, M; Hawkes, MA; Barboza, MA; Cano, BC; Mohedano, AMI; Pastor, AG; Gil-Nunez, A; Putaala, J; Tatlisumak, T; Karagkiozi, E; Papavasileiou, V; Makaritsis, K; Bandini, F; Vemmos, K; Michel, P. A tool to identify patients with embolic stroke of undetermined source at high recurrence risk. NEUROLOGY. 2019; 93(23) 2094-2104. FI: 8.77. Cuartil: 1. (Article).*
- *Mas-Serrano, M; Garcia-Pastor, A; Tornero-Molina, P; Vazquez-Alen, P; Palacios-Mendoza, MA; Gil-Nunez, AC. Treatment of alteplase-induced orolingual angioedema by means of icatibant. REVISTA DE NEUROLOGIA. 2019; 69(6) 261-262. FI: 0.562. Cuartil: 4. (Letter).*

***Other publications***

- *Sánchez-Soblechero A; López-Anguita S; Díaz-Otero F; Vázquez Alen P. Bilateral intracerebral hemorrhage as a presentation of central nervous system vasculitis in a patient with dermatomyositis. ENEUROLOGICALSCI. 2019; 15 100181-100181. (Article).*

# AREA 3 NEUROSCIENCE AND MENTAL HEALTH

Coordinador de Area: **Celso Arango López**

One of the main research lines in the area of neuroscience is the study of the etiology and pathogenesis of neurodevelopmental disorders, such as autism spectrum disorders, schizophrenia, and other psychotic disorders.

The psychiatry group of this area participates and collaborates in national and international multicenter projects associated with environmental and genetic risk factors, functional and structural imaging studies, and intermediate mechanisms such as the search for endophenotypes and the biological bases of neuropsychology.

The relevance of the work carried out resides in the group's ability to perform longitudinal studies of unusual types of patient, such as those with early-onset first psychotic episodes or children and adolescents at risk of severe psychiatric disease. Research to date has been multidisciplinary and translational and oriented toward resolving findings associated with the clinical activity of these diseases. In fact, currently established clinical programs for these diseases are being investigated and benefiting from close coordination between clinical practice and research. One of the main associated research lines concerns developmental neuropsychopharmacology, which includes projects on pharmacogenetics and pharmacovigilance, as well as phase II/III clinical trials financed using competitive public funds and private funds.

Finally, a further 2 lines of interest for this group are research on the empirical evaluation of psychotherapeutic approaches during early-onset first psychotic episodes and research into quality of services and evaluation of programs. The success of the group has been particularly apparent in recent European calls for projects and its coordination of the Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM [Networked Center for Biomedical Research in Mental Health]). Furthermore, activity in neuroscience and mental health has been increasing in several emerging groups in fields such as neuroimmunology and movement disorders.

## GROUPS IN AREA 3

3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
3.03B Neurological diseases

# 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

Group Director: **Celso Arango López**
Organisms involved: **HGUGM**
**UCM**
**Consolidated Group**

## Description of the research group

The group "Neurobiological and psychologicall underpinnings of mental disorders. Neurodevelopmental disorders", led by Dr. Celso Arango, has developed a prolific research activity in collaboration with national and international groups during recent years. This group is one of the few to gain international recognition in the field of chilhood and adolescent onset schizophrenia and early onset psychosis, as well as in neuropsychopharmacology in neurodevelopmental disorders. The quality of its scientific output is reflected by the number of projects with external evaluation thad have been funded by competitive calls of public and private institutions (e.g., Instituto de Salud Carlos III, Ministerio de Educación, BBR Foundation, Fundación Mutua Madrileña, Fundación Alicia Koplowitz), predoctoral and postdoctoral researchers with contracts funded by public competitive funds, publications, and collaborations, including development of several novel research lines in collaboration with other departments at the Hospital and IiSGM (e.g., biochemistry, medical imaging, experimental medicine, cardiology, genetics, and nutrition, among others). The research team also has broad experience in training in research through a systematic training plan with regular quality checks as part of the EFQM quality assurance program implemented in the Department of Child and Adolescent Psychiatry, Institute of Psychiatry and Mental Health, which has achieved a "+500 " classification in the EFQM programme. Several members of the group participate or have participated in 10 projects funded by the European Union Seventh Framework Programme, including one project funded "Network of European Funding for Neuroscience Research (ERANET-NEURON)", 3 projects funded by the Innovative Medicines Call of Horizon 2020 and a project funded by the United States National Institute of Mental Health (NIMH). The group has published numerous articles in high-impact journals (e.g., Nature, Nature Genetics, PNAS, American Journal of Psychiatry, JAMA, Lancet Psychiatry, British Journal of Psychiatry, Schizophrenia Bulletin, Journal of the American Academy of Child and Adolescent Psychiatry, etc.) in the fields of schizophrenia, autism spectrum disorders, and other neurodevelopmental disorders. Their scientific activity has also been translated to clinical practice through several clinical trials and the development and publication of clinical practice guidelines for the management of children and adolescents with neurodevelopmental disorders and other conditions such as psychosis, bipolar disorder, and autism spectrum disorder.

## Research lines

**Axis 1: Consolidation of research networks and alliances in neuroscience**

L1: Consolidation of a network for the evaluation of new therapeutic strategies in Autism Spectrum Disorders. Leader: Mara Parellada and Celso Arango

L 2 More efficient integration of the basic research developed at the UCM and the clinical one developed at the HGUGM through collaborative projects and the use of animal models. Leaders: Celso Arango, Carmen Moreno,.

L 3: Increase the capacity and complementarity of our group within CIBERSAM to ensure extension of the samples necessary to reach significant results in collaborative studies. Leaders: Celso Arango, Covadonga Martínez and Carmen Moreno.

**Axis 2: Consolidation of research lines in neuroscience**

L 1: Consolidation of the line of research on populations at high risk of developing mental disorders and neurodevelopmental disorders Leader: Dolores Moreno, Celso Arango, Covadonga Martínez and Carmen Moreno.

L 2: Extension of additional sources of funding; autonomous communities, national, international. Leaders: Celso Arango, Covadonga Martínez, Mara Parellada, Carmen Moreno

L 3: Increase scientific output in the Neurodevelopmental Disorders program. Leaders: Celso Arango, Covadonga Martínez.

L 4: Increase in scientific production in basic research. Leader: Celso Arango.

L 5: Continuation and promotion of transnational and collaborative research in schizophrenia and other psychoses. Leaders: Celso Arango.

**Axis 3: Consolidation of the teaching plan in neurosciences**

L 1: Consolidation of the group's teaching plan with a stable offer of courses, training placements, and preparation of doctoral theses. Leaders: Celso Arango, Covadonga Martínez

**Axis 4: Consolidation of infrastructure**

L 1: Extension of laboratory structures and equipment; consolidation of the Psychiatry Laboratory. Leaders: Celso Arango

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ABREGU | CRESPO | RENZO | R1 | First Stage Researcher |
| ALLOZA | ROMERO | CLARA | R2 | Recognised Researcher |
| ANDREU | BERNABEU | ÁLVARO | R1 | First Stage Researcher |
| ARANGO | LÓPEZ | CELSO | R4 | Leading Researcher |
| ARANGO | VICTORIA | MANUEL JOVINO | Otros | |
| AYORA | RODRIGUEZ | MIRIAM | R1 | First Stage Researcher |
| BALTASAR | TELLO | ITZIAR | R1 | First Stage Researcher |
| BARCENILLA | GONZALEZ | MIGUEL ANGEL | Otros | |
| BOADA | MUÑOZ | LETICIA | R1 | First Stage Researcher |
| BRAVO | SANCHEZ | MARTA | R1 | First Stage Researcher |
| BURDEUS | OLAVARRIETA | MONICA | R1 | First Stage Researcher |
| CALVO | CALVO | ANA BELEN | R2 | Recognised Researcher |
| CARBALLO | BELLOSO | JUAN JOSE | R3 | Established Researcher |
| CARNICER | CASTAÑO | MARÍA | | |
| CEREZO | ROMÁN | LOURDES | R1 | First Stage Researcher |
| COLOMAR | MOLLA | LAURA | R1 | First Stage Researcher |
| CONEJO | GALINDO | JAVIER | R1 | First Stage Researcher |
| CORRAL | ZARAPUZ | AZUCENA | Otros | |
| CUADRADO | CALLEJA | PEDRO | R2 | Recognised Researcher |
| CUESTA | SANTAMARÍA | MARÍA LUISA | Other | Nurse |
| DE MATTEIS | | MARIO | R1 | First Stage Researcher |
| DE PORTUGAL | FERNÁNDEZ DEL RIVERO | ENRIQUE | R1 | First Stage Researcher |
| DELGADO | LACOSTA | CARLOS | R1 | First Stage Researcher |
| DORADO | MARTÍNEZ | MARÍA LUISA | R1 | First Stage Researcher |
| DURAN | CUTILLA | MANUEL | R1 | First Stage Researcher |
| ESGUEVILLAS | CUESTA | ÁLVARO | R1 | First Stage Researcher |
| ESPLIEGO | FELIPE | ANA | R1 | First Stage Researcher |
| FADÓN | MARTÍN | PATRICIA AURORA | R1 | First Stage Researcher |
| FERRE | NAVARRETE | FRANCISCO | | |
| FRESNO | CEREZO | RAFAEL | Other | Nurse |
| GARCIA | ALCON | ALICIA | | |
| GARCIA | MARTINEZ | ELISA | | |
| GARCÍA | BERNARDO | ENRIQUE | | |
| GARCÍA | CABEZA | IGNACIO | | |
| GARIBI | PÉREZ | AINHOA | | |
| GARRIZ | LUIS | ALEXANDRA | Other | Nurse |
| GIL | MOLINA | SANTIAGO | | |
| GOMEZ | AGUILILLA | SARA | | |
| GONZALEZ | PEÑAS | JAVIER | | |
| HERNANDEZ | ALVAREZ | FABIAN | | |
| HERNANDEZ | JUSDADO | PATRICIA | | |
| HUERTAS | PATÓN | ABIGAIL | | |
| HUETE | DIEGO | MIGUEL A. | | |
| JANSSEN | JEUCKEN | JOOST | | Established Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| LAORDEN | NIETO | ALEJANDRA TERESA | | |
| LLORENTE | SARABIA | CLOE | | |
| LOPEZ | MONTOYA | GONZALO | | |
| LOPEZ | MORENO | LAURA | | |
| LUCAS | SÁNCHEZ | MARÍA | Other | NUrse |
| MAGAZ | MUÑOZ | ANA MARIA | | |
| MARTINEZ | RODRIGUEZ | KENIA | | |
| MARTÍNEZ | DÍAZ-CANEJA | MARÍA COVADONGA | | Established Researcher |
| MAYORAL | ARAGON | MARIA | | |
| MENDEZ | HERNÁNDEZ | MARÍA ANDREINA | | |
| MENDOZA | GARCÍA | ANA | | |
| MERCHAN | NARANJO | JESSICA | | |
| MERCHAN | RIBERA | SUSANA | | |
| MOLINA | GARCIA | MARIA DOLORES | | |
| MORÁN | MOYA | PURIFICACION | | |
| MORENO | PARDILLO | Mª DOLORES | | |
| MORENO | RUIZ | CARMEN | | Established Researcher |
| MUNILLA | SUAREZ | ESTRELLA | | |
| OLMEDA | GARCÍA | MARIA SOLEDAD | | |
| PARELLADA | REDONDO | Mª JOSE | | Established Researcher |
| PARRO | TORRES | CARLOS | | |
| PENZOL | ALONSO | MARIA JOSE | | |
| PEREZ | SANTONJA | JAVIER | | |
| PICOUTO | GONZALEZ | MARIA DOLORES | | |
| PINA | CAMACHO | LAURA | | Established Researcher |
| RAPADO | CASTRO | MARTA | | Established Researcher |
| RECIO | LAMPARERO | SANDRA | | |
| RIVAS | CAMBRONERO | EVA | | |
| RIVAS | RODRÍGUEZ | MARÍA DEL MAR | | |
| RODRIGUEZ | LATORRE | PAMELA | | |
| RODRIGUEZ | TOSCANO | ELISA | | |
| ROLDAN | DIAZ | LAURA | | |
| ROMO | VILLA | JOSÉ | | |
| RONCERO | RODRÍGUEZ | MARISOL | | |
| RUBIO | FERNANDEZ | PATRICIA | | |
| SAN JOSE | CACERES | ANTONIA | | |
| SANCHEZ | DIAZ | EMILIO IGNACIO | | |
| SANCHEZ | GUTIERREZ | TERESA | | |
| SEVILLA | CERMEÑO | LAURA | | |
| SIPOS | GALVEZ | LOURDES | | |
| STELLA | | CAROL | | First Stage Researcher |
| SZERMAN | BOLOTNER | NESTOR | | |
| TAPIA | CASELLAS | CECILIA | | |
| TORRERO | ALÍA | MARÍA | R1 | First Stage Researcher |
| ULLOA | SOLÍS | ÁNGELA MÁRÍA | | |
| URBIOLA | MERINA | ELENA | | |
| VALENCIA | AGUDO | FATIMA | | |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| VERDURA | VIZCAÍNO | JOSÉ ERNESTO | | |
| VICENTE | MORENO | RAQUEL PILAR | | |
| VICENTE | SANCHEZ | ISABEL | | |
| VIDAL | DE LA FUENTE | JORGE | | |

## *Research Projects – Competitive Calls*

TITLE: **H2020 Autism Innovative Medicine Studies – 2 – Trials.** H2020 AIMS-2-TRIALS
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: H2020 European research project
START DATE: 01/05/2018
END DATE: 31/05/2023

TITLE: **Multidisciplinary Approaches to Translational Research in Conduct Syndromes 603016-2 (MATRICS)** 7PM13/MATRICS
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: European research project
START DATE: 01/03/2014
END DATE: 01/03/2019

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT: Integrated research project of excellence
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1 : mecanismos epigenéticos y comorbilidad afectiva** PI18/01819
DIRECTOR: CARBALLO BELLOSO, JUAN JOSÉ
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles.** PI18/01119
DIRECTOR: MORENO PARDILLO, Mª DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente.** PI18/00753
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 año.** PI17/02227
DIRECTOR: MORENO RUIZ, CARMEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018

END DATE: 31/12/2020

TITLE: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista.** PI17/01997
DIRECTOR: PINA CAMACHO, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis.** PI17/01249
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997
DIRECTOR: MAYORAL ARAGON, MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Biotipos en Trastornos del Especto Autista: relación con evolución clínica y respuesta a fármacos** PI17/00819
DIRECTOR: PARELLADA REDONDO, Mª JOSE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de deleción 22q11.2** PI17/00481
DIRECTOR: FRAGUAS HERRAEZ, DAVID
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Evaluación de la eficacia de una intervención preventiva sobre la prevalencia de bullying y el estado de salud en niños y adolescentes: Ensayo Clínico autorizado por Clusters**. PI16/02012
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Estudio de seguimiento a 8 años de la primera evaluación de niños y adolescentes hijos de pacientes con esquizofrenia o trastorno bipolar"** PI15/00810
DIRECTOR: MORENO PARDILLO, MARIA DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Estudio multicéntrico del maltrato en la infancia y el riesgo para enfermedad mental en niños y adolescentes: análisis de modificaciones epigenéticas y de su correlato con biomarcadores de inmunidad innata en un modelo periférico**. PI15/00723
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Estudio de vias fisiopatológicas diferenciales asociadas a fenotipos distintivos en una muestra de 200 pacientes con trastornos del espectro autista**. PI14/02103
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 31/12/2019

TITLE: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayo r de inicio temprano**. PI14/00815
DIRECTOR: JANSEN, JOOST
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayo r de inicio temprano"**. PI14/02069
DIRECTOR: MORENO ALONSO, CARMEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01
DIRECTOR: PINA CAMACHO, LAURA
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2019
END DATE: 31/10/2021

TITLE: **Combinación de tratamiento con N-acetil Cisteína (NAC) y entrenamiento cognitivo para promover cambios en los patrones de activación conductuales y neurales que subyacen al déficit cognitivo en psicosis adolescente** FAK18/01
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2018
END DATE: 31/10/2020

TITLE: **Prevención de envejecimiento celular en adolescentes con primer episodio psicótico tratados con N-acetil cisteína** FAK17/01
DIRECTOR: FRAGUAS HERRAEZ, DAVID
FUNDING BODY: FUNDACIÓN ALICIA KOPLOWITZ
TYPE OF PROJECT:Research project
START DATE: 01/11/2017
END DATE: 31/10/2019

TITLE: **A combination of two treatment strategies to promote changes in behavioral and neural activation patterns underlying cognitive deficits in adolescent psychosis** NARSAD2016
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: BRAIN & BEHAVIOUR RESEARCH FOUNDATION
TYPE OF PROJECT:Research project
START DATE: 01/06/2019
END DATE: 31/12/2019

TITLE: **Convocatoria beca predoctoral en Neurociencias 2016** FTPGB16/01
DIRECTOR: MOLINA GARCIA, MARIA DOLORES
FUNDING BODY: FUNDACIÓN TATIANA PEREZ DE GUZMAN EL BUENO
TYPE OF PROJECT:Research project
START DATE 12/12/2016
END DATE: 11/12/2020

TITLE: **Ramón y Cajal Contract** RYC-2017-23144
DIRECTOR: RAPADO CASTRO, MARTA

FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/09/2018
END DATE: 31/08/2024

TITLE: **Ramón y Cajal Contract** RYC-2017-23144
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/09/2018
END DATE: 31/08/2024

TITLE: **Beca de doctorado Fundación Bancaria La Caixa-** INPHINIT2018-CS
DIRECTOR: ARANGO LÓPEZ, CELSO (Carol Stella)
FUNDING BODY: LA CAIXA
TYPE OF PROJECT:Human resources
START DATE: 29/10/2018
END DATE: 28/10/2021

TITLE: **Miguel Servet Contract** CP18/00077
DIRECTOR: RAPADO CASTRO, MARTA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 01/10/2019

TITLE: **Río Hortega Contract** CM17/00119
DIRECTOR: DURÁN CUTILLA, MANUEL
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 29/01/2018
END DATE: 28/01/2020

TITLE: **Río Hortega Contract** CM17/00121
DIRECTOR: AYORA RODRIGUEZ, MIRIAM VALLE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 29/01/2018
END DATE: 28/01/2020

TITLE: **Sara Borrell Contract** CD18/00185
DIRECTOR: ARANGO LÓPEZ, CELSO (Kenia MArtínez)
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 01/10/2019

TITLE: **PREDOCTORAL Contract** FI18/00233
DIRECTOR: BURDEUS OLAVARRIETA, MONICA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III (AYUDAS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD)
TYPE OF PROJECT:Human resources
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **PREDOCTORAL Contract** FI17/00230
DIRECTOR: ABREGU CRESPO, RENZO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III (AYUDAS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD)
TYPE OF PROJECT:Human resources
START DATE: 02/04/2018
END DATE: 01/04/2022

TITLE: **JUAN RODÉS Contract** JR16/00013
DIRECTOR: PINA CAMACHO, LAURA

FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Ayudas para la incorporación estable de Doctores**. IEDI-2016-00793
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
TYPE OF PROJECT:Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Formación profesorado universitario** FPU18/06550
DIRECTOR: RUBIO FERNANDEZ, PATRICIA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 29/10/2019
END DATE: 28/10/2023

TITLE: **Formación profesorado universitario** FPU16/01740
DIRECTOR: GARCIA ALCON, ALICIA
FUNDING BODY: MICINN/MINECO
TYPE OF PROJECT:Human resources
START DATE: 24/10/2017
END DATE: 23/10/2021

TITLE: **Formación profesorado universitario** FPU17/06467
DIRECTOR: COLOMAR MOLLA, LAURA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 26/10/2018
END DATE: 25/10/2022

TITLE: **JUAN DE LA CIERVA 2017. INCORPORACIÓN** IJCI-2017-33381
DIRECTOR: MARTINEZ RODRIGUEZ, KENIA
FUNDING BODY: MICINN
TYPE OF PROJECT:Human resources
START DATE: 01/10/2018
END DATE: 22/01/2019

TITLE: **Young employement contract. Ayudante investigación** PEJ-2017-AI/BMD-6274
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 02/02/2018
END DATE: 01/02/2020

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-8487
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 02/02/2019
END DATE: 01/02/2021

TITLE: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9585
DIRECTOR: JANSSEN JEUCKEN, JOOST
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE01/01/2019
END DATE: 29/10/2019

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | CIBERSAM (CIBER de Salud Mental) | Coordinating group |

## Doctoral theses, Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **María Covadonga Martínez Díaz-Caneja** | Efectos secundarios de tipo metabólico asociados al tratamiento con antipsicóticos de segunda generación en niños, adolescentes y adultos. | Celso Arango López | UCM | 01/02/2019 |
| Ph Thesis | **Jose De Arriba Enriquez** | Productividad científica y calidad en servicios en salud mental: Estudio de la asociación entre la actividad científica en psiquiatría, y la calidad asistencial sanitaria prestada a pacientes en servicios de psiquiatría en hospitales españoles.. | Celso Arango López | UC3M | 01/03/2019 |
| Ph Thesis | **Alejandra Laorden Nieto** | Caracterización del rendimiento neuropsicológico en personas con síndrome de deleción 22q11.2 | David Fraguas Herraez<br>Maria Mayoral Aragon<br>Juan José Carballo Belloso | UCM | 01/03/2019 |

## Clinical Practice Guidelines

| Authors | Title | Journal / Reference |
|---|---|---|
| Hebebrand, J.; Falissard, B.; Hoekstra, PJ.; Kaess, M.; Melchior, M.; Micali, N.; Moreno, C.; Rommelse, N.; Roessner, V.; Signorini, G. | EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry. | European Child and Adolescent Psychiatry, 28(6):731-734 |
| Arango, C.; Baeza, I.; Bernardo, M.; Cañas, F.; de Dios, C.; Díaz-Marsá, M.; García-Portilla, MP.; Gutiérrez-Rojas, L.; Olivares, JM.; Rico-Villademoros, F.; Rodríguez-Jiménez, R.; Sánchez-Morla, EM.; Segarra, R.; Crespo-Facorro, B. | Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain | Revista de Psiquiatría y Salud Mental, 12(2):92-105 |

## Publications

Total Impact Factor: **279.7**

| | Nº | FI |
|---|---|---|
| Own publications | 15 | 69.0 |
| Joint publications | 30 | 210.8 |
| First decile publications | 24 | 207.4 |
| First quartile publications | 34 | 251.8 |
| Second quartile publications | 8 | 22.6 |
| Third quartile publications | 3 | 5.3 |
| Fourth quartile publications | 0 | 0.0 |

| | | |
|---|---|---|
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **47** | **279.7** |



***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Gonzalez, E; Arias, F; Szerman, N; Vega, P; Mesias, B; Basurte, I. Coexistence between personality disorders and substance use disorder. Madrid study about prevalence of dual pathology. ACTAS ESPANOLAS DE PSIQUIATRIA. 2019; 47(6) 218-228. FI: 1.681. Cuartil: 3. (Article).*

- *de Zwarte, SMC; Brouwer, RM; Agartz, I; Alda, M; Aleman, A; Alpert, KI; Bearden, CE; Bertolino, A; Bois, C; Bonvino, A; Bramon, E; Buimer, EEL; Cahn, W; Cannon, DM; Cannon, TD; Caseras, X; Castro-Fornieles, J; Chen, Q; Chung, Y; De la Serna, E; Di Giorgio, A; Doucet, GE; Eker, MC; Erk, S; Fears, SC; Foley, SF; Frangou, S; Frankland, A; Fullerton, JM; Glahn, DC; Goghari, VM; Goldman, AL; Gonul, AS; Gruber, O; de Haan, L; Hajek, T; Hawkins, EL; Heinz, A; Hillegers, MHJ; Pol, HEH; Hultman, CM; Ingvar, M; Johansson, V; Jonsson, EG; Kane, F; Kempton, MJ; Koenis, MMG; Kopecek, M; Krabbendam, L; Kramer, B; Lawrie, SM; Lenroot, RK; Marcelis, M; Marsman, JBC; Mattay, VS; McDonald, C; Meyer-Lindenberg, A; Michielse, S; Mitchell, PB; Moreno, D; Murray, RM; Mwangi, B; Najt, P; Neilson, E; Newport, J; van Os, J; Overs, B; Ozerdem, A; Picchioni, MM; Richter, A; Roberts, G; Aydogan, AS; Schofield, PR; Simsek, F; Soares, JC; Sugranyes, G; Toulopoulou, T; Tronchin, G; Walter, H; Wang, L; Weinberger, DR; Whalley, HC; Yalin, N; Andreassen, OA; Ching, CRK; van Erp, TGM; Turner, JA; Jahanshad, N; Thompson, PM; Kahn, RS; van Haren, NEM. The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. BIOLOGICAL PSYCHIATRY. 2019; 86(7) 545-556. FI: 12.095. Cuartil: 1. (Article).*

- *Craig, MC; Mulder, LM; Zwiers, MP; Sethi, A; Hoekstra, PJ; Dietrich, A; Baumeister, S; Aggensteiner, PM; Banaschewski, T; Brandeis, D; Werhahn, JE; Walitza, S; Castro-Fornieles, J; Arango, C; Schulze, UME; Glennon, JC; Franke, B; Santosh, PJ; Mastroianni, M; van Asten, JJA; Buitelaar, JK; Lythgoe, DJ; Naaijen, J. Distinct associations between fronto-striatal glutamate concentrations and callous-unemotional traits and proactive aggression in disruptive behavior. CORTEX. 2019; 121 135-146. FI: 4.009. Cuartil: 1. (Article).*

- *Arango, C. Psychiatrists are experts when it comes to missing boats. Will prevention be the next one?. EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE. 2019; 269(8) 869-870. FI: 3.288. Cuartil: 2. (Editorial Material).*

- *Moreno, C; Parellada, M; MacDowell, KS; Garcia-Bueno, B; Cabrera, B; Gonzalez-Pinto, A; Saiz, P; Lobo, A; Rodriguez-Jimenez, R; Berrocoso, E; Bernardo, M; Leza, JC; FLAMM-PEPs Study; Ctr Invest Biomedica Red Salud Men. Differences in the regulation of inflammatory pathways in adolescent- and adult-onset first-episode psychosis. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2019; 28(6) 731-734. FI: 3.941. Cuartil: 1. (Editorial Material).*

- *Hebebrand, J; Falissard, B; Hoekstra, PJ; Kaess, M; Melchior, M; Micali, N; Moreno, C; Rommelse, N; Roessner, V; Signorini, G. EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2019; 28(3) 289-291. FI: 3.941. Cuartil: 1. (Editorial Material).*

- *Moreno, C; Zuddas, A. Re-thinking treatment targets in child and adolescent psychiatry. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2019; 28(10) 1395-1405. FI: 3.941. Cuartil: 1. (Article).*

- *Fusar-Poli, P; Bauer, M; Borgwardt, S; Bechdolf, A; Correll, CU; Do, KQ; Domschke, K; Galderisi, S; Kessing, LV; Koutsouleris, N; Krebs, MO; Lennox, B; McGuire, P; Meyer-Lindenberg, A; Millan, MJ; Nieman, D; Pfennig, A; Sand, M; Whenert, A; van Amelsvoort, T; Arango, C. European college of neuropsychopharmacology network on the prevention of mental disorders and mental health promotion (ECNP PMD-MHP). EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2019; 29(6) 786-794. FI: 3.853. Cuartil: 1. (Article).*

- *Casquero-Veiga, M; Garcia-Garcia, D; MacDowell, KS; Perez-Caballero, L; Torres-Sanchez, S; Fraguas, D; Berrocoso, E; Leza, JC; Arango, C; Desco, M; Soto-Montenegro, ML. Risperidone administered during adolescence induced metabolic, anatomical and inflammatory/oxidative changes in adult brain: A PET and MRI study in the maternal immune stimulation animal model. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2019; 29(7) 880-896. FI: 3.853. Cuartil: 1. (Article).*

- *Bioque, M; Mas, S; Costanzo, MC; Cabrera, B; Lobo, A; Gonzalez-Pinto, A; Rodriguez-Toscano, E; Corripio, I; Vieta, E; Baeza, I; Ibanez, A; Fraile, MG; Cuesta, MJ; Mezquida, G; Lafuente, A; Bernardo, M; Amoretti, S; Meseguer, A; Lopez, G; Vidal, J; Alonso, A; Rabella, M; Ortega, IG; Lopez, P; Barcones, MF; de-La-Camara, C; Sanjuan, J; Rovira, EL; Mane, A; Berge, D; Sole, B; Gomes-Da Costa, S; de la Serna, E; Castro-Fornieles, J; Contreras, F; Albacete, A; Garcia-Alvarez, L; Tomas, LD; Zabala, A; Segarra, R; Morales-Munoz, I; Rodriguez-Jimenez, R; Usall, J; Butjosa, A; Sarro, S; Landin-Romero, R; Saiz-Ruiz, J; Lopez-Ilundain, JM; Balanza-Martinez, V; PEPs GRP. Gene-environment interaction between an endocannabinoid system genetic polymorphism and cannabis use in first episode of psychosis. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2019; 29(12) 1301-1311. FI: 3.853. Cuartil: 1. (Review).*

- *Diaz-Caneja, CM; Cervilla, JA; Haro, JM; Arango, C; de Portugal, E. Cognition and functionality in delusional disorder. EUROPEAN PSYCHIATRY. 2019; 55 52-60. FI: 4.464. Cuartil: 1. (Article).*

- *van den Heuvel, MP; Scholtens, LH; van der Burgh, HK; Agosta, F; Alloza, C; Arango, C; Auyeung, B; Baron-Cohen, S; Basaia, S; Benders, MJNL; Beyer, F; Booij, L; Braun, KPJ; Busatto, G; Cahn, W; Cannon, DM; Chaim-Avancini, TM; Chan, SSM; Chen, EYH; Crespo-Facorro, B; Crone, EA; Dannlowski, U; de Zwarte, SMC; Dietsche, B; Donohoe, G; Du Plessis, S; Durston, S; Diaz-Caneja, CM; Diaz-Zuluaga, AM; Emsley, R; Filippi, M; Frodl, T; Gorges, M; Graff, B; Grotegerd, D; Gasecki, D; Hall, JM;*

*Holleran, L; Holt, R; Hopman, HJ; Jansen, A; Janssen, J; Jodzio, K; Jancke, L; Kaleda, VG; Kassubek, J; Masouleh, SK; Kircher, T; Koevoets, MGJC; Kostic, VS; Krug, A; Lawrie, SM; Lebedeva, IS; Lee, EHM; Lett, TA; Lewis, SJG; Liem, F; Lombardo, MV; Lopez-Jaramillo, C; Margulies, DS; Markett, S; Marques, P; Martinez-Zalacain, I; McDonald, C; McIntosh, AM; McPhilemy, G; Meinert, SL; Menchon, JM; Montag, C; Moreira, PS; Morgado, P; Mothersill, DO; Merillat, S; Muller, HP; Nabulsi, L; Najt, P; Narkiewicz, K; Naumczyk, P; Oranje, B; de la Foz, VOG; Peper, JS; Pineda, JA; Rasser, PE; Redlich, R; Repple, J; Reuter, M; Rosa, PGP; Ruigrok, ANV; Sabisz, A; Schell, U; Seedat, S; Serpa, MH; Skouras, S; Soriano-Mas, C; Sousa, N; Szurowska, E; Tomyshev, AS; Tordesillas-Gutierrez, D; Valk, SL; van den Berg, LH; van Erp, TGM; van Haren, NEM; van Leeuwen, JMC; Villringer, A; Vinkers, CCH; Vollmar, C; Waller, L; Walter, H; Whalley, HC; Witkowska, M; Witte, AV; Zanetti, MV; Zhang, R; de Lange, SC; Cambridge Child Dev Project. 10Kin1day: A Bottom-Up Neuroimaging Initiative. FRONTIERS IN NEUROLOGY. 2019; 10 -. FI: 2.889. Cuartil: 2. (Article).*

- *Penzol, MJ; de Pablo, GS; Llorente, C; Moreno, C; Hernandez, P; Dorado, ML; Parellada, M. Functional Gastrointestinal Disease in Autism Spectrum Disorder: A Retrospective Descriptive Study in a Clinical Sample. FRONTIERS IN PSYCHIATRY. 2019; 10 -. FI: 2.849. Cuartil: 2. (Article).*

- *Schepers, E; Lousberg, R; Guloksuz, S; Pries, LK; Delespaul, P; Kenis, G; Luykx, JJ; Lin, BD; Richards, AL; Akdede, B; Binbay, T; Altinyazar, V; Yalincetin, B; Gumus-Akay, G; Cihan, B; Soygur, H; Ulas, H; Cankurtaran, ES; Kaymak, SU; Mihaljevic, MM; Petrovic, SA; Mirjanic, T; Bernardo, M; Cabrera, B; Bobes, J; Saiz, PA; Garcia-Portilla, MP; Sanjuan, J; Aguilar, EJ; Santos, JL; Jimenez-Lopez, E; Arrojo, M; Carracedo, A; Lopez, G; Gonzalez-Penas, J; Parellada, M; Maric, NP; Atbasoglu, C; Ucok, A; Alptekin, K; Saka, MC; Arango, C; Rutten, BPF; van Os, J. White Noise Speech Illusions: A Trait-Dependent Risk Marker for Psychotic Disorder?. FRONTIERS IN PSYCHIATRY. 2019; 10 -. FI: 2.849. Cuartil: 2. (Article).*

- *Barbeito, S; Sanchez-Gutierrez, T; Mayoral, M; Moreno, M; Rios-Aguilar, S; Arango, C; Calvo, A. Mobile App-Based Intervention for Adolescents With First-Episode Psychosis: Study Protocol for a Pilot Randomized Controlled Trial. FRONTIERS IN PSYCHIATRY. 2019; 10 -. FI: 2.849. Cuartil: 2. (Article).*

- *Diaz-Caneja CM; Schnack H; Martinez K; Santonja J; Aleman-Gomez Y; Pina-Camacho L; Moreno C; Fraguas D; Arango C; Parellada M; Janssen J. Neuroanatomical deficits shared by youth with autism spectrum disorders and psychotic disorders. HUMAN BRAIN MAPPING. 2019; 40(5) 1643-1653. FI: 4.421. Cuartil: 1. (Article).*

- *Misra, S; Gelaye, B; Koenen, KC; Williams, DR; Borba, CPC; Quattrone, D; Di Forti, M; La Cascia, C; La Barbera, D; Tarricone, I; Berardi, D; Szoke, A; Arango, C; Tortelli, A; de Haan, L; Velthorst, E; Bobes, J; Bernardo, M; Sanjuan, J; Santos, JL; Arrojo, M; Del-Ben, CM; Menezes, PR; Selten, JP; Jones, PB; Kirkbride, JB; Rutten, BPE; van Os, J; Murray, RM; Gayer-Anderson, C; Morgan, C; EU-GEI WP2 Grp. Early Parental Death and Risk of Psychosis in Offspring: A Six-Country Case-Control Study. JOURNAL OF CLINICAL MEDICINE. 2019; 8(12) -. FI: 3.303. Cuartil: 1. (Article).*

- *Gialloreti, LE; Mazzone, L; Benvenuto, A; Fasano, A; Alcon, AG; Kraneveld, A; Moavero, R; Raz, R; Riccio, MP; Siracusano, M; Zachor, DA; Marini, M; Curatolo, P. Risk and Protective Environmental Factors Associated with Autism Spectrum Disorder: Evidence-Based Principles and Recommendations. JOURNAL OF CLINICAL MEDICINE. 2019; 8(2) -. FI: 3.303. Cuartil: 1. (Review).*

- *Rapado-Castro, M; Moreno, C; Ruiz-Sancho, A; Camino, F; Arango, C; Mayoral, M. Role of Executive Function in Response to a Problem Solving Based Psychoeducational Intervention in Adolescents with Psychosis: The PIENSA Trial Revisited. JOURNAL OF CLINICAL MEDICINE. 2019; 8(7) -. FI: 3.303. Cuartil: 1. (Article).*

- *Solis-Garcia, G; Gonz?lez-Mart?nez, F; Urbiola, E; Carballo, JJ; Perez-Moreno, J; Rodr?guez-Fern?ndez, R; Moreno, D; Pina-Camacho, L. Cannabinoid hyperemesis in adolescents: A poorly diagnosed syndrome. JOURNAL OF PAEDIATRICS AND CHILD HEALTH. 2019; 55(10) 1264-1266. FI: 1.71. Cuartil: 3. (Editorial Material).*

- *Di Forti, M; Quattrone, D; Freeman, TP; Tripoli, G; Gayer-Anderson, C; Quigley, H; Rodriguez, V; Jongsma, HE; Ferraro, L; La Cascia, C; La Barbera, D; Tarricone, I; Berardi, D; Szoke, A; Arango, C; Tortelli, A; Velthorst, E; Bernardo, M; Del-Ben, CM; Menezes, PR; Selten, JP; Jones, PB; Kirkbride, JB; Rutten, BPF; de Haan, L; Sham, PC; van Os, J; Lewis, CM; Lynskey, M; Morgan, C; Murray, RM; EU-GEI WP2 Grp. The contribution of cannabis use to variation in the incidence of psychotic disorder across Europe (EU-GEI): a multicentre case-control study. LANCET PSYCHIATRY. 2019; 6(5) 427-436. FI: 16.209. Cuartil: 1. (Article).*

- *Fores-Martos, J; Catala-Lopez, F; Sanchez-Valle, J; Ibanez, K; Tejero, H; Palma-Gudiel, H; Climent, J; Pancaldi, V; Fananas, L; Arango, C; Parellada, M; Baudot, A; Vogt, D; Rubenstein, JL; Valencia, A; Tabares-Seisdedos, R. Transcriptomic metaanalyses of autistic brains reveals shared gene expression and biological pathway abnormalities with cancer. MOLECULAR AUTISM. 2019; 10 -. FI: 5.869. Cuartil: 1. (Article).*

- *Postema, MC; van Rooij, D; Anagnostou, E; Arango, C; Auzias, G; Behrmann, M; Busatto, G; Calderoni, S; Calvo, R; Daly, E; Deruelle, C; Di Martino, A; Dinstein, I; Duran, FLS; Durston, S; Ecker, C; Ehrlich, S; Fair, D; Fedor, J; Feng, X; Fitzgerald, J; Floris, DL; Freitag, CM; Gallagher, L; Glahn, DC; Gori, I; Haar, S; Hoekstra, L; Jahanshad, N; Jalbrzikowski, M; Janssen, J; King, JA; Kong, XZ; Lazaro, L; Lerch, JP; Luna, B; Martinho, MM; McGrath, J; Medland, SE; Muratori, F; Murphy, CM; Murphy, DGM; O'Hearn, K; Oranje, B; Parellada, M; Puig, O; Retico, A; Rosa, P; Rubia, K; Shook, D; Taylor, MJ; Tosetti, M; Wallace, GL; Zhou, FF; Thompson, PM; Fisher, SE; Buitelaar, JK; Francks, C. Altered structural brain asymmetry in autism spectrum disorder in a study of 54 datasets. NATURE COMMUNICATIONS. 2019; 10 -. FI: 12.121. Cuartil: 1. (Article).*

- *Salpietro, V; Dixon, CL; Guo, H; Bello, OD; Vandrovcova, J; Efthymiou, S; Maroofian, R; Heimer, G; Burglen, L; Valence, S; Torti, E; Hacke, M; Rankin, J; Tariq, H; Colin, E; Procaccio, V; Striano, P; Mankad, K; Lieb, A; Chen, S; Pisani, L; Bettencourt, C; Mannikko, R; Manole, A; Brusco, A; Grosso, E; Ferrero, GB; Armstrong-Moron, J; Gueden, S; Bar-Yosef, O; Tzadok, M;*

*Monaghan, KG; Santiago-Sim, T; Person, RE; Cho, MT; Willaert, R; Yoo, Y; Chae, JH; Quan, YT; Wu, HD; Wang, TY; Bernier, RA; Xia, K; Blesson, A; Jain, M; Motazacker, MM; Jaeger, B; Schneider, AL; Boysen, K; Muir, AM; Myers, CT; Gavrilova, RH; Gunderson, L; Schultz-Rogers, L; Klee, EW; Dyment, D; Osmond, M; Parellada, M; Llorente, C; Gonzalez-Penas, J; Carracedo, A; Van Haeringen, A; Ruivenkamp, C; Nava, C; Heron, D; Nardello, R; Iacomino, M; Minetti, C; Skabar, A; Fabretto, A; Chez, M; Tsai, A; Fassi, E; Shinawi, M; Constantino, JN; De Zorzi, R; Fortuna, S; Kok, F; Keren, B; Bonneau, D; Choi, M; Benzeev, B; Zara, F; Mefford, HC; Scheffer, IE; Clayton-Smith, J; Macaya, A; Rothman, JE; Eichler, EE; Kullmann, DM; Houlden, H; Raspall-Chaure, M; Hanna, MG; Bugiardini, E; Hostettler, I; O'Callaghan, B; Khan, A; Cortese, A; O'Connor, E; Yau, WY; Bourinaris, T; Kaiyrzhanov, R; Chelban, V; Madej, M; Diana, MC; Vari, MS; Pedemonte, M; Bruno, C; Balagura, G; Scala, M; Fiorillo, C; Nobili, L; Malintan, NT; Zanetti, MN; Krishnakumar, SS; Lignani, G; Jepson, JEC; Broda, P; Baldassari, S; Rossi, P; Fruscione, F; Madia, F; Traverso, M; De-Marco, P; Perez-Duenas, B; Munell, F; Kriouile, Y; El-Khorassani, M; Karashova, B; Avdjieva, D; Kathom, H; Tincheva, R; Van-Maldergem, L; Nachbauer, W; Boesch, S; Gagliano, A; Amadori, E; Goraya, JS; Sultan, T; Kirmani, S; Ibrahim, S; Jan, F; Mine, J; Banu, S; Veggiotti, P; Zuccotti, GV; Ferrari, MD; Van Den Maagdenberg, AMJ; Verrotti, A; Marseglia, GL; Savasta, S; Soler, MA; Scuderi, C; Borgione, E; Chimenz, R; Gitto, E; Dipasquale, V; Sallemi, A; Fusco, M; Cuppari, C; Cutrupi, MC; Ruggieri, M; Cama, A; Capra, V; Mencacci, NE; Boles, R; Gupta, N; Kabra, M; Papacostas, S; Zamba-Papanicolaou, E; Dardiotis, E; Maqbool, S; Rana, N; Atawneh, O; Lim, SY; Shaikh, F; Koutsis, G; Breza, M; Coviello, DA; Dauvilliers, YA; AlKhawaja, I; AlKhawaja, M; Al-Mutairi, F; Stojkovic, T; Ferrucci, V; Zollo, M; Alkuraya, FS; Kinali, M; Sherifa, H; Benrhouma, H; Turki, IBY; Tazir, M; Obeid, M; Bakhtadze, S; Saadi, NW; Zaki, MS; Triki, CC; Benfenati, F; Gustincich, S; Kara, M; Belcastro, V; Specchio, N; Capovilla, G; Karimiani, EG; Salih, AM; Okubadejo, NU; Ojo, OO; Oshinaike, OO; Oguntunde, O; Wahab, K; Bello, AH; Abubakar, S; Obiabo, Y; Nwazor, E; Ekenze, O; Williams, U; Iyagba, A; Taiwo, L; Komolafe, M; Senkevich, K; Shashkin, C; Zharkynbekova, N; Koneyev, K; Manizha, G; Isrofilov, M; Guliyeva, U; Salayev, K; Khachatryan, S; Rossi, S; Silvestri, G; Haridy, N; Ramenghi, LA; Xiromerisiou, G; David, E; Aguennouz, M; Fidani, L; Spanaki, C; Tucci, A; SYNAPS Study Grp. AMPA receptor GluA2 subunit defects are a cause of neurodevelopmental disorders. NATURE COMMUNICATIONS. 2019; 10 -. FI: 12.121. Cuartil: 1. (Article).*

- *Gonzalez-Penas, J; Costas, J; Villamayor, MJG; Xu, B. Enrichment of rare genetic variants in astrocyte gene enriched co-expression modules altered in postmortem brain samples of schizophrenia. NEUROBIOLOGY OF DISEASE. 2019; 121 305-314. FI: 5.332. Cuartil: 1. (Article).*

- *Favre, P; Pauling, M; Stout, J; Hozer, F; Sarrazin, S; Abe, C; Alda, M; Alloza, C; Alonso-Lana, S; Andreassen, OA; Baune, BT; Benedetti, F; Busatto, GF; Canales-Rodriguez, EJ; Caseras, X; Chaim-Avancini, TM; Ching, CRK; Dannlowski, U; Deppe, M; Eyler, LT; Fatjo-Vilas, M; Foley, SF; Grotegerd, D; Hajek, T; Haukvik, UK; Howells, FM; Jahanshad, N; Kugel, H; Lagerberg, TV; Lawrie, SM; Linke, JO; McIntosh, A; Melloni, EMT; Mitchell, PB; Polosan, M; Pomarol-Clotet, E; Repple, J; Roberts, G; Roos, A; Rosa, PGP; Salvador, R; Sarro, S; Schofield, PR; Serpa, MH; Sim, K; Stein, DJ; Sussmann, JE; Temmingh, HS; Thompson, PM; Verdolini, N; Vieta, E; Wessa, M; Whalley, HC; Zanetti, MV; Leboyer, M; Mangin, JF; Henry, C; Duchesnay, E; Houenou, J; ENIGMA Bipolar Disorder Working. Widespread white matter microstructural abnormalities in bipolar disorder: evidence from mega- and meta-analyses across 3033 individuals. NEUROPSYCHOPHARMACOLOGY. 2019; 44(13) 2285-2293. FI: 6.751. Cuartil: 1. (Article).*

- *Kas MJ; Penninx B; Sommer B; Serretti A; Arango C; Marston H. A quantitative approach to neuropsychiatry: The why and the how. NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. 2019; 97 87-93. FI: 8.33. Cuartil: 1. (Article).*

- *van der Wee NJA; Bilderbeck AC; Cabello M; Ayuso-Mateos JL; Saris IMJ; Giltay EJ; Penninx BW; Arango C; Post A; Porcelli S. Working definitions, subjective and objective assessments and experimental paradigms in a study exploring social withdrawal in schizophrenia and Alzheimer's disease. NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. 2019; 97 3-9. FI: 8.33. Cuartil: 1. (Review).*

- *Bilderbeck AC; Penninx BWJH; Arango C; van der Wee N; Kahn R; Winter-van Rossum I; Hayen A; Kas MJ; Post A; Dawson GR. Overview of the clinical implementation of a study exploring social withdrawal in patients with schizophrenia and Alzheimer's disease. NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS. 2019; 97 38-46. FI: 8.33. Cuartil: 1. (Article).*

- *Fraguas, D; Diaz-Caneja, CM; Pina-Camacho, L; Moreno, C; Duran-Cutilla, M; Ayora, M; Gonzalez-Vioque, E; de Matteis, M; Hendren, RL; Arango, C; Parellada, M. Dietary Interventions for Autism Spectrum Disorder: A Meta-analysis. PEDIATRICS. 2019; 144(5) -. FI: 5.359. Cuartil: 1. (Review).*

- *Quattrone D; Di Forti M; Gayer-Anderson C; Ferraro L; Jongsma HE; Tripoli G; La Cascia C; La Barbera D; Tarricone I; Berardi D; Szoke A; Arango C; Lasalvia A; Tortelli A; Llorca PM; de Haan L; Velthorst E; Bobes J; Bernardo M; Sanjuan J; Santos JL; Arrojo M; Del-Ben CM; Menezes PR; Selten JP; Jones PB; Kirkbride JB; Richards AL; O'Donovan MC; Sham PC; Vassos E; Rutten BP; van Os J; Morgan C; Lewis CM; Murray RM; Reininghaus U; EU-GEI WP2 Group. Transdiagnostic dimensions of psychopathology at first episode psychosis: findings from the multinational EU-GEI study. PSYCHOLOGICAL MEDICINE. 2019; 49(8) 1378-1391. FI: 5.813. Cuartil: 1. (Article).*

- *Pignon, B; Peyre, H; Ferchiou, A; van Os, J; Rutten, BPF; Murray, RM; Morgan, C; Leboyer, M; Schurhoff, F; Szoke, A; Hubbard, K; Beards, S; Stilo, SA; Parellada, M; Cuadrado, P; Solano, JJR; Carracedo, A; Bernardo, EG; Roldan, L; Lopez, G; Cabrera, B; Lorente-Rovira, E; Garcia-Portilla, P; Costas, J; Jimenez-Lopez, E; Matteis, M; Rapado, M; Gonzalez, E; Martinez, C; Sanchez, E; Olmeda, MS; Franke, N; Termorshuizen, F; van Dam, D; van der Ven, E; Messchaart, E; Jamain, S; Baudin, G; Richard, JR; Charpeaud, T; Tronche, AM; Frijda, F; Marrazzo, G; Sideli, L; Sartorio, C; Seminerio, F; Loureiro, CM; Shuhama, R; Ruggeri, M; Tosato, S; Bonetto, C; Cristofalo, D; EU-GEI WP2 Grp Author. Assessing cross-national invariance of the Community Assessment of Psychic Experiences (CAPE). PSYCHOLOGICAL MEDICINE. 2019; 49(15) 2600-2607. FI: 5.813. Cuartil: 1. (Article).*

- *Arango, C; Baeza, I; Bernardo, M; Canas, F; de Dios, C; Diaz-Marsa, M; Garcia-Portilla, MP; Gutierrez-Rojas, L; Olivares, JM; Rico-Villademoros, F; Rodriguez-Jimenez, R; Sanchez-Morla, EM; Segarra, R; Crespo-Facorro, B. Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(2) 92-105. FI: 2.63. Cuartil: 2. (Article).*

- *Bernardo, M; Cabrera, B; Arango, C; Bioque, M; Castro-Fornieles, J; Cuesta, MJ; Lafuente, A; Parellada, M; Saiz-Ruiz, J; Vieta, E. One decade of the first episodes project (PEPs): Advancing towards a precision psychiatry. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(1) 1-8. FI: 2.63. Cuartil: 2. (Editorial Material).*

- *Salagre, E; Arango, C; Artigas, F; Ayuso-Mateos, JL; Bernardo, M; Castro-Fornieles, J; Bobes, J; Desco, M; Fananas, L; Gonzalez-Pinto, A; Haro, JM; Leza, JC; Mckenna, PJ; Meana, JJ; Menchon, JM; Mico, JA; Palomo, T; Pazos, A; Perez, V; Saiz-Ruiz, J; Sanjuan, J; Tabares-Seisdedos, R; Crespo-Facorro, B; Casas, M; Vilella, E; Palao, D; Olivares, JM; Rodriguez-Jimenez, R; Vieta, E. CIBERSAM: Ten years of collaborative translational research in mental disorders. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(3) 135-140. FI: 2.63. Cuartil: 2. (Editorial Material).*

- *Downs, J.; Dean, H.; Lechler, S.; Sears, N.; Patel, R.; Shetty, H.; Hotopf, M.; Ford, T.; Kyriakopoulos, M.; Diaz Caneja, CM.; Arango, C; MacCabe, JH.; Hayes, RD.; Pina Camacho, L. Negative Symptoms in Early-Onset Psychosis and Their Association With Antipsychotic Treatment Failure. SCHIZOPHRENIA BULLETIN. 2019; 45(5) 960-965. FI: 7.958. Cuartil: 1. (Article).*

- *Nunez C; Stephan-Otto C; Usall J; Bioque M; Lobo A; Gonzalez-Pinto A; Pina-Camacho L; Vieta E; Castro-Fornieles J; Rodriguez-Jimenez R; Butjosa A; Janssen J; Cabrera B; Parellada M; Bernardo M; PEPs group. Neutrophil Count Is Associated With Reduced Gray Matter and Enlarged Ventricles in First-Episode Psychosis. SCHIZOPHRENIA BULLETIN. 2019; 45(1) 57-68. FI: 7.958. Cuartil: 1. (Article).*

- *Fraguas, D; Diaz-Caneja, CM; Ayora, M; Hernandez-Alvarez, F; Rodriguez-Quiroga, A; Recio, S; Leza, JC; Arango, C. Oxidative Stress and Inflammation in First-Episode Psychosis: A Systematic Review and Meta-analysis. SCHIZOPHRENIA BULLETIN. 2019; 45(1) 69-79. FI: 7.958. Cuartil: 1. (Article).*

- *Fraguas, D.; Díaz Caneja, CM.; Pina Camacho, L.; Umbricht, D.; Arango, C. Predictors of Placebo Response in Pharmacological Clinical Trials of Negative Symptoms in Schizophrenia: A Meta-regression Analysis. SCHIZOPHRENIA BULLETIN. 2019; 45(4) 846-858. FI: 7.958. Cuartil: 1. (Article).*

- *Pries, LK; Lage-Castellanos, A; Delespaul, P; Kenis, G; Luykx, JJ; Lin, BD; Richards, AL; Akdede, B; Binbay, T; Altinyazar, V; Yalincetin, B; Gumus-Akay, G; Cihan, B; Soygur, H; Ulas, H; Cankurtaran, ES; Kaymak, SU; Mihaljevic, MM; Petrovic, SA; Mirjanic, T; Bernardo, M; Cabrera, B; Bobes, J; Saiz, PA; Garcia-Portilla, MP; Sanjuan, J; Aguilar, EJ; Santos, JL; Jimenez-Lopez, E; Arrojo, M; Carracedo, A; Lopez, G; Gonzalez-Penas, J; Parellada, M; Maric, NP; Atbasoglu, C; Ucok, A; Alptekin, K; Saka, MC; Arango, C; O'Donovan, M; Rutten, BPF; van Os, J; Guloksuz, S; Alizadeh, BZ; van Amelsvoort, T; Bruggeman, R; Cahnm, W; de Haan, L; van Winkel, R; Genetic Risk Outcome Psychosis Grp. Estimating Exposome Score for Schizophrenia Using Predictive Modeling Approach in Two Independent Samples: The Results From the EUGEI Study. SCHIZOPHRENIA BULLETIN. 2019; 45(4) 742-751. FI: 7.958. Cuartil: 1. (Review).*

- *Martinez, G; Mosconi, E; Daban-Huard, C; Parellada, M; Fananas, L; Gaillard, R; Fatjo-Vilas, M; Krebs, MO; Amado, I. A circle and a triangle dancing together: Alteration of social cognition in schizophrenia compared to autism spectrum disorders. SCHIZOPHRENIA RESEARCH. 2019; 209 148-155. FI: 3.759. Cuartil: 1. (Article).*

- *Escarti, MJ; Garcia-Marti, G; Sanz-Requena, R; Marti-Bonmati, L; Cabrera, B; Vieta, E; Lobo, A; Castro-Fornieles, J; Gonzalez-Pinto, A; Cortizo, R; Pina-Camacho, L; Parellada, M; Bernardo, M; Sanjuan, J; Mezquida, G; Bioque, M; Janssen, J; Arango, C; Zorilla, I; Gonzalez, I; de-la-Camara, C; Barcones, MF; Garcia-Iturrospe, EJA; Mane, A; Montserrat, C; Bonnin, CM; Martinez-Aran, A; de la Serna, E; Baeza, I; Contreras, F; Menchon, JM; Gonzalez-Blanco, L; Garcia-Alvarez, L; Rodriguez-Jimenez, R; Morales-Munoz, I; Usall, J; Butjosa, A; Sarro, S; Pomarol-Clotet, E; PEPs Grp. Auditory hallucinations in first-episode psychosis: A voxel-based morphometry study. SCHIZOPHRENIA RESEARCH. 2019; 210 94-100. FI: 3.759. Cuartil: 1. (Article).*

- *Martinuzzi, E; Barbosa, S; Daoudlarian, D; Ali, WBH; Gilet, C; Fillatre, L; Khalfallah, O; Troudet, R; Jamain, S; Fond, G; Sommer, I; Leucht, S; Dazzan, P; McGuire, P; Arango, C; Diaz-Caneja, CM; Fleischhacker, W; Rujescu, D; Glenthoj, B; Winter, I; Kahn, RS; Yolken, R; Lewis, S; Drake, R; Davidovic, L; Leboyer, M; Glaichenhaus, N; Kahn, RS; van Rossum, IW; Leucht, S; McGuire, P; Lewis, SW; Leboyer, M; Arango, C; Dazzan, P; Drake, R; Heres, S; Diaz-Caneja, CM; Rujescu, D; Weiser, M; Galderisi, S; Glenthoj, B; Eijkemans, MJC; Fleischhacker, WW; Kapur, S; Sommer, IE; OPTiMiSE Study Grp. Stratification and prediction of remission in first-episode psychosis patients: the OPTiMiSE cohort study. TRANSLATIONAL PSYCHIATRY. 2019; 9 -. FI: 5.28. Cuartil: 1. (Article).*

- *Jaen-Moreno, MJ; Feu, N; Redondo-Ecija, J; Montiel, FJ; Gomez, C; del Pozo, GI; Alcala, JA; Gutierrez-Rojas, L; Balanza-Martinez, V; Chauca, GM; Carrion, L; Osuna, MI; Sanchez, MD; Caro, I; Ayora, M; Valdivia, F; Lopez, MS; Poyato, JM; Sarramea, F. Smoking cessation opportunities in severe mental illness (tobacco intensive motivational and estimate risk TIMER): study protocol for a randomized controlled trial. TRIALS. 2019; 20 -. FI: 1.883. Cuartil: 3. (Article).*

- *Guloksuz, S; Pries, LK; Delespaul, P; Kenis, G; Luykx, JJ; Lin, BCD; Richards, AL; Akdede, B; Binbay, T; Altinyazar, V; Yalincetin, B; Gumus-Akay, G; Cihan, B; Soygur, H; Ulas, H; Cankurtaran, ES; Kaymak, SU; Mihaljevic, MM; Petrovic, SA; Mirjanic, T; Bernardo, M; Cabrera, B; Bobes, J; Saiz, PA; Garcia-Portilla, MP; Sanjuan, J; Aguilar, EJ; Santos, JL; Jimenez-Lopez, E; Arrojo, M; Carracedo, A; Lopez, G; Gonzalez-Penas, J; Parellada, M; Maric, NP; Atbasoglu, C; Ucok, A; Alptekin, K; Saka, MC; Arango, C; O'Donovan, M; Rutten, BPF; van Os, J; Alizadeh, BZ; van Amelsvoort, T; van Beveren, NJ; Bruggeman, R; Cahn, W; de Haan, L; Myin-Germeys, I; van Winkel, R; Genetic Risk Outcome Psychosis. Examining the independent and*

*joint effects of molecular genetic liability and environmental exposures in schizophrenia: results from the EUGEI study. WORLD PSYCHIATRY. 2019; 18(2) 173-182. FI: 40.595. Cuartil: 1. (Article).*

***Other publications***

- *Cox SR; Lyall DM; Ritchie SJ; Bastin ME; Harris MA; Buchanan CR; Fawns-Ritchie C; Barbu MC; de Nooij L; Reus LM; Alloza C; Shen X; Neilson E; Alderson HL; Hunter S; Liewald DC; Whalley HC; McIntosh AM; Lawrie SM; Pell JP; Tucker-Drob EM; Wardlaw JM; Gale CR; Deary IJ. Associations between vascular risk factors and brain MRI indices in UK Biobank. EUROPEAN HEART JOURNAL. 2019; 40(28) 2290-2300. FI: 22.673. Cuartil: 1. (Article).*

- *Howard, DM; Adams, MJ; Clarke, TK; Hafferty, JD; Gibson, J; Shirali, M; Coleman, JRI; Hagenaars, SP; Ward, J; Wigmore, EM; Alloza, C; Shen, X; Barbu, MC; Xu, EY; Whalley, HC; Marioni, RE; Porteous, DJ; Davies, G; Deary, IJ; Hemani, G; Berger, K; Teismann, H; Rawal, R; Arolt, V; Baune, BT; Dannlowski, U; Domschke, K; Tian, C; Hinds, DA; Agee, M; Alipanahi, B; Auton, A; Bell, RK; Bryc, K; Elson, SL; Fontanillas, P; Furlotte, NA; Hicks, B; Huber, KE; Jewett, EM; Jiang, Y; Kleinman, A; Lin, KH; Litterman, NK; McIntyre, MH; Mountain, JL; Noblin, ES; Northover, CAM; Pitts, SJ; Poznik, GD; Sathirapongsasuti, JF; Sazonova, OV; Shelton, JF; Shringarpure, S; Tung, JY; Vacic, V; Wang, X; Wilson, CH; Trzaskowski, M; Byrne, EM; Ripke, S; Smith, DJ; Sullivan, PF; Wray, NR; Breen, G; Lewis, CM; McIntosh, AM; 23andMe Res Team; Major Depressive Disorder Working. Genome-wide meta-analysis of depression identifies 102 independent variants and highlights the importance of the prefrontal brain regions. NATURE NEUROSCIENCE. 2019; 22(3) 343-. FI: 20.071. Cuartil: 1. (Article).*

# 3.03B Neurological diseases

Group Director: **Francisco Grandas Pérez**
Organisms involved: **HGUGM**
**Emerging group**

## Description of the research group

The "Neurological diseases" consists mostly of the medical assistants of the Neurology, Neurosurgery, Neuroradiology, Neurophysiology and Neuropediatria service.

## Research lines

**Axis 1: Parkinson's disease and movement disorders**
- L 1: Pathophysiology and treatment of Parkinson's disease. Leader: Francisco Grandas
- L 2: Pathophysiology and treatment of dysphonia. Leader: Francisco Grandas.
- L 3: Balance and gait disorders. Leader: Francisco Grandas

**Axis 2: Dementia**
- L 1: Alzheimer's disease. Leader: Javier Olazarán.

**Axis 3: Neuroinflammation**
- L 1: Neuroinflammation in neurodegenerative diseases. Leader: Mª Concepción Guisasola.
- L 2: Multiple sclerosis. Leader: José Manuel García Domínguez

**Axis 4: Neuromuscular diseases**
- L 1: Amyotrophic lateral sclerosis. Leader: José Luis Muñoz Blanco

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CASTRO | DE CASTRO | PEDRO DE | R2 | Recognised Researcher |
| CATALINA | ÁLVAREZ | IRENE | | |
| CONTRERAS | CHICOTE | ANA | | |
| CUELLO | | JUAN PABLO | | |
| DE LA CASA | FAGES | BEATRIZ | R2 | Recognised Researcher |
| FERNANDEZ | CARBALLAL | CARLOS | R1 | First Stage Researcher |
| GARCIA | DOMINGUEZ | JOSE MANUEL | R1 | First Stage Researcher |
| GOICOCHEA | BRICEÑO | HAYDEE | Other | Support technician |
| GRANDAS | PÉREZ | FRANCISCO JAVIER | R4 | Leading Researcher |
| GUISASOLA | ZULUETA | MARIA CONCEPCIÓN | R3 | Established Researcher |
| GUZMÁN DE VILLORIA | LEBIEDZIEJEWSKI | JUAN ADÁN | Other | Laboratory Technician |
| HIGUERAS | HERNANDEZ | YOLANDA | R2 | Recognised Researcher |
| LOZANO | ROS | ALBERTO | R1 | First Stage Researcher |
| MARI | HUALDE | AMAIA | R1 | First Stage Researcher |
| MARTINEZ | GINES | MARIA LUISA | R1 | First Stage Researcher |
| MASSOT | TARRUS | ANDREU | R2 | Recognised Researcher |
| MATEO | SIERRA | OLGA | | |
| MELDAÑA | RIVERA | ARIANA | | |
| MIRANDA | HERRERO | Mª CONCEPCION | R2 | Recognised Researcher |
| MUÑOZ | BLANCO | JOSÉ LUÍS | R1 | First Stage Researcher |
| OLAZARÁN | RODRÍGUEZ | FRANCISCO JAVIER | R2 | Recognised Researcher |
| PEREZ | RIVAS | MARIA DE LOS ANGELES | | |
| PEREZ | SANCHEZ | JAVIER RICARDO | R1 | First Stage Researcher |
| PEREZ | VIVAS | MARÍA DEL MAR | | |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| PRIETO | MONTALVO | JULIO IGNACIO | R2 | Recognised Researcher |
| ROMERO | MARTINEZ | JULIA | R1 | First Stage Researcher |
| SANCHEZ | FERNANDEZ | MARÍA JESÚS | | |
| TRABA | LOPEZ | ALFREDO | R1 | First Stage Researcher |
| VALES | MONTERO | MARTA | | |

## *Research Projects – Competitive Calls*

TITLE: **H2020 EXTEND 779982. Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
FUNDING BODY: EU/PRG. MARCO
PROJECT TYPE:European Research project
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Evaluación objetiva de la marcha y de la postura mediante sensores inerciales en pacientes con enfermedad de Parkinson. Desarrollo de un índice global de locomoción y equilibrio** PI17/02007
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
FUNDING BODY: EU/PRG. MARCO
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Young employment program:Laboratory technician** PEJ16/MED/TL-0811
DIRECTOR: GUISASOLA ZULUETA, MARIA CONCEPCIÓN
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE.COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 03/02/2017
END DATE: 03/02/2019

## *Insustrial and intellectual property registrations*

*Industrial property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **Procedimiento mejorado para evaluar el riesgo cardiovascular** | P 2009 01923 (Familia con 2 patentes) | FIBHGM | María Concepción Guisasola, Elena Dulín |

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## *Publications* *Total Impact Factor:* ***141.9***

| | Nº | FI |
|---|---|---|
| Own publications | 16 | 55.3 |
| Joint publications | 23 | 86.5 |
| First decile publications | 5 | 40.9 |
| First quartile publications | 15 | 93.1 |
| Second quartile publications | 9 | 25.0 |
| Third quartile publications | 10 | 19.4 |
| Fourth quartile publications | 5 | 4.4 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **41** | **141.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Calvo, AC; Cibreiro, GA; Merino, PT; Roy, JF; Galiana, A; Rufian, AJ; Cano, JM; Martin, MA; Moreno, L; Larrode, P; Vazquez, PC; Galan, L; Mora, J; Munoz-Blanco, JL; Munoz, MJ; Zaragoza, P; Pegoraro, E; Soraru, G; Mora, M; Lunetta, C; Penco, S; Tarlarini, C; Esteban, J; Osta, R; Redondo, AG. Collagen XIX Alpha 1 Improves Prognosis in Amyotrophic Lateral Sclerosis. AGING AND DISEASE. 2019; 10(2) 278-292. FI: 5.402. Cuartil: 1. (Article).*

- *Fernandez, LE; Gongora, AC; Lopez, MV; Arrondo, APP; Herrero, MCM; Valderrama, EB; de Castro, PC. Continuous spike-waves during slow-wave sleep: Experience during 20 years. ANALES DE PEDIATRIA. 2019; 91(3) 180-188. FI: 1.313. Cuartil: 3. (Article).*

- *Parra, MA; Calla, C; Garcia, AF; Olazaran-Rodriguez, J; Hernandez-Tamames, JA; Alvarez-Liner, J; Della Sala, S; Guinea, SF. Refining memory assessment of elderly people with cognitive impairment: Insights from the short-term memory binding test. ARCHIVES OF GERONTOLOGY AND GERIATRICS. 2019; 83 114-120. FI: 2.128. Cuartil: 3. (Article).*

- *Garcia-Dominguez, JM; Maurino, J; Martinez-Gines, ML; Carmona, O; Medrano, N; Ruiz-Beato, E; Ares, A; Arnal, C; Caminero, AB; Carcelen, M; Eguia, P; Fernandez, MD; Ginestal, R; Lacruz, L; Llaneza, M; de Silanes, CL; Martin, G; Navarro, L; Romero, B; Seral, M; Solar, M; W-IMPACT Clinical Investigators. Economic burden of multiple sclerosis in a population with low physical disability. BMC PUBLIC HEALTH. 2019; 19 -. FI: 2.521. Cuartil: 2. (Article).*

- *Rojas, P; de Hoz, R; Ramirez, AI; Ferreras, A; Salobrar-Garcia, E; Munoz-Blanco, JL; Urcelay-Segura, JL; Salazar, JJ; Ramirez, JM. Changes in Retinal OCT and Their Correlations with Neurological Disability in Early ALS Patients, a Follow-Up Study. BRAIN SCIENCES. 2019; 9(12) -. FI: 3.332. Cuartil: 2. (Article).*

- *Mejias, G; Prieto, J. A single case report of a patient with stuttering who improved after open label TMS. BRAIN STIMULATION. 2019; 12(3) 785-786. FI: 6.565. Cuartil: 1. (Letter).*

- *Villarrubia, N; Rodriguez-Martin, E; Alari-Pahissa, E; Aragon, L; Castillo-Trivino, T; Eixarch, H; Ferrer, JM; Martinez-Rodriguez, JE; Massot, M; Pinto-Medel, MJ; Prada, A; Rodriguez-Acevedo, B; Urbaneja, P; Gascon-Gimenez, F; Herrera, G; Hernandez-Clares, R; Salgado, MG; Oterino, A; San Segundo, D; Cuello, JP; Gil-Herrera, J; Camara, C; Gomez-Gutierrez, M; Martinez-Hernandez, E; Meca-Lallana, V; Moga, E; Munoz-Calleja, C; Querol, L; Presas-Rodriguez, S; Teniente-Serra, A; Vlagea, A; Muriel, A; Roldan, E; Villar, LM. Multi-centre validation of a flow cytometry method to identify optimal responders to interferon-beta in multiple sclerosis. CLINICA CHIMICA ACTA. 2019; 488 135-142. FI: 2.615. Cuartil: 2. (Article).*

- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

- *Massot-Tarrus, A; White, K; Mirsattari, SM. Comparing the Wada Test and Functional MRI for the Presurgical Evaluation of Memory in Temporal Lobe Epilepsy. CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS. 2019; 19(6) -. FI: 4.376. Cuartil: 1. (Review).*

- *Villanueva, V; Bermejo, P; Montoya, J; Massot-Tarrus, A; Galiano, ML; Toledo, M; Rodriguez-Uranga, JJ; Bertol, V; Mauri, JA; Poza, JJ; Bonet, M; Castro-Vilanova, MD; Ruiz-Gimenez, J; Lopez-Gonzalez, FJ; Rodriguez-Osorio, X; Tortosa-Conesa, D; Ojeda, J; Giner, P; Garces, M; Alvarez, BM; Quiroga-Subirana, P; Esteve, P; Baiges, JJ; Hampel, K. MONOZEB: Long-term observational study of eslicarbazepine acetate monotherapy. EPILEPSY & BEHAVIOR. 2019; 97 51-59. FI: 2.508. Cuartil: 2. (Article).*

- *Arminanzas, C; Farinas-Alvarez, C; Zarauza, J; Munoz, P; Ramallo, VG; Selles, MM; Meda, JMM; Pericas, JM; Goenaga, MA; Burgos, GO; Alvarez, RR; Corral, LC; Galvez-Acebal, J; Marcos, FJM; Farinas, MC; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Amado, C; Castillo, CA; Garcia, AA; Belaustegui, MC; Izquierdo, RG; Garcia, I; Gonzalez-Rico, C; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Sarralde, A; Teira, R; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Role of age and comorbidities in mortality of patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 63-71. FI: 4.329. Cuartil: 1. (Article).*

- *Mato-Abad, V; Labiano-Fontcuberta, A; Rodriguez-Yanez, S; Garcia-Vazquez, R; Munteanu, CR; Andrade-Garda, J; Domingo-Santos, A; Galan Sanchez-Seco, V; Aladro, Y; Martinez-Gines, ML; Ayuso, L; Benito-Leon, J. Classification of radiologically isolated syndrome and clinically isolated syndrome with machine-learning techniques. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(7) 1000-1005. FI: 4.516. Cuartil: 1. (Article).*

- *Cuello, JP; Gines, MLM; Kuhle, J; Dominguez, JMG; Ros, AL; Delgado, FR; Higueras, Y; Rivera, AM; Briceno, HG; Larroca, SGT; De Leon-Luis, J; Michalak, Z; Barro, C; Lafuente, RA; Heras, SM; Velasco, JIF; Tejeda-Velarde, A; Dominguez-Mozo, MI; Muriel, A; de Andres, C; Villar, LM. Neurofilament light chain levels in pregnant multiple sclerosis patients: a prospective cohort study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(9) 1200-1204. FI: 4.516. Cuartil: 1. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana,*

JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).

- Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).

- Bravo, B; Guisasola, MC; Vaquero J; Tirado, I; Gortazar, AR; Forriol, F. Gene expression, protein profiling, and chemotactic activity of infrapatellar fat pad mesenchymal stem cells in pathologies of the knee joint. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(10) 18917-18927. FI: 5.546. Cuartil: 1. (Article).

- Lopez, AJV; Vendrell, ES; Carballal, CF. Late recurrence of medulloblastoma after 17 years of complete. JOURNAL OF CLINICAL NEUROSCIENCE. 2019; 64 33-35. FI: 1.76. Cuartil: 3. (Article).

- Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).

- Martinez-Monseny, A; Cuadras, D; Bolasell, M; Muchart, J; Arjona, C; Borregan, M; Algrabli, A; Montero, R; Artuch, R; Velazquez-Fragua, R; Macaya, A; Perez-Cerda, C; Perez-Duenas, B; Perez, B; Serrano, M; Aguilera-Albesa, S; Gutierrez-Solana, LG; Lopez, L; Felipe, A; Miranda, MC; Carratala, F; Yoldi, ME; Lopez-Laso, E; Sierra-Corcoles, MC; Sebastian-Garcia, I; Aisa, E; Cancho-Candela, R; Carrasco-Marina, ML; Couce, ML; Roldan, S; Morales, M; Conde-Lorenzo, N; Garcia, O; CDG Spanish Consortium. From gestalt to gene: early predictive dysmorphic features of PMM2-CDG. JOURNAL OF MEDICAL GENETICS. 2019; 56(4) 236-245. FI: 4.943. Cuartil: 1. (Article).

- Regidor, I; Santos-Garcia, D; Catalan, MJ; Puente, V; Valldeoriola, F; Grandas, F; Mir, P; Parra, JC; Arbelo, JM. Impact of Disease Duration in Effectiveness of Treatment with Levodopa-Carbidopa Intestinal Gel and Factors Leading to Discontinuation. JOURNAL OF PARKINSONS DISEASE. 2019; 9(1) 173-182. FI: 5.178. Cuartil: 1. (Article).

- del Ser, T; Zea, MA; Valenti, M; Olazaran, J; Lopez-Alvarez, J; Rebollo-Vazquez, A; Avila-Villanueva, M; Frades, B; Medina, M; Fernandez-Blazquez, MA. Effects of commonly prescribed drugs on cognition and mild cognitive impairment in healthy elderly people. JOURNAL OF PSYCHOPHARMACOLOGY. 2019; 33(8) 965-974. FI: 3.121. Cuartil: 2. (Article).

- Vales-Montero, M; Garcia-Pastor, A; Iglesias-Mohedano, AM; Esteban-de Antonio, E; Salgado-Camara, P; Garcia-Dominguez, JM; Vazquez-Alen, P; Diaz-Otero, F; Fernandez-Bullido, Y; Gil-Nunez, A. Cerebral amyloid angiopathy-related transient focal

*neurological episodes: A transient ischemic attack mimic with an increased risk of intracranial hemorrhage. JOURNAL OF THE NEUROLOGICAL SCIENCES. 2019; 406 -. FI: 3.115. Cuartil: 2. (Article).*

- *Montero, MV; Sierra, OM; Martinez, JR; Gil, FF; Carballal, CF; Cuello, JP. Spinal epidural abscess caused by Streptococcus agalactiae in an immunocompetent patient. MEDICINA CLINICA. 2019; 153(7) 290-292. FI: 1.635. Cuartil: 3. (Editorial Material).*
- *Lopez-Aparicio A; Pulfer D; Lillo-Triguero L. Hepato-cerebral hereditary hemochromatosis in a patient with restless legs syndrome. MEDICINA CLINICA. 2019; 153(6) 260-261. FI: 1.635. Cuartil: 3. (Letter).*
- *De la Casa-Fages, B; Fernandez-Eulate, G; Gamez, J; Barahona-Hernando, R; Moris, G; Garcia-Barcina, M; Infante, J; Zulaica, M; Fernandez-Pelayo, U; Munoz-Oreja, M; Urtasun, M; Olaskoaga, A; Zelaya, V; Jerico, I; Saez-Villaverde, R; Catalina, I; Sola, E; Martinez-Saez, E; Pujol, A; Ruiz, M; Schluter, A; Spinazzola, A; Munoz-Blanco, JL; Grandas, F; Holt, I; Alvarez, V; de Munain, AL. Reply to: "Mitochondrial Parkinsonism due to SPG7/Paraplegin Variants with Secondary mtDNA Depletion". MOVEMENT DISORDERS. 2019; 34(10) 1547-1561. FI: 8.679. Cuartil: 1. (Article).*
- *Martin-Flores, N; Antonelli, F; Cerquera, C; Moreno, V; Manduchi, E; Moore, JH; Noyce, AJ; Kaiyrzhanov, R; Middlehurst, B; Kia, DA; Tan, M; Houlden, H; Morris, HR; Plun-Favreau, H; Holmans, P; Hardy, J; Trabzuni, D; Bras, J; Quinn, J; Mok, KY; Kinghorn, KJ; Billingsley, K; Wood, NW; Lewis, P; Schreglmann, S; Guerreiro, R; Lovering, R; R'Bibo, L; Manzoni, C; Rizig, M; Ryten, M; Guelfi, S; Escott-Price, V; Chelban, V; Foltynie, T; Williams, N; Morrison, KE; Clarke, C; Brice, A; Danjou, F; Lesage, S; Corvol, JC; Martinez, M; Schulte, C; Brockmann, K; Simoon-Saanchez, J; Heutink, P; Rizzu, P; Sharma, M; Gasser, T; Nicolas, A; Cookson, MR; Bandres-Ciga, S; Blauwendraat, C; Craig, DW; Faghri, F; Gibbs, JR; Hernandez, DG; Van Keuren-Jensen, K; Shulman, JM; Iwaki, H; Leonard, HL; Nalls, MA; Robak, L; Lubbe, S; Finkbeiner, S; Mencacci, NE; Lungu, C; Singleton, AB; Scholz, SW; Reed, X; Alcalay, RN; Gan-Or, Z; Rouleau, GA; Krohn, L; van Hilten, JJ; Marinus, J; Adarmes-Goomez, AD; Aguilar, I; Alvarez, I; Alvarez, V; Barrero, FJ; Yarza, JAB; Bernal-Bernal, I; Blazquez, M; Bonilla-Toribio, M; Botia, JA; Boungiorno, MT; Buiza-Rueda, D; Camara, A; Carrillo, F; Carrion-Claro, M; Cerdan, D; Clarimon, J; Compta, Y; de la Casa, B; Diez-Fairen, M; Dols-Icardo, O; Duarte, J; Duran, R; Escamilla-Sevilla, F; Feliz, C; Fernandez, M; Fernandez-Santiago, R; Garcia, C; Garcia-Ruiz, P; Gomez-Garre, P; Heredia, MJG; Gonzalez-Aramburu, I; Pagola, AG; Hoenicka, J; Infante, J; Jesus, S; Jimenez-Escrig, A; Kulisevsky, J; Labrador-Espinosa, MA; Lopez-Sendon, JL; Arregui, ALD; Macias, D; Torres, IM; Marin, J; Marti, MJ; Martinez-Castrillo, C; Mendez-del-Barrio, C; Gonzalez, MM; Mata, M; Minguez, A; Mir, P; Rezola, EM; Munoz, E; Pagonabarraga, J; Pascual-Sedano, B; Pastor, P; Errazquin, FP; Perinan-Tocino, T; Ruiz-Martinez, J; Ruz, C; Rodriguez, AS; Sierra, M; Suarez-Sanmartin, E; Tabernero, C; Tartari, JP; Tejera-Parrado, C; Tolosa, E; Valldeoriola, F; Vargas-Gonzalez, L; Vela, L; Vives, F; Zimprich, A; Pihlstrom, L; Toft, M; Koks, S; Taba, P; Hassin-Baer, S; Marti, MJ; Ezquerra, M; Malagelada, C; Int Parkinson's Dis Genomics Conso. SNCA and mTOR Pathway Single Nucleotide Polymorphisms Interact to Modulate the Age at Onset of Parkinson's Disease. MOVEMENT DISORDERS. 2019; 34(9) 1333-1344. FI: 8.679. Cuartil: 1. (Article).*
- *De la Casa-Fages, B; Fernandez-Eulate, G; Gamez, J; Barahona-Hernando, R; Moris, G; Garcia-Barcina, M; Infante, J; Zulaica, M; Fernandez-Pelayo, U; Munoz-Oreja, M; Urtasun, M; Olaskoaga, A; Zelaya, V; Jerico, I; Saez-Villaverde, R; Catalina, I; Sola, E; Martinez-Saez, E; Pujol, A; Ruiz, M; Schluter, A; Spinazzola, A; Munoz-Blanco, JL; Grandas, F; Holt, I; Alvarez, V; de Munain, AL. Parkinsonism and spastic paraplegia type 7: Expanding the spectrum of mitochondrial Parkinsonism. MOVEMENT DISORDERS. 2019; 34(12) 1932-1933. FI: 8.679. Cuartil: 1. (Letter).*
- *Valera-Mele, M; Sierra, OM; Vendrell, ES; de Villoria, JAG; Diaz, LC; del Corral, OLGD; Leal, RG. Assessment of the impact of glioma diagnostic reclassification following the new 2016 WHO classification on a series of cases. NEUROCIRUGIA. 2019; 30(1) 19-27. FI: 0.597. Cuartil: 4. (Article).*
- *Martinez-Gines, ML; Garcia-Dominguez, JM; Sarmiento, M; Maurino, J. Spanish cultural adaptation of the short version of the Multiple Sclerosis Work Difficulties Questionnaire (MSWDQ-23). NEUROLOGIA. 2019; 34(8) 510-519. FI: 2.283. Cuartil: 3. (Article).*
- *de la Cruz, MH; Rubio, RD; Buzo, EL; Otero, FD; Alen, PV; Rincon, JO; Montalvo, JP; Chicote, AC; Perez, FG. Syndrome of transient headache and neurological deficits with cerebrospinal fluid lymphocytosis (HaNDL) in a patient with confusional symptoms, diffuse EEG abnormalities, and bilateral vasospasm in transcranial Doppler ultrasound: A case report and litera. NEUROLOGIA. 2019; 34(7) 493-495. FI: 2.283. Cuartil: 3. (Letter).*
- *Perez-Sanchez, JR; Rodriguez, MA; Diaz-Otero, F; Lesmes, IB. Treatment of idiopathic intracranial hypertension with bariatric surgery. NEUROLOGIA. 2019; 34(9) 611-614. FI: 2.283. Cuartil: 3. (Letter).*
- *Ruiz-Juretschke, F; Guzman-de-Villoria, JG; Garcia-Leal, R; Sanudo, JR. Predictive value of magnetic resonance for identifying neurovascular compressions in trigeminal neuralgia. NEUROLOGIA. 2019; 34(8) 536-542. FI: 2.283. Cuartil: 3. (Review).*
- *Perez-Sanchez, JR; Grandas, F. Early Postural Instability in Parkinson's Disease: A Biomechanical Analysis of the Pull Test. PARKINSONS DISEASE. 2019; 2019 -. FI: 1.758. Cuartil: 3. (Article).*
- *Garcia-Dominguez, JM; Martinez-Gines, ML; Carmona, O; Caminero, AB; Prefasi, D; Maurino, J; Ballesteross, J; Ares, A; Arnal, C; Carcelen, M; Cannon, O; Eguia, P; Fernandez, MD; Ginestal, R; Lacruz, L; Llaneza, M; de Silanes, CL; Martin, G; Navarro, L; Romero, B; Seral, M; Solar, M; W-IMPACT Clinical Investigators. Measuring burden in caregivers of people with multiple sclerosis: psychometric properties of the CSI questionnaire. PATIENT PREFERENCE AND ADHERENCE. 2019; 13 101-106. FI: 1.946. Cuartil: 2. (Article).*
- *Zubizarreta, I; Florez-Grau, G; Vila, G; Cabezon, R; Espana, C; Andorra, M; Saiz, A; Llufriu, S; Sepulveda, M; Sola-Valls, N; Martinez-Lapiscina, EH; Pulido-Valdeolivas, I; Casanova, B; Gines, MM; Tellez, N; Oreja-Guevara, C; Espanol, M; Trias, E; Cid, J; Juan, M; Lozano, M; Blanco, Y; Steinman, L; Benitez-Ribas, D; Villoslada, P. Immune tolerance in multiple sclerosis and*

*neuromyelitis optica with peptide-loaded tolerogenic dendritic cells in a phase 1b trial. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 2019; 116(17) 8463-8470. FI: 9.412. Cuartil: 1. (Article).*

- *Fernandez, O; Tintore, M; Saiz, A; Calles-Hernandez, MC; Comabella, M; Ramio-Torrenta, L; Oterino, A; Izguierdo, G; Tellez, N; Merino, JAG; Brieva, L; Arnal-Garcia, C; Aladro, Y; Mendibe-Bilbao, MD; Meca-Lallana, JE; Romero-Pinel, L; Martinez-Gines, ML; Arroyo, R; Oreja-Guevara, C; Costa-Frossard, L; Carrascal, P; Rodriguez-Antiguedad, A. Review of the novelties presented at the 2018 ECTRIMS Congress: 11th Post-ECTRIMS Meeting (I). REVISTA DE NEUROLOGIA. 2019; 68(10) 431-441. FI: 0.562. Cuartil: 4. (Review).*

- *Fernandez, O; Tintore, M; Saiz, A; Calles-Hernandez, MC; Comabella, M; Ramio-Torrenta, L; Oterino, A; Izquierdo, G; Tellez, N; Merino, JAG; Brieva, L; Arnal-Garcia, C; Aladro, Y; Mendibe-Bilbao, MD; Meca-Lallana, JE; Romero-Pinel, L; Martinez-Gines, ML; Arroyo, R; Oreja-Guevara, C; Costa-Frossard, L; Carrascal, P; Rodriguez-Antiguedad, A. Review of the novelties presented at the 2018 ECTRIMS Congress: 11th Post-ECTRIMS Meeting (II). REVISTA DE NEUROLOGIA. 2019; 68(11) 468-479. FI: 0.562. Cuartil: 4. (Review).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Moro-Velazquez, L; Gomez-Garcia, JA; Godino-Llorente, JI; Grandas-Perez, F; Shattuck-Hufnagel, S; Yague-Jimenez, V; Dehak, N. Phonetic relevance and phonemic grouping of speech in the automatic detection of Parkinson's Disease. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Other publications***

- *Meca-Lallana V; Brañas-Pampillón M; Higueras Y; Candeliere-Merlicco A; Aladro-Benito Y; Rodríguez-De la Fuente O; Salas-Alonso E; Maurino J; Ballesteros J. Assessing fatigue in multiple sclerosis: Psychometric properties of the five-item Modified Fatigue Impact Scale (MFIS-5). MULTIPLE SCLEROSIS JOURNAL - EXPERIMENTAL, TRANSLATIONAL AND CLINICAL. 2019; 5(2) -. (Article).*

- *Pérez-Miralles F; Prefasi D; García-Merino A; Ara JR; Izquierdo G; Meca-Lallana V; Gascón F; Martínez-Ginés ML; Ramió-Torrentà L; Costa-Frossard L; Fernández Ó; Moreno-García S; Maurino J; Casanova-Estruch B. Perception of stigma in patients with primary progressive multiple sclerosis. MULTIPLE SCLEROSIS JOURNAL - EXPERIMENTAL, TRANSLATIONAL AND CLINICAL. 2019; 5(4) -. (Article).*

# AREA 4 INFECTIOUS DISEASES AND AIDS

Area Coordinator: **Emilio Bouza Santiago**

Despite considerable advances in our knowledge of infectious diseases in recent years, infection continues to be the main health problem facing society today. The spectrum of infection has been modified by the appearance of new infectious diseases, the increase in the number of immunosuppressed patients with their corresponding opportunistic infections, resistance to antibiotics, and the increased frequency of severe fungal infections. Hence the need for a priority research area in infectious diseases and AIDS at the IiSGM. Essentially, this area carries out its research around 2 consolidated groups that generate considerable activity both in clinical practice and in laboratory research. In particular, the groups of the area form part of the Centro de Investigación Biomédica Enfermedades Respiratorias (CIBERES [*Networked Center for Biomedical Research in Respiratory Disease*]), promote and lead cooperative networks in transplantation (RESITRA), and manage different multicenter cohorts in the field of AIDS (GESIDA [*AIDS Study Group*]).

The fact that the area runs several research lines covering the broad spectrum of infectious diseases has not prevented it from generating considerable scientific and academic output during the last 5 years. Of note, a strength of this area is its ability to obtain human resources through competitive calls.

Undoubtedly, the future of this area is based on the maintenance of those aspects of translational research that have characterized its activity to date. Basic research laboratory work has increased, and new molecular epidemiology systems based on direct sample analysishave been implemented. The area has also promoted cooperative epidemiological studies aimed at analyzing aspects such as the extent of antifungal resistance or at optimizing the treatment of infectious complications in transplant recipients.
In summary, the Area of Infectious Diseases and AIDS maintains the commitment to research that has marked its history. This commitment is based on the conviction that no medical activity of excellence can be envisaged without a structured approach to the most pressing issues affecting daily clinical practice.

## GROUPS IN AREA 4

4.01. Infectious diseases
4.02. Clinical and epidemiological aspects of HIV and associated conditions

# 4.01 Infectious diseases and AIDS

Group Director: **Patricia Muñoz García de Paredes**
Organisms involved: **HGUGM**
**Consolidated Group**



## Description of the research group

The group is coordinated by Prof. Emilio Bouza and Dr. Patricia Muñoz and is part of the Department of Clinical Microbiology and Infectious Diseases of Hospital G.U. Gregorio Marañon, which came into being in 1984.
The group has broad experience in the training of research staff in a multidisciplinary group including biologists, physicians, and pharmacists who are constantly involved in the diagnosis, prevention, and treatment of infectious diseases.
The group is home to both research staff and health professionals managing highly complex patients, in particular, immunodepressed patients with nosocomial diseases, thus enriching training capacity and ensuring the link with day-to-day patient care and the identification of translational problems.
The group's scientific output has made it one of the world's leading research groups

## Research lines

**Axis 1: Cardiovascular infection**
- L 1.1. Endocarditis
- L 1.2 Endovascular catheters.

**Axis 2: Pneumonia**
- L 2.1. Ventilator-associated pneumonia (VAP).
- L 2.2. Severe non–ventilator-associated pneumonia

**Axis 3. Infections in immunodepressed patients**
- L 3.1. Influenza and its clinical impact.
- L 3.2. BK Virus
- L 3.3. Infections in transplant recipients

**Axis 4. Mycobacterial infection**
- L 4.1. Clonal complexity of tuberculosis
- L 4.2 Molecular epidemiology of tuberculosis
- L 4.3. Development of new molecular diagnosis techniques
- L 4.4. Characterization of infectivity
- L 4.5. QuantiFERON line.

**Axis 5. Bone and joint infection**
- L 5.1 Infection of joint prostheses

**Axis 6. Invasive nosocomial mycosis**
- L 6.1 Optimization of the diagnosis of invasive aspergillosis
- L 6.2 Prevention of nosocomial aspergillosis through control of the quality of room air.
- L 6.3. Treatment of invasive aspergillosis.
- L 6.4 Technological development in the diagnosis of invasive candidiasis.
- L 6.5. Treatment of invasive candidiasis.
- L 6.6. Less common fungal pathogens.
- L 6.7. Antifungal stewardship
- L 6.8. Fungal infection: animal models
- L 6.9. Studies of virulence and biofilm production
- L 6.10 Molecular characterization study.

**Axis 7. Patógenos y antimicrobianos e impacto clínico del laboratorio de Microbiología cinica**
- L 7.1 Intestinal microbiota in severely ill patients.
- L 7.2. *Clostridium difficile*
- L 7.3 *Staphylococcus aureus*
- L 7.4 Multiresistant gram-negative rods
- L 7.5 Rapid diagnostic techniques in sepsis

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ABASCAL | SAIZ | ESTEFANIA | R1 | First Stage Researcher |
| ACOSTA | GARCIA | FERMIN | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ADAN | RODRIGUEZ | IVAN | | |
| ADRADOS | RUIZ | DANIEL | R3 | Established Researcher |
| AGNELLI | BENTO | CAROLINE | R1 | First Stage Researcher |
| ALCALÁ | HERNÁNDEZ | LUÍS | R3 | Established Researcher |
| ALONSO | FERNANDEZ | BEATRIZ | R1 | First Stage Researcher |
| ALONSO | FERNANDEZ | ROBERTO | R3 | Established Researcher |
| ALVAREZ | ROMASANTA | BEATRIZ | R2 | Recognised Researcher |
| ÁLVAREZ | VALDIVIESO | JOSÉ MIGUEL | | |
| ALVAREZ-URIA | MIYARES | ANA MARIA | R2 | Recognised Researcher |
| ARROYO | PEDRERO | LUIS ANTONIO | R2 | Recognised Researcher |
| BORDALLO | CARDONA | MARIA ANGELES | R1 | First Stage Researcher |
| BOUZA | SANTIAGO | EMILIO | R4 | Leading Researcher |
| BURILLO | ALBIZUA | ALMUDENA | R3 | Established Researcher |
| CABRERO | BALLESTEROS | INMACULADA | | |
| CANDELA | GONZALEZ | ANA | R2 | Recognised Researcher |
| CERCENADO | MANSILLA | EMILIA | R2 | Recognised Researcher |
| COBOS | FERNANDEZ | ALEJANDRO | | |
| DIAZ | PEREZ | NADIRE MARIA | Other | Lab Technician |
| ESCRIBANO | MARTOS | PILAR | R3 | Established Researcher |
| ESTEVEZ | PRIETO | AGUSTIN | R2 | Recognised Researcher |
| FERNÁNDEZ | REY | ROCIO | Other | Management |
| GARCIA | MORALES | PAULA | Other | Support Tchnician |
| GARCÍA DE VIEDMA | DEL ALAMO | DARIO | R3 | Established Researcher |
| GIJON | VIDAURRETA | PALOMA | R3 | Established Researcher |
| GÓMEZ | CASTELLAS | JAVIER | | |
| GOMEZ | NUÑEZ | ANA | Other | Support Tchnician |
| GONZALEZ | SAEZ | ADOLFO | | |
| GOYANES | GALAN | MARIA JOSE | R1 | First Stage Researcher |
| GUEMBE | RAMIREZ | MARÍA | R3 | Established Researcher |
| GUINEA | ORTEGA | JESÚS VICENTE | R3 | Established Researcher |
| HACES | PINTO | VANESSA | R2 | Recognised Researcher |
| HERRANZ | MARTÍN | MARTA | R1 | First Stage Researcher |
| HORTAL | IGLESIAS | FRANCISCO JAVIER | R2 | Recognised Researcher |
| JIMENEZ | NAVARRO | LAURA | Other | Lab Technician |
| KESTLER | HERNANDEZ | MARTHA JEANNETTE | R2 | Recognised Researcher |
| LOSADA | MACHUCA | CARMEN NARCISA | R2 | Recognised Researcher |
| LOZANO | GARCIA | NURIA | | |
| MACHADO | VILCHEZ | MARINA | R1 | First Stage Researcher |
| MARÍN | ARRIAZA | MARÍA DE LAS MERCEDES | R2 | Recognised Researcher |
| MARTÍN | LÓPEZ | ADORACIÓN | R2 | Recognised Researcher |
| MARTÍN-RABADÁN | CABALLERO | PABLO | R2 | Recognised Researcher |
| MUÑOZ | GARCIA-PAREDES | PATRICIA | R4 | Leading Researcher |
| NAVARRO | GARCIA | YURENA DE LOS ANGELES | | |
| OLMEDO | SAMPERIO | MARIA | R2 | Recognised Researcher |
| PADILLA | ORTEGA | BELEN | R2 | Recognised Researcher |
| PALOMO | LASTRAS | MARIA | R2 | Recognised Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| PEREZ | GARCIA | LAURA | R2 | Recognised Researcher |
| PEREZ | GRANDA | MARIA JESUS | Other | Nursing |
| QUIROGA | MAROTO | LIDIA | Other | Lab Technician |
| REIGADAS | RAMIREZ | ELENA MANUELA | R2 | Recognised Researcher |
| RINCÓN | SANZ | CRISTINA | | |
| RODRIGUEZ | FERNANDEZ | SARA | Other | Nursing |
| RODRIGUEZ | MAUS | SANDRA | Other | Support technician |
| RODRIGUEZ | SANCHEZ | BELEN | R3 | Established Researcher |
| RUIZ | SERRANO | MARÍA JESUS | R2 | Recognised Researcher |
| SANCHEZ | SOMOLINOS | MAR | R2 | Recognised Researcher |
| SERRANO | LOBO | JULIA | | |
| VALERIO | MINERO | MARICELA | R2 | Recognised Researcher |
| VAZQUEZ | CUESTA | SILVIA NOEMI | Other | Lab Technician |
| VEINTIMILLA | YAÑEZ | MARIA CRISTINA | R2 | Recognised Researcher |
| VILLA | MARTINEZ | SOFIA | R2 | Recognised Researcher |
| VILLAR | GOMARA | LAURA | R1 | First Stage Researcher |
| ZAMORA | CINTAS | MARIA ISABEL | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: BOUZA SANTIAGO, EMILIO
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **A novel transnational strategy to control high-risk tuberculosis tranmission events.** AC16/00057
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Complementary accion
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía Cardiaca: estudio clínico, prospectivo y randomizado** PI18/01741
DIRECTOR: PEREZ GRANDA, MARIA JESUS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997
DIRECTOR: RODRIGUEZ SANCHEZ, MARIA BELEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project

START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Impacto de la implementación de un "bundle" para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045
DIRECTOR: GUEMBE RAMIREZ, MARÍA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Influencia de la gripe en los eventos cardiacos agudos y búsqueda de virus gripales cardiotrópicos. Estudio INFLUCAR** PI17/00061
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Desarrollo de un Biobanco de microbiota intestinal humana para programas de intervención precoz en el control de la Infección por Clostridium difficile (Proyecto BIOMICO**). PI16/00490
DIRECTOR: BOUZA SANTIAGO, EMILIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Diseño, puesta a punto y evaluación de una plataforma de captura de DNA de Mycobacterium tuberculosis para abordar la secuenciación de genoma completo directamente sobre muestra clínica**. PI16/01449
DIRECTOR: PEREZ GARCIA, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Caracterización Genotípica de Cándida como herramienta microbiológica para la discriminación entre cepas invasoras o colonizadoras**. PI16/01012
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Detección temprana de resistencias a antibióticos y antifungios usando espectrometría de masas (MALDI-TOF MS)**. PI15/01073
DIRECTOR: RODRIGUEZ SANCHEZ, BELEN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Evaluación multicéntrica de una estrategia innovadora de vigilancia y caracterización avanzada de eventos de transmisión activa de Mycobacterium tuberculosis de especial relevancia)**. PI15/01554
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Caracterización de un brote de Clostridium difficile del ribotipo hipervirulento 027 mediante técnicas de epidemiología molecular** PI15/02046
DIRECTOR: MARÍN ARRIAZA, MARÍA DE LAS MERCEDES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Juan Rodes Contract** JR18/00030
DIRECTOR: GALAR RECALDE, ALICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/12/2018
END DATE: 31/12/2021

TITLE: **Miguel Servet Contract** CP15/00115
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Miguel Servet Contract** CP15/00075
DIRECTOR: PEREZ GARCIA, LAURA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2020

TITLE: **Miguel Servet II Contract** CP14/00220
DIRECTOR: RODRÍGUEZ SÁNCHEZ, BELÉN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2015
END DATE: 31/12/2019

TITLE: **Miguel Servet II Contract** CPII18/00008
DIRECTOR: GUEMBE RAMÍREZ, MARÍA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Río Hortega Contract** CM18/00089
DIRECTOR ALVAREZ-URIA MIYARES, ANA MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Río Hortega Contract** CM17/00131
DIRECTOR: OLMEDO SAMPERIO, MARIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Young employement contract** PEJ2018-004609-A
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract**. PEJ2018-004613-A
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract: Laboratory technician**. PEJ-2018-TL/BMD-10671
DIRECTOR: ESCRIBANO MARTOS, PILAR
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 04/03/2019
END DATE: 03/03/2021

TITLE: **Young employement contract**: **Postdoctoral contract**. PEJD-2018-POST/BMD-8664
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract**: **Predoctoral contract**. PEJD-2017-PRE/BMD-3596
DIRECTOR: GUEMBE RAMIREZ, MARIA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2018
END DATE: 31/01/2019

TITLE: **Young employement contract: Laboratory technician**. PEJ16/MED/TL-1507
DIRECTOR: RODRIGUEZ SANCHEZ, BELEN
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2019

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | CIBERES | Collaborating group |
| RETIC | REIPI | Others:active researchers |
| Plataforma ISCIII | Plataforma española de EECC | Collaborating group |
| Others | RESITRA (Red Cooperativa de Infección en Paciente trasplantado) | Collaborating group |

## *Industrial and intellectual property registrations*

*Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Dispositivo para prevenir la neumonía asociada a ventilación mecánica** | U201430814 | FIBHGM | Juan Francisco del Cañizo, Emilio Bouza, Mª Jesús Pérez |
| **Dispositivo aplicador de antifúngico coloreado** | P201430751 | FIBHGM | Pablo Martín-Rabadán |
| **Portaobjetos** | U201430943 | FIBHGM | Pablo Martín-Rabadán Caballero |

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

*Intellectual propierty*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **Estudio de impacto clínico de un plan docente de formación continuada sobre las infecciones asociadas a dispositivos intravasculares** | Nº Asiento Registral:16/2013/4798 | FIBHGM | Emilio Bouza, María Guembe, Patricia Muñoz, Mª Jesús Pérez, Mª del Mar San Segundo |
| **Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IIFs)** | Nº Asiento Registral: 16/2014/5265 | FIBHGM | Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio |
| **Material docente para la infección relacionada con el catéter** | Nº Asiento Registral: 16/2014/6113 | FIBHGM | María Guembe, Emilio Bouza, María Jesús Pérez |
| **Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables** | Nº Asiento Registral: 16/2015/2094 | FIBHGM | María Guembe, Pablo Martín-Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente |
| **Tolerancia cero a la bacteriemia relacionada con el catéter: optimización de la prevención con nuevos sistemas de vigilancia de las vías endovasculares** | Nº Asiento Registral: 16/2015/2983 | FIBHGM | María Guembe, Emilio Bouza Mª Jesús Pérez Granda |
| **Documento de registro para vigilancia durante la inserción y el mantenimiento de los catéteres intravasculares** | Nº Asiento Registral: 16/2015/2984 | FIBHGM | María Guembe, Emilio Bouza Mª Jesús Pérez |
| **Cultivo de conectores cerrados. Nueva alternativa de diagnóstico conservador de infección relacionada con el catéter** | Nº Asiento Registral: 16/2017/517 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín-Rabadán |
| **Base de datos de perfiles de proteínas correspondientes a distintas especies de hongos filamentosos para mejorar su identificación mediante la técnica de espectrometría de masas MALDI-TOF** | Nº Asiento Registral: 16/2019/6180 | FIBHGM | Belén Rodíguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz |

## *Doctoral theses, Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Estefanía Abascal** | Integración de estrategias de secuenciación de genoma completo para optimizar el conocimiento de las dinámicas de transmisión de Mycobacterium tuberculosis y para profundizar en el estudio de la | Dario García De Viedma Del Alamo | UCM | 01/01/2019 |

| | | | | | |
|---|---|---|---|---|---|
| | | complejidad clonal en la infección por este patógeno | | | |
| Ph Thesis | **Maria Angeles Bordallo Cardona** | Aproximación fenotípica y molecular a la inducción y detección de resistencia a equinocandinas en Candida glabrata | Pilar Escribano Martos; Jesús Vicente Guinea Ortega | UCM | 01/01/2019 |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Oliver A Cornely, Ana Alastruey-Izquierdo, Dorothee Arenz, Sharon C A Chen, Eric Dannaoui, Bruno Hochhegger, Martin Hoenigl, Henrik E Jensen, Katrien Lagrou, Russell E Lewis, Sibylle C Mellinghoff, Mervyn Mer, Zoi D Pana, Danila Seidel, Donald C Sheppard, Roger Wahba, Murat Akova,Alexandre Alanio, Abdullah M S Al-Hatmi, Sevtap Arikan-Akdagli, Hamid Badali, Ronen Ben-Ami, Alexandro Bonifaz, Stéphane Bretagne, Elio Castagnola, Methee Chayakulkeeree, Arnaldo L Colombo, Dora E Corzo-León, Lubos Drgona, Andreas H Groll, Jesus Guinea, Claus-Peter Heussel, Ashraf S Ibrahim, Souha S Kanj, Nikolay Klimko, Michaela Lackner, Frederic Lamoth, Fanny Lanternier, Cornelia Lass-Floerl, Dong-Gun Lee, Thomas Lehrnbecher, Badre E Lmimouni, Mihai Mares, Georg Maschmeyer, Jacques F Meis, Joseph Meletiadis, C Orla Morrissey, Marcio Nucci, Rita Oladele, Livio Pagano, Alessandro Pasqualotto, Atul Patel, Zdenek Racil, Malcolm Richardson, Emmanuel Roilides, Markus Ruhnke, Seyedmojtaba Seyedmousavi, Neeraj Sidharthan, Nina Singh, János Sinko, Anna Skiada, Monica Slavin, Rajeev Soman, Brad Spellberg, William Steinbach, Ban Hock Tan, Andrew J Ullmann, Jörg J Vehreschild, Maria J G T Vehreschild, Thomas J Walsh, P Lewis White, Nathan P Wiederhold, Theoklis Zaoutis, Arunaloke Chakrabarti, for the Mucormycosis ECMM MSG Global Guideline Writing Group | **Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study** | Lancet Infect Dis 2019; 19: e405–21 |
| Carolina Garcia-Vidala,*,1, Ana Alastruey-Izquierdob,1, Manuela Aguilar-Guisadoc, Jordi Carratalàd, Carmen Castroe, Mario Fernández-Ruizf, José María Aguadof, José María Fernándezg, Jesús Fortúnh, José Garnacho-Monteroi, Joan Gavaldàj, Carlota Gudiold, Jesús Guineak, Alicia Gómez-López, Patricia Mu˜nozk, Javier Pemánl, Montserrat Roviram, Isabel Ruiz-Campsj, Manuel Cuenca-Estrellab | **Executive summary of clinical practice guideline for the management of invasive diseases caused by Aspergillus: 2018 Update by the GEMICOMED-SEIMC/REIPI** | Enferm Infecc Microbiol Clin. 2019;37(8):535–541 |
| Oscar Lena,*, Ibai Los-Arcosa, José María Aguadob, Marino Blanesc, Marta Bodrod, Jordi Carratalàe,Elisa Corderof, María Carmen Fari˜nasg, Mario Fernández-Ruizb, Jesús Fortúnh, Joan Gavaldàa,Francisco López-Medranob, Rogelio López-Vélezh, Carlos Lumbrerasb, Beatriz Mahilloi,María Ángeles Marcosd, Pilar Martin-Dávilah, José Miguel Montejoj, Asunción Morenod,Patricia Muñozk, Francesca Normanh, José Luis Pérez-Sáenzl, Tomás Pumarolaa, Núria Sabée,Rafael San-Juanb, Elisa Vidalm, Beatriz Domínguez-Gili, on behalf of the Transplant Infection StudyGroup (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC),and the National Transplant Organization (ONT) | **Executive summary of the Consensus Statement of the TransplantInfection Study Group (GESITRA) of the Spanish Society of InfectiousDiseases and Clinical Microbiology (SEIMC) and the NationalTransplant Organization (ONT) on the Selection Criteria of Donorsof Solid Organs in relation to Infectious Diseases** | Enferm Infecc Microbiol Clin . 2019 Dec 21;S0213-005X(19)30316-7 |

| Authors | Title | Journal / Reference |
|---|---|---|
| Cardozo, Celia ;Cuervo, Guillermo ;Salavert, Miguel ;Merino, Paloma ;Gioia, Francesca ;Fernandez-Ruiz, Mario ;Lopez-Cortes, Luis E ;Escola-Verge, Laura ;Montejo, Miguel ;Munoz, Patricia ;Aguilar-Guisado, Manuela ;Puerta-Alcalde, Pedro ;Tasias, Mariona ;Ruiz-Gaitan, Alba ;Gonzalez, Fernando ;Puig-Asensio, Mireia ;Vena, Antonio ;Marco, Francesc ;Peman, Javier ;Fortun, Jesus ;Aguado, Jose Maria ;Almirante, Benito ;Soriano, Alejandro ;Carratala, Jordi ;Garcia-Vidal, Carolina ;GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group | **An evidence-based bundle improves the quality of care and outcomes of patients with candidaemia.** | The Journal of antimicrobial chemotherapy |
| Burillo, Almudena ;Munoz, Patricia ;Bouza, Emilio | **Risk stratification for multidrug-resistant Gram-negative infections in ICU patients.** | Current opinion in infectious diseases |
| Cuervo, Guillermo ;Garcia-Vidal, Carolina ;Puig-Asensio, Mireia ;Merino, Paloma ;Vena, Antonio ;Martin-Pena, Almudena ;Miguel Montejo, Jose ;Ruiz, Alba ;Lazaro-Perona, Fernando ;Fortun, Jesus ;Fernandez-Ruiz, Mario ;Isabel Suarez, Ana ;Castro, Carmen ;Cardozo, Celia ;Gudiol, Carlota ;Maria Aguado, Jose ;Ramon Pano, Jose ;Peman, Javier ;Salavert, Miquel ;Garnacho-Montero, Jose ;Miguel Cisneros, Jose ;Soriano, Alex ;Munoz, Patricia ;Almirante, Benito ;Carratala, Jordi ;REIPI ;GEMICOMED SEIMC Spanis | **Usefulness of guideline recommendations for prognosis in patients with candidemia** | MEDICAL MYCOLOGY |
| Bouza, Emilio ;Ancochea-Bermudez, Julio ;Campins, Magda ;Maria Eiros-Bouza, Jose ;Fargas, Jesus ;Garcia Rojas, Amos Jose ;Gracia, Diego ;Gutierrez Sanchez, Alipio ;Limia, Aurora ;Antonio Lopez, Jose ;del Carmen Magro, Maria ;Mirada, Gloria ;Munoz, Patricia ;Olier, Eduardo ;Ortiz de Lejarazu, Rail ;Urbiztondo, Luis ;Palomo, Esteban | **Vaccines for the prevention of infections in adults: an opinion paper on the situation in Spain** | REVISTA ESPANOLA DE QUIMIOTERAPIA |
| Bouza, Emilio ;Alonso, Sergio ;Asensio, Angel ;De Juan, Guillermo ;Garcia Lucio, Cristina ;Larrosa, Coral ;Lopez-Iglesias, Javier ;Munoz, Patricia ;Sierra, Rosalia ;Perianes, Jose ;Luis De la Serna, Jose ;Palomo, Esteban ;Gracia, Diego | **Information on nosocomial infections in the mainstream media: an opinion document** | REVISTA ESPANOLA DE QUIMIOTERAPIA |

## *Publications* *Total Impact Factor: 389.1*

| | Nº | FI |
|---|---|---|
| Own publications | 38 | 150,2 |
| Joint publications | 48 | 238,9 |
| First decile publications | 26 | 223,6 |
| First quartile publications | 44 | 299,8 |
| Second quartile publications | 13 | 39,9 |
| Third quartile publications | 12 | 26,7 |
| Fourth quartile publications | 17 | 22,8 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **90** | **389,1** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Requena, S; Caballero, E; Lozano, AB; Rios-Villegas, MJ; Benito, R; Rojo, S; Cabezas, T; Macia, MD; Nieto, MD; Soriano, V; de Mendoza, C; Rodriguez, C; Vera, M; del Romero, J; Ocete, MD; Caballero, E; Aguilera, A; Amengual, MJ; Cervantes, M; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eiros, JM; Ramos, C; Garcia-Costa, J; Calderon, E; Rios-Villegas, MJ; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Ramos, JM; Gimeno, A; Sanchez, V; Gomez-Hernando, C; Echeverria, MJ; Cilla, G; Perez-Trallero, E; Fernandez-Pereira, L; Niubo, J; Margall, N; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Sauca, M; Perez, S; Morano, L; Raya, C; Praetorius, AG; Cifuentes, C; Penaranda, M; Nieto, MC; Montejo, JM; Roc, L; Martinez-Sapina, A; Viciana, I; Lozano, AB; Perez-Camacho, I; Fernandez-Fuertes, E; Fernandez, JM; Cabezas, T; Bermejo, IG; Gaspar, G; Gorgolas, M; Vegas, C; Blas, J; Tellez, R; Perez, L; Valeiro, M; Aldamiz,*

*T; Garcia, F; Suarez, A; Rodriguez-Avial, I; Barreiro, P; Soriano, V; Gomez-Gallego, F; Corral, O; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Spanish HIV-2 Study Grp. Treatment outcome in dually HIV-1 and HIV-2 coinfected patients living in Spain. AIDS. 2019; 33(14) 2167-2172. FI: 4.511. Cuartil: 1. (Article).*

- *Monteserin, J; Perez-Lago, L; Yokobori, N; Paul, R; Maus, SR; Simboli, N; Eldholm, V; Lopez, B; de Viedma, DG; Ritacco, V. Trends of Two Epidemic Multidrug-Resistant Strains of Mycobacterium tuberculosis in Argentina Disclosed by Tailored Molecular Strategy. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 2019; 101(6) 1308-1311. FI: 2.126. Cuartil: 2. (Article).*

- *Martinez, DM; Aguilera-Alonso, D; Mancebo, JG; Navarro, ML; Sampelayo, TH; Lopez, EMR; Santiago-Garcia, B; Saavedra-Lozano, J; Santos, M; Cercenado, E; Representation Grp Estudio Enferme. Invasive meningococcal disease in children and adults in a tertiary level hospital. Recent epidemiology and prognostic factors. ANALES DE PEDIATRIA. 2019; 91(5) 296-306. FI: 1.313. Cuartil: 3. (Article).*

- *Aguilera-Alonso, D; Escosa-Garcia, L; Goycochea-Valdivia, WA; Soler-Palacin, P; Saavedra-Lozano, J; Rodrigo, C; Cercenado, E; Ramos, JT; Baquero-Artigao, F. Position statement of the Spanish Association of Paediatrics-Spanish Society of Paediatric Infectious Diseases (AEP-SEIP) on the treatment of multiple drug-resistant bacterial infections. ANALES DE PEDIATRIA. 2019; 91(5) -. FI: 1.313. Cuartil: 3. (Article).*

- *Hidalgo-Tenorio, C; Vinuesa, D; Plata, A; Davila, PM; Iftimie, S; Sequera, S; Loeches, B; Lopez-Cortes, LE; Farinas, MC; Fernandez-Roldan, C; Javier-Martinez, R; Munoz, P; Arenas-Miras, MD; Martinez-Marcos, FJ; Miro, JM; Herrero, C; Bereciartua, E; De Jesus, SE; Pasquau, J. DALBACEN cohort: dalbavancin as consolidation therapy in patients with endocarditis and/or bloodstream infection produced by gram-positive cocci. ANNALS OF CLINICAL MICROBIOLOGY AND ANTIMICROBIALS. 2019; 18(1) -. FI: 2.705. Cuartil: 3. (Article).*

- *Fernandez-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodriguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Perez-Lago, L; de Viedma, DG; Martin, JLD; Munoz, P. A Case-Control Study of Real-Life Experience with Ceftolozane-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(1) -. FI: 4.904. Cuartil: 1. (Article).*

- *Bordallo-Cardona, MA; Sanchez-Carrillo, C; Bouza, E; Munoz, P; Escribano, P; Guinea, J. Detection of Echinocandin-Resistant Candida glabrata in Blood Cultures Spiked with Different Percentages of FKS2 Mutants. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(5) -. FI: 4.904. Cuartil: 1. (Article).*

- *Espinel-Ingroff, A; Turnidge, J; Alastruey-Izquierdo, A; Botterel, F; Canton, E; Castro, C; Chen, YC; Chen, Y; Chryssanthou, E; Dannaoui, E; Garcia-Effron, G; Gonzalez, GM; Govender, NP; Guinea, J; Kidd, S; Lackner, M; Lass-Florl, C; Linares-Sicilia, MJ; Lopez-Soria, L; Magobo, R; Pelaez, T; Quindos, G; Rodriguez-Iglesia, MA; Ruiz, MA; Sanchez-Reus, F; Sanguinetti, M; Shields, R; Szweda, P; Tortorano, A; Wengenack, NL; Bramati, S; Cavanna, C; DeLuca, C; Gelmi, M; Grancini, A; Lombardi, G; Meletiadis, J; Negri, CE; Passera, M; Peman, J; Prigitano, A; Sala, E; Tejada, M. Method-Dependent Epidemiological Cutoff Values for Detection of Triazole Resistance in Candida and Aspergillus Species for the Sensititre YeastOne Colorimetric Broth and Etest Agar Diffusion Methods. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).*

- *Bordallo-Cardona, MA; Agnelli, C; Gomez-Nunez, A; Sanchez-Carrillo, C; Bouza, E; Munoz, P; Escribano, P; Guinea, J. MSH2 Gene Point Mutations Are Not Antifungal Resistance Markers in Candida glabrata. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(3) -. FI: 4.904. Cuartil: 1. (Article).*

- *Morata, L; Cobo, J; Fernandez-Sampedro, M; Vasco, PG; Ruano, E; Lora-Tamayo, J; Somolinos, MS; Ruano, PG; Nieto, AR; Arnaiz, A; Munoz, ME; Jimenez-Mejias, ME; Serrano, ABL; Munez, E; Rodriguez-Pardo, D; Argelich, R; Arroyo, A; Barbero, JM; Cuadra, F; Del Arco, A; del Toro, MD; Guio, L; Jimenez-Beatty, D; Lois, N; Martin, O; Alvarez, RMM; Martinez-Marcos, FJ; Porras, L; Ramirez, M; Garcia, JV; Soriano, A. Safety and Efficacy of Prolonged Use of Dalbavancin in Bone and Joint Infections. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(1) -. FI: 4.904. Cuartil: 1. (Article).*

- *Burillo, A; de Egea, V; Onori, R; Martin-Rabadan, P; Cercenado, E; Jimenez-Navarro, L; Munoz, P; Bouza, E. Gradient diffusion antibiogram used directly on bronchial aspirates for a rapid diagnosis of ventilator-associated pneumonia. ANTIMICROBIAL RESISTANCE AND INFECTION CONTROL. 2019; 8(1) -. FI: 3.594. Cuartil: 1. (Article).*

- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-*

*Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *de Mendoza, C; Roc, L; Benito, R; Reina, G; Ramos, JM; Gomez, C; Aguilera, A; Rodriguez-Iglesias, M; Garcia-Costa, J; Fernandez-Alonso, M; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; Miguel, AS; Manzardo, C; Miro, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Hernandez-Betancor, A; Martin, AM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Trevino, A; Requena, S; Benitez-Gu-tierrez, L; Cuervas-Mons, V; Barreiro, P; Soriano, V; Corral, O; Gomez-Gallego, F; Spanish HTLV Network. HTLV-1 infection in solid organ transplant donors and recipients in Spain. BMC INFECTIOUS DISEASES. 2019; 19(1) -. FI: 2.688. Cuartil: 3. (Article).*

- *Ercibengoa, M; Goenaga, MA; Ardanuy, C; Grau, I; Garcia-de-la-Maria, C; Almela, M; Miro, JM; Navas, E; Farinas, MC; de Alegria, CR; de la Torre, J; Fernandez, F; Marin, M; Munoz, P; Orden, B; Oteo, JA; Garcia-Alvarez, L; de Alarcon, A; Jimenez, JAL; Marimon, JM. Epidemiological and clinical characteristics of Streptococcus tigurinus endocarditis. BMC INFECTIOUS DISEASES. 2019; 19 -. FI: 2.688. Cuartil: 3. (Article).*

- *Munoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; Lopez-Roa, P; Juarez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernandez-Aviles, F; Martinez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).*

- *Oarbeascoa, G; Dorado, N; Bailen, R; Serrano, D; Balsalobre, P; Pradillo, V; Guinea, J; Padilla, B; Sancho, M; Machado, M; Buno, I; Anguita, J; Diez-Martin, JL; Kwon, M. Successful Treatment of Severe Aspergillosis with Isavuconazole Therapy after Allogeneic Stem Cell Transplantation. CHEMOTHERAPY. 2019; 64(2) 57-61. FI: 1.641. Cuartil: 4. (Article).*

- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido,*

*CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1731-1739. FI: 8.313. Cuartil: 1. (Article).*

- *Bartoletti, M; Giannella, M; Lewis, RE; Caraceni, P; Tedeschi, S; Paul, M; Schramm, C; Bruns, T; Merli, M; Cobos-Trigueros, N; Seminari, E; Retamar, P; Munoz, P; Tumbarello, M; Burra, P; Cerenzia, MT; Barsic, B; Calbo, E; Maraolo, AE; Petrosillo, N; Galan-Ladero, MA; D'Offizi, G; Zak-Doron, Y; Rodriguez-Bano, J; Baldassarre, M; Verucchi, G; Domenicali, M; Bernardi, M; Viale, P; Campoli, C; Pascale, R; Stallmach, A; Venditti, M; Lucidi, C; Ludovisi, S; de Cueto, M; Dolores, NM; Eduardo, LC; Bouza, E; Valerio, M; Eworo, A; Losito, R; Senzolo, M; Nadal, E; Ottobrelli, A; Varguvic, M; Badia, C; Guglielmo, B; Gentile, I; Buonomo, AR; Boumis, E; Beteta-Lopez, A; Rianda, A; Taliani, G; Grieco, S; ESGBIS BICHROME Study Grp. Extended Infusion of beta-Lactams for Bloodstream Infection in Patients With Liver Cirrhosis: An Observational Multicenter Study. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

- *Collazos-Blanco, A; Perez-Garcia, F; Sanchez-Carrillo, C; de Egea, V; Munoz, P; Bouza, E. Estimation of missed bloodstream infections without the third blood culture set: a retrospective observational single-centre study. CLINICAL MICROBIOLOGY AND INFECTION. 2019; 25(4) 469-473. FI: 7.117. Cuartil: 1. (Article).*

- *Guinea, J; Verweij, PE; Meletiadis, J; Mouton, JW; Barchiesi, F; Arendrup, MC; Arikan-Akdagli, S; Castanheira, M; Chryssanthou, E; Friberg, N; Jarv, H; Klimko, N; Kurzai, O; Lagrou, K; Lass-Florl, C; Mares, M; Matos, T; Moore, CB; Muehlethaler, K; Rogers, TR; Andersen, CT; Velegraki, A; Subcomm Antifungal Susceptibility; ESCMID European Comm Antimi. How to: EUCAST recommendations on the screening procedure E.Def 10.1 for the detection of azole resistance in Aspergillus fumigatus isolates using four-well azole-containing agar plates. CLINICAL MICROBIOLOGY AND INFECTION. 2019; 25(6) 681-687. FI: 7.117. Cuartil: 1. (Review).*

- *Galar, A; Weil, AA; Dudzinski, DM; Munoz, P; Siedner, MJ. Methicillin-Resistant Staphylococcus aureus Prosthetic Valve Endocarditis: Pathophysiology, Epidemiology, Clinical Presentation, Diagnosis, and Management. CLINICAL MICROBIOLOGY REVIEWS. 2019; 32(2) -. FI: 22.556. Cuartil: 1. (Review).*

- *de Mendoza, C; Roc, L; Fern?ndez-Alonso, M; Soriano, V; Rodr?guez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Aguilera, A; Rodr?guez-Calvi?o, JJ; Rivero, C; Vilari?o, MD; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eir?s, JM; Ramos, C; Manzardo, C; Mir?, JM; Garc?a-Costa, J; Calder?n, E; Escudero, D; Trigo, M; Diz, J; Garc?a-Campello, M; Rodr?guez-Iglesias, M; Hern?ndez-Betancor, A; Mart?n, AM; Ramos, JM; Gimeno, A; S?nchez, V; Guzm?n, M; G?mez-Hernando, C; Echeverria, MJ; Cilla, G; Fern?ndez-Pereira, L; Hern?ndez, M; L?pez-Lirola, AM; G?mez-Sirvent, JL; Force, L; Cifuentes, C; P?rez, S; Morano, L; Raya, C; Gonz?lez-Praetorius, A; Pe?aranda, M; Nieto, MC; Montejo, JM; Roc, L; Viciana, I; Cabezas, T; Lozano, A; P?rez-Camacho, I; Fern?ndez, JM; Garc?a-Bermejo, I; Gaspar, G; Tellez, R; G?rgolas, M; P?rez, L; Monsalvo, S; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Sauleda, S; Pir?n, M; Gonz?lez, R; Richart, A; Barea, L; Jim?nez, A; Blanco, L; Su?rez, A; Rodr?guez-Avial, I; Parra, P; Fern?ndez, M; Fern?ndez-Alonso, M; Reina, G; Trevi?o, A; Requena, S; Ben?tez-Guti?rrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; G?mez-Gallego, F; Spanish HTLV Network. HTLV testing of solid organ transplant donors. CLINICAL TRANSPLANTATION. 2019; 33(10) -. FI: 1.665. Cuartil: 3. (Letter).*

- *Burillo, A; Munoz, P; Bouza, E. Risk stratification for multidrug-resistant Gram-negative infections in ICU patients. CURRENT OPINION IN INFECTIOUS DISEASES. 2019; 32(6) 626-637. FI: 4.577. Cuartil: 1. (Review).*

- *Acosta, F; Agapito, J; Cabibbe, AM; Caceres, T; Sola, C; Perez-Lago, L; Abascal, E; Herranz, M; Meza, E; Klotoe, B; Munoz, P; Rossolini, GM; Bartoloni, A; Tortoli, E; Cirillo, DM; Gotuzzo, E; de Viedma, DG. Exportation of MDR TB to Europe from Setting with Actively Transmitted Persistent Strains in Peru. EMERGING INFECTIOUS DISEASES. 2019; 25(3) 596-598. FI: 6.259. Cuartil: 1. (Letter).*

- *Dominguez, J; Acosta, F; Perez-Lago, L; Sambrano, D; Batista, V; De la Guardia, C; Abascal, E; Chiner-Oms, A; Comas, I; Gonzalez, P; Bravo, J; Del Cid, P; Rosas, S; Munoz, P; Goodridge, A; de Viedma, DG. Simplified Model to Survey Tuberculosis Transmission in Countries without Systematic Molecular Epidemiology Programs. EMERGING INFECTIOUS DISEASES. 2019; 25(3) 507-514. FI: 6.259. Cuartil: 1. (Article).*

- *Dominguez, MR; de Luna, FFA; Galan, MJG; Rodriguez, JG. Procedures in Clinical Microbiology (number 66, 2nd edition 2019). ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(8) 535-541. FI: 1.654. Cuartil: 4. (Article).*

- *Aldea Mansilla C; Martinez-Alarcon J; Gracia Ahufinger I; Guembe Ramirez M. Microbiological diagnosis of catheter-related infections. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(5) 335-340. FI: 1.654. Cuartil: 4. (Review).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome,*

*LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Serrano, MRG; Escartin, NL; Arriaza, MM; Diaz, JCR. Microbiological diagnosis of bacteraemia and fungaemia: Blood cultures and molecular methods. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(6) 424-424. FI: 1.654. Cuartil: 4. (Editorial Material).*

- *Garcia-Vidal C; Alastruey-Izquierdo A; Aguilar-Guisado M; Carratala J; Castro C; Fernandez-Ruiz M; Aguado JM; Fernandez JM; Fortun J; Garnacho-Montero J; Gavalda J; Gudiol C; Guinea J; Gomez-Lopez A; Munoz P; Peman J; Rovira M; Ruiz-Camps I; Cuenca-Estrella M. Executive summary of clinical practice guideline for the management of invasive diseases caused by Aspergillus: 2018 Update by the GEMICOMED-SEIMC/REIPI. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(10) 668-672. FI: 1.654. Cuartil: 4. (Article).*

- *Fosbol, EL; Park, LP; Rizk, H; Clara, L; Sanchez, M; Casabe, JP; Nacinovich, F; Oses, PF; Ronderos, R; Sucari, A; Thierer, J; Altclas, J; Kogan, S; Spelman, D; Athan, E; Harris, O; Kennedy, K; Tan, R; Gordon, D; Papanicolas, L; Korman, T; Kotsanas, D; Dever, R; Konecny, P; Lawrence, R; Rees, D; Feneley, MP; Harkness, J; Jones, P; Post, J; Reinbott, P; Ryan, S; Gattringer, R; Wiesbauer, F; Andrade, AR; de Brito, ACP; Guimaraes, AC; Grinberg, M; Mansur, AJ; Siciliano, RF; Strabelli, TMV; Vieira, MLC; Tranchesi, RAD; Paiva, MG; Fortes, CQ; Ramos, AD; Weksler, C; Ferraiuoli, G; Golebiovski, W; Lamas, C; Karlowsky, CJA; Keynan, Y; Morris, AM; Jones, SB; Garcia, P; Cereceda, M; Fica, A; Mella, RM; Fernandez, R; Franco, L; Gonzalez, J; Jaramillo, AN; Barsic, B; Bukovski, S; Krajinovic, V; Pangercic, A; Rudez, I; Vincelj, J; Freiberger, T; Pol, J; Zaloudikova, B; Ashour, Z; El Kholy, A; Mishaal, M; Osama, D; Rizk, H; Aissa, N; Alauzet, C; Alla, F; Campagnac, C; Doco-Lecompte, T; Selton-Suty, C; Casalta, JP; Fournier, PE; Habib, G; Raoult, D; Thuny, F; Delahaye, F; Delahaye, A; Vandenesch, F; Donal, E; Donnio, PY; Flecher, E; Michelet, C; Revest, M; Tattevin, P; Chevalier, F; Jeu, A; Remadi, JP; Rusinaru, D; Tribouilloy, C; Bernard, Y; Chirouze, C; Hoen, B; Leroy, J; Plesiat, P; Neuerburg, C; Mazaheri, B; Naber, C; Athanasia, S; Deliolanis, I; Giamarellou, H; Thomas, T; Giannitsioti, E; Papanicolaou, K; Mylona, E; Paniara, O; Papanikolaou, K; Pyros, J; Skoutelis, A; Sharma, G; Francis, J; Nair, L; Thomas, V; Venugopal, K; Hannan, MM; Hurley, JP; Cahan, A; Gilon, D; Israel, S; Korem, M; Rubinstein, E; Strahilevitz, J; Durante-Mangoni, E; Mattucci, I; Pinto, D; Agrusta, F; Senese, A; Ragone, E; Utili, R; Cecchi, E; De Rosa, F; Forno, D; Imazio, M; Trinchero, R; Grossi, P; Lattanzio, M; Toniolo, A; Goglio, A; Raglio, A; Ravasio, V; Rizzi, M; Suter, F; Carosi, G; Magri, S; Signorini, L; Kanafani, Z; Kanj, SS; Sharif-Yakan, A; Abidin, I; Tamin, SS; Martinez, ER; Nieto, GIS; van der Meer, JTM; Chambers, S; Holland, D; Morris, A; Raymond, N; Read, K; Murdoch, DR; Dragulescu, S; Ionac, A; Mornos, C; Butkevich, OM; Chipigina, N; Kirill, O; Vadim, K; Vinogradova, T; Edathodu, J; Halim, M; Liew, YY; Tan, RS; Lejko-Zupanc, T; Logar, M; Mueller-Premru, M; Commerford, P; Commerford, A; Deetlefs, E; Hansa, C; Ntsekhe, M; Almela, M; Armero, Y; Azqueta, M; Castaneda, X; Cervera, C; Falces, C; de-la-Maria, CG; Fita, G; Gatell, JM; Heras, M; Llopis, J; Marco, F; Mestres, CA; Miro, JM; Moreno, A; Ninot, S; Pare, C; Pericas, JM; Ramirez, J; Rovira, I; Sitges, M; Anguera, I; Font, B; Guma, JR; Bermejo, J; Bouza, E; Fernandez, MAG; Gonzalez-Ramallo, V; Marin, M; Munoz, P; Pedromingo, M; Roda, J; Rodriguez-Creixems, M; Solis, J; Almirante, B; Fernandez-Hidalgo, N; Tornos, P; de Alarcon, A; Parra, R; Alestig, E; Johansson, M; Olaison, L; Snygg-Martin, U; Pachirat, O; Pachirat, P; Pussadhamma, B; Senthong, V; Casey, A; Elliott, T; Lambert, P; Watkin, R; Eyton, C; Klein, JL; Bradley, S; Kauffman, C; Bedimo, R; Chu, VH; Corey, GR; Crowley, AL; Douglas, P; Drew, L; Fowler, VG; Holland, T; Lalani, T; Mudrick, D; Samad, Z; Sexton, D; Stryjewski, M; Wang, A; Woods, CW; Lerakis, S; Cantey, R; Steed, L; Wray, D; Dickerman, SA; Bonilla, H; DiPersio, J; Salstrom, SJ; Baddley, J; Patel, M; Peterson, G; Stancoven, A; Levine, D; Riddle, J; Rybak, M; ICE-PLUS Investigators. The association between vegetation size and surgical treatment on 6-month mortality in left-sided infective endocarditis. EUROPEAN HEART JOURNAL. 2019; 40(27) 2243-2251. FI: 22.673. Cuartil: 1. (Article).*

- *Alonso, B; Latorre, MC; Cruces, R; Ampuero, D; Haces, L; Martin-Rabadan, P; Sanchez-Carrillo, C; Rodriguez, B; Bouza, E; Muñoz P; Guembe, M. Evaluation of the Alfred turbidity monitoring system (Alifax) following sonication in the diagnosis of central*

*venous catheter colonization. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(3) 607-614. FI: 2.837. Cuartil: 2. (Article).*

- *Sanchez-Carrillo, C; Pescador, P; Ricote, R; Fuentes, J; Losada, C; Candela, A; Cercenado, E. Evaluation of the Alfred AST (R) system for rapid antimicrobial susceptibility testing directly from positive blood cultures. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(9) 1665-1670. FI: 2.837. Cuartil: 2. (Article).*

- *Agnelli, C; Valerio, M; Bouza, E; Vena, A; Guinea, J; Martinez-Jimenez, MD; Marcos-Zambrano, LJ; Escribano, P; Munoz, P; COMIC Study Grp; Collaborative Grp Mycosis. Persistent Candidemia in adults: underlying causes and clinical significance in the antifungal stewardship era. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(9) 1737-1742. FI: 2.837. Cuartil: 2. (Article).*

- *Arminanzas, C; Farinas-Alvarez, C; Zarauza, J; Munoz, P; Ramallo, VG; Selles, MM; Meda, JMM; Pericas, JM; Goenaga, MA; Burgos, GO; Alvarez, RR; Corral, LC; Galvez-Acebal, J; Marcos, FJM; Farinas, MC; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Amado, C; Castillo, CA; Garcia, AA; Belaustegui, MC; Izquierdo, RG; Garcia, I; Gonzalez-Rico, C; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Sarralde, A; Teira, R; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Role of age and comorbidities in mortality of patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 63-71. FI: 4.329. Cuartil: 1. (Article).*

- *Rodriguez-Sanchez, B; Cercenado, E; Coste, AT; Greub, G. Review of the impact of MALDI-TOF MS in public health and hospital hygiene, 2018. EUROSURVEILLANCE. 2019; 24(4) 19-32. FI: 6.454. Cuartil: 1. (Article).*

- *Abascal, E; Perez-Lago, L; Martinez-Lirola, M; Chiner-Oms, A; Herranz, M; Chaoui, I; Comas, I; El Messaoudi, MD; Cardenas, JAG; Santanton, S; Bouza, E; Garcia-de-Viedma, D. Whole genome sequencing-based analysis of tuberculosis (TB) in migrants: rapid tools for cross-border surveillance and to distinguish between recent transmission in the host country and new importations. EUROSURVEILLANCE. 2019; 24(4) 72-83. FI: 6.454. Cuartil: 1. (Review).*

- *Gonzalez-Sanz, R; Casas-Alba, D; Launes, C; Munoz-Almagro, C; Ruiz-Garcia, MM; Alonso, M; Gonzalez-Abad, MJ; Megias, G; Rabella, N; del Cuerpo, M; Gozalo-Marguello, M; Gonzalez-Praetorius, A; Martinez-Sapina, A; Goyanes-Galan, MJ; Romero, MP; Calvo, C; Anton, A; Imaz, M; Aranzamendi, M; Hernandez-Rodriguez, A; Moreno-Docon, A; Rey-Cao, S; Navascues, A; Otero, A; Cabrerizo, M. Molecular epidemiology of an enterovirus A71 outbreak associated with severe neurological disease, Spain, 2016. EUROSURVEILLANCE. 2019; 24(7) 21-29. FI: 6.454. Cuartil: 1. (Article).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC;*

*Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Cogliati M; Desnos-Ollivier M; McCormick-Smith I; Rickerts V; Ferreira-Paim K; Meyer W; Boekhout T; Hagen F; Theelen B; Inácio J; Alonso B; Colom MF; Trilles L; Montagna MT; De Donno A; Susever S; Ergin C; Velegraki A; Ellabib MS; Nardoni S; Macci C; Trovato L; Dipineto L; Akcaglar S; Mlinaric-Missoni E; Bertout S; Vencá ACF; Sampaio AC; Criseo G; Ranque S; Çerikçioglu N; Marchese A; Vezzulli L; Ilkit M; Pasquale V; Polacheck I; Lockhart SR. Genotypes and population genetics of cryptococcus neoformans and cryptococcus gattii species complexes in Europe and the mediterranean area. FUNGAL GENETICS AND BIOLOGY. 2019; 129 16-29. FI: 3.071. Cuartil: 2. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Welte, T; Len, O; Munoz, P; Romani, L; Lewis, R; Perrella, A. Invasive mould infections in solid organ transplant patients: modifiers and indicators of disease and treatment response. INFECTION. 2019; 47(6) 919-927. FI: 3.04. Cuartil: 2. (Review).*

- *de Viedma, DG. Pathways and strategies followed in the genomic epidemiology of Mycobacterium tuberculosis. INFECTION GENETICS AND EVOLUTION. 2019; 72 4-9. FI: 2.773. Cuartil: 3. (Article).*

- *Garcia-Fernandez, S; Garcia-Castillo, M; Bou, G; Calvo, J; Cercenado, E; Delgado, M; Pitart, C; Mulet, X; Tormo, N; Mendoza, DL; Diaz-Reganon, J; Canton, R; Oliver, A; Pascual, A; Gimeno, C; Rodriguez-Lozano, J; Alonso, AA; Vila, J; Marco, F; del Castillo, MG; Fernandez, SG; Tato, M; SUPERIOR Study Grp. Activity of ceftolozane/tazobactam against Pseudomonas aeruginosa and Enterobacterales isolates recovered from intensive care unit patients in Spain: The SUPERIOR multicentre study. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(5) 682-688. FI: 4.621. Cuartil: 1. (Article).*

- *Galar, A; Munoz, P; Valerio, M; Cercenado, E; Garcia-Gonzalez, X; Burillo, A; Sanchez-Somolinos, M; Juarez, M; Verde, E; Bouza, E. Current use of daptomycin and systematic therapeutic drug monitoring: Clinical experience in a tertiary care institution. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(1) 40-48. FI: 4.621. Cuartil: 1. (Article).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Garcia, F; Martin-Carbonero, L; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Aguilera, A; Benito, R; de Lejarazu, RO; Rojo, S; Eiros, JM; Ramos, C; Garcia, J; Paz, I; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cabrera, J; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Cifuentes, C; Penaranda, M; Nieto, MC; Montejo, JM; Roc, L; Viciana, I; Lozano, AB; Fernandez-Fuertes, E; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Tellez, R; Gorgolas, M; Diaz, J; Miralles, P; Perez, L; Valeiro, M; Aldamiz, T; Margall, N; Suarez, A; Rodriguez-Avial, I; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; HIV-2 Spanish Study Grp. Clinical experience with integrase inhibitors in HIV-2-infected individuals in Spain. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

- *Munoz, P; Ruiz-Camps, I; Richardson, MD. Assessment of and future perspectives on standards of CARE in invasive fungal disease. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74 38-39. FI: 5.439. Cuartil: 1. (Article).*

- *Perez-Vazquez, M; Campoy, PJS; Ortega, A; Bautista, V; Monzon, S; Ruiz-Carrascoso, G; Mingorance, J; Gonzalez-Barbera, EM; Gimeno, C; Aracil, B; Saez, D; Lara, N; Fernandez, S; Gonzalez-Lopez, JJ; Campos, J; Kingsley, RA; Dougan, G; Oteo-Iglesias, J; Rodrigo, CH; Aznar, E; Garcia-Picazo, L; Martinez, BO; Mansilla, EC; Alvarez-Garcia, P; Carretero, JMP; Rodriguez-Conde, I; Cao, SMR; Gimeno, A; Moreno, MOP; Rodriguez, MLC; Cavero, TA; Gil, Y; Esteras, MAR; Andres, JLB; Trujillo, G; Almaraz, JLH; Leon, JL; del Pozo, JL; Salas, CM; Adan, FB; Bertomeu, FG; Cascales, P; Dorado, JC; Suarez, CB; Spanish NDM Study Grp. Emergence of NDM-producing Klebsiella pneumoniae and Escherichia coli in Spain: phylogeny, resistome, virulence and plasmids encoding bla(NDM)-like genes as determined by WGS. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(2) 533-534. FI: 5.439. Cuartil: 1. (Letter).*

- *Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del*

*Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(8) 2157-2161. FI: 5.439. Cuartil: 1. (Article).*

- *Ceballos, S; Aspiroz, C; Ruiz-Ripa, L; Reynaga, E; Azcona-Gutierrez, JM; Rezusta, A; Seral, C; Antonanzas, F; Torres, L; Lopez, C; Lopez-Cerero, L; Cercenado, E; Zarazaga, M; Torres, C; Leiva, J; Ezpeleta, C; Martin, C; Castillo, J; Arribas, J; Navarro, C; Betran, A; Hernandez, JL; Berdonces, P; de Benito, I; Campo, AB; Arias, A; Fortuno, B; Pereira, J; Milagro, A; Soria-Blanco, LM; Alonso, CA; Gimeno, C; Ulibarri, B; Calleja, R; Garcia, M; Navarro, M; Vilamala, A; Canut, A; Cordon, ML; Alvarez, L; Megias, G; Gomariz, M; Calvo, J; Fernandez, M; Lopez-Calleja, AI; Study Grp Clinical LA-MRSA. Epidemiology of MRSA CC398 in hospitals located in Spanish regions with different pig-farming densities: a multicentre study. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(12) 3489-3496. FI: 5.439. Cuartil: 1. (Article).*

- *Bouza, E; Vena, A; Munoz, P; Bouza, E; Machado, M; Martinez-Jimenez, C; Munoz, P; Navarro, R; Perez-Granda, MJ; Sanchez, C; Vena, A; Fortun, J; Gioia, F; Gomez, E; Soriano, C; Pestana, D; Gonzalez-Romo, F; Merino, P; Aguado, JM; Fernandez-Ruiz, M; Lopez-Medrano, F; Orellana, MA; Origuen, J; T2MadRid Study Grp. T2Candida MR as a predictor of outcome in patients with suspected invasive candidiasis starting empirical antifungal treatment: a prospective pilot study-authors' response. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(5) 1357-1362. FI: 5.439. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Kotfis, K; Wittebole, X; Jaschinski, U; Sole-Violan, J; Kashyap, R; Leone, M; Nanchal, R; Fontes, LE; Sakr, Y; Vincent, JL; Tomas, E; Bibonge, EA; Charra, B; Faroudy, M; Doedens, L; Farina, Z; Adler, D; Balkema, C; Kok, A; Alaya, S; Gharsallah, H; Muzha, D; Temelkov, A; Georgiev, G; Simeonov, G; Tsaryanski, G; Georgiev, S; Seliman, A; Vrankovic, S; Vucicevic, Z; Gornik, I; Barsic, B; Husedzinovic, I; Pavlik, P; Manak, J; Kieslichova, E; Turek, R; Fischer, M; Valkova, R; Dadak, L; Dostal, P; Malaska, J; Hajek, R; Zidkova, A; Lavicka, P; Starkopf, J; Kheladze, Z; Chkhaidze, M; Kaloiani, V; Medve, L; Sarkany, A; Kremer, I; Marjanek, Z; Tamasi, P; Krupnova, I; Vanags, I; Liguts, V; Pilvinis, V; Vosylius, S; Kekstas, G; Balciunas, M; Kolbusz, A; Kubler, A; Mielczarek, B; Mikaszewska-Sokolewicz, M; Kotfis, K; Tamowicz, B; Sulkowski, W; Smuszkiewicz, P; Pihowicz, A; Trejnowska, E; Hagau, N; Filipescu, D; Droc, G; Lupu, M; Nica, A; Stoica, R; Tomescu, D; Constantinescu, D; Zbaganu, GV;*

*Slavcovici, A; Bagin, V; Belsky, D; Palyutin, S; Shlyapnikov, S; Bikkulova, D; Gritsan, A; Natalia, G; Makarenko, E; Kokhno, V; Tolkach, A; Kokarev, E; Belotserkovskiy, B; Zolotukhin, K; Kulabukhov, V; Soskic, L; Palibrk, I; Jankovic, R; Jovanovic, B; Pandurovic, M; Bumbasirevic, V; Uljarevic, B; Surbatovic, M; Ladjevic, N; Slobodianiuk, G; Sobona, V; Cikova, A; Gebhardtova, A; Jun, C; Yunbo, S; Dong, U; Feng, S; Duan, M; Xu, Y; Xue, X; Gao, T; Xing, X; Zhao, X; Gengxihua, G; Tan, H; Xu, J; Jiang, L; Tiehe, Q; Bingyu, Q; Shi, Q; Lv, Z; Zhang, L; Jingtao, L; Zhen, Z; Wang, Z; Wang, T; Yuhong, L; Zhai, Q; Wang, C; Jiang, W; Ruilan, W; Chen, Y; Xiaobo, H; Ge, H; Yan, T; Yuhui, C; Zhang, J; Jian-Hong, F; Zhu, H; Huo, F; Wang, Y; Li, C; Zhuang, M; Ma, Z; Sun, J; Liuqingyue, L; Yang, M; Meng, J; Ma, S; Kang, Y; Yu, L; Peng, Q; Wei, Y; Zhang, W; Sun, R; Yeung, A; Wan, W; Sin, K; Lee, K; Wijanti, M; Widodo, U; Samsirun, H; Sugiman, T; Wisudarti, C; Maskoen, T; Hata, N; Kobe, Y; Nishida, O; Miyazaki, D; Nunomiya, S; Uchino, S; Kitamura, N; Yamashita, K; Hashimoto, S; Fukushima, H; Adib, NN; Tai, L; Tony, B; Bigornia, R; Palo, J; Chatterjee, S; Tan, B; Kong, A; Goh, S; Lee, C; Pothirat, C; Khwannimit, B; Theerawit, P; Pornsuriyasak, P; Piriyapatsom, A; Mukhtar, A; Dsicu; Hamdy, AN; Hosny, H; Ashraf, A; Mokhtari, M; Nowruzinia, S; Lotfi, A; Zand, F; Nikandish, R; Moghaddam, OM; Cohen, J; Sold, O; Sfeir, T; Hasan, A; Abugaber, D; Ahmad, H; Tantawy, T; Baharoom, S; Algethamy, H; Amr, A; Almekhlafi, G; Coskun, R; Sungur, M; Cosar, A; Gucyetmez, B; Demirkiran, O; Senturk, E; Ulusoy, H; Atalan, H; Serin, S; Kati, I; Alnassrawi, Z; Almemari, A; Krishnareddy, K; Kashef, S; Alsabbah, A; Poirier, G; Marshall, J; Herridge, M; Fernandez-Medero, R; Fulda, G; Banschbach, S; Quintero, J; Schroeder, E; Sicoutris, C; Gueret, R; Kashyap, R; Bauer, P; Nanchal, R; Wunderink, R; Jimenez, E; Ryan, A; Prince, D; Edington, J; Van Haren, F; Bersten, A; Hawkins, DJ; Kilminster, M; Sturgess, D; Ziegenfuss, M; O'Connor, S; Lipman, J; Campbell, L; Mcallister, R; Roberts, B; Williams, P; Parke, R; Seigne, P; Freebairn, R; Nistor, D; Oxley, C; Young, P; Valentini, R; Wainsztein, N; Comignani, P; Casaretto, M; Sutton, G; Villegas, P; Galletti, C; Neira, J; Rovira, D; Hidalgo, J; Sandi, F; Caser, E; Thompson, M; Dias, MD; Fontes, L; Lunardi, M; Youssef, N; Lobo, S; Silva, R; Sales, J; Melo, LMC; Oliveira, M; Fonte, M; Feijo, C; Rezende, V; Assuncao, M; Neves, A; Gusman, P; Dalcomune, D; Teixeira, C; Kaefer, K; Maia, I; Dantas, VS; Filho, RC; Amorim, F; Assef, M; Schiavetto, P; Houly, J; Bianchi, F; Dias, F; Avila, C; Gomez, J; Rego, L; Castro, P; Passos, J; Mendes, C; Grion, C; Mecatti, GC; Ferrreira, M; Irineu, V; Guerreiro, M; Ugarte, S; Tomicic, V; Godoy, C; Samaniego, W; Escamilla, I; Castro, LC; Duque, GL; Diaz-Guio, D; Benitez, F; Urrego, AG; Buitrago, R; Ortiz, G; Gaviria, MV; Salas, D; Ramirez-Arce, J; Salgado, E; Morocho, D; Vergara, J; Sang, MC; Orellana-Jimenez, C; Garrido, L; Diaz, O; Resiere, D; Osorio, C; De La Vega, A; Carrillo, R; Sanchez, V; Villagomez, A; Zubieta, RM; Sandia, M; Zalatiel, M; Poblano, M; Gonzalez, DR; Arrazola, F; Francisco, LJ; Liamendys-Silva, SA; Hernandez, M; Cadena, DR; Islas, IL; Zarzavilla, CB; Matos, A; Oyanguren, I; Cerna, J; Sierra, RQ; Jimenez, R; Castillo, L; Ocal, R; Sencan, A; Gianoni, SM; Deicas, A; Hurtado, J; Burghi, G; Martinelli, A; Von der Osten, I; Du Maine, C; Bhattacharyya, M; Bandyopadhyay, S; Yanamala, S; Gopal, P; Sahu, S; Ibrahim, M; Rathod, D; Mukundan, N; Dewan, A; Amin, P; Samavedam, S; Shah, B; Gurupal, D; Lahkar, B; Mandal, A; Sircar, M; Ghosh, S; Balasubramani, V; Kapadia, F; Vadi, S; Nair, K; Tripathy, S; Nandakumar, S; Sharma, J; Kar, A; Jha, S; Gurav, KZ; Patel, M; Bhaysar, A; Samaddar, D; Kulkarni, A; Hashmi, M; Ali, W; Nadeem, S; Indraratna, K; Margarit, A; Urbanek, P; Schlieber, J; Reisinger, J; Auer, U; Hartjes, A; Lerche, A; Janous, T; Kink, E; Krahulec, W; Smolle, K; Van der Schueren, M; Thibo, P; Vanhoof, M; Ahmet, I; Gadisseux, P; Dufaye, P; Jacobs, O; Fraipont, V; Biston, P; Dive, A; Bouckaert, Y; Gilbert, E; Gressens, B; Pinck, E; Collin, V; Vincent, JL; De Waele, J; Rimachi, R; Gusu, D; De Decker, K; Mandianga, K; Heytens, L; Wittebole, X; Spapen, H; Olivier, V; Vandenheede, W; Rogiers, P; Kolodzeike, P; Kruse, M; Andersen, T; Harjola, V; Saarinen, K; Leone, M; Durocher, A; Moulront, S; Lepape, A; Losser, M; Cabaret, P; Kalaitzis, E; Zogheib, E; Charve, P; Francois, B; Lefrant, JY; Beilouny, B; Forceville, X; Misset, B; Jacobs, F; Floccard, B; Payen, D; Wynckel, A; Castelain, V; Faure, A; Lavagne, P; Thierry, I; Moussa, M; Vieillard-Baron, A; Durand, M; Gainnier, M; Ichai, C; Arens, S; Hoffmann, C; Kaffarnik, M; Scharnofske, C; Voigt, I; Peckelsen, C; Weber, M; Gille, J; Lange, A; Schoser, G; Sablotzki, A; Jaschinski, U; Bluethgen, A; Vogel, F; Tscheu, A; Fuchs, T; Wattenberg, M; Helmes, T; Scieszka, S; Heintz, M; Sakka, S; Kohler, J; Fiedler, F; Danz, M; Sakr, Y; Riessen, R; Kerz, T; Kersten, A; Tacke, F; Marx, G; Volkert, T; Schmutz, A; Nierhaus, A; Kluge, S; Abel, P; Janosi, R; Utzolino, S; Bracht, H; Toussaint, S; Peftoulidou, MG; Myrianthefs, P; Armaganidis, A; Routsi, C; Xini, A; Mouloudi, E; Kokoris, I; Kyriazopoulos, G; Vlachos, S; Lavrentieva, A; Partala, P; Nakos, G; Moller, A; Stefansson, S; Barry, J; O'Leary, R; Motherway, C; Faheem, M; Dunne, E; Donnelly, M; Konrad, T; Bonora, E; Achilli, C; Rossi, S; Castiglione, G; Penis, A; Albanese, D; Stocchetti, N; Citerio, G; Mozzoni, L; Sisillo, E; De Negri, P; Savioli, M; Vecchiarelli, P; Puflea, F; Stankovic, V; Minoja, G; Montibeller, S; Calligaro, P; Sorrentino, R; Feri, M; Zambon, M; Colombaroli, E; Giarratano, A; Pellis, T; Capra, C; Antonelli, M; Gullo, A; Chelazzi, C; De Capraris, A; Patroniti, N; Girardis, M; Franchi, F; Berlot, G; Buttigieg, M; Ponssen, H; Cate, JT; Bormans, L; Husada, S; Buise, M; Van Der Hoven, B; Reidinga, A; Kuiper, M; Pickkers, P; Kluge, G; Den Boer, S; Kesecioglu, J; Van Leeuwen, H; Flaatten, H; Mo, S; Branco, V; Rua, F; Lafuente, E; Sousa, M; Catorze, N; Barros, M; Pereira, L; De Oliveira, AV; Gomes, J; Gaspar, I; Pereira, M; Cymbron, M; Dias, A; Almeida, E; Beirao, S; Serra, I; Ribeiro, R; Povoa, P; Faria, F; Costa-E-Silva, Z; Nobrega, A; Fernandes, F; Gabriel, J; Voga, G; Rupnik, E; Kosec, L; Povsic, MK; Osojnik, I; Tomic, V; Sinkovic, A; Gonzalez, J; Zavala, E; Valenzuela, AP; Marina, L; Vidal-Cortes, P; Posada, I; Martin-Loeches, AI; Guillen, NM; Palomar, M; Sole-Violan, U; Torres, A; Gallego, MG; Aguilar, G; Allue, RM; Argueso, M; Parejo, M; Navarro, MP; Jose, A; Nin, N; Lerma, FA; Martinez, O; Lozano, ET; Lopez, SA; Granda, MP; Moreno, S; Llubia, C; Martos, CD; Gonzalez-Arenas, P; Fernandez, NL; Rueda, BG; Pons, IE; Cruza, N; Maroto, F; Estella, A; Ferrer, A; Fraile, LI; Quindos, B; Quintano, A; Tebar, M; Cardinal, I; Reyes, A; Rodriguez, A; Abella, A; Del Valle, SG; Yus, S; Maseda, E; Berezo, U; Pedregosa, AT; Laplaza, C; Ferrer, R; Rico-Feijoo, U; Rodriguez, M; Monedero, P; Eriksson, K; Lind, D; Chabanel, D; Zender, H; Heer, K; Frankenberger, B; Jakob, S; Mathew, S; Downes, R; Groba, CB; Johnston, A; Meacher, R; Keays, R; Haji-Michael, P; Tyler, C; Ferguson, A; Jones, S; Tyl, D; Ball, A; Vogel, U; Booth, M; Downie, P; Watters, M; Brett, S; Garfield, M; Everett, L; Heenen, S; Dhir, S; Beardow, Z; Mostert, M; Brosnan, S; Pinto, N; Harris, S; Summors, A; Andrew, N; Rose, A; Appelboam, R; Davies, O; Vickers, E; Agarwal, B; Szakmany, T; Wimbush, S; Welters, I; Pearse, R; Hollands, R; Kirk-Bayley, U; Fletcher, N; Bray, B; Brealey, D; ICON Investigators. A worldwide perspective of sepsis epidemiology and survival according to age: Observational data from the ICON audit. JOURNAL OF CRITICAL CARE. 2019; 51 122-132. FI: 2.685. Cuartil: 3. (Article).*

- *Perez, AB; Chueca, N; Garcia-Deltoro, M; Martinez-Sapina, AM; Lara-Perez, MM; Garcia-Bujalance, S; Aldamiz-Echevarria, T; Vera-Mendez, FJ; Pineda, JA; Casado, M; Pascasio, JM; Salmeron, J; Alados-Arboledas, JC; Poyato, A; Tellez, F; Rivero-Juarez, A; Merino, D; Vivancos-Gallego, MJ; Rosales-Zabal, JM; Garcia, F; Ocete, MD; Simon, MA; Rincon, P; Reus, S; De la Iglesia, A; Garcia-Arata, I; Jimenez, M; Jimenez, F; Hernandez-Quero, J; Galera, C; Balghata, MO; Primo, J; Masia, M; Espinosa, N; Delgado, M; von-Wichmann, MA; Collado, A; Santos, J; Minguez, C; Diaz-Flores, F; Fernandez, E; Bernal, E; De*

*Juan, J; Anton, JJ; Velez, M; Aguilera, A; Navarro, D; Arenas, JI; Fernandez, C; Espinosa, MD; Rios, MJ; Alonso, R; Hidalgo, C; Hernandez, R; Tellez, MJ; Rodriguez, FJ; Antequera, P; Delgado, C; Martin, P; Crespo, J; Becerril, B; Perez, O; Garcia-Herola, A; Montero, J; Freyre, C; Grau, C; GEHEP-004 Study Grp. High efficacy of resistance-guided retreatment of HCV patients failing NS5A inhibitors in the real world. JOURNAL OF HEPATOLOGY. 2019; 71(5) 876-888. FI: 20.582. Cuartil: 1. (Article).*

- *Prieto-Arevalo, R; Munoz, P; Cuerpo, G; Mari-Hualde, A; Castelo-Corral, L; Navas-Elorza, E; Cifuentes-Luna, C; Alonso-Socas, MD; Boix-Palop, L; Martinez-Selles, M; Spanish Collaboration Endocarditis. Pulmonary Infective Endocarditis. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. 2019; 73(21) 2782-2784. FI: 20.589. Cuartil: 1. (Letter).*

- *Cornely, OA; Alastruey-Izquierdo, A; Arenz, D; Chen, SCA; Dannaoui, E; Hochhegger, B; Hoenigl, M; Jensen, HE; Lagrou, K; Lewis, RE; Mellinghoff, SC; Mer, M; Pana, ZD; Seidel, D; Sheppard, DC; Wahba, R; Akova, M; Alanio, A; Al-Hatmi, AMS; Arikan-Akdagli, S; Badali, H; Ben-Ami, R; Bonifaz, A; Bretagne, S; Castagnola, E; Chayakulkeeree, M; Colombo, AL; Corzo-Leon, DE; Drgona, L; Groll, AH; Guinea, J; Heussel, CP; Ibrahim, AS; Kanj, SS; Klimko, N; Lackner, M; Lamoth, F; Lanternier, F; Lass-Floerl, C; Lee, DG; Lehrnbecher, T; Lmimouni, BE; Mares, M; Maschmeyer, G; Meis, JF; Meletiadis, J; Morrissey, CO; Nucci, M; Oladele, R; Pagano, L; Pasqualotto, A; Patel, A; Racil, Z; Richardson, M; Roilides, E; Ruhnke, M; Seyedmousavi, S; Sidharthan, N; Singh, N; Sinko, J; Skiada, A; Slavin, M; Soman, R; Spellberg, B; Steinbach, W; Tan, BH; Ullmann, AJ; Vehreschild, JJ; Vehreschild, MJGT; Walsh, TJ; White, PL; Wiederhold, NP; Zaoutis, T; Chakrabarti, A; Mucormycosis ECMM MSG Global. Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study Group Education and Research Consortium. LANCET INFECTIOUS DISEASES. 2019; 19(12) 405-421. FI: 24.446. Cuartil: 1. (Review).*

- *Fradejas, I; Rubio, JM; Martin-Diaz, A; Herrero-Martinez, JM; Ruiz-Giardin, JM; Rojo-Marcos, G; Velasco, M; Calderon-Moreno, M; Azcona-Gutierrez, JM; Merino, FJ; Olmo, BA; Espinosa, M; Cuadrado, M; Gonzalez-Monte, E; Jaqueti, J; Cuadros, J; Campelo, C; Delgado-Iribarren, A; Martin-Rabadan, P; Garcia-Garcia, C; Martin-Laso, MA; Valle-Borrego, B; Garcia, MC; Lizasoain, M; Perez-Ayala, A. Prevalence of submicroscopic malaria infection in immigrants living in Spain. MALARIA JOURNAL. 2019; 18 -. FI: 2.631. Cuartil: 1. (Article).*

- *Cuervo G; Garcia-Vidal C; Puig-Asensio M; Merino P; Vena A; Martin-Pena A; Montejo JM; Ruiz A; Lazaro-Perona F; Fortun J; Fernandez-Ruiz M; Suarez AI; Castro C; Cardozo C; Gudiol C; Aguado JM; Pano JR; Peman J; Salavert M; Garnacho-Montero J; Cisneros JM; Soriano A; Munoz P; Almirante B; Carratala J; REIPI, the GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group. Usefulness of guideline recommendations for prognosis in patients with candidemia. MEDICAL MYCOLOGY. 2019; 57(1) 63-70. FI: 2.822. Cuartil: 1. (Article).*

- *Salinas B; Guembe M; Cussó L; Kestler M; Guinea J; Desco M; Muñoz P; Bouza E. Assessment of the anti-biofilm effect of micafungin in an animal model of catheter-related candidemia. MEDICAL MYCOLOGY. 2019; 57(4) 504-509. FI: 2.822. Cuartil: 1. (Article).*

- *Diaz-Garcia, Judith; Marcos-Zambrano, Laura Judith; Munoz, Patricia; Guinea, Jesus; Escribano, Pilar. Does the composition of polystyrene trays affect Candida spp. biofilm formation?. MEDICAL MYCOLOGY. 2019; 57(6) 659-667. FI: 2.822. Cuartil: 1. (Article).*

- *Zvezdanova, ME; Escribano, P; Ruiz, A; Martinez-Jimenez, MC; Pelaez, T; Collazos, A; Guinea, J; Bouza, E; Rodriguez-Sanchez, B. Increased species-assignment of filamentous fungi using MALDI-TOF MS coupled with a simplified sample processing and an in-house library. MEDICAL MYCOLOGY. 2019; 57(4) 496-503. FI: 2.822. Cuartil: 1. (Article).*

- *Bordallo-Cardona, MA; Sanchez-Carrillo, C; Munoz, P; Bouza, E; Escribano, P; Guinea, J. Growth kinetics in Candida spp.: Differences between species and potential impact on antifungal susceptibility testing as described by the EUCAST. MEDICAL MYCOLOGY. 2019; 57(5) 601-608. FI: 2.822. Cuartil: 1. (Article).*

- *Mitsuwan, W; Jimenez-Munguia, I; Visutthi, M; Sianglum, W; Jover, A; Barcenilla, F; Garcia, M; Pujol, M; Gasch, O; Dominguez, MA; Camoez, M; Duenas, C; Ojeda, E; Martinez, JA; Marco, F; Chaves, F; Lagarde, M; Lopez-Medrano, F; Montejo, JM; Bereciertua, E; Hernandez, JL; von Wichmann, MA; Goenaga, A; Garcia-Arenzana, JM; Padilla, B; Padilla, C; Cercenado, E; Garcia-Prado, G; Tapiol, J; Horcajada, JP; Montero, M; Salvado, M; Arnaiz, A; Fernandez, C; Calbo, E; Xercavins, M; Granados, A; Fontanals, D; Pintado, V; Loza, E; Torre-Cisneros, J; Lara, R; Rodriguez-Lopez, F; Natera, C; Blanco, JR; Olarte, I; Benito, N; Mirelis, B; Murillas, J; de Gopegui, ER; Espejo, H; Morera, MA; Rodriguez-Bano, J; Lopez-Cortee, LE; Pascual, A; Martin, C; Lepe, JA; Molina, J; Sorde, R; Almirante, B; Larrosa, N; Rodriguez-Ortega, MJ; Voravuthikunchai, SP; REIPI GEIH Study Grp. Rhodomyrtone decreases Staphylococcus aureus SigB activity during exponentially growing phase and inhibits haemolytic activity within membrane vesicles. MICROBIAL PATHOGENESIS. 2019; 128 112-118. FI: 2.914. Cuartil: 3. (Article).*

- *Fortun, J; Gioia, F; Cardozo, C; Gudiol, C; Diago, E; Caston, JJ; Munoz, P; Lopez, J; Puerta-Alcalde, P; Enzenhofer, M; Ramos, A; Frutos, A; Machado, M; Garcia-Vidal, C; Parody, R; Martin-Davila, P. Posaconazole salvage therapy: The Posifi study. MYCOSES. 2019; 62(5) 441-449. FI: 3.575. Cuartil: 1. (Article).*

- *Vena, A; Munoz, P; Guinea, J; Escribano, P; Pelaez, T; Valerio, M; Bonache, F; Gago, S; Alvarez-Uria, A; Bouza, E. Fluconazole resistance is not a predictor of poor outcome in patients with cryptococcosis. MYCOSES. 2019; 62(6) 526-533. FI: 3.575. Cuartil: 1. (Article).*

- *Bassetti, M; Scudeller, L; Giacobbe, DR; Lamoth, F; Righi, E; Zuccaro, V; Grecchi, C; Rebuffi, C; Akova, M; Alastruey-Izquierdo, A; Arikan-Akdagli, S; Azoulay, E; Blot, SI; Cornely, OA; Lass-Florl, C; Koehler, P; Cuenca-Estrella, M; de Lange, DW; De Rosa, FG; De Waele, JJ; Dimopoulos, G; Garnacho-Montero, J; Hoenigl, M; Kanj, SS; Maertens, J; Martin-Loeches, I; Munoz, P; Kullberg, BJ; Agvald-Ohman, C; Poulakou, G; Rello, J; Sanguinetti, M; Taccone, FS; Timsit, JF; Torres, A; Vazquez, JA;*

*Calandra, T; Grp Infect Critically Patients ESG; Fungal Infect Grp EFISG; European Soc Clinical Microbio Inf; European Soc Intensive Care Med E; European Confederation Med Mycol; Mycoses Grp Educ Res Consortium. Developing definitions for invasive fungal diseases in critically ill adult patients in intensive care units. Protocol of the FUNgal infections Definitions in ICU patients (FUNDICU) project. MYCOSES. 2019; 62(4) 310-319. FI: 3.575. Cuartil: 1. (Article).*

- *Lopez-Alad, R; Guiu, A; Mosquera, MM; Lopez-Medrano, F; Cofan, F; Linares, L; Torre-Cisneros, J; Vidal, E; Moreno, A; Aguado, JM; Cordero, E; Martin-Gandul, C; Carratala, J; Sabe, N; Niubo, J; Cervera, C; Capon, A; Cervilla, A; Santos, M; Bodro, M; Munoz, P; Farinas, MC; Anton, A; Aranzamendi, M; Montejo, M; Perez-Romero, P; Len, O; Marcos, MA. Improvement in detecting cytomegalovirus drug resistance mutations in solid organ transplant recipients with suspected resistance using next generation sequencing. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Alonso, B; Perez-Granda, MJ; Latorre, MC; Rodriguez, C; Sanchez-Carrillo, C; Munoz, P; Guembe, M. Is heparinized 40% ethanol lock solution efficient for reducing bacterial and fungal biofilms in an in vitro model?. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Bouza, E; Ancochea-Bermudez, J; Campins, M; Eiros-Bouza, JM; Fargas, J; Rojas, AJG; Gracia, D; Sanchez, AG; Limia, A; Lopez, JA; Magro, MD; Mirada, G; Munoz, P; Olier, E; de Lejarazu, RO; Urbiztondo, L; Palomo, E. Vaccines for the prevention of infections in adults: an opinion paper on the situation in Spain. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(2) 205-207. FI: 1.132. Cuartil: 4. (Letter).*

- *Pano, JR; Pigrau, C; Morte, E; Almirante, B; Munoz, P; Bouza, E. A man from Morocco and chronic hip pain. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(2) 165-177. FI: 1.132. Cuartil: 4. (Article).*

- *Agnelli, C; Guinea, J; Valerio, M; Escribano, P; Bouza, E; Munoz, P. Infectious endocarditis caused by Candida glabrata: evidence of in vivo development of echinocandin resistance. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(2) 145-155. FI: 1.132. Cuartil: 4. (Article).*

- *Bouza, E; Alonso, S; Asensio, A; De Juan, G; Lucio, CG; Larrosa, C; Lopez-Iglesias, J; Munoz, P; Sierra, R; Perianes, J; De la Serna, JL; Palomo, E; Gracia, D. Information on nosocomial infections in the mainstream media: an opinion document. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(1) 50-59. FI: 1.132. Cuartil: 4. (Article).*

- *Cercenado, E. Highlights at the ASM Microbe 2018, Atlanta (USA). REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(1) 78-82. FI: 1.132. Cuartil: 4. (Editorial Material).*

- *Bouza, E. Some highlights of the content of the San Francisco ID-Week, in the area of bacterial infection. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(4) 333-364. FI: 1.132. Cuartil: 4. (Article).*

- *Bouza, E; Cobo, J; Almirante, B; Duenas, C; Escudero, R; Farinas, C; Feher, C; Horcajada, JP; Merino, E; Merino, P; Montejo, M; Olmedo, M; Ramos-Martinez, A; Rodriguez-Pardo, D; Mesa, JDR; Salavert, M; Sarria, C; Silva, JT; Grp Trabajo CLODIEXPAN. Recommendations from a panel of experts on the usefulness of fidaxomicin for the treatment of infections caused by Clostridium difficile. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(4) 395-397. FI: 1.132. Cuartil: 4. (Letter).*

- *Canton, R; Loza, E; Aznar, J; Castillo, FJ; Cercenado, E; Fraile-Ribot, PA; Gonzalez-Romo, F; Lopez-Hontangas, JL; Rodriguez-Lozano, J; Suarez-Barrenechea, AI; Tubau, F; Diaz-Reganon, J; Lopez-Mendoza, D; Rodriguez-Lozano, J; Calvo, J; Tubau, F; Dominguez, MA; Saenz, JLP; Fraile-Ribot, PA; Oliver, A; Castillo, FJ; Seral, C; Lopez-Hontangas, JL; Canton, R; Garcia-Castillo, M; Loza, E; Cercenado, E; Romo, FG; Prieto, J; Aznar, J; Rodriguez-Rey, A; Pascual, A; Suarez-Barrenechea, AI; SMART Spain Working Grp. Monitoring the antimicrobial susceptibility of Gram-negative organisms involved in intra-abdominal and urinary tract infections recovered during the SMART study (Spain, 2016 and 2017). REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32 10-15. FI: 1.132. Cuartil: 4. (Article).*

- *Olmedo, M; Reigadas, E; Valerio, M; Vazquez-Cuesta, S; Pajares, JA; Matilla, A; Munoz, P; Bouza, E. Is it reasonable to perform Fecal Microbiota Transplantation for recurrent Clostridium difficile Infection in patients with liver cirrhosis?. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32 22-23. FI: 1.132. Cuartil: 4. (Article).*

- *Alastruey-Izquierdo, A; Asensio, A; Besoli, A; Calabuig, E; Fernandez-Ruiz, M; Garcia-Vidal, C; Gasch, O; Guinea, J; Martin-Gomez, MT; Pano, JR; Ramirez, P; Ruiz-Gaitan, A; Salavert, M; Tasias, M; Vinuela, L; Peman, J; GEMICOMED GEIRAS-SEIMC. GEMICOMED/GEIRAS-SEIMC recommendations for the management of Candida auris infection and colonization. REVISTA IBEROAMERICANA DE MICOLOGIA. 2019; 36(3) 109-114. FI: 1.627. Cuartil: 4. (Article).*

- *Ramos-Vivas, J; Chapartegui-Gonzalez, I; Fernandez-Martinez, M; Gonzalez-Rico, C; Fortun, J; Escudero, R; Marco, F; Linares, L; Montejo, M; Aranzamendi, M; Munoz, P; Valerio, M; Aguado, JM; Resino, E; Ahufinger, IG; Vega, AP; Martinez, L; Farinas, MC; San Millan, JCR; Rodrigo, E; Morencos, FC; Fabrega, E; Cuadrado, A; Farinas-Alvarez, C; Gozalo, M; Revillas, FA; Davila, PM; Martinez, A; Garbajosa, PR; Moreno, A; Bodro, M; Solano, MF; Blanco, MJ; Nieto, J; Machado, M; Olmedo, M; Fernandez, SR; Sanz, CR; Rangel, TV; Bento, CA; Recalde, AG; Eworo, A; Fernandez-Lomana, FA; Rodriguez-Ferrero, ML; Camara, LAS; Chaves, F; Cisneros, JD; ENTHERE Study Grp; Spanish Soc Infect Dis Clin Microb; Spanish Network Res Infect Dis REI. Biofilm formation by multidrug resistant Enterobacteriaceae strains isolated from solid organ transplant recipients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M;*

*Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Perez-Lago, L; Campos-Herrero, MI; Canas, F; Copado, R; Sante, L; Pino, B; Lecuona, M; Gil, OD; Martin, C; Munoz, P; Garcia-de-Viedma, D; Samper, S. A Mycobacterium tuberculosis Beijing strain persists at high rates and extends its geographic boundaries 20 years after importation. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Fernandez-Ruiz, M; Cardozo, C; Salavert, M; Aguilar-Guisado, M; Escola-Verge, L; Munoz, P; Gioia, F; Montejo, M; Merino, P; Cuervo, G; Garcia-Vidal, C; Aguado, JM; Padilla, B; Pano-Pardo, JR; Garcia-Rodriguez, J; Cerrada, CG; Ryan, P; Campelo, C; Gil, ID; Buendia, V; Gorricho, BP; Alonso, M; Sanz, FS; Romo, FG; Gorgolas, M; Gadea, I; Losa, JE; Delgado-Iribarren, A; Ramos, A; Romero, Y; Romero, IS; Zaragoza, O; Cuenca-Estrella, M; Rodriguez-Bano, J; Suarez, AI; Loza, A; Garcia, AIA; Martin-Mazuelos, E; de Pipaon, MRP; Garnacho, J; Ortiz, C; Chavez, M; Maroto, FL; Peman, J; Blanquer, J; Camarena, JJ; Zaragoza, R; Abril, V; Gimeno, C; Hernandez, S; Ezpeleta, G; Bereciartua, E; Almaraz, JLH; Rivas, RA; Ayarza, R; Planes, AM; Ruiz-Camps, I; Mensa, J; Almela, M; Gurgui, M; Sanchez-Reus, F; Martinez-Montauti, J; Sierra, M; Horcajada, JP; Sorli, L; Gomez, J; Gene, A; Urrea, M; Diaz-Martin, A; Puchades, F; Mularoni, A; Puerta-Alcalde, P; Morata, L; Rodriguez-Nunez, O; Guerrero, MA; Carratala, J; Sabe, N; Ayats, J; Grau, I; Calabuig, E; Castro, I; Cuellar, S; Fortun, J; Martin-Davila, P; de la Pedrosa, EGG; Perez-Ayala, A; Losada, I; Navarro, D; Suarez, MI; Martin-Gomez, MT; Almirante, B; Rodriguez-Alvarez, R; Lopez-Soira, L; Vena, A; Valerio, M; Bouza, E; Guinea, J; Martin, C; CANDIPOP Project; CANDI Bundle Grp; GEIRAS GEMICOMED SEIMC REIPI. Candidemia in solid organ transplant recipients in Spain: Epidemiological trends and determinants of outcome. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(6) -. FI: 2.071. Cuartil: 3. (Article).*

- *Agnelli C; Valerio M; Olmedo M; Guinea J; Zatarain-Nicolás E; Del Carmen Martínez-Jiménez M; Alcalá L; Escribano P; Cebollero Presmanes M; Bouza E; Muñoz P; Martín-Rabadán P. Fatal disseminated infection by Gymnascella hyalinospora in a heart transplant recipient. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(5) -. FI: 2.071. Cuartil: 3. (Article).*

- *Picazo, JJ; Ruiz-Contreras, J; Casado-Flores, J; Negreira, S; Baquero-Artigao, F; Hernandez-Sampelayo, T; Otheo, E; del Amo, M; Mendez, C; Ramos, JT; Betriu, C; Culebras, E; Gonzalez, F; Rodriguez-Avial, I; Ruiz-Contreras, J; Negreira, S; Orellana, MA; Delgado-Iribarren, A; Bueno, M; Alhambra, A; Garcia, MT; Gonzalez, MJ; Cobos, J; Baquero, F; Garcia, A; Casado, J; Hernandez, B; Zafra, M; Jaqueti, J; Calvo, C; Wilhelmi, I; Serrano, C; Garcia-Penuela, E; Cercenado, E; Hernandez-Sampelayo, T; Otheo, E; Ruiz, P; Dominguez, N; Gadea, I; Romero, I; Gomez-Garces, JL; Roa, MA; Ruiz, M; Cacho, J; Garcia-Picazo, ML; Gallego, S; Cilleruelo, MJ; Sanchez, MI; Penin, M; Gomez, P; Salso, S; Corcino, M; Rodriguez, A; Clemente, J; Ruibal, JL; Agundez, B; Canete, A; Garcia-Vao, C; Sanchez, A; Sanz, JC; Mendez, C; del Amo, M; Balseiro, C; Samaniego, ML; Heracles Study Grp. Impact of 13-valent pneumococcal conjugate vaccination on invasive pneumococcal disease in children under 15 years old in Madrid, Spain, 2007 to 2016: The HERACLES clinical surveillance study. VACCINE. 2019; 37(16) 2200-2207. FI: 3.143. Cuartil: 2. (Article).*

- *de Mendoza, C; Caballero, E; Aguilera, A; Benito, R; Macia, D; Garcia-Costa, J; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Mira, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Roc, L; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Fernandez-Alonso, M; Reina, G; Trevino, A; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; Gomez-Gallego, F; Perez, S; Morano, L; Spanish HTLV Network. HIV co-infection in HTLV-1 carriers in Spain. VIRUS RESEARCH. 2019; 266 48-51. FI: 2.934. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Pedraz-Prieto, A; Monzon-Diaz, D; Gonzalez, RHRA; Las, CJ; Hortal-Iglesias, J; Gonzalez-Pinto, AT. Ventricular fibrillation in early postoperative period after David procedure due to surgical ligation of the conal artery. CIRUGIA CARDIOVASCULAR. 2019; 26(3) 169-171. (Article).*

- *Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Fernande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).*

- *Roc, L; de Mendoza, C; Fernandez-Alonso, M; Reina, G; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Miro, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martinez-Sapina, A; Viciana,*

*I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Trevino, A; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; Barreiro, P; Corral, O; Gomez-Gallego, F; Spanish HTLV Network. Rapid subacute myelopathy following kidney transplantation from HTLV-1 donors: role of immunosuppresors and failure of antiretrovirals. THERAPEUTIC ADVANCES IN INFECTIOUS DISEASE. 2019; 6 -. (Article).*

***Other publications***

- *Velasquez-Rodriguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernandez M; Valerio M; Fernandez-Aviles F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).*

# 4.02 Clinical and epidemiological aspect of HIV and associated conditions

Group Director: **Juan Berenguer Berenguer**
Organisms involved: **HGUGM**
**Consolidated Group**

## Research lines

**Axis 1: VIH**
- L 1: Epidemiology and natural history
- L 2: Immunopathogenesis
- L 3: Prevention
- L 4: Antiretroviral treatment
- L 5: Functional cure/eradication
- L 6: Cancer

**Axis 2: Viral hepatitis**
- L 1: Epidemiology.
- L 2: Treatment.
- L 3: Effects of eradication
- L 4: HBV.
- L 5: Noninvasive markers of liver fibrosis

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ALDAMIZ-ECHEVARRIA | LOIS | Mª TERESA | R2 | Recognised Researcher |
| BERENGUER | BERENGUER | JUAN | R4 | Leading Researcher |
| DIEZ | ROMERO | CRISTINA | R2 | Recognised Researcher |
| FANCIULLI | | CHIARA | R1 | First Stage Researcher |
| GUTIERREZ | CUELLAR | ISABEL | Other | Research Nurse |
| LÓPEZ | BERNALDO DE QUIROS | JUAN CARLOS | R3 | Established Researcher |
| MIRALLES | MARTÍN | PILAR | R1 | First Stage Researcher |
| PARRAS | VAZQUEZ | FRANCISCO | R2 | Recognised Researcher |
| PEREZ | LATORRE | LEIRE | R2 | Recognised Researcher |
| RAMIREZ | SCHACKE | MARGARITA | Other | Research Nurse |
| RYAN | MURUA | PABLO | R2 | Recognised Researcher |
| TEJERINA | PICADO | FRANCISCO | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

TITLE: **Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis**. PI17/00657
DIRECTOR: BERENGUER BERENGUER, JUAN
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Juan Rodés contract**. JR17/00018
DIRECTOR: ALDAMIZ-ECHEVARRIA LOIS, Mª TERESA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2021

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| RETICS | Red Española de Investigación en SIDA (RIS). RD16/0025/0017 | Collaborating group |

## Clinical Practice Guidelines

| Authors | Title | Journal / Reference |
|---|---|---|
| EACS Panel Members | **EACS Guidelines 2019** | https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf |
| The Spanish Association for the Study of the Liver | **Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH)** | DOI: 10.1016/j.gastrohep.2019.09.002 |

## Publications

## Total Impact Factor: **149.2**

| | Nº | FI |
|---|---|---|
| Own publications | 6 | 22,2 |
| Joint publications | 33 | 127,0 |
| First decile publications | 6 | 42,5 |
| First quartile publications | 15 | 80,8 |
| Second quartile publications | 14 | 48,6 |
| Third quartile publications | 6 | 13,4 |
| Fourth quartile publications | 4 | 6,5 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **43** | **149,2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Berenguer J; Gil-Martin A; Jarrin I; Montes ML; Dominguez L; Aldamiz-Echevarria T; Tellez MJ; Santos I; Troya J; Losa JE; Serrano R; De Guzman MT; Calvo MJ; Gonzalez-Garcia JJ; Madrid-CoRe Study Group. Reinfection by HCV following effective all-oral DAA therapy in HIV/HCV-coinfected individuals. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).*
- *Requena, S; Caballero, E; Lozano, AB; Rios-Villegas, MJ; Benito, R; Rojo, S; Cabezas, T; Macia, MD; Nieto, MD; Soriano, V; de Mendoza, C; Rodriguez, C; Vera, M; del Romero, J; Ocete, MD; Caballero, E; Aguilera, A; Amengual, MJ; Cervantes, M; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eiros, JM; Ramos, C; Garcia-Costa, J; Calderon, E; Rios-Villegas, MJ; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Ramos, JM; Gimeno, A; Sanchez, V; Gomez-Hernando, C; Echeverria, MJ; Cilla, G; Perez-Trallero, E; Fernandez-Pereira, L; Niubo, J; Margall, N; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Sauca, M; Perez, S; Morano, L; Raya, C; Praetorius, AG; Cifuentes, C; Penaranda, M; Nieto, MC; Montejo, JM; Roc, L; Martinez-Sapina, A; Viciana, I; Lozano, AB; Perez-Camacho, I; Fernandez-Fuertes, E; Fernandez, JM; Cabezas, T; Bermejo, IG; Gaspar, G; Gorgolas, M; Vegas, C; Blas, J; Tellez, R; Perez, L; Valeiro, M; Aldamiz, T; Garcia, F; Suarez, A; Rodriguez-Avial, I; Barreiro, P; Soriano, V; Gomez-Gallego, F; Corral, O; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Spanish HIV-2 Study Grp. Treatment outcome in dually HIV-1 and HIV-2 coinfected patients living in Spain. AIDS. 2019; 33(14) 2167-2172. FI: 4.511. Cuartil: 1. (Article).*
- *Trickey, A; van Sighem, A; Stover, J; Abgrall, S; Grabar, S; Bonnet, F; Berenguer, J; Wyen, C; Casabona, J; Monforte, AD; Cavassini, M; del Amo, J; Zangerle, R; Gill, MJ; Obel, N; Sterne, JAC; May, MT. Parameter estimates for trends and patterns of excess mortality among persons on antiretroviral therapy in high-income European settings. AIDS. 2019; 33 271-281. FI: 4.511. Cuartil: 1. (Article).*
- *Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; Lopez-Fernandez, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Diez-Martin, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(4) 685-689. FI: 4.511. Cuartil: 1. (Article).*

- *Garcia, M; Jimenez-Sousa, MA; Blanco, J; Restrepo, C; Pacheco, YM; Brochado-Kith, O; Lopez-Bernaldo, JC; Gutierrez, F; Portilla, J; Estrada, V; Gorgolas, M; Cabello, A; Resino, S; Benito, JM; Rallon, N; CoRIS Spanish HIV Biobank. CD4 recovery is associated with genetic variation in IFN gamma and IL19 genes. ANTIVIRAL RESEARCH. 2019; 170 -. FI: 4.101. Cuartil: 1. (Article).*

- *Eron, JJ; Orkin, C; Cunningham, D; Pulido, F; Post, FA; De Wit, S; Lathouwers, E; Hufkens, V; Jezorwski, J; Petrovic, R; Brown, K; Van Landuyt, E; Opsomer, M; De Wit, S; Florence, E; Moutschen, M; Van Wijngaerden, E; Vandekerckhove, L; Vandercam, B; Brunetta, J; Conway, B; Klein, M; Murphy, D; Rachlis, A; Shafran, S; Walmsley, S; Ajana, F; Cotte, L; Girardy, PM; Katlama, C; Molina, JM; Poizot-Martin, I; Raffi, F; Rey, D; Reynes, J; Teicher, E; Yazdanpanah, Y; Gasiorowski, J; Halota, W; Horban, A; Piekarska, A; Witor, A; Arribas, JR; Perez-Valero, I; Berenguer, J; Casado, J; Gatell, JM; Gutierrez, F; Galindo, MJ; Gutierrez, MDM; Iribarren, JA; Knobel, H; Negredo, E; Pineda, JA; Podzamczer, D; Sogorb, JP; Pulido, F; Ricart, C; Rivero, A; Gil, IS; Blaxhult, A; Flamholc, L; Gisslen, M; Thalme, A; Fehr, J; Rauch, A; Stoeckle, M; Clarke, A; Gazzard, BG; Johnson, MA; Orkin, C; Post, F; Ustianowski, A; Waters, L; Bailey, J; Benson, P; Bhatti, L; Brar, I; Bredeek, UF; Brinson, C; Crofoot, G; Cunningham, D; DeJesus, E; Dietz, C; Dretler, R; Eron, J; Felizarta, F; Fichtenbaum, C; Gallant, J; Gathe, J; Hagins, D; Henn, S; Henry, WK; Huhn, G; Jain, M; Lucasti, C; Martorell, C; McDonald, C; Mills, A; Morales-Ramirez, J; Mounzer, K; Nahass, R; Olivet, H; Osiyemi, O; Prelutsky, D; Ramgopal, M; Rashbaum, B; Richmond, G; Ruane, P; Scarsella, A; Scribner, A; Shalit, P; Shamblaw, D; Slim, J; Tashima, K; Voskuhl, G; Ward, D; Wilkin, A; de Vente, J; EMERALD Study Grp. Week 96 efficacy and safety results of the phase 3, randomized EMERALD trial to evaluate switching from boosted-protease inhibitors plus emtricitabine/tenofovir disoproxil fumarate regimens to the once daily, single-tablet regimen of darunavir/cobicistat/. ANTIVIRAL RESEARCH. 2019; 170 -. FI: 4.101. Cuartil: 1. (Article).*

- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *de Mendoza, C; Roc, L; Benito, R; Reina, G; Ramos, JM; Gomez, C; Aguilera, A; Rodriguez-Iglesias, M; Garcia-Costa, J; Fernandez-Alonso, M; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; Miguel, AS; Manzardo, C; Miro, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Hernandez-Betancor, A; Martin, AM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Trevino, A; Requena, S; Benitez-Gu-tierrez, L; Cuervas-Mons, V; Barreiro, P; Soriano, V; Corral, O; Gomez-Gallego, F; Spanish HTLV Network. HTLV-1 infection in solid organ transplant donors and recipients in Spain. BMC INFECTIOUS DISEASES. 2019; 19(1) -. FI: 2.688. Cuartil: 3. (Article).*

- *de Mendoza, C; Roc, L; Fern?ndez-Alonso, M; Soriano, V; Rodr?guez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Aguilera, A; Rodr?guez-Calvi?o, JJ; Rivero, C; Vilari?o, MD; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eir?s, JM; Ramos, C; Manzardo, C; Mir?, JM; Garc?a-Costa, J; Calder?n, E; Escudero, D; Trigo, M; Diz, J; Garc?a-Campello, M; Rodr?guez-Iglesias, M; Hern?ndez-Betancor, A; Mart?n, AM; Ramos, JM; Gimeno, A; S?nchez, V; Guzm?n, M; G?mez-Hernando, C; Echeverria, MJ; Cilla, G; Fern?ndez-Pereira, L; Hern?ndez, M; L?pez-Lirola, AM; G?mez-Sirvent, JL; Force, L; Cifuentes, C; P?rez, S; Morano, L; Raya, C; Gonz?lez-Praetorius, A; Pe?aranda, M; Nieto, MC; Montejo, JM; Roc, L; Viciana, I; Cabezas, T; Lozano, A; P?rez-Camacho, I; Fern?ndez, JM; Garc?a-Bermejo, I; Gaspar, G; Tellez, R; G?rgolas, M; P?rez, L; Monsalvo, S; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Sauleda, S; Pir?n, M; Gonz?lez, R; Richart, A; Barea, L; Jim?nez, A; Blanco, L; Su?rez, A; Rodr?guez-Avial, I; Parra, P; Fern?ndez, M; Fern?ndez-Alonso, M; Reina, G; Trevi?o, A; Requena, S; Ben?tez-Guti?rrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; G?mez-Gallego, F; Spanish HTLV Network. HTLV testing of solid organ transplant donors. CLINICAL TRANSPLANTATION. 2019; 33(10) -. FI: 1.665. Cuartil: 3. (Letter).*

- *Perez-Molina, JA; Polo, R; Lopez-Aldeguer, J; Lozano, F; Aguirrebengoa, K; Arribas, JR; Boix, V; Berenguer, J; Blanco, JR; Domingo, P; Estrada, V; Galindo, MJ; Garcia, F; Gatell, JM; Gonzalez-Garcia, J; Gutierrez, F; Iribarren, JA; Knobel, H; Llibre, JM; de Quiros, JCLB; Lopez-Cortes, LF; Losa, JE; Marino, A; Miro, JM; Montes, ML; Moreno, S; Negredo, E; Perez-Elias, MJ; Podzamczer, D; Portilla, J; Poveda, E; Pulido, F; Ribera, E; Rivero, A; Rubio, R; Santos, J; Sanz-Moreno, J; Sanz-Sanz, J; Serrano, S; de la Torre, J; Tuset, M; von Wichman, MA; Martinez, E; Spanish Soc Infect Dis Clinical; Natl AIDS Plan. Executive summary of the GeSIDA/National AIDS Plan consensus document on antiretroviral therapy in adults infected by the human immunodeficiency virus (updated January 2018). ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(3) 195-202. FI: 1.654. Cuartil: 4. (Article).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Sanchez-Conde, M; Rodriguez-Centeno, J; Dronda, F; Lopez, JC; Jimenez, Z; Berenguer, J; Perez-Elias, MJ; Moreno, S; Rodes, B; Branas, F. Frailty phenotype: a clinical marker of age acceleration in the older HIV-infected population. EPIGENOMICS. 2019; 11(5) 501-509. FI: 4.112. Cuartil: 2. (Article).*

- *Troya, J; Ryan, P; Montejano, R; Cabello, A; Cuevas, G; Matarranz, M; Canamares, I; Solis, J; Walther, LAS. Alternative switching strategies based on regimens with a low genetic barrier: do clinicians have a choice nowadays?. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(3) 423-426. FI: 2.837. Cuartil: 2. (Review).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ;*

*Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Crespo, J; Albillos, A; Buti, M; Calleja, JL; Garcia-Samaniego, J; Hernandez-Guerra, M; Serrano, T; Turnes, J; Acin, E; Berenguer, J; Berenguer, M; Colom, J; Fernandez, I; Rodriguez, CF; Forns, X; Garcia, F; Granados, R; Lazarus, JV; Molero, JM; Molina, E; Escanilla, FP; Pineda, JA; Rodriguez, M; Romero, M; Roncero, C; de la Hoya, PS; Antolin, GS. Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH). GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(9) 579-592. FI: 1.581. Cuartil: 4. (Article).*

- *Jimenez-Sousa, MA; Berenguer, J; Fernandez-Rodriguez, A; Medrano, LM; Aldamiz-Echevarria, T; Perez-Latorre, L; Diez, C; Martin-Vicente, M; Gutierrez-Rivas, M; Martinez, I; Resino, S. Genetic variants upstream of TNFAIP3 in the 6q23 region are associated with liver disease severity in HIV/HCV-coinfected patients: A cross-sectional study. INFECTION GENETICS AND EVOLUTION. 2019; 67 112-120. FI: 2.773. Cuartil: 3. (Article).*

- *Valencia, J; Alvaro-Meca, A; Troya, J; Cuevas, G; Gutierrez, J; Morro, A; Alvarez, J; Pulido, L; Canamares, I; Escobar, I; Moreno, S; Ryan, P. High rates of early HCV reinfection after DAA treatment in people with recent drug use attended at mobile harm reduction units. INTERNATIONAL JOURNAL OF DRUG POLICY. 2019; 72 181-188. FI: 4.444. Cuartil: 1. (Article).*

- *Alvarez, M; Casas, P; de Salazar, A; Chueca, N; Guerrero-Beltran, C; Rodriguez, C; Imaz, A; Espinosa, N; Garcia-Bujalance, S; Perez-Elias, MJ; Garcia-Alvarez, M; Iribarren, JA; Santos, J; Aguilera, A; Vinuesa, D; Pierola, B; Molina, JM; Peraire, J; Portilla, I; Gomez-Sirvent, JL; Olalla, J; Galera, C; Blanco, JR; Riera, M; Garcia-Fraile, L; Navarro, G; Curran, A; Poveda, E; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; CoRIS. Surveillance of transmitted drug resistance to integrase inhibitors in Spain: implications for clinical practice. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1693-1700. FI: 5.439. Cuartil: 1. (Article).*

- *Garcia, F; Martin-Carbonero, L; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Aguilera, A; Benito, R; de Lejarazu, RO; Rojo, S; Eiros, JM; Ramos, C; Garcia, J; Paz, I; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cabrera, J; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Cifuentes, C; Penaranda, M; Nieto, MC; Montejo, JM; Roc, L; Viciana, I; Lozano, AB; Fernandez-Fuertes, E; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Tellez, R; Gorgolas, M; Diaz, J; Miralles, P; Perez, L; Valeiro, M; Aldamiz, T; Margall, N; Suarez, A; Rodriguez-Avial, I; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; HIV-2 Spanish Study Grp. Clinical experience with integrase inhibitors in HIV-2-infected individuals in Spain. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(5) 1357-1362. FI: 5.439. Cuartil: 1. (Article).*

- *Munoz-Moreno, MF; Ryan, P; Alvaro-Meca, A; Valencia, J; Tamayo, E; Resino, S. National Temporal Trend Analysis of Infective Endocarditis among Patients Infected with HIV in Spain (1997-2014): A Retrospective Study. JOURNAL OF CLINICAL MEDICINE. 2019; 8(8) -. FI: 3.303. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F;*

*Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Perez, AB; Chueca, N; Garcia-Deltoro, M; Martinez-Sapina, AM; Lara-Perez, MM; Garcia-Bujalance, S; Aldamiz-Echevarria, T; Vera-Mendez, FJ; Pineda, JA; Casado, M; Pascasio, JM; Salmeron, J; Alados-Arboledas, JC; Poyato, A; Tellez, F; Rivero-Juarez, A; Merino, D; Vivancos-Gallego, MJ; Rosales-Zabal, JM; Garcia, F; Ocete, MD; Simon, MA; Rincon, P; Reus, S; De la Iglesia, A; Garcia-Arata, I; Jimenez, M; Jimenez, F; Hernandez-Quero, J; Galera, C; Balghata, MO; Primo, J; Masia, M; Espinosa, N; Delgado, M; von-Wichmann, MA; Collado, A; Santos, J; Minguez, C; Diaz-Flores, F; Fernandez, E; Bernal, E; De Juan, J; Anton, JJ; Velez, M; Aguilera, A; Navarro, D; Arenas, JI; Fernandez, C; Espinosa, MD; Rios, MJ; Alonso, R; Hidalgo, C; Hernandez, R; Tellez, MJ; Rodriguez, FJ; Antequera, P; Delgado, C; Martin, P; Crespo, J; Becerril, B; Perez, O; Garcia-Herola, A; Montero, J; Freyre, C; Grau, C; GEHEP-004 Study Grp. High efficacy of resistance-guided retreatment of HCV patients failing NS5A inhibitors in the real world. JOURNAL OF HEPATOLOGY. 2019; 71(5) 876-888. FI: 20.582. Cuartil: 1. (Article).*

- *Aldamiz-Echevarria, T; Resino, S; Bellon, JM; Jimenez-Sousa, MA; Miralles, P; Medrano, LM; Carrero, A; Diez, C; Perez-Latorre, L; Fanciulli, C; Garcia-Broncano, P; Berenguer, J. European mitochondrial haplogroups predict liver-related outcomes in patients coinfected with HIV and HCV: a retrospective study. JOURNAL OF TRANSLATIONAL MEDICINE. 2019; 17 -. FI: 4.124. Cuartil: 2. (Article).*

- *Baptista, MJ; Tapia, G; Morgades, M; Muncunill, J; Munoz-Marmol, AM; Montoto, S; Gribben, JG; Calaminici, M; Martinez, A; Gonzalez-Farre, B; Dlouhy, I; Gonzalez-Barca, E; Terol, MJ; Miralles, P; Alcoceba, M; Vall-Llovera, F; Briones, J; Abrisqueta, P; Abella, E; Provencio, M; Garcia-Ballesteros, C; Moraleda, JM; Sancho, JM; Ribera, JM; Mate, JL; Navarro, JT. Using the Lymph2Cx assay for assessing cell-of-origin subtypes of HIV-related diffuse large B-cell lymphoma. LEUKEMIA & LYMPHOMA. 2019; 60(4) 1087-1091. FI: 2.969. Cuartil: 2. (Letter).*

- *Feher, C; Leal, L; Plana, M; Climent, N; Guardo, AC; Martinez, E; Castro, P; Diaz-Brito, V; Mothe, B; de Quiros, JCLB; Gatell, JM; Aloy, P; Garcia, F. Virological Outcome Measures During Analytical Treatment Interruptions in Chronic HIV-1-Infected Patients. OPEN FORUM INFECTIOUS DISEASES. 2019; 6(2) -. FI: 3.656. Cuartil: 2. (Article).*

- *Berenguer, J; Calleja, JL; Montes, ML; Gil, A; Moreno, A; Banares, R; Aldamiz-Echevarria, T; Albillos, A; Tellez, MJ; Olveira, A; Dominguez, L; Fernandez, I; Garcia-Samaniego, J; Polo, BA; Alvarez, B; Ryan, P; Barrio, J; Devesa, MJ; Benitez, L; Santos, I; Buey, LG; Sanz, J; Poves, E; Losa, JE; Fernandez-Rodriguez, C; Jarrin, I; Calvo, MJ; Gonzalez-Garcia, J. HIV Coinfection Predicts Failure of Ledipasvir/Sofosbuvir in Treatment-Naive Noncirrhotic Patients With HCV Genotype 1. OPEN FORUM INFECTIOUS DISEASES. 2019; 6(5) -. FI: 3.656. Cuartil: 2. (Article).*

- *de Mendoza, C; Piron, M; Gonzalez, R; Jimenez, A; Caballero, E; Roc, L; Benito, R; Ramos, JM; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Miro, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Roc, L; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Torres, P; Gonzalez, R; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Fernandez-Alonso, M; Trevino, A; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; Gomez-Gallego, F; HTLV Spanish Study Grp. Clinical Presentation*

*of Individuals With Human T-Cell Leukemia Virus Type-1 Infection in Spain. OPEN FORUM INFECTIOUS DISEASES. 2019; 6(12) -. FI: 3.656. Cuartil: 2. (Article).*

- *Sanz, JM; Elias, MJP; Muriel, A; Ayerbe, CG; Gallego, MJV; Conde, MS; Delgado, MH; Elias, PP; Benito, LP; Cortes, YDF; Barea, R; Sullivan, AK; de Apodaca, MJFR; Galindo, MJ; Moreno, S; Loza, E; Terron, SD; Sanchez, A; Moreno, A; Rodriguez, M; Romero, B; Cano, A; Fernandez, A; Uranga, A; Calonge, ME; Santos, C; Herrero, M; Ares, S; Baltico, CSM; Chamorro, C; Mesa, A; Campos, LM; Labrador, C; Reyes, C; Castro, J; de Avila, CSB; Merino, M; Menendez, E; Martinez, L; Seller, MA; Collada, G; Diaz, J; Jimenez, J; Martin, MD; Endrino, F; Manget, S; Ramirez, AB; Pena, I; Pertierra, N; Hernandez, JC; Rae, C; Kowalska, JD; Colon, RL; Lemsalu, L; Vassilenko, A; Badridze, N; Sikolova, V; Kutsyna, G; Samperiz, G; Arazo, P; Dalmau, D; Romero, A; de la Fuente, B; de los Santos, I; Lopez, JC; Estrada, V; Lozano, F; Pastor, M; Ocampo, A; Arrillaga, A; DRIVE 03 Study Grp; OPTtest WP5 Study Grp; FOCO Study Grp. Outcome of an HIV education program for primary care providers: Screening and late diagnosis rates. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Dolengevich-Segal H; Gonzalez-Baeza A; Valencia J; Valencia-Ortega E; Cabello A; Tellez-Molina MJ; Perez-Elias MJ; Serrano R; Perez-Latorre L; Martin-Carbonero L; Arponen S; Sanz-Moreno J; De la Fuente S; Bisbal O; Santos I; Casado JL; Troya J; Cervero-Jimenez M; Nistal S; Cuevas G; Correas-Lauffer J; Torrens M; Ryan P; U-SEX GESIDA 9416 Study. Drug-related and psychopathological symptoms in HIV-positive men who have sex with men who inject drugs during sex (slamsex): Data from the U-SEX GESIDA 9416 Study. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Berenguer, J; Parrondo, J; Landovitz, RJ. Mathematical modeling of HIV-1 transmission risk from condomless anal intercourse in HIV-infected MSM by the type of initial ART. PLOS ONE. 2019; 14(12) -. FI: 2.74. Cuartil: 2. (Article).*

- *Crespo, J; Albillos, A; Buti, M; Calleja, JL; Samaniego, JG; Guerra, MH; Serrano, T; Turnes, J; Acin, E; Berenguer, J; Berenguer, M; Colom, J; Fernandez, I; Rodriguez, CF; Forns, X; Garcia, F; Granados, R; Lazarus, J; Molero, JM; Molina, E; Escanilla, FP; Pineda, JA; Rodriguez, M; Romero, M; Roncero, C; de la Hoya, PS; Antolin, GS. Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH). REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 862-873. FI: 1.591. Cuartil: 4. (Article).*

- *Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Canorea, I; Guardiola, JM; Crespo, M; Quereda, C; Sanz, J; Carrero, A; Hontanon, V; Avellon, A; Resino, S. Prevalence of hepatitis E infection in HIV/HCV-coinfected patients in Spain (2012-2014). SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vazquez-Moron, S; Jimenez, BA; Jimenez-Sousa, MA; Bellon, JM; Ryan, P; Resino, S. Evaluation of the diagnostic accuracy of laboratory-based screening for hepatitis C in dried blood spot samples: A systematic review and meta-analysis. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Galeano-Valle, F; Perez-Latorre, L; Diez-Romero, C; Fanciulli, C; Aldamiz-Echeverria-Lois, T; Tejerina-Picado, F. Cervical and Oropharyngeal Lymphogranuloma Venereum: Case Report and Literature Review. SEXUALLY TRANSMITTED DISEASES. 2019; 46(10) 689-692. FI: 2.74. Cuartil: 3. (Review).*

- *Fernandez-Ruiz, M; Cardozo, C; Salavert, M; Aguilar-Guisado, M; Escola-Verge, L; Munoz, P; Gioia, F; Montejo, M; Merino, P; Cuervo, G; Garcia-Vidal, C; Aguado, JM; Padilla, B; Pano-Pardo, JR; Garcia-Rodriguez, J; Cerrada, CG; Ryan, P; Campelo, C; Gil, ID; Buendia, V; Gorricho, BP; Alonso, M; Sanz, FS; Romo, FG; Gorgolas, M; Gadea, I; Losa, JE; Delgado-Iribarren, A; Ramos, A; Romero, Y; Romero, IS; Zaragoza, O; Cuenca-Estrella, M; Rodriguez-Bano, J; Suarez, AI; Loza, A; Garcia, AIA; Martin-Mazuelos, E; de Pipaon, MRP; Garnacho, J; Ortiz, C; Chavez, M; Maroto, FL; Peman, J; Blanquer, J; Camarena, JJ; Zaragoza, R; Abril, V; Gimeno, C; Hernandez, S; Ezpeleta, G; Bereciartua, E; Almaraz, JLH; Rivas, RA; Ayarza, R; Planes, AM; Ruiz-Camps, I; Mensa, J; Almela, M; Gurgui, M; Sanchez-Reus, F; Martinez-Montauti, J; Sierra, M; Horcajada, JP; Sorli, L; Gomez, J; Gene, A; Urrea, M; Diaz-Martin, A; Puchades, F; Mularoni, A; Puerta-Alcalde, P; Morata, L; Rodriguez-Nunez, O; Guerrero, MA; Carratala, J; Sabe, N; Ayats, J; Grau, I; Calabuig, E; Castro, I; Cuellar, S; Fortun, J; Martin-Davila, P; de la Pedrosa, EGG; Perez-Ayala, A; Losada, I; Navarro, D; Suarez, MI; Martin-Gomez, MT; Almirante, B; Rodriguez-Alvarez, R; Lopez-Soira, L; Vena, A; Valerio, M; Bouza, E; Guinea, J; Martin, C; CANDIPOP Project; CANDI Bundle Grp; GEIRAS GEMICOMED SEIMC REIPI. Candidemia in solid organ transplant recipients in Spain: Epidemiological trends and determinants of outcome. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(6) -. FI: 2.071. Cuartil: 3. (Article).*

- *Couto, E; Diaz-Brito, V; Mothe, B; Guardo, AC; Fernandez, I; Ugarte, A; Etcheverry, F; Gomez, CE; Esteban, M; Pich, J; Arnaiz, JA; de Quiros, JCLB; Brander, C; Plana, M; Garcia, F; Leal, L. Comparison of Safety and Vector-Specific Immune Responses in Healthy and HIV-Infected Populations Vaccinated with MVA-B. VACCINES. 2019; 7(4) -. FI: 4.086. Cuartil: 2. (Article).*

- *de Mendoza, C; Caballero, E; Aguilera, A; Benito, R; Macia, D; Garcia-Costa, J; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD;*

*Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Mira, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Roc, L; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Fernandez-Alonso, M; Reina, G; Trevino, A; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; Gomez-Gallego, F; Perez, S; Morano, L; Spanish HTLV Network. HIV co-infection in HTLV-1 carriers in Spain. VIRUS RESEARCH. 2019; 266 48-51. FI: 2.934. Cuartil: 2. (Article).*

- *Cuellar-Flores, I; Sainz, T; Velo, C; Gonzalez-Tome, MI; Garcia-Navarro, C; Fernandez-Mcphee, C; Guillen, S; Ramos, JT; Miralles, P; Rubio, R; Bernardino, JI; Prieto, L; Roje, P; de Ory, SJ; Navarro, ML; CoRiSpe FARO Project; NeuroCoRISpeS Project; RITIP-Traslational Res Network Ped. Impact of HIV on the health-related quality of life in youth with perinatally acquired HIV. WORLD JOURNAL OF PEDIATRICS. 2019; 15(5) 492-498. FI: 1.437. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Roncero, C; Ryan, P; Littlewood, R; Macias, J; Ruiz, J; Seijo, P; Palma-Alvarez, RF; Vega, P. Practical steps to improve chronic hepatitis C treatment in people with opioid use disorder. HEPATIC MEDICINE-EVIDENCE AND RESEARCH. 2019; 11 1-11. (Article).*
- *Fuster-RuizdeApodaca, MJ; Sanchez-Vega, N; Galindo, MJ; Marin-Jimenez, I; de Toro, J; Orozco-Beltran, D; Cotarelo, M; Lopez, JC. The Influence of Patient Experience with Healthcare on the Health-Related Quality of Life of People Living with HIV: An Observational Cross-Sectional Survey. INFECTIOUS DISEASES AND THERAPY. 2019; 8(3) 369-382. (Article).*
- *Roc, L; de Mendoza, C; Fernandez-Alonso, M; Reina, G; Soriano, V; Rodriguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodriguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Miro, JM; Garcia, J; Paz, I; Poveda, E; Calderon, E; Escudero, D; Trigo, M; Diz, J; Garcia-Campello, M; Rodriguez-Iglesias, M; Hernandez-Betancor, A; Martin, AM; Ramos, JM; Gimeno, A; Gutierrez, F; Rodriguez, JC; Sanchez, V; Gomez-Hernando, C; Cilla, G; Perez-Trallero, E; Lopez-Aldeguer, J; Fernandez-Pereira, L; Niubo, J; Hernandez, M; Lopez-Lirola, AM; Gomez-Sirvent, JL; Force, L; Cifuentes, C; Perez, S; Morano, L; Raya, C; Gonzalez-Praetorius, A; Perez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martinez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernandez, JM; Garcia-Bermejo, I; Gaspar, G; Garcia, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; Gonzalez, R; Barea, L; Jimenez, A; Blanco, L; Suarez, A; Rodriguez-Avial, I; Perez-Rivilla, A; Parra, P; Fernandez, M; Trevino, A; Requena, S; Benitez-Gutierrez, L; Cuervas-Mons, V; Barreiro, P; Corral, O; Gomez-Gallego, F; Spanish HTLV Network. Rapid subacute myelopathy following kidney transplantation from HTLV-1 donors: role of immunosuppresors and failure of antiretrovirals. THERAPEUTIC ADVANCES IN INFECTIOUS DISEASE. 2019; 6 -. (Article).*

***Other publications***

- *Berenguer J; Parrondo J; Landovitz RJ. Initiation of antiretroviral therapy with integrase strand-transfer inhibitor-based regimens and reduction of the risk of horizontal transmission of HIV-1. ECLINICALMEDICINE. 2019; 17 100195-100195. (Article).*

# AREA 5 DISEASES OF THE IMMUNE SYSTEM

Area Coordinator: **Eduardo Fernández-Cruz Pérez**

Immunology could be considered the medical discipline in which the most relevant advances have been made in recent years. These advances are evidenced by the many Nobel Prizes awarded to researchers in the field. It is no surprise, therefore, that the IiSGM has a dedicated immunology research area. In addition to its scientific and social relevance, the importance of this area within the Institute can be seen in its cutting-edge scientific output, the wide variety of its research lines, and its collaborations with other research areas, such as basic and clinical immunology, rheumatology, allergology, gynecology and obstetrics, cardiology, pneumology, pharmacogenetics, hematology, and neurology.

The participation of this Area in numerous publications by groups belonging to other areas of the Institute clearly highlights its philosophy of cooperative research, the cornerstone of any health research institute. There can be no doubt that the Area is perfectly situated for setting down the strategic lines for its continued growth. As a result, collaboration agreements have been proposed with prestigious international institutions, groups from the IiSGM itself, and groups from outside the IiSGM (Madrid Science and Technology Park, FHL Study Group, Transfusion Center of Comunidad de Madrid), School of Medicine of Universidad Complutense de Madrid (Department of Microbiology I), and companies active in the field (Binding Site, Izasa, Inmunotek, Grifols).

The area has set itself the strategic objectives of expanding the core activity of its more clinical groups, training undergraduate and postgraduate staff in order to consolidate and improve scientific output, and expanding the number of principal investigators able to successfully apply for competitive calls.

## GROUPS IN AREA 5

5.01. Pathophysiology and clinical investigation of chronic infl ammatory and immune diseases
5.02. Molecular biology of HIV
5.03. Autoimmune systemic diseases
5.05. Pathogenesis of the immunoallergic response
5.06. Immune homeostasis and regulation in diseases associated with the immune system
5.07. Infectious diseases in pediatric patients

# 5.01 Pathophysiology and clinical investigation of chronic inflammatory and immune diseases

Group Director: **Eduardo Fernández-Cruz Pérez**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

The pathophysiology and clinical research group of chronic immunogenic and inflammatory diseases is coordinated by the Head of Clinical Immunology Service Prof.Dr. Eduardo Fernández-Cruz and is constituted on the basis of the different research lines established in 21 axis related above.

## Research lines

**Axis 1: Immunotherapy and immunomodulation with immunogens in the treatment of diseases of the immune system**

L 1: Evaluation of the clinical and immunological response to polyvalent bacterial immunogens in the prevention of infection. Leader: Eduardo Fernández-Cruz.

L 2: Immunotherapy with vaccines and specific hyper-immune immunoglobulins in chronic inflammatory pathologies mediated by immune deregulation and infections, COPD (clinical trial research). Leader: Eduardo Fernández-Cruz.

**Axis 2: Immunotherapy**

L 1: Immunotherapy with vaccines and specific hyper-immune immunoglobulins in chronic inflammatory diseases mediated by immune dysregulation and influenza A and B virus infections (clinical trial research). Leader: Eduardo Fernández-Cruz.

L 2: Prospective multicenter study with nonblinding of safety, clinical efficacy, and the pharmacokinetic properties of normal human immunoglobulin for intravenous administration of BT595 as replacement therapy in patients with primary immunodeficiency (PI). Leader: Eduardo Fernández-Cruz.

L 3 Innovation in treatments with immunotherapy (autovaccines and/or IVIG) in severe hydrodenitis. Leaders: Eduardo Fernández-Cruz Pérez, Cristina Ciudad y Ricardo Suárez Fernández

**Axis 3: Transplant immunology**

L 1: Immunology of infections and rejection in solid organ transplant: biomarkers of risk. Leader: Javier Carbone Campoverde.

L 2: Study of immunomodulation and reconstitution of the immune response in post-transplant immunodeficiency. Leader: Javier Carbone Campoverde.

L 3: Study of cellular immunity in transplant patients treated with specific immunoglobulins. Leader: Javier Carbone Campoverde.

**Axis 4: Reproductive immunology**

L 1: HLA-G immunogenetic studies in reproductive failure. Leader: Carmen Rodríguez Sainz

L 2: Study of immunophenotypic markers and immunogenotyping in diseases of the reproductive system. Leader: Juana Gil Herrera

L 3: Cellular and humoral alterations in women with recurrent reproductive failure. Leader: Javier Carbone Campoverde

L 4: Study of the efficacy and safety of low-dose Prednsiona use in reproductive failure. Leader: Javier Carbone Campoverde.

**Axis 5: Primary immunodeficiency: pathogenesis, classification, and treatment**

L 1: Diagnosis and classification of primary immunodeficiency due to immunological dysregulation. Leader: Juana Gil Herrera.

L 2: Neonatal screening for severe combined immunodeficiency. Leader: Juana Gil Herrera.

L 3: National and international registry of patients with all types of primary immunodeficiency. Leader: Juana Gil Herrera.

L 4: Study of prognostic biomarkers in primary immunodeficiencies. Immunophenotyping studies. Leader: Javier Carbone Campoverde.

**Axis 6: Biomarkers**

L 1: Study of prognostic biomarkers in patients with recurrent pneumonia, bronchiectasis, and tuberculosis. Leader: Javier Carbone Campoverde.

L 2: Immunophenotypic study in the diseases of the reproductive system. Leader: Javier Carbone Campoverde.

**Axis 7: Immunology of chronic inflammatory diseases**

L 1: Immunophenotyping study of patients with antiphospholipid syndrome. Leader: Javier Carbone Campoverde.

**Axis 8: Cell migration in cancer**

L 1: Cell migration in cancer. Leaders: Javier Redondo-Muñoz, Paloma Sánchez-Mateos.

**Axis 9: Role of macrophages in inflammatory diseases**

L 1: Polarization of macrophage transcriptome and phenotype in inflammatory diseases. Leader: Paloma Sánchez-Mateos.

L 2: Molecular bases of the anti-inflammatory effect of methotrexate in macrophages. Biomarkers of response of therapy to methotrexate. Leader: Amaya Puig Kröger

**Axis 10: Tumor macrophages in melanoma**

L 1: Tumor macrophages in melanoma. Leaders: Dr. Paloma Sánchez-Mateos, Rafael Samaniego García.

**Axis 11: Autoimmune bullous diseases**

L 1: Treatment of pemphigus vulgaris (PV). Leader: Ricardo Suárez Fernández.

L 2: Bullous pemphigoid: clinical and epidemiological studies. Leader: Ricardo Suárez Fernández.

**Axis 12: Atopic dermatitis**

Le 1: Adult atopic dermatitis. Innovations in treatment. Leader: Ricardo Suárez Fernández.

**Axis 13: Dermatologic surgery**

L 1: Mohs surgery in skin cancer. Leaders: Dr. Ciudad, Dr. Barchino.

L 2: Surgical treatment of suppurative hidradenitis. Leaders: Dr. Ciudad, Dr. Barchino.

L 3: Platelet-rich plasma for chronic skin ulcers. Leaders: Dr. Ciudad, Dr. Barchino.

**Axis 14: Skin ulcers**

L 1: Evaluation of the clinical safety and efficacy of the combination of negative pressure and nanocrystalline silver dressings for the treatment of chronic ulcers. Leader: Luis Carlos Sáez Martín.

**Axis 15: Psoriasis**

L 1: Modification of the dose of biologics in moderate-severe psoriasis. Leader: Ofelia Baniandrés.

L 2: Innovative treatments. Leader: Ofelia Baniandrés.

Le 3: Study of deficiency of the IL-1 receptor antagonist (DIRA) and deficiency of the IL-36 receptor antagonist (DITRA) in patients with generalized pustular psoriasis. Leader: Ofelia Baniandrés.

L 4: Spanish Registry of Systemic Treatments in Psoriasis (BIOBADADERM). Leader: Ofelia Baniandrés.

**Axis 16: Cutaneous oncology**

L 1: Intralesional methotrexate for the neoadjuvant treatment of cutaneous squamous cell cancer. Leader: Dr. Bergón.

L 2: Epidemiological and therapeutic control of basal cell carcinoma. Leader: Dr. Bergón.

**Axis 17: Immunology. HLA**

L 1: Immunology. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

L 2: HLA genetics and pharmacogenetics in humans. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

L 3: Evolution of MHC-G. Immunosuppression. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

L 4: Evolution of MHC in primates and wild birds. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

L 5: Tumor Immunology. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa

**Axis 18: Population genetics**

L 1: Population genetics and obesity: Globesity. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

**Axis 19: Mucosal immunology**

L 1: Mucosal immunology. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

**Axis 20: Molecular genetics and tumors**

L 1: Molecular genetics and tumors. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa

**Axis 21: Signal transduction.**

L 1: Cytoskeletal signal transduction and immune system. Leader: Narcisa Martínez Quiles.

## *Group members*

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ALARCON | ESCUDERO | ALBA | R1 | First Stage Researcher |
| ARNAIZ | VILLENA | ANTONIO | R3 | Established Researcher |
| AVILÉS | IZQUIERDO | JOSE ANTONIO | R1 | First Stage Researcher |
| BANIANDRES | RODRIGUEZ | OFELIA | R1 | First Stage Researcher |
| BARCHINO | ORTIZ | LUCIA | R1 | First Stage Researcher |
| BERGON | SENDIN | MARTA | R1 | First Stage Researcher |
| CAMARA | MARQUES | SILVIA | Other | Lab Technician |
| CARBONE | CAMPOVERDE | JAVIER ALBERTO | R3 | Established Researcher |
| CIUDAD | BLANCO | CRISTINA | R1 | First Stage Researcher |
| EGIDO | BALZATEGUI | JOSE | Other | Lab Technician |
| ESTECHA | PALOMERO | ANA | R2 | Recognised Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| EZZAHOURI | | IKRAM | R1 | First Stage Researcher |
| FERNÁNDEZ-CRUZ | PÉREZ | EDUARDO | R4 | |
| FUENTELSAZ | ROMERO | SARA | R1 | First Stage Researcher |
| GALLEGO | LOPEZ | ANTONIO | R2 | Recognised Researcher |
| GARCIA | CAMPOS | RAQUEL | | |
| GARCIA | JIMENEZ | SANDRA | Other | Lab Technician |
| GIL | HERRERA | JUANA | R3 | Established Researcher |
| GORROÑO | ECHEVARRÍA | MARINA BEGOÑA | R2 | Recognised Researcher |
| GUTIERREZ | SEIJO | ALBA | R1 | First Stage Researcher |
| GUTIÉRREZ | CALVO | ALBERTO | R2 | Recognised Researcher |
| JIMENEZ | LOPEZ | MARICELA | R1 | First Stage Researcher |
| JIMENEZ | MORA | NATALIA | Other | Lab Technician |
| JUÁREZ | MARTÍN-DELGADO | IGNACIO | R1 | First Stage Researcher |
| LIMAY | CARRE | KRISTOFER | Other | Lab Technician |
| LOPEZ | NARES | ADRIAN | R1 | First Stage Researcher |
| LORENTE-SOROLLA | MARTINEZ-ACITORES | CLARA | R2 | Recognised Researcher |
| MARTÍN | VILLA | JOSÉ MANUEL | R3 | Established Researcher |
| MARTINEZ | QUILES | NARCISA | R3 | Established Researcher |
| MOLINA | ALEJANDRE | MARTA | R1 | First Stage Researcher |
| MONTANCHEZ | MATEO | JUDITH | Other | Lab Technician |
| MUÑIZ | SANCHEZ | ESTHER | R2 | Recognised Researcher |
| NAVARRO | CASPISTEGUI | JOAQUÍN | R2 | Recognised Researcher |
| PALACIO | GRUBER | JOSE | R2 | Recognised Researcher |
| PEREZ | GARCIA | YAIZA | R1 | First Stage Researcher |
| PUIG | KRÖGER | AMAYA ROCIO | R3 | Established Researcher |
| PULIDO | PEREZ | ANA | R1 | First Stage Researcher |
| RAMOS | RUIZ | RICARDO | R1 | First Stage Researcher |
| RODRÍGUEZ | MOLINA | JUAN JOSÉ | Other | Management |
| RODRÍGUEZ | SAINZ | CARMEN | R2 | Recognised Researcher |
| SAMANIEGO | GARCÍA | RAFAEL | R2 | Recognised Researcher |
| SÁNCHEZ-MATEOS | RUBIO | PALOMA | R3 | Established Researcher |
| SARMIENTO | MARCHESE | ELIZABETH ANGÉLICA | R2 | Recognised Researcher |
| SUAREZ | FERNÁNDEZ | RICARDO | R3 | First Stage Researcher |
| SUAREZ | TRUJILLO | FABIO | R1 | First Stage Researcher |
| TORRES | TORRESANO | MÓNICA | Other | Lab Technician |
| TUR | GRACIA | SARA | R1 | First Stage Researcher |
| VAQUERIZO | LORENZO | SAMUEL | R1 | First Stage Researcher |
| VAQUERO | YUSTE | CHRISTIAN | R1 | First Stage Researcher |
| VILLAREJO | GOMEZ | JULIA | Other | Nursing |

## *Research Projects – Competitive Calls*

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Evaluación de la eficacia y toxicidad del uso de gammaglobulina intravenosa en el tratamiento de infecciones en pacientes con hipogammablobulinemia igg post-trasplante de órgano sólido** EC11-084
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
PROJECT TYPE: Clinicalresearch project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2012
END DATE: 30/03/2019

TITLE: **Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695
DIRECTOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE:31/12/2021

TITLE: **Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2020

TITLE: **Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2020

TITLE: **Microambiente inflamatorio del melanoma humano: Interacciones recíprocas tumor-estroma-tumor y significado clínico del estado de polarización de los macrófagos asociados a tumor.** PI13/02577
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2014
END DATE:31/01/2019

TITLE: **Validación de un nuevo método de obtención de plasma rico en plaquetas para su aplicación en úlceras cutáneas crónica.** PI13/01454
DIRECTOR: CIUDAD BLANCO, CRISTINA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2014
END DATE:05/02/2019

TITLE: **Perfiles inmunogeneticos en la linfohistiocitosis hemofagocitica (HLH) aplicados al diagnóstico rápido de los casos familiares (FHl) de la enfermedad**. PI12/02761
DIRECTOR: GIL HERRERA, JUANA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2013
END DATE: 30/01/2019

TITLE: **Juan Rodés Contract** JR14/00021
DIRECTOR: SARMIENTO MARCHESE, ELIZABETH ANGÉLICA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2015
END DATE: 31/01/2019

TITLE: **Predoctoral Contract** FI18/00109
DIRECTOR: SARMIENTO SARA FUENTELSAZ ROMERO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2022

TITLE: **Young employement contract: Predoctoral**. PEJD-2018-PRE/BMD-8241
DIRECTOR: SAMANIEGO GARCÍA, RAFAEL
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract: Technical researcher**. PEJ-2017-TL/BMD-7299
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Young employement contract.** PEJ2018-004617-A
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2019

**Not managed by FIBHGM**

TITLE: **HLA-G: cáncer gástrico y su evolución.** PI18/00626
DIRECTOR: MARTÍN VILLA, JOSÉ MANUEL
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE:31/01/2021

TITLE: **HLA-G: Su importancia en epidemiología, medicina evolutiva y patología.** PI18/00721
DIRECTOR: ARNAIZ VILLENA, ANTONIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2019
END DATE:31/01/2021

TITLE: **Nuevo mecanismo inhibidor de la polimerización de actina.** SAF 2017-82967-R
DIRECTOR: MARTINEZ QUILES, NARCISA
FUNDING BODY: MICINN
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/09/2021

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| RETICS | Red de Investigación en Inflamación y Enfermedades Reumáticas. RIER RD16/0012/0007 | Collaborating group |
| Other | International Network for Strategic Initiatives in Global HIV Trials (INSIGHT) | Collaborating group |

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Ph Thesis | **Esther Calderón** | Evaluación del ácido fólico como modulador de las funciones efectoras de macrófagos | Amaya Rocio Puig Kröger | UAM | 01/09/2019 |



## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Silvia Sánchez-Ramón 1, Arancha Bermúdez 2, Luis Ignacio González-Granado 3, Carlos Rodríguez-Gallego 4, Ana Sastre 5, Pere Soler-Palacín 6, ID-Signal Onco-Haematology Group ID-Signal Onco-Haematology Group: Luis Allende, Laia Alsina, Ana María Bielsa, Sara Calleja-Antolín, Carmen Cámara, Javier Carbone, Carmen Carreras, Ana De Andrés Martín, Angela Deyá, Cristina Díaz de Heredia, Romina Dieli-Crimi, José Luis Díez, Nerea Domínguez-Pinilla, Luis Fernández-Pereira, José Mª García, Juana Gil-Herrera, Antonio Gutiérrez, Isidro Jarque, Manel Juan, Francisco Lendínez, Pilar Llobet, Mónica López, Ana López de la Guía, Marcos López-Hoyos, Andrea Martín-Nalda, Mónica Martínez, Josefa Melero, Ana Méndez-Echevarría, Pedro Moral, Olaf Neth, María Núñez, Gonzalo Ocejo-Vinyals, Juliana Ochoa-Grullón, Peter Olbrich, Raquel Oña, Manuel Pérez-Encinas, Jaime Pons, Carmen Rodríguez, Berta Sánchez, Juan Luis Santos-Pérez, M Elena Seoane, Alexandru Vlagea | **Primary and Secondary Immunodeficiency Diseases in Oncohaematology: Warning Signs, Diagnosis, and Management** | Front Immunol. 2019 Mar 26;10:586 |

## *Publications* *Total Impact Factor:* ***104.1***

| | Nº | FI |
|---|---|---|
| Own publications | 7 | 14.3 |
| Joint publications | 16 | 89.8 |
| First decile publications | 3 | 47.9 |
| First quartile publications | 7 | 70.7 |
| Second quartile publications | 7 | 18.5 |
| Third quartile publications | 7 | 12.1 |
| Fourth quartile publications | 2 | 2.8 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **26** | **104.1** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Sarrato, GZ; Luna, MS; Sarrato, SZ; Perez, AP; Chamorro, IP; Cano, JMB. New Strategies of Pulmonary Protection of Preterm Infants in the Delivery Room with the Respiratory Function Monitoring. AMERICAN JOURNAL OF PERINATOLOGY. 2019; 36(13) 1368-1376. FI: 1.474. Cuartil: 3. (Article).*
- *Segovia, AC; Ledesma, CC; Blazquez, ML; Perez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).*
- *Zaballos, P; Mir-Bonafe, JF; Aviles, JA; Banuls, J. Dermoscopy of lipidised dermatofibroma: A morphological study of 13 cases. AUSTRALASIAN JOURNAL OF DERMATOLOGY. 2019; 60(2) 158-160. FI: 1.789. Cuartil: 3. (Letter).*
- *Bergon-Sendin, M; Pulido-Perez, A; Suarez-Fernandez, R. Neoadjuvant intralesional methotrexate in squamous cell carcinoma of the lip. AUSTRALASIAN JOURNAL OF DERMATOLOGY. 2019; 60(2) 127-131. FI: 1.789. Cuartil: 3. (Article).*
- *Aguilera-Montilla, N; Bailon, E; Ugarte-Berzal, E; Uceda-Castro, R; Prieto-Solano, M; Garcia-Martinez, E; Samaniego, R; Van den Steen, PE; Opdenakker, G; Garcia-Marco, JA; Garcia-Pardo, A. Matrix metalloproteinase-9 induces a pro-angiogenic profile in chronic lymphocytic leukemia cells. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 2019; 520(1) 198-204. FI: 2.985. Cuartil: 2. (Article).*

- *La Rosee, P; Horne, A; Hines, M; Greenwood, TV; Machowicz, R; Berliner, N; Birndt, S; Gil-Herrera, J; Girschikofsky, M; Jordan, MB; Kumar, A; van Laar, JAM; Lachmann, G; Nichols, KE; Ramanan, AV; Wang, YN; Wang, Z; Janka, G; Henter, JI. Recommendations for the management of hemophagocytic lymphohistiocytosis in adults. BLOOD. 2019; 133(23) 2465-2477. FI: 17.543. Cuartil: 1. (Article).*

- *Rodriguez, RM; Suarez-Alvarez, B; Lavin, JL; Ascension, AM; Gonzalez, M; Lozano, JJ; Raneros, AB; Bulnes, PD; Vidal-Castineira, JR; Huidobro, C; Martin-Martin, C; Sanz, AB; Ruiz-Ortega, M; Puig-Kroger, A; Corbi, AL; Arauzo-Bravo, MJ; Aransay, AM; Lopez-Larrea, C. Signal Integration and Transcriptional Regulation of the Inflammatory Response Mediated by the GM-/M-CSF Signaling Axis in Human Monocytes. CELL REPORTS. 2019; 29(4) 860-. FI: 8.109. Cuartil: 1. (Article).*

- *Villarrubia, N; Rodriguez-Martin, E; Alari-Pahissa, E; Aragon, L; Castillo-Trivino, T; Eixarch, H; Ferrer, JM; Martinez-Rodriguez, JE; Massot, M; Pinto-Medel, MJ; Prada, A; Rodriguez-Acevedo, B; Urbaneja, P; Gascon-Gimenez, F; Herrera, G; Hernandez-Clares, R; Salgado, MG; Oterino, A; San Segundo, D; Cuello, JP; Gil-Herrera, J; Camara, C; Gomez-Gutierrez, M; Martinez-Hernandez, E; Meca-Lallana, V; Moga, E; Munoz-Calleja, C; Querol, L; Presas-Rodriguez, S; Teniente-Serra, A; Vlagea, A; Muriel, A; Roldan, E; Villar, LM. Multi-centre validation of a flow cytometry method to identify optimal responders to interferon-beta in multiple sclerosis. CLINICA CHIMICA ACTA. 2019; 488 135-142. FI: 2.615. Cuartil: 2. (Article).*

- *Pulido-Perez, A; Nieto-Benito, LM; Sanchez-Herrero, A; Suarez-Fernandez, R. Response to oral ivermectin in three cases of follicular cutaneous larva migrans. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(6) 415-416. FI: 1.654. Cuartil: 4. (Letter).*

- *Rosell-Diaz, AM; Nieto-Benito, LM; Hernandez-Aragues, I; Bergon-Sendin, M; Boas, PV. Dermpath & Clinic: Cutaneous angioleiomyoma. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(4) 447-448. FI: 2.782. Cuartil: 2. (Editorial Material).*

- *Patel, SY; Carbone, J; Jolles, S. The Expanding Field of Secondary Antibody Deficiency: Causes, Diagnosis, and Management. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Review).*

- *Rodriguez-Lomba, E; Molina-Lopez, I; Vilas-Boas, PT; Suarez-Fernandez, R. IgA deposition in a vegetating plaque on the glans penis: a diagnostic dilemma. INTERNATIONAL JOURNAL OF DERMATOLOGY. 2019; 58(3) 64-66. FI: 2.067. Cuartil: 3. (Letter).*

- *Garcia-Martinez, FJ; Rull, EV; Salgado-Boquete, L; Martorell, A; Pascual, JC; Hernandez-Martin, A; Silvente, C; Ciudad-Blanco, C; Esteban, EA; Alfageme-Roldan, F. Intralesional corticosteroid injection for the treatment of hidradenitis suppurativa: a multicenter retrospective clinical study. JOURNAL OF DERMATOLOGICAL TREATMENT. 2019; -. FI: 2.156. Cuartil: 2. (Article).*

- *Montes-Torres, A; Aparicio, G; Rivera, R; Vilarrasa, E; Marcellan, M; Notario, J; Soria, C; Carrascosa, JM; Gomez, FJ; Salgado, L; Velasco, M; Descalzo, MA; Dauden, E; Carretero, G; Torrado, R; Ferrandiz, C; Llamas-Velasco, M; Gomez-Garcia, FJ; Jimenez, R; de la Cueva, P; Galiano, S; Herrera-Ceballos, E; Herrera-Acosta, E; Belinchon, I; Lopez-Estebaranz, JL; Ruiz-Genao, D; Alsina, M; Sanchez-Carazo, JL; Ferran, M; Baniandres, O; Garcia-Doval, I; Mollet, J; BIOBADADERM Study Grp; Psoriasis Grp AEDV. Safety and effectiveness of conventional systemic therapy and biological drugs in patients with moderate to severe psoriasis and HIV infection: a retrospective multicenter study. JOURNAL OF DERMATOLOGICAL TREATMENT. 2019; 30(5) 461-465. FI: 2.156. Cuartil: 2. (Article).*

- *Aviles-Izquierdo, JA; Ciudad-Blanco, C; Sanchez-Herrero, A; Mateos-Mayo, A; Nieto-Benito, LM; Rodriguez-Lomba, E. Dermoscopy of cutaneous melanoma metastases: A color-based pattern classification. JOURNAL OF DERMATOLOGY. 2019; 46(7) 564-569. FI: 3.072. Cuartil: 2. (Article).*

- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*

- *Martorell, A; Rold?n, FA; Rull, EV; Ruiz-Villaverde, R; De Gabriel, JR; Mart?nez, FG; Sarro, DV; Pastor, MV; Blanco, CC; Palacios, JMS; Bandera, AIR; Ram?rez, JCP; S?nchez, CS; De Goros?bel, NM; Wortsman, X. Ultrasound as a diagnostic and management tool in hidradenitis suppurativa patients: a multicentre study. JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY. 2019; 33(11) 2137-2142. FI: 5.248. Cuartil: 1. (Article).*

- *Davey, RT; Fernandez-Cruz, E; Markowitz, N; Pett, S; Babiker, AG; Wentworth, D; Khurana, S; Engen, N; Gordin, F; Jain, MK; Kan, V; Polizzotto, MN; Riska, P; Ruxrungtham, K; Temesgen, Z; Lundgren, J; Beigel, JH; Lane, HC; Neaton, JD; INSIGHT FLU-IVIG Study Grp. Anti-influenza hyperimmune intravenous immunoglobulin for adults with influenza A or B infection (FLU-IVIG): a double-blind, randomised, placebo-controlled trial. LANCET RESPIRATORY MEDICINE. 2019; 7(11) 951-963. FI: 25.094. Cuartil: 1. (Article).*

- *Benite, LMN; Diaz, AMR; Blanco, VP; Perez, AP. Cutaneous crust as a key sign in the diagnosis of a patient with fever. MEDICINA CLINICA. 2019; 153(4) 182-182. FI: 1.635. Cuartil: 3. (Editorial Material).*

- *Boas, PV; Sanchez-Herrero, A; Suarez-Fernandez, R; Campos-Dominguez, M. Neonatal ichthyosis and hypotrichosis. PEDIATRIC DERMATOLOGY. 2019; 36(4) 77-78. FI: 1.164. Cuartil: 4. (Editorial Material).*

- *Mohamed-Salem, R; Fernandez, CR; Nieto-Pelegrin, E; Conde-Valentin, B; Rumbero, A; Martinez-Quiles, N. Aqueous extract of Hibiscus sabdariffa inhibits pedestal induction by enteropathogenic E. coli and promotes bacterial filamentation in vitro. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*
- *Fortea-Gordo P; Nuño L; Villalba A; Peiteado D; Monjo I; Sánchez-Mateos P; Puig-Kröger A; Balsa A; Miranda-Carús ME. Two populations of circulating PD-1hiCD4 T cells with distinct B cell helping capacity are elevated in early rheumatoid arthritis. RHEUMATOLOGY. 2019; 58(9) 1662-1673. FI: 5.606. Cuartil: 1. (Article).*
- *Naredo, E; Janta, I; Baniandres-Rodriguez, O; Valor, L; Hinojosa, M; Bello, N; Serrano, B; Garrido, J. To what extend is nail ultrasound discriminative between psoriasis, psoriatic arthritis and healthy subjects?. RHEUMATOLOGY INTERNATIONAL. 2019; 39(4) 697-705. FI: 1.984. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Rodriguez-Lomba, E; Lozano-Masdemont, B; Aviles-Izquierdo, JA. Slow-Growing Salmon-Pink Nodule on the Buttock. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(9) 763-764. (Editorial Material).*
- *Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Aviles-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).*
- *Aragues, IH; Alvarez-Santullano, CAV; Fernandez, RS; Perez, AP. Linear atrophy and hypopigmentation after intralesional corticosteroid injection. REUMATOLOGIA CLINICA. 2019; 15(5) 72-73. (Letter).*

# 5.02 Molecular biology of HIV

Group Director: **Mª Ángeles Muñoz Fernández**
Organisms involved: **HGUGM**
**Consolidated group**

## Research lines

**Axis 1. Future perspectives of nanomedicine for HIV therapies. Gene and cell therapy**
- L1: Search for strategies in the prevention of HIV, HSV-2, and other sexually transmitted viruses: Intravaginal microbicides
- L2: Search for strategies to modulate/activate dendritic cells to boost innate immune responses: Vaccine delivery

**Axis 2. Advances in the immunopathology of HIV infection**
- L1: Novel molecular mechanisms associated with central nervous system damage in HIV infection
- L2: Search for novel strategies targeting HIV-1 latency and eradication of reservoirs of HIV in the human body
- L3: Role of innate immunity in the prevention and control of HIV infection. Biomarkers of inflammation and HIV-1 disease progression in the HIV-infected population
- L4: Role of *env* genes in 'elite controllers' and their implications for vaccine design.
- L5: HIV-1 and aging

**Axis 3 Immunology of pediatric HIV infection**
- L1: Factors influencing the outcome of innate and adaptive immunity to HIV in children
- L2: Factors associated with immunological, virological, and functional responses from disease progression in HIV-infected children
- L3: Size of the reservoir and latency in HIV-infected children
- L4: Study of miRNA, cDNA, and exosomes in HIV-infected children
- L5: Database management. Epidemiology of pediatric HIV infection.
- L6: Evaluation of mechanisms of immune damage and recovery in the cohort of vertically infected subjects.

**Axis 4 Human immunological and microbiological responses in small animal models and in human cervical biopsies**

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| AGUILERA | ALONSO | DAVID | | Researcher |
| ALMALE | ASO | Mª ÁNGELES | Other | RETICS |
| ALVAREZ | LOSADA | SUSANA | | Postdoctoral |
| CAÑADILLA | MARTIN | VANESA | Other | Support Technician |
| CEÑA | DIEZ | RAFAEL | | Postdoctoral |
| CONSUEGRA | FERNANDEZ | IRENE | Other | RETICS |
| ESPINAR | BUITRAGO | MARÍA DE LA SIERRA | | Predoctoral |
| GALLEGO | DE LA FUENTE | JORGE LUIS | Other | RETICS |
| GARCIA | ALONSO | DOLORES | | Researcher |
| GARCIA | MERINO | ISABEL MARIA | Other | RETICS |
| GASCO | | SAMANTA | Other | RETICS |
| GOMEZ | RICO | CORAL | Other | RETICS |
| GUERRERO | BELTRAN | CARLOS | | Predoctoral |
| JIMENEZ | DE ORY | SANTIAGO | | Management |
| JIMENEZ | FUENTES | JOSE LUIS | | Researcher |
| MARTIN | MORENO | ALBA | | FPU |
| MAULEON | AZPILICUETA | ELBA | Other | RETICS |
| MUÑOZ | FERNANDEZ | Mª ANGELES | | Senior Researcher |
| PACHECO | | YOLANDA | Other | RETICS |
| PALAU | CONCEJO | PAULA | Other | RETICS |
| RODRÍGUEZ | RELAÑO | IGNACIO | | Predoctoral |
| ROYO | RUBIO | ELENA | | Predoctoral |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| SERRAMÍA | LOBERA | Mª JESÚS | | Researcher |
| TARANCON | DIEZ | LAURA | Other | RETICS |



## *Research Projects – Competitive Calls*

TITLE: **EUROPARTNER. Strengthening and spreading international partnership activities of the Faculty of Biology and Environmental Protection for interdisciplinary research and innovation of the University of Lodz**. NAWA IAP.EUROPARTNER
DIRECTOR: Maria Bryszewska
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: European research project of excellence
FUNDING BODY: COST (European Cooperation in Science and Technology).
START DATE: 01/12/2018
END DATE: 30/11/2020

TITLE: **COST action CA17140: Cancer nanomedicine - from the bench to the bedside** (NANO2CLINIC) CA17140
DIRECTOR: OTHER
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: European research project of excellence
FUNDING BODY: COST (European Cooperation in Science and Technology).
START DATE: 01/01/2018
END DATE: 30/12/2020

TITLE: **Implementación de plataformas para desarrollo de productos efectivos en dermatología (dermatitis atópica, dermatits por abarsión, psoriasis).** SNEO-20161140
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES / MOLINA, EDUARDO
PROJECT TYPE: European research project of excellence
FUNDING BODY: CDTI
START DATE: 01/01/2017
END DATE: 30/12/2019

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Papel de la Nanomedicina en el desarrollo de una cura funcional para el VIH** PI17/01115
DIRECTOR JIMENEZ FUENTES, JOSE LUIS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Efecto de nuevas generaciones de dendrímeros con prevención dual frente al VIH/VHS-2: caracterización y prueba de concepto**. PI16/01863
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **RIO HORTEGA Contract**. CM16/00224
DIRECTOR: RUIZ SAEZ, BEATRIZ
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement contract: Research assistant**. PEJ-2017-AI/BMD-7446
DIRECTOR: MUÑOZ FERNANDEZ, Mª ANGELES
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/03/2019
END DATE: 28/02/2021

TITLE: **Young employement contract:Laboratory Technician.** PEJ-2018-TL/BMD-11529
DIRECTOR: JIMENEZ FUENTES, JOSE LUIS
FUNDING BODY: MICINN
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2020

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.))* | *Name of Network* | *Role* |
|---|---|---|
| RETICS | RETIC-RIS - Red de Investigación en SIDA | Collaborating group |
| RED | RED IBEROAMERICANA DE CIENCIA Y TECNOLOGIA PARA EL DESARROLLO (CYTED) | Coordinating group |
| CIBER | CIBER BBN | Associated group |
| Plataforma ISCIII | Red Nacional de Biobancos | Coordinator group |
| Others | Pediatric European network for treatment of AIDS (PENTA) | Associated group |
| Others | Red Española de Estudio de la Tuberculosis Infantil (pTB-Red) | Associated group |
| Others | European Network of Excellence for Paediatric Clinical Research Task-force in Europe for Drug Development for the Young (TEDDY) | Associated group |
| Others | ERANet-LAC Network of the European Union, Latin America and the Caribbean Countries on Joint Innovation and Research Activities | Associated group |

## *Industrial and intellectual property registrations*

***Industrial property***

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos | P 2016 00726 | Universidad de Alcalá de Henares - FIBHGM | Mª Ángeles Muñoz, José Luis Jiménez, Carlos Guerrero, Daniel Sepúlveda, Rafael Ceña, Francisco Javier de la Mata,Rafael Gómez, Javier Sánchez-Nieves, Gabriel Mencía, Jesús Cano, José Luis Copa, Juan Soliveri, Jorge Pérez, Mercedes Valiente, Carlos Emilio Gutiérrez |
| Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos | P 2015 00669 (2 patents family) | Universidad de Alcalá de Henares - FIBHGM | Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Cornelia Peña, José Luis Copa, Juan Soliveri, Jorge Pérez , Mª Ángeles Muñoz, José Luis Jiménez, Pilar García |
| Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos | P 2016 00726 | Universidad de Alcalá de Henares - FIBHGM | Mª Ángeles Muñoz, José Luis Jiménez, Carlos Guerrero, Daniel Sepúlveda, Rafael Ceña, Francisco Javier de la Mata,Rafael Gómez, Javier Sánchez-Nieves, Gabriel Mencía, Jesús Cano, José Luis Copa, Juan Soliveri, Jorge Pérez, Mercedes Valiente, Carlos Emilio Gutiérrez |
| Dendrímeros carbosilanos catiónicos obtenidos mediante "click chemistry", su preparación y sus usos | P 2011 30804 | FIBHGM –Universidad de Alcalá de Henares - Universidad de Navarra | Francisco Javier de la Mata, Rafael Gómez, Eduardo Arnaiz, Sandra García, José Luis Copa, Juan Soliveri, José Manuel Hernández, Mª Ángeles Muñoz-Fernández, Verónica Briz, Mª Jesús Serramia, Conchita Tros |
| Dendrímeros carbosilanos con un núcleo polifenólico y su uso como antivirales | P 20103 0450 | Universidad de Alcalá de Henares - HGUGM | Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Paula Ortega, Mª Ángeles Muñoz-Fernández, Louis Chonco, Mª Jesús Serramia |
| Dendrímeros carbosilanos y su uso como antivirales | P 20103 0233 (8 patents family) | Universidad de Alcalá de Henares - HGUGM | Francisco Javier de la Mata, Rafael Gómez, Mª Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, Beatriz Rasines, Louis Chonco, Eduardo Arnaiz, Mª Jesús Serramia |

| Title | Reference* | Owner | Inventors |
|---|---|---|---|
| Compuestos dendríticos carbosilanos homo y hetero-funcionalizados | P 2012 31187 (2 patents family) | Universidad de Alcalá de Henares - FIBHGM | Francisco Javier de la Mata, Rafael Gómez, Mª Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, José Luis Jiménez, Silvia Fernández, Marta Galán, Raquel Lorente, Elena Fuentes, Javier Sánchez, Cornelia Peña, Mª Jesús Serramía, Rosa Reguera |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark)

## *Doctoral theses, Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Julia Diaz Miravalls** | Descripción de las neumonías adquiridas en la comunidad por Staphylococcus aureus en niños | David Aguilera Alonso | UCM | 01/06/2019 |

## *Clinical Practice Guidelines*

| Authors | Title | Journal / Reference |
|---|---|---|
| Mª Ángeles Muñoz-Fernández. | **Documento de consenso del CEVIHP/SEIP/AEP/SPNS respecto al tratamiento antirretroviral en niños y adolescentes infectados por el VIH. Panel de expertos del Colaborativo Español para la Infección VIH Pediátrica (CEVIHP** | Sociedad Española de Infectologia Pediátrica (SEIP) de la Asociación Española de Pediatría (AEP) y Secretaria del Plan nacional del Sida |

## *Publications* *Total Impact Factor: **132.3***

| | Nº | FI |
|---|---|---|
| Own publications | 11 | 58.8 |
| Joint publications | 21 | 73.6 |
| First decile publications | 2 | 8.7 |
| First quartile publications | 19 | 95.0 |
| Second quartile publications | 11 | 34.6 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 2 | 2.7 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **32** | **132.3** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Crichton, S; Belfrage, E; Collins, IJ; Doerholt, K; Judd, A; Le Coeur, S; Spoulou, V; Goodall, R; Scherpbier, H; Smit, C; Goetghebuer, T; Gibb, DM; Noguera, A; Navarro, ML; Ramos, JT; Galli, L; Giaquinto, C; Thorne, C; Santa Ansone; Marczynska, M; Okhonskaia, L; de Tejada, BM; Jourdain, G; Decker, L; Ene, L; Hainaut, M; Van der Kelen, E; Delforge, M; de Martino, M; Tovo, PA; Patrizia, O; Larovere, D; Ruggeri, M; Faldella, G; Baldi, F; Badolato, R; Montagnani, C; Venturini, E; Lisi, C; Di Biagio, A; Taramasso, L; Giacomet, V; Erba, P; Esposito, S; Lipreri, R; Salvini, F; Tagliabue, C; Cellini, M; Bruzzese, E; Lo Vecchio, A; Rampon, O; Dona, D; Romano, A; Dodi, I; Maccabruni, A; Consolini, R; Bernardi, S; Kuekou, HT; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Gabiano, C; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijsenfeld, AM; de Boer, CG; Jurriaans, S; Back, NKT; Zaaijer, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; Vermont, CL; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriet, SSV; van de Flier, M; van Aerde, K; Strik-Albers, R; Rahamat-Langendoen, J; Stelma, FF; Scholvinck, EH; de Groot-de Jonge, H; Niesters, HGM; van Leer-Buter, CC; Knoester, M; Bont, LJ; Geelen, SPM; Wolfs, TFW; Nauta, N; Schuurman, R; Verduyn-Lunel, F; Wensing, AMJ; Reiss, P; Zaheri, S; Bezemer, DO; van Sighem, AI; Smit, C; Wit, FWMN; Hillebregt, M; de Jong, A;*

*Woudstra, T; Bergsma, D; Grivell, S; Meijering, R; Raethke, M; Rutkens, T; de Groot, L; van den Akker, M; Bakker, Y; Bezemer, M; El Berkaoui, A; Geerlinks, J; Koops, J; Kruijne, E; Lodewijk, C; Lucas, E; van der Meer, R; Munjishvili, L; Paling, E; Peeck, B; Ree, C; Regtop, R; Ruijs, Y; van de Sande, L; Schoorl, M; Schnorr, P; Tuijn, E; Veenenberg, L; van der Vliet, S; Wisse, A; Witte, EC; Tuk, B; Popielska, J; Pokorska-Spiewak, M; Oldakowska, A; Zawadka, K; Coupland, U; Doroba, M; Voronin, E; Miloenko, M; Labutina, S; Soler-Palacin, P; Frick, MA; Perez-Hoyos, S; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Coll, M; Pineda, V; Rius, N; Rovira, N; Duenas, J; Gamell, A; Fortuny, C; Noguera-Julian, A; Mellado, MJ; Escosa, L; Hortelano, MG; Sainz, T; Gonzalez-Tome, MI; Rojo, P; Blazquez, D; Prieto, L; Guillen, S; Saavedra, J; Santos, M; Munoz, MA; Ruiz, B; Mc Phee, CF; de Ory, SJ; Alvarez, S; Roa, MA; Beceiro, J; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Montesdeoca, A; Mateo, M; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Grande, A; Romero, FJ; Perez, C; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Perez, A; Piqueras, AI; Breton, R; Segarra, I; Gavilan, C; Jareno, E; Montesinos, E; Dapena, M; Alvarez, C; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; de Miguel, E; Naver, L; Soeria-Atmadja, S; Hagas, V; Aebi-Popp, K; Anagnostopoulos, A; Asner, S; Battegay, M; Baumann, M; Bernasconi, E; Boni, J; Braun, DL; Bucher, HC; Calmy, A; Cavassini, M; Ciuffi, A; Duppenthaler, A; Dollenmaier, G; Egger, M; Elzi, L; Fehr, J; Fellay, J; Francini, K; Furrer, H; Fux, CA; Grawe, C; Gunthard, HF; Haerry, D; Hasse, B; Hirsch, HH; Hoffmann, M; Hosli, I; Huber, M; Kahlert, CR; Kaiser, L; Keiser, O; Klimkait, T; Kottanattu, L; Kouyos, RD; Kovari, H; Ledergerber, B; Martinetti, G; de Tejada, BM; Marzolini, C; Metzner, KJ; Muller, N; Nicca, D; Paioni, P; Pantaleo, G; Perreau, M; Polli, C; Rauch, A; Rudin, C; Scherrer, AU; Schmid, P; Speck, R; Stockle, M; Tarr, P; Lecompte, MT; Trkola, A; Vernazza, P; Wagner, N; Wandeler, G; Weber, R; Wyler, CA; Yerly, S; Wannarit, P; Techakunakorn, P; Hansudewechakul, R; Wanchaitanawong, V; Theansavettrakul, S; Nanta, S; Ngampiyaskul, C; Phanomcheong, S; Hongsiriwon, S; Karnchanamayul, W; Kwanchaipanich, R; Kanjanavanit, S; Kamonpakorn, N; Nantarukchaikul, M; Layangool, P; Mekmullica, J; Lucksanapisitkul, P; Watanayothin, S; Lertpienthum, N; Warachit, B; Hanpinitsak, S; Potchalongsin, S; Thanasiri, P; Krikajornkitti, S; Attavinijtrakarn, P; Srirojana, S; Bunjongpak, S; Puangsombat, A; Na-Rajsima, S; Ananpatharachai, P; Akarathum, N; Lawtongkum, W; An, PK; Suriyaboon, T; Saipanya, A; Than-in-at, K; Jaisieng, N; Suaysod, R; Chailoet, S; Naratee, N; Kawilapat, S; Lyall, H; Bamford, A; Butler, K; Doherty, C; Foster, C; Francis, K; Harrison, I; Kenny, J; Klein, N; Letting, G; McMaster, P; Murau, F; Nsangi, E; Peters, H; Prime, K; Riordan, A; Shackley, F; Shingadia, D; Storey, S; Tudor-Williams, G; Turkova, A; Welch, S; Collins, IJ; Cook, C; Dobson, D; Fairbrother, K; Harper, L; Le Prevost, M; Van Looy, N; Butler, K; Walsh, A; Thrasyvoulou, L; Welch, S; Bernatoniene, J; Manyika, F; Sharpe, G; Subramaniam, B; Sloper, K; Fidler, K; Hague, R; Price, V; Clapson, M; Flynn, J; Abou-Rayyah, ACM; Klein, N; Shingadia, D; Gurtin, D; Yeadon, S; Segal, S; Ball, C; Hawkins, S; Dowie, M; Bandi, S; Percival, E; Eisenhut, M; Duncan, K; Clough, S; Anguvaa, L; Conway, S; Flood, T; Pickering, A; Murphy, PMC; Daniels, J; Lees, Y; Thompson, F; Williams, B; Pope, S; Cliffe, L; Smyth, A; Southall, S; Freeman, A; Freeman, H; Christie, S; Gordon, A; Clarke, DRL; Jones, L; Offerman, B; Greenberg, M; Benson, C; Riordan, A; Ibberson, L; Shackley, F; Faust, SN; Hancock, J; Doerholt, K; Prime, K; Sharland, M; Storey, S; Lyall, H; Monrose, C; Seery, P; Tudor-Williams, G; Menson, E; Callaghan, A; Bridgwood, A; McMaster, P; Evans, J; Blake, E; Yannoulias, A; European Pregnancy Paediat HIV Coh. Height and timing of growth spurt during puberty in young people living with vertically acquired HIV in Europe and Thailand. AIDS. 2019; 33(7) 1155-1165. FI: 4.511. Cuartil: 1. (Article).*

- *Chan, MK; Goodall, R; Judd, A; Klein, N; Chiappini, E; Klimkait, T; Ngo-Giang-Huong, N; Palma, P; Rossi, P; Thorne, C; Turkova, A; Zangari, P; Rojo, P; Babiker, AGA; Fraaij, PL; Pajkrt, D; Marques, L; Collins, IJ; Gibb, DM; Gonzalez-Tome, MI; Ramos, JT; Navarro, ML; Noguera-Julian, A; Warszawski, J; Konigs, C; Spoulou, V; Prata, F; Goetghebuer, T; Galli, L; Naver, L; Giaquinto, C; Marczynska, M; Okhonskaia, L; Malyuta, R; Volokha, A; Ene, L; Gibb, D; Watters, S; Chan, M; McCoy, L; Babiker, A; Marcelin, AG; Calvez, V; Munoz, MA; Wahren, B; Foster, C; Cotton, M; Robb, M; Ananworanich, J; Claiden, P; Pillay, D; Persaud, D; De Boer, RJ; Schroter, J; Anelone, AJN; Puthanakit, T; Ceci, A; Giannuzzi, V; Luzuriaga, K; Chomont, N; Cameron, M; Cancrini, C; Yates, A; Kuhn, L; Violari, A; Otwombe, K; Pepponi, I; Rocchi, F; Rinaldi, S; Tagarro, A; Lain, MG; Vaz, P; Lopez, E; Nhampossa, T; European Pregnancy Paediat HIV Coh; Early-Treated Perinatally. Predictors of faster virological suppression in early treated infants with perinatal HIV from Europe and Thailand The European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) and Early-treated Perinatally HIV-infected Individuals: Improving Chi. AIDS. 2019; 33(12) 1897-1910. FI: 4.511. Cuartil: 1. (Article).*

- *Genebat, M; Tarancon-Diez, L; Pulido, I; Alvarez-Rios, AI; Munoz-Fernandez, MA; Ruiz-Mateos, E; Leal, M. Hepatitis C virus and cumulative infections are associated with atherogenic cardiovascular events in HIV-infected subjects. ANTIVIRAL RESEARCH. 2019; 169 -. FI: 4.101. Cuartil: 1. (Article).*

- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR;*

*Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *Rodriguez-Fonseca, RA; Bello, M; de los Munoz-Fernandez, MA; Jimenez, JL; Rojas-Hernandez, S; Fragoso-Vazquez, MJ; Gutierrez-Sanchez, M; Rodrigues, J; Cayetano-Castro, N; Borja-Urby, R; Rodriguez-Cortes, O; Garcia-Machorro, J; Correa-Basurto, J. In silico search, chemical characterization and immunogenic evaluation of amino-terminated G4-PAMAM-HIV peptide complexes using three-dimensional models of the HIV-1 gp120 protein. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 181 360-368. FI: 4.389. Cuartil: 1. (Article).*

- *Barrios-Gumiel, A; Sepulveda-Crespo, D; Jimenez, JL; Gomez, R; Munoz-Fernandez, MA; de la Mata, FJ. Dendronized magnetic nanoparticles for HIV-1 capture and rapid diagnostic. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 177 77-93. FI: 4.389. Cuartil: 1. (Article).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Gutierrez-Ulloa, CE; Sepulveda-Crespo, D; Garcia-Broncano, P; Maly, M; Munoz-Fernandez, MA; de la Mata, FJ; Gomez, R. Synthesis of bow-tie carbosilane dendrimers and their HIV antiviral capacity: A comparison of the dendritic topology on the biological process. EUROPEAN POLYMER JOURNAL. 2019; 119 200-212. FI: 3.862. Cuartil: 1. (Article).*

- *Martin-Moreno, A; Munoz-Fernandez, MA. Dendritic Cells, the Double Agent in the War Against HIV-1. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Review).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea,*

*C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Guerrero-Beltran, C; Prieto, A; Leal, M; Jimenez, JL; Munoz-Fernandez, MA. Combination of G2-S16 dendrimer/dapivirine antiretroviral as a new HIV-1 microbicide. FUTURE MEDICINAL CHEMISTRY. 2019; 11(23) 3005-3013. FI: 3.607. Cuartil: 2. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Cena-Diez, R; Martin-Moreno, A; de la Mata, FJ; Gomez-Ramirez, R; Munoz, E; Ardoys, M; Munoz-Fernandez, MA. G1-S4 or G2-S16 carbosilane dendrimer in combination with Platycodin D as a promising vaginal microbicide candidate with contraceptive activity. INTERNATIONAL JOURNAL OF NANOMEDICINE. 2019; 14 2371-2380. FI: 5.115. Cuartil: 1. (Article).*

- *Dominguez-Rodriguez, S; Tagarro, A; Palma, P; Foster, C; Puthanakit, T; Jupimai, T; Cotugno, N; Ananworanich, J; Zangari, P; Nastouli, E; Munoz-Fernandez, MA; Navarro, ML; Giaquinto, C; Rossi, P; Kuhn, L; Rojo, P; EPIICAL Consortium. Reduced*

*Time to Suppression Among Neonates With HIV Initiating Antiretroviral Therapy Within 7 Days After Birth. JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES. 2019; 82(5) 483-490. FI: 3.475. Cuartil: 2. (Article).*

- *Alvarez, M; Casas, P; de Salazar, A; Chueca, N; Guerrero-Beltran, C; Rodriguez, C; Imaz, A; Espinosa, N; Garcia-Bujalance, S; Perez-Elias, MJ; Garcia-Alvarez, M; Iribarren, JA; Santos, J; Aguilera, A; Vinuesa, D; Pierola, B; Molina, JM; Peraire, J; Portilla, I; Gomez-Sirvent, JL; Olalla, J; Galera, C; Blanco, JR; Riera, M; Garcia-Fraile, L; Navarro, G; Curran, A; Poveda, E; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; CoRIS. Surveillance of transmitted drug resistance to integrase inhibitors in Spain: implications for clinical practice. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1693-1700. FI: 5.439. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Bellon, JM; Rodriguez, C; Riera, M; Portilla, J; Castro, A; Munoz-Fernandez, MA; Resino, S. DBP rs16846876 and rs12512631 polymorphisms are associated with progression to AIDS naive HIV-infected patients: a retrospective study. JOURNAL OF BIOMEDICAL SCIENCE. 2019; 26(1) -. FI: 5.762. Cuartil: 1. (Article).*

- *Martinez-Bonet, M; Munoz-Fernandez, MA; Alvarez, S. HIV-1 increases extracellular amyloid-beta levels through neprilysin regulation in primary cultures of human astrocytes. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(5) 5880-5887. FI: 5.546. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Ruiz-de-Leon, MJ; Jimenez-Sousa, MA; Moreno, S; Garcia, M; Gutierrez-Rivas, M; Leon, A; Montero-Alonso, M; Gonzalez-Garcia, J; Resino, S; Rallon, N; Benito, JM; Vallejo, A; Benito, JM; Ratlon, N; Restrepo, C; Rodriguez, N; Garcia, M; Cabello, A; Gorgolas, M; Resino, S; Briz, V; Jimenez, MA; Vazquez, MS; Fernandez, A; Garcia, P; Munoz, MA; Sanchez, J; Jimenez, JL; Sepulveda, D; Garcia, I; Consuegra, I; Leon, A; Arnedo, M; Plana, M; Climent, N; Garcia, F; Ruiz-Mateos, E; Dominguez, B; Tarancon, L; Rafii-Elddrissi, M; Polaino, MJ; Genebat, M; Viciana, P; Leal, M; Vidal, F; Rodriguez, E; Vilades, C; Peraire, J; Romero, J; Rodriguez, C; Vera, M; Este, J; Ballana, E; Martinez, MA; Franco, S; Nevot, M; Vallejo, A; Moreno, S; Pernas, M; Casado, C; Lopez, C; Capa, L; Perez, M; Alcami, J; Sanjuan, R; Cuevas, JM; Delgado, R; Sierra, O; ECRIS Network Integrated Spanish A. Lower expression of plasma-derived exosome miR-21 levels in HIV-1 elite controllers with decreasing CD4 T cell count. JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. 2019; 52(4) 667-671. FI: 3.493. Cuartil: 2. (Article).*

- *Martin-Moreno, A; Sepulveda-Crespo, D; Serramia-Lobera, MJ; Perise-Barrios, AJ; Munoz-Fernandez, MA. G2-S16 dendrimer microbicide does not interfere with the vaginal immune system. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Relano-Rodriguez, I; Juarez-Sanchez, R; Pavicic, C; Munoz, E; Munoz-Fernandez, MA. Polyanionic carbosilane dendrimers as a new adjuvant in combination with latency reversal agents for HIV treatment. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Gonzalez-Pacheco, N; Sanchez-Luna, M; Chimenti-Camacho, P; Santos-Gonzalez, M; Palau-Concejo, P; Tendillo-Cortijo, F. Use of very low tidal volumes during high-frequency ventilation reduces ventilator lung injury. JOURNAL OF PERINATOLOGY. 2019; 39(5) 730-736. FI: 1.967. Cuartil: 2. (Article).*

- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*

- *Cabrera, JR; Manivanh, R; North, BJ; Leib, DA. The ESCRT-Related ATPase Vps4 Is Modulated by Interferon during Herpes Simplex Virus 1 Infection. MBIO. 2019; 10(2) -. FI: 6.784. Cuartil: 1. (Article).*

- *Rodriguez-Izquierdo, I; Natalia, C; Garcia, F; Munoz-Fernandez, MD. G2-S16 sulfonate dendrimer as new therapy for treatment failure in HIV-1 entry inhibitors. NANOMEDICINE. 2019; 14(9) 1095-1107. FI: 4.3. Cuartil: 1. (Article).*

- *Maciel, D; Guerrero-Beltran, C; Cena-Diez, R; Tomas, H; Munoz-Fernandez, MA; Rodrigues, J. New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. NANOSCALE. 2019; 11(19) 9679-9690. FI: 6.895. Cuartil: 1. (Article).*

- *Restrepo, C; Gutierrez-Rivas, M; Pacheco, YM; Garcia, M; Blanco, J; Medrano, LM; Navarrete-Munoz, MA; Gutierrez, F; Miralles, P; Dalmau, D; Gomez, JL; Gorgolas, M; Cabello, A; Resino, S; Benito, JM; Rallon, N; Munoz-Fernandez, MA; Spanish AIDS Res Network Project. Genetic variation in CCR2 and CXCL12 genes impacts on CD4 restoration in patients initiating cART with advanced immunesupression. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Guillen, S; Prieto, L; de Ory, SJ; Gonzalez-Tome, MI; Rojo, P; Navarro, ML; Mellado, MJ; Escosa, L; Sainz, T; Francisco, L; Munoz-Fernandez, MA; Ramos, JT; Hortelano, MG; Blazquez, D; Epalza, C; Saavedra, J; Santos, M; Munoz, MA; Santiago, B; Carrasco, I; Roa, MA; Beceiro, J; Penin, M; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Peromingo, E; Montero, M; Grande, A; Romero, FJ; Perez, C; Martinez, M; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Vila, L; Calvino, C; Piqueras, AI; Breton, R; Oltra, M; Lopez, E; Segarra, I; Gavilan, C; Montesinos, E; Dapena, M; Alvarez, C; Jimenez, B; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; del Prado, YR; Soler-Palacin, P; Frick, MA; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Pineda, V; Rius, N; Duenas, J; Fortuny, C; Noguera-Julian, A; CoRISpe Cohorte Nacl VIH Pediat RE. Prognostic factors of a lower CD4/CD8 ratio in long term viral suppression HIV infected children. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Jiménez de Ory S; Ramos JT; Fortuny C; González-Tomé MI; Mellado MJ; Moreno D; Gavilán C; Menasalvas AI; Piqueras AI; Frick MA; Muñoz-Fernández MA; Navarro ML; CoRISpe Cohort Working Group. Sociodemographic changes and trends in the rates of new perinatal HIV diagnoses and transmission in Spain from 1997 to 2015. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gutierrez, C; Lopez-Abente, J; Perez-Fernandez, V; Prieto-Sanchez, A; Correa-Rocha, R; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Asensi, V; Jarrin, I; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; De la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustin-Duy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Sanvisens, A; Fuster, D; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Arazo, P; Samperiz, G; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Curran, A; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ugarte, SI; Beneitez, OLF; de Munain, JL; Lopez, MMC; de la Pena, M; Lopez, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Amador, C; Pasquau, F; Ena,*

*J; Benito, C; Fenoll, V; Anguita, CG; Rabasa, JTA; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS Cohort. Choice of the initial antiretroviral treatment for HIV-positive individuals in the era of integrase inhibitors. PLOS ONE. 2019; 14(10) -. FI: 2.74. Cuartil: 2. (Article).*

- *Macchione, MA; Guerrero-Beltran, C; Rosso, AP; Euti, EM; Martinelli, M; Strumia, MC; Munoz-Fernandez, MA. Poly(N-vinylcaprolactam) Nanogels with Antiviral Behavior against HIV-1 Infection. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

# 5.03 Autoinmune systemic diseases

Group Director: **Indalecio Monteagudo Saez/José María Álvaro Gracia**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

The professionals of the Rheumatology Service of the HGUGM have great experience and dedication especially in systemic autoimmune diseases and chronic arthritis of adults and children, as well as in the management of biological therapies and new small molecules. The Rheumatology service at the HGUGM has a broad portfolio of services, a high-quality Day Hospital, a Musculoskeletal Ultrasound Unit, Microscopy and Capilaroscopy, a Biological Therapy Unit, a Child Rheumatology Unit and a specialized fertility consultation in rheumatologic patients, who work with high coordination to improve patient care and enhance biomedical research activity. The teaching activity complements the care and research activity, with 8 Rheumatology residents in training, undergraduate students of the medical school and national and international external rotants who come to improve their training and skills in clinical management and techniques used in daily practice

## Research lines

Axis1. Optimization of biological therapies
- L1: Biological therapy in rheumatoid arthritis, spondyloarthropathy, systemic lupus erythematosus, and Sjögren syndrome: optimization of treatment
- L2: Study and characterization of the immune response in autoimmune diseases treated with biologics

Axis 2 Imaging of rheumatic diseases
- L3: Imaging techniques applied to rheumatic diseases
- L4: Capillaroscopy as a diagnostic and prognostic tool in systemic autoimmune disease

Axis 3 Systemic autoimmune rheumatic diseases
- L5: Fertility and pregnancy in rheumatic disease
- L6: Systemic autoimmune rheumatic diseases (SARDs)
- L7: Inflammatory myopathy
- L8: Coagulation in patients with systemic lupus erythematosus

Axis 4Cardiovascular risk
- L9: Cardiovascular risk factors in rheumatoid arthritis, ankylosing spondylitis, and psoriatic arthritis

Axis 5 Chronic pain
- L10: Chronic musculoskeletal pain of non-inflammatory origin.

Axis 6 Early Inflammatory Arthritis
- L11. Characterization and management of early inflammatory arthritis. Leader: Isabel Castrejón

Axis 7 Outcome measures in Rheumatology
- L12. Validation of indexes and questionnaires for measuring disease activity. Leader: Isabel Castrejón

Axis 8 Interstitial Pneumopathy in Rheumatologic Diseases
- L13. Early detection and optimization of treatment in RA-associated IDPS. Leader: Isabel Castrejón

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| DEL RIO | BLASCO | TAMARA | R1 | First Stage Researcher |
| MOLINA | COLLADA | JUAN | R1 | First Stage Researcher |
| GONZÁLEZ | FERNÁNDEZ | CARLOS MANUEL | R3 | Established Researcher |
| MARTINEZ | BARRIO | JULIA | R2 | Recognised Researcher |
| MONTEAGUDO | SAEZ | INDALECIO | R4 | Leading Researcher |
| NIETO | GONZALEZ | JUAN CARLOS | R2 | |
| ÁLVARO-GRACIA | ÁLVARO | JOSÉ MARÍA | R4 | Leading Researcher |
| RIVERA | REDONDO | FRANCISCO JAVIER | R2 | Recognised Researcher |
| SERRANO | BENAVENTE | BELEN | R1 | First Stage Researcher |
| CASTREJON | FERNANDEZ | ISABEL | R3 | Established Researcher |
| GONZALEZ | HERNANDEZ | TERESA | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

TITLE: **Procedimiento breve de regulación emocional para la fibromialgia, a través de internet** PSI2017-85447-R
DIRECTOR: VALLEJO PAREJA, MIGUEL ÁNGEL
FUNDING BODY: MICINN
PROJECT TYPE: Research project
START DATE: 01/01/2018
END DATE:31/12/2019

**Not managed by FIBHGM**

TITLE: **Procedimiento breve de regulacion emocional para la fibromialgia, a través de internet** PSI2017-85447-R
DIRECTOR: MIGUEL A. VALLEJO PAREJA/ JAVIER RIVERA
FUNDING BODY: MICINN
PROJECT TYPE: UNED Research project
START DATE: 01/01/2018
END DATE:31/12/2019

## Industrial and intellectual property registrations

*Intellectual propierty*

| *Title* | *Reference* | *Owner* | *Inventors* |
|---|---|---|---|
| **Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas** | Nº Asiento Registral: 16/2013/5179 | FIBHGM | Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez |
| **Taller práctico de Técnicas de Laboratorio de Inmunología e interpretación clínica para médicos** | Nº Asiento Registral: 16/2014/6111 | FIBHGM | Larissa Valor, Luis Carreño, Diana Hernández |
| **Taller práctico de Técnicas de Laboratorio de Inmunofluorescencia indirecta (IIF "Live") para médicos** | Nº Asiento Registral: 16/2014/6112 | FIBHGM | Larissa Valor, Fco. Javier López, Diana Hernández |
| **Infiltraciones guiadas por ecografía en reumatología** | Nº Asiento Registral: 16/2018/7393 | FIBHGM | Juan Carlos Nieto González |

## Clinical Practice Guidelines

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Alejandro Balsa Criado. Petra Díaz del Campo Fontecha. Jose María Álvaro-Gracia Álvaro. José Luis Andreu Sánchez. Francisco Javier Blanco García. Laura Cano García. Esmeralda Delgado Frías. José Federico Díaz González. Ana Mª Fernández Ortiz. Blanca García Magallón. Luis Gómez Carrera. Carlos González Juanatey. M. Vanesa Hernández Hernández. Antonio Juan Mas. Francisco Javier Narváez García. Ana Ortiz García. Lucía Silva Fernández. Alejandro Tejedor Varillas | **Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide** | Guía en formato electrónico y papel |

## Publications

*Total Impact Factor:* ***117.9***

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 10.0 |
| Joint publications | 20 | 107.8 |
| First decile publications | 5 | 57.2 |

| | | |
|---|---|---|
| First quartile publications | 9 | 76.4 |
| Second quartile publications | 9 | 28.4 |
| Third quartile publications | 5 | 11.1 |
| Fourth quartile publications | 1 | 2.0 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **28** | **117.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Aterido, A; Canete, JD; Tornero, J; Ferrandiz, C; Pinto, JA; Gratacos, J; Queiro, R; Montilla, C; Torre-Alonso, JC; Perez-Venegas, JJ; Fernandez Nebro A; Munoz-Fernandez, S; Gonzalez, CM; Roig, D; Zarco, P; Erra, A; Rodriguez, J; Castaneda, S; Rubio, E; Salvador, G; Diaz-Torne, C; Blanco, R; Willisch Dominguez A; Mosquera, JA; Vela, P; Sanchez-Fernandez, SA; Corominas, H; Ramirez, J; de la Cueva, P; Fonseca, E; Fernandez, E; Puig, L; Dauden, E; Sanchez-Carazo, JL; Lopez-Estebaranz, JL; Moreno, D; Vanaclocha, F; Herrera, E; Blanco, F; Fernandez-Gutierrez, B; Gonzalez, A; Perez-Garcia, C; Alperi-Lopez, M; Olive Marques A; Martinez-Taboada, V; Gonzalez-Alvaro, I; Sanmarti, R; Tomas Roura C; Garcia-Montero, AC; Bonas-Guarch, S; Mercader, JM; Torrents, D; Codo, L; Gelpi, JL; Lopez-Corbeto, M; Pluma, A; Lopez-Lasanta, M; Tortosa, R; Palau, N; Absher, D; Myers, R; Marsal, S; Julia, A. Genetic variation at the glycosaminoglycan metabolism pathway contributes to the risk of psoriatic arthritis but not psoriasis. ANNALS OF THE RHEUMATIC DISEASES. 2019; 78(7) 979-987. FI: 16.102. Cuartil: 1. (Article).*

- *Elhai, M; Boubaya, M; Distler, O; Smith, V; Matucci-Cerinic, M; Sancho, JJ; Truchetet, ME; Braun-Moscovici, Y; Iannone, F; Novikov, PI; Lescoat, A; Siegert, E; Castellvi, I; Airo, P; Vettori, S; Langhe, E; Hachulla, E; Erler, A; Ananieva, L; Krusche, M; Lopez-Longo, FJ; Distler, JHW; Hunzelmann, N; Hoffmann-Vold, AM; Riccieri, V; Hsu, VM; Pozzi, MR; Ancuta, C; Rosato, E; Mihai, C; Kuwana, M; Saketkoo, LA; Chizzolini, C; Hesselstrand, R; Ullman, S; Yavuz, S; Rednic, S; Caimmi, C; Bloch-Queyrat, C; Allanore, Y; Guiducci, S; Walker, UA; Kyburz, D; Lapadula, G; Maurer, B; Jordan, S; Dobrota, R; Becvar, R; Sierakowsky, S; Bielecka, OK; Sulli, A; Cutolo, M; Cuomo, G; Nicoara, I; Kahan, A; Vlachoyiannopoulos, PG; Montecucco, CM; Caporali, R; Stork, J; Inanc, M; Carreira, PE; Novak, S; Czirjak, L; Varju, C; Kucharz, EJ; Kotulska, A; Kopec-Medrek, M; Widuchowska, M; Cozzi, F; Rozman, B; Mallia, C; Coleiro, B; Gabrielli, A; Farge, D; Wu, C; Marjanovic, Z; Faivre, H; Hij, D; Dhamadi, R; Wollheim, F; Scheja, A; Wuttge, DM; Andreasson, K; Martinovic, D; Balbir-Gurman, A; Trotta, F; Lo Monaco, A; Pellerito, R; Mauriziano, O; Caramaschi, P; Morovic-Vergles, J; Black, C; Denton, C; Damjanov, N; Henes, J; Santamaria, VO; Heitmann, S; Krasowska, D; Matthias; Hasler, P; Burkhardt, H; Himsel, A; Bajocchi, G; Da Silva, JAP; Salvador, MJ; Stamenkovic, B; Stankovic, A; Selmi, CF; De Santis, M; Tikly, M; Denisov, LN; Herrick, A; Muller-Ladner, U; Frerix, M; Tarner, I; Scorza, R; Puppo, F; Engelhart, M; Strauss, G; Nielsen, H; Damgaard, K; Szucs, G; Mendoza, AZ; de la Puente, C; Giraldo, WAS; Midtvedt, O; Reiseter, S; Garen, T; Launay, D; Valesini, G; Ionescu, RM; Groseanu, L; Opris, D; Cornateanu, RS; Ionitescu, R; Gherghe, AM; Soare, A; Gorga, M; Bojinca, M; Milicescu, M; Sunderkotter, C; Kuhn, A; Sandorfi, N; Schett, G; Beyer, C; Meroni, P; Ingegnoli, F; Mouthon, L; De Keyser, F; Melsens, K; Cantatore, FP; Corrado, A; Iversen, L; von Muhlen, CA; Bohn, JM; Lonzetti, LS; Eyerich, K; Hein, R; Knott, E; Wiland, P; Szmyrka-Kaczmarek, M; Sokolik, R; Morgiel, E; Madej, M; Houssiau, FA; Krummel-Lorenz, B; Saar, P; Aringer, M; Gunther, C; Westhovens, R; Lenaerts, J; Anic, B; Baresic, M; Mayer, M; Uprus, M; Otsa, K; Granel, B; Muller, CD; Radominski, SC; Azevedo, VF; Jimenez, S; Busquets, J; Agachi, S; Groppa, L; Chiaburu, L; Russu, E; Popa, S; Zenone, T; Pileckyte, M; Mathieu, A; Vacca, A; Sampaio-Barros, PD; Yoshinari, NH; Marangoni, RG; Martin, P; Fuocco, L; Stebbings, S; Highton, J; Chapman, P; O'Donnell, J; Stamp, L; Doube, A; Solanki, K; Veale, D; O'Rourke, M; Loyo, E; Li, MT; Mohamed, WAAA; Amoroso, A; Gigante, A; Oksel, F; Yargucu, F; Tanaseanu, CM; Popescu, M; Dumitrascu, A; Tiglea, I; Foti, R; Chirieac, R; Furst, D; Villiger, P; Adler, S; van Laar, J; Kayser, C; Fathi, N; Hassanien, M; Lefebvre, PGD; Rubio, SR; Exposito, MV; Chatelus, E; Sibilia, J; Gottenberg, JE; Chifflot, H; Litinsky, I; Emery, P; Buch, M; Del Galdo, F; Venalis, A; Butrimiene, I; Venalis, P; Rugiene, R; Karpec, D; Lasky, JA; Cosentino, V; Kerzberg, E; Montoya, F; Bianchi, W; Carneiro, S; Maretti, GB; Bianchi, DV; Limonta, M; Lupi, ALBE; Lupi, E; Rosner, I; Rozenbaum, M; Slobodin, G; Boulman, N; Rimar, D; Couto, M; Kahl, S; Chen, F; McCloskey, D; Malveaux, H; Spertini, F; Ribi, C; Buss, G; Martin, T; Guffroy, A; Poindron, V; Chotchaeva, F; Mukhin, NA; Moiseev, S; EUSTAR Network. Outcomes of patients with systemic sclerosis treated with rituximab in contemporary practice: a prospective cohort study. ANNALS OF THE RHEUMATIC DISEASES. 2019; 78(3) 355-364. FI: 16.102. Cuartil: 1. (Article).*

- *Lopez-Mejias, R; Carmona, FD; Genre, F; Remuzgo-Martinez, S; Gonzalez-Juanatey, C; Corrales, A; Vicente, EF; Pulito-Cueto, V; Miranda-Filloy, JA; Huaranga, MAR; Blanco, R; Robustillo-Villarino, M; Rodriguez-Carrio, J; Alperi-Lopez, M; Alegre-Sancho, JJ; Mijares, V; Lera-Gomez, L; Perez-Pampin, E; Gonzalez, A; Ortega-Castro, R; Lopez-Pedrera, C; Vivar, MLG; Gomez-Arango, C; Raya, E; Narvaez, J; Balsa, A; Lopez-Longo, FJ; Carreira, P; Gonzalez-Alvaro, I; Rodriguez-Rodriguez, L; Fernandez-Gutierrez, B; Ferraz-Amaro, I; Gualillo, O; Castaneda, S; Martin, J; Llorca, J; Gonzalez-Gay, MA. Identification of a 3 '-Untranslated Genetic Variant of RARB Associated With Carotid Intima-Media Thickness in Rheumatoid Arthritis: A Genome-Wide Association Study. ARTHRITIS & RHEUMATOLOGY. 2019; 71(3) 351-360. FI: 9.586. Cuartil: 1. (Article).*

- *Gratacos, J; Pontes, C; Juanola, X; Sanz, J; Torres, F; Avendano, C; Vallano, A; Calvo, G; de Miguel, E; Sanmarti, R; Almirall, M; Aparicio, M; Sellas, A; Vives, R; Albinana, N; Moreno, M; Clavaguera, T; Torre-Alonso, JC; Veroz, R; Rodriguez-Lozano, C; Linares, LF; Urruticoechea, A; Collantes, E; Morla, RM; Reina, D; Cuende, E; Zarco, P; Fernandez-Espartero, MC; Garcia-Vicuna, R; Montilla, CA; Villalba, A; Pascual, D; Campos, C; Juan, A; Ariza, R; Diaz-Miguel, C; Maqueda, M; Fernandez-Dapica, MP; Fernandez-Prada, M; Batlle, E; Gonzalez-Fernandez, C; Queiro, R; REDES-TNF Investigators. Non-inferiority of dose reduction versus standard dosing of TNF-inhibitors in axial spondyloarthritis. ARTHRITIS RESEARCH & THERAPY. 2019; 21 -. FI: 4.103. Cuartil: 1. (Article).*

- *Castrejon, I. Evaluation and monitoring of established rheumatoid arthritis. BEST PRACTICE & RESEARCH IN CLINICAL RHEUMATOLOGY. 2019; 33(5) -. FI: 2.727. Cuartil: 3. (Review).*

- *Nieto-Gonzalez, JC; Rodriguez, A; Gamir-Gamir, ML; Boteanu, A; Lopez-Robledillo, JC; Garulo, DC; Collado, P; Calvo, C; Garrido, J; Saez, IM; Naredo, E. Can ultrasound-detected subclinical synovitis be an indicator of flare recurrence in juvenile idiopathic arthritis remission patients on tapered TNFi?. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2019; 37(4) 705-712. FI: 3.319. Cuartil: 2. (Article).*

- *Martin-Martinez, MA; Castaneda, S; Gonzalez-Juanatey, C; Sanchez-Alonso, F; Garcia-Gomez, C; Lopez-Gonzalez, R; Babio-Herraiz, J; Juan-Mas, A; Moreno-Gil, MP; Sanchez-Gonzalez, CO; Romera-Baures, M; Pinto-Tasende, JA; Tornero-Molina, J; Fabregas-Canales, D; Llorca, J; Gonzalez-Gay, MA; de Rabago, EG; Morales, EAB; Lopez, JCF; Villar, NO; Sandoval, AA; Garcia, FJB; De Miquel, CA; Fernandez, MJG; Codina, RH; Yoldi, B; Ramentol, M; Avila, G; Barril, SM; Quesada, E; Steiner, M; Munoz, S; Cobo, T; Gamero, F; Toron, JG; Espino, P; Ros, I; Ibanez, M; Murillo, C; Sanmarti, R; Berman, H; Cabrera, S; Ruiz, V; Paton, OF; Gutierrez, BF; Abasolo, L; Pina, JM; Nolla, JM; Arias, MG; Vadillo, JAG; de Vicuna, RG; Nebro, AF; Arija, SM; Lopez, MAB; Urena, I; Irigoyen, MV; Cagigal, VC; Garrido, DP; Aparicio, AMG; Gomez, RB; Bautista, PG; Sanz, AH; Bachiller, J; Manero, FJ; Zorzo, FJ; Ubeda, EG; Garcia, JM; Audera, CB; Medrano, M; Pecondon, A; Erausquin, C; Ojeda, S; Quevedo, JC; Francisco, F; Lozano, CR; Longo, FJL; Gerona, D; Fernandez, CG; Monteagudo, I; del Pino, J; Gonzalez, MDS; Corrales, A; Peiro, ME; Senabre, JM; Rosas, JC; Rotes, I; Moreno, E; Erra, A; Grado, D; Calvo, J; Rueda, A; Moller, I; Rodriguez, I; Barbadillo, C; Raya, E; Morales, P; Nieto, A; Jimenez, I; Magro, C; Escribano, AR; Exposito, SR; Nievas, GS; Navarro, EJ; Fernandez, MS; Morales, MAG; Bastero, IL; Consuegra, GG; Palmou, N; Pardo, SM; Pujol, M; Alonso, ER; Salvador, G; Alvarez, BG; Cantabrana, A; Bustabad, S; Delgado, E; Munoz, A; Montero, SR; Jimenez, LM; Redondo, JR; Hernandez, TG; Polo, FJG; Almagro, RM; Moreno, JM; Serret, EG; Barroso, CL; Mendez, LC; Navio, MT; Carballido, CF; Pagan, E; del Castillo, PM; Naredo, E; Cruz, A; Turrion, A; Sanchez, J; Galindo, M; Gonzalez, JG; Collantes, E; Ruiz, D; Font, P; Bonilla, G; Meseguer, AL; Moreno, MJ; Martinez, MJM; Fernandez, MDB; Linares, LF; Morcillo, M; Gomez, MLG; Rivera, NA; Berrizbeitia, OF; Vivar, MLG; Riera, M; Leon, YM; Maymo, J; Amirall, M; Escolano, SI; Serrano, SS; Bona, MPL; Fiter, J; Melon, JF; Espadaler, L; Maiz, O; Belzunegui, J; Banegil, I; Diaz, C; Valls, R; Castellvi, I; Bonet, M; Ruzafa, EM; Alen, JC; Sandoval, TP; Evrard, ER; Godo, JR; Espartero, CF; Blasco, FJN; Gonzalez, JA; Miranda-Filloy, JA; CARMA Project Collaborative Grp. Incidence of first cardiovascular event in Spanish patients with inflammatory rheumatic diseases: prospective data from the CARMA Project. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2019; 37(5) 774-782. FI: 3.319. Cuartil: 2. (Article).*

- *Garcia-Gomez, C; Martin-Martinez, MA; Fernandez-Carballido, C; Castaneda, S; Gonzalez-Juanatey, C; Sanchez-Alonso, F; Gonzalez-Fernandez, MJ; Sanmarti, R; Garcia-Vadillo, JA; Fernandez-Gutierrez, B; Garcia-Arias, M; Manero, FJ; Senabre, JM; Rueda-Cid, A; Ros-Exposito, S; Pina-Salvador, JM; Erra-Duran, A; Moller-Parera, I; Llorca, J; Gonzalez-Gay, MA; de Rabago, EG; Morales, EAB; Lopez, JCF; Villar, NO; Sandoval, AA; Garcia, FJB; De Miquel, CA; Fernandez, MJG; Codina, RH; Yoldi, B; Ramentol, M; Avila, G; Barril, SM; Steiner, M; Munoz, S; Gamero, F; Toron, JG; Gil, MPM; Mas, AJ; Espino, P; Ros, I; Ibanez, M; Murillo, C; Piqueras, JA; Sanmarti, R; Berman, H; Cabrera, S; Ruiz, V; Paton, OF; Gutierrez, BF; Abasolo, L; Fabregas, MD; Baures, MR; Nolla, JM; Gonzalez-Alvaro, I; Muriel, EGT; de Vicuna, RG; Nebro, AF; Lopez, MAB; Urena, I; Irigoyen, MV; Cagigal, VC; Gonzalez, RL; Garrido, DP; Alvarez, JS; Aparicio, AMG; Gomez, RB; Bautista, PG; Sanz, AH; Gonzalez, COS; Bachiller, J; Zea, A; Manero, FJ; Zorzo, FJ; Ubeda, EG; Gracia, JM; Audera, CB; Medrano, M; Pecondon, A; Erausquin, C; Ojeda, S; Quevedo, JC; Francisco, F; Lozano, CR; Herraez, JB; Longo, FJL; Gerona, D; Fernandez, CG; Carreno, L; Monteagudo, I; del Pino, J; Gonzalez, MDS; Corrales, A; Peiro, ME; Senabre, JM; Rosas, JC; Rotes, I; Moreno, E; Erra, A; Grado, D; Calvo, J; Rueda, A; Moller, I; Rodriguez, I; Barbadillo, C; Raya, E; Morales, P; Nieto, A; Jimenez, I; Magro, C; Escribano, AR; Exposito, SR; Nievas, GS; Navarro, EJ; Fernandez, MS; Morales, MAG; Bastero, IL; Consuegra, G; Palmou, N; Pardo, SM; Pujol, M; Alonso, ER; Salvador, G; Alvarez, BG; Cantabrana, A; Bustabad, S; Delgado, E; Munoz, A; Montero, SR; Jimenez, LM; Redondo, JR; Hernandez, TG; Polo, FJG; Almagro, RM; Moreno, JM; Serret, EG; Barroso, CL; Mendez, LC; Navio, MT; Carballido, CF; Pagan, E; del Castillo, PM; Naredo, E; Cruz, A; Turrion, A; Mateo, I; Sanchez, J; Galindo, M; Gonzalez, JG; Collantes, E; Ruiz, D; Font, P; Bonilla, G; Meseguer, AL; Moreno, MJ; Martinez, MJM; Fernandez, MDB; Linares, LF; Morcillo, M; Gomez, MLG; Aramburu, JM; Rivera, NA; Berrizbeitia, OF; Vivar, MLG; Riera, M; Leon, YM; Maymo, J; Amirall, M; Escolano, SI; Serrano, SS; Bona, MPL; Fiter, J; Melon, JF; Espadaler, L; Maiz, O; Belzunegui, J; Banegil, I; Diaz, C; Valls, R; Castellvi, I; Bonet, M; Ruzafa, EM; Alen, JC; Sandoval, TP; Evrard, ER; Godo, JR; Espartero, CF; Blasco, FJN; Gonzalez, JA; Miranda-Filloy, JA; CARMA Project Collaborative Grp. Hyperlipoproteinaemia(a) in patients with spondyloarthritis: results of the Cardiovascular in Rheumatology (CARMA) project. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2019; 37(5) 731-739. FI: 3.319. Cuartil: 2. (Article).*

- *Vallejo, MA; Rivera, J; Vallejo-Slocker, L. Empirical Grouping of Pain Zones in Fibromyalgia A Preliminary Study. CLINICAL JOURNAL OF PAIN. 2019; 35(7) 611-617. FI: 2.893. Cuartil: 2. (Article).*

- *Cobo-Ibanez, T; Lopez-Longo, FJ; Joven, B; Carreira, PE; Munoz-Fernandez, S; Maldonado-Romero, V; Larena-Grijalba, C; Cubas, IL; Muriel, ET; Mateos, CB; Lefebvre, PGD; Gomez-Gomez, A; Nogal, LB; Perez, A; Almodovar, R; Lojo, L; Ruiz-Gutierrez, L; Lopez-Robledillo, JC; de Yebenes, MJG; Nuno-Nuno, L. Long-term pulmonary outcomes and mortality in idiopathic inflammatory myopathies associated with interstitial lung disease. CLINICAL RHEUMATOLOGY. 2019; 38(3) 803-815. FI: 2.394. Cuartil: 3. (Article).*

- *Nuno-Nuno, L; Joven, BE; Carreira, PE; Maldonado-Romero, V; Larena-Grijalba, C; Cubas, IL; Tomero, E; Barbadillo-Mateos, MC; Lefebvre, PGD; Ruiz-Gutierrez, L; Lopez-Robledillo, JC; Moruno-Cruz, H; Perez, A; Cobo-Ibanez, T; Almodovar, R; Lojo, L; de Yebenes, MJG; Lopez-Longo, FJ. Overlap myositis, a distinct entity beyond primary inflammatory myositis: A retrospective analysis of a large cohort from the REMICAM registry. INTERNATIONAL JOURNAL OF RHEUMATIC DISEASES. 2019; 22(8) 1393-1401. FI: 1.98. Cuartil: 4. (Article).*

- *Cavagna, L; Trallero-Araguas, E; Meloni, F; Cavazzana, I; Rojas-Serrano, J; Feist, E; Zanframundo, G; Morandi, V; Meyer, A; da Silva, JAP; Costa, CJM; Molberg, O; Andersson, H; Codullo, V; Mosca, M; Barsotti, S; Neri, R; Scire, C; Govoni, M; Furini, F; Lopez-Longo, FJ; Martinez-Barrio, J; Schneider, U; Lorenz, HM; Doria, A; Ghirardello, A; Ortego-Centeno, N; Confalonieri, M; Tomietto, P; Pipitone, N; Cambron, ABR; Canamero, MAB; Voll, RE; Wendel, S; Scarpato, S; Maurier, F; Limonta, M; Colombelli, P; Giannini, M; Geny, B; Arrigoni, E; Bravi, E; Migliorini, P; Mathieu, A; Piga, M; Drott, U; Delbrueck, C; Bauhammer, J; Cagnotto, G; Vancheri, C; Sambataro, G; De Langhe, E; Sainaghi, PP; Monti, C; Berzolari, FG; Romano, M; Bonella, F; Specker, C; Schwarting, A; Blanco, IV; Selmi, C; Ceribelli, A; Nuno, L; Mera-Varela, A; Gomez, NP; Fusaro, E; Parisi, S; Sinigaglia, L; Del Papa, N; Benucci, M; Cimmino, MA; Riccieri, V; Conti, F; Sebastiani, GD; Iuliano, A; Emmi, G; Cammelli, D; Sebastiani, M; Manfredi, A; Bachiller-Corral, J; Giraldo, WAS; Paolazzi, G; Saketkoo, LA; Giorgi, R; Salaffi, F; Cifrian, J; Caporali, R; Locatelli, F; Marchioni, E; Pesci, A; Dei, GL; Pozzi, MR; Claudia, L; Distler, J; Knitza, J; Schett, G; Iannone, F; Fornaro, M; Franceschini, F; Quartuccio, L; Gerli, R; Bartoloni, E; Randone, SB; Zampogna, G; Perez, MIG; Mejia, M; Vicente, E; Triantafyllias, K; Lopez-Mejias, R; Matucci-Cerinic, M; Selva-O'Callaghan, A; Castaneda, S; Montecucco, C; Gonzalez-Gay, MA. Influence of Antisynthetase Antibodies Specificities on Antisynthetase Syndrome Clinical Spectrum Time Course. JOURNAL OF CLINICAL MEDICINE. 2019; 8(11) -. FI: 3.303. Cuartil: 1. (Article).*

- *Queiro, R; Canete, JD; Montilla, C; Abad, MA; Montoro, M; Gomez, S; Cabez, A; Alonso, JCT; Roman-Ivorra, JA; Sanz, J; Salvatierra, J; Calvo-Alen, J; Sellas, A; Rodriguez, FJ; Bermudez, A; Romero, M; Riesco, M; Cobeta, JC; Medina, F; Aragon, A; Garcia, ML; Urruticoechea, A; Gonzalez, CM; Judez, E; Gonzalez, B; Fernandez, P; Pantoja, L; Morla, R; MAAPS Study Grp. Very Low Disease Activity, DAPSA Remission, and Impact of Disease in a Spanish Population with Psoriatic Arthritis. JOURNAL OF RHEUMATOLOGY. 2019; 46(9) 1246-1247. FI: 3.35. Cuartil: 2. (Letter).*

- *Sebastiani, M; Triantafyllias, K; Manfredi, A; Gonzalez-Gay, MA; Palmou-Fontana, N; Cassone, G; Drott, U; Delbruck, C; Rojas-Serrano, J; Bertolazzi, C; Nuno, L; Giannini, M; Iannone, F; Vicente, EF; Castaneda, S; Selva-O'Callaghan, A; Araguas, ET; Emmi, G; Iuliano, A; Bauhammer, J; Miehle, N; Parisi, S; Cavagna, L; Codullo, V; Montecucco, C; Lopez-Longo, FJ; Martinez-Barrio, J; Nieto-Gonzalez, JC; Vichi, S; Confalonieri, M; Tomietto, P; Bergner, R; Sulli, A; Bonella, F; Furini, F; Scire, CA; Bortoluzzi, A; Specker, C; Barsotti, S; Neri, R; Mosca, M; Caproni, M; Weinmann-Menke, J; Schwarting, A; Smith, V; Cutolo, M; Amer European Network Antisyntheta. Nailfold Capillaroscopy Characteristics of Antisynthetase Syndrome and Possible Clinical Associations: Results of a Multicenter International Study. JOURNAL OF RHEUMATOLOGY. 2019; 46(3) 279-284. FI: 3.35. Cuartil: 2. (Article).*

- *Riveiro, AS; Gonzalez, JCN; Barrio, JM. Systemic Sclerosis after Bone Marrow Transplantation: A Case with Evidence of Donor-related Disease Transfer. JOURNAL OF RHEUMATOLOGY. 2019; 46(7) 710-715. FI: 3.35. Cuartil: 2. (Article).*

- *Lopez-Isac, E; Acosta-Herrera, M; Kerick, M; Assassi, S; Satpathy, AT; Granja, J; Mumbach, MR; Beretta, L; Simeon, CP; Carreira, P; Ortego-Centeno, N; Castellvi, I; Bossini-Castillo, L; Carmona, FD; Orozco, G; Hunzelmann, N; Distler, JHW; Franke, A; Lunardi, C; Moroncini, G; Gabrielli, A; de Vries-Bouwstra, J; Wijmenga, C; Koeleman, BPC; Nordin, A; Padyukov, L; Hoffmann-Vold, AM; Lie, B; Rios, R; Callejas, JL; Vargas-Hitos, JA; Garcia-Portales, R; Camps, MT; Fernandez-Nebro, A; Gonzalez-Escribano, MF; Garcia-Hernandez, FJ; Castillo, MJ; Aguirre, MA; Gomez-Gracia, I; Fernandez-Gutierrez, B; Rodriguez-Rodriguez, L; de la Pena, PG; Vicente, E; Andreu, JL; de Castro, MF; Lopez-Longo, FJ; Martinez, L; Fonollosa, V; Guillen, A; Espinosa, G; Tolosa, C; Pros, A; Rodriguez-Carballeira, M; Narvaez, FJ; Rubio-Rivas, M; Ortiz-Santamaria, V; Madronero, AB; Gonzalez-Gay, MA; Diaz, B; Trapiella, L; Sousa, A; Egurbide, MV; Fanlo-Mateo, P; Saez-Comet, L; Diaz, F; Hernandez, V; Beltran, E; Roman-Ivorra, JA; Grau, E; Alegre-Sancho, JJ; Freire, M; Blanco-Garcia, FJ; Oreiro, N; Witte, T; Kreuter, A; Riemekasten, G; Airo, P; Magro, C; Voskuyl, AE; Vonk, MC; Hesselstrand, R; Proudman, S; Stevens, W; Nikpour, M; Zochling, J; Sahhar, J; Roddy, J; Nash, P; Tymms, K; Rischmueller, M; Lester, S; Vyse, T; Herrick, AL; Worthington, J; Denton, CP; Allanore, Y; Brown, MA; Radstake, TRDJ; Fonseca, C; Chang, HY; Mayes, MD; Martin, J; European Scleroderma Grp; ASIG. GWAS for systemic sclerosis identifies multiple risk loci and highlights fibrotic and vasculopathy pathways. NATURE COMMUNICATIONS. 2019; 10 -. FI: 12.121. Cuartil: 1. (Article).*

- *Gonzalez-Alvaro, I; Castrejon, I; Carmona, L; Dougados, M; Huizinga, T; Abu Shakra, M; Alberts, A; Lopez, MA; Amital, H; Aringer, M; Aslanidis, S; Berenbaum, F; Bijlsma, H; Garcia, FJB; Bliddal, H; Borofsky, M; Brocq, O; Buldakov, S; Cantini, F; Perez, LC; Chahade, W; Ciconelli, R; Codreanu, C; Dahlqvist, SR; Damjanov, N; Diamantopoulos, A; Dimdina, L; Dimic, A; Dorokhov, A; Dubikov, A; Fadienko, G; Fano, N; Ferreira, G; Gabrielli, A; Gaffney, K; Gaudin, P; Gerlag, DM; Gerli, R; Goncalves, CR; Hansen, MS; Hanvivadhanakul, P; Hoili, C; Hou, A; Hunter, J; Ilic, T; Ionescu, R; Kaine, J; Kakurina, N; Kamalova, R; Kelly, T; Knyazeva, L; Krumina, L; Kurthen, R; Lagrone, RP; Lapadula, G; Lavrentjevs, V; Lawson, JG; Lazic, Z; Lejnieks, A; Levy, Y; Lexberg, A; Mader, R; Mariette, X; Markovits, D; Mola, EM; Maugars, Y; Guarch, JM; Mazurov, VI; Mikkelsen, K; Vergles, JM; Nabizadeh, S; Nanagara, R; Nasonov, EL; Sarabia, FN; Neumann, T; Novak, S; Olech, E; Oza, M; Paran, D; Parsik, E; Pegram, S; Suarez, MP; Popova, T; Puechal, X; Raja, N; Ridley, D; Rosner, I; Rubbert-Roth, A; Rudin, A; Saraux, A; Saulite-Kandevica, D; Settas, L; Sfikakis, P; Sheeran, T; Sizikov, A; Stamenkovic, D; Stefanovic, D; Stolow, JB; Tan, AL; Tebib, J; Tishler, M; Tony, HP; Troum, OM; Uaratanawong, S; Angulo, EU; Valenzuela, G; van der Laken, K; Van Laar, J; van Riel, PLCM; Vasilopoulos, D; Veldi, T; Vinogradova, I; Vosse, D; Wassenberg, S; Weidmann, C; Weitz, M; Wollenhaupt, J; Xavier, R; Yakupova, S; Zagar, I; Zavgorodnaja, T; Zemerova, E; Zisman, D; Zonova, E; Camona, L; Alcazar, LA; de Miguel, CA; Sanchez, JLA; Diez, AA; Criado, AB; Gualda, EB; Serrano, MAB; Audera, JB; Fabregat, JB; Hernan, GB; Fernandez, NC; Casado, E; Mendez, LC; Coro, MC; Diaz, JLC; Cuesta, E; Areste, JF; Gonzalez, MF; Izquierdo, MG; Meijide, JAG; Gomez, MCG; Ubeda, EG; Centeno, EG; Vaquero, CG; Gomez, MLG; Gonzalez-Alvaro, I; Gomez, CGM; Delgado, YG; Masmitja, JG; del Rio, AH; Instxaurbe, AR; Oyarzabal, MVI; Palop, J; Mas, AJ; Navarro, EJ; Padro, ML; Longo, FJL; Santamaria, EL; Manzano, JM; Ruiz, FJM; Bernardo, IM; Gonzalez, LM; Mazzucheli, R; San Idelfonso, MM; Hernandez, AN; Espanol, AP; Callizo, EP; Donate, JQ; Lopez, PR; Redondo, JR; Lopez, MR; Pardo, RR; Alvarez, JS; Sala, RS; Rey, JSR; Marsa, XT; Martin, MT; Martin, MCT; Garnica, IU; de Diego, JPV; Valls, M; Garcia, VV; Montejo, PZ; Tabernero, JZ; Balsa, A; Sanmarti, R; Cabezas, JA; Cantalejo, M; Chamizo, E; Ciruelo, E; Corrales, A; Cruz, A; Diaz, C; Fiter, J; Freire, MM; Galindo, M; de Vicuna, MRG; Gelman, SM; Crespo, RG; Fernandez, CG; Fernandez, MJG; Hernandez, TG; Gracia, A; Granados, J; Guzman, MA; Irigoyen, MV; Juan,*

*A; Juanola, X; Laiz, A; Manero, FJ; Martinez, A; Martinez, F; Mata, C; Maymo, J; Navarro, FJ; Peiro, E; Perez, F; Perez, G; Perez, M; Pujol, M; Quiros, J; Ribas, B; Riera, M; Rivera, J; Rodriguez, JM; Gomez, MR; Rosello, R; Tenorio, M; Toyos, FJ; ACT-RAY Study Grp; PROAR Study Grp; EMECAR Study Grp. The comparative responsiveness of Hospital Universitario Princesa Index and other composite indices for assessing rheumatoid arthritis activity. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*

- *Ferreiro-Iglesias, A; Montes, A; Perez-Pampin, E; Canete, JD; Raya, E; Magro-Checa, C; Vasilopoulos, Y; Caliz, R; Ferrer, MA; Joven, B; Carreira, P; Balsa, A; Pascual-Salcedo, D; Blanco, FJ; Moreno-Ramos, MJ; Manrique-Arija, S; Ordonez, MD; Alegre-Sancho, JJ; Narvaez, J; Navarro-Sarabia, F; Moreira, V; Valor, L; Garcia-Portales, R; Marquez, A; Gomez-Reino, JJ; Martin, J; Gonzalez, A. Evaluation of 12 GWAS-drawn SNPs as biomarkers of rheumatoid arthritis response to TNF inhibitors. A potential SNP association with response to etanercept. PLOS ONE. 2019; 14(4) -. FI: 2.74. Cuartil: 2. (Article).*

- *Mandl, P; Studenic, P; Filippucci, E; Bachta, A; Backhaus, M; BonG, D; Bruyn, GAW; Collado, P; Damjanov, N; Dejaco, C; Delle-Sedie, A; De Miguel, E; Duftner, C; Gessl, I; Gutierrez, M; Hammer, HB; Hernandez-Diaz, C; Iagnocco, A; Ikeda, K; Kane, D; Keen, H; Kelly, S; Kovari, E; Moller, I; Moller-Dohn, U; Naredo, E; Nieto, JC; Pineda, C; Platzer, A; Rodriguez, A; Schmidt, WA; Supp, G; Szkudlarek, M; Terslev, L; Thiele, R; Wakefield, RJ; Windschall, D; D'Agostino, MA; Balint, PV; OMERACT Ultrasound Cartilage Task. Development of semiquantitative ultrasound scoring system to assess cartilage in rheumatoid arthritis. RHEUMATOLOGY. 2019; 58(10) 1802-1811. FI: 5.606. Cuartil: 1. (Article).*

- *Rosas, J; Sanchez-Piedra, C; Fernandez-Castro, M; Andreu, JL; Martinez-Taboada, V; Olive, A; Menor, R; Rodriguez, B; Aparicio, AG; Longo, FJL; Manrique-Arija, S; Vadillo, JAG; Barato, SG; Lopez-Gonzalez, R; Narvaez, FJ; Galisteo, C; Martin, JG; Lucea, ER; Naranjo, A; Erausquin, C; Rua-Figueroa, I; Illera, O; Romani, L; Melchor, S; Moreira, B; Raya, E; Lopez, MR; Mourino, C; Pego, JM; Cid, N; Judez, E; Moriano, C; Torrente, V; Corominas, H; Magallon, BG; Astete, CG; Castellvi, I; Bohorquez, C; Loricera, J; Belzunegui, J; Cobo, T; SJOGRENSER Group. ESSDAI activity index of the SJoGRENSER cohort: analysis and comparison with other European cohorts. RHEUMATOLOGY INTERNATIONAL. 2019; 39(4) 697-705. FI: 1.984. Cuartil: 3. (Article).*

- *Gomez-Centeno, A; Rubio-Romero, E; Ovalles, JG; Manrique-Arija, S; Marsal-Barril, S; Amarelo-Ramos, J; del Pino-Montes, J; Munoz-Fernandez, S; Bustabad, S; Barbazan-Alvarez, C. Clinical and therapeutic management of rheumatoid arthritis with biological disease-modifying antirheumatic drugs: RADAR study. RHEUMATOLOGY INTERNATIONAL. 2019; 39(6) 991-999. FI: 1.984. Cuartil: 3. (Article).*

- *Naredo, E; Janta, I; Baniandres-Rodriguez, O; Valor, L; Hinojosa, M; Bello, N; Serrano, B; Garrido, J. To what extend is nail ultrasound discriminative between psoriasis, psoriatic arthritis and healthy subjects?. RHEUMATOLOGY INTERNATIONAL. 2019; 39(12) 2015-2024. FI: 1.984. Cuartil: 3. (Article).*

- *Calderon-Goercke, M; Loricera, J; Aldasoro, V; Castaneda, S; Villa, I; Humbria, A; Moriano, C; Romero-Yuste, S; Narvaez, J; Gomez-Arango, C; Perez-Pampin, E; Melero, R; Becerra-Fernandez, E; Revenga, M; Alvarez-Rivas, N; Galisteo, C; Sivera, F; Olive-Marques, A; del Buergo, M; Marena-Rojas, L; Fernandez-Lopez, C; Navarro, F; Raya, E; Galindez-Agirregoikoa, E; Arca, B; Solans-Laque, R; Conesa, A; Hidalgo, C; Vazquez, C; Roman-Ivorra, J; Lluch, P; Manrique-Arija, S; Vela, P; Miguel, E; Torres-Martin, C; Nieto, J; Ordas-Calvo, C; Salgado-Perez, E; Luna-Gomez, C; de Miera, FJTS; Fernandez-Llanio, N; Garcia, A; Larena, C; Palmou-Fontana, N; Calvo-Rio, V; Prieto-Pena, D; Gonzalez-Vela, C; Corrales, A; Varela-Garcia, M; Aurrecoechea, E; Dos Santos, R; Garcia-Manzanares, A; Ortego, N; Fernandez, S; Ortiz-Sanjuan, F; Corteguera, M; Hernandez, JL; Gonzalez-Gay, MA; Blanco, R. Tocilizumab in giant cell arteritis. Observational, open-label multicenter study of 134 patients in clinical practice. SEMINARS IN ARTHRITIS AND RHEUMATISM. 2019; 48(6) 1025-1029. FI: 4.751. Cuartil: 1. (Article).*

- *Torrente-Segarra, V; Monte, TCS; Rua-Figueroa, I; De Una-Alvarez, J; Balboa-Barreiro, V; Lopez-Longo, FJ; Galindo-Izquierdo, M; Calvo-Alen, J; Olive-Marques, A; Mourino-Rodriguez, C; Horcada, L; Sanchez-Atrio, A; Montilla, C; Salgado, E; Diez-Alvarez, E; Blanco, R; Andreu, JL; Fernandez-Berrizbeitia, O; Hernandez-Beriain, JA; Gantes, M; Hernandez-Cruz, B; Pecondon-Espanol, A; Marras, C; Bonilla, G; Pego-Reigosa, JM; RELESSER Study Grp Spanish Soc; Study Grp Syst Autoimmune Dis. Relationship between damage and mortality in juvenile-onset systemic lupus erythematosus: Cluster analyses in a large cohort from the Spanish Society of Rheumatology Lupus Registry (RELESSER). SEMINARS IN ARTHRITIS AND RHEUMATISM. 2019; 49(1) 126-135. FI: 4.751. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *de Toro, J; Cea-Calvo, L; Battle, E; Carmona, L; Arteaga, MJ; Fernandez, S; Gonzalez, CM. Perceptions of patients with rheumatic diseases treated with subcutaneous biologicals on their level of information: RHEU-LIFE Survey. REUMATOLOGIA CLINICA. 2019; 15(2) 69-72. (Article).*

- *Silva-Fernandez, L; Oton, T; Askanase, A; Carreira, P; Lopez-Longo, FJ; Olive, A; Rua-Figueroa, I; Narvaez, J; Ruiz-Lucea, E; Andres, M; Calvo, E; Toyos, F; Alegre-Sancho, JJ; Tomero, E; Montilla, C; Zea, A; Uriarte, E; Calvo-Alen, J; Marras, C; Martinez-Taboada, VM; Belmonte-Lopez, MA; Rosas, J; Raya, E; Bonilla, G; Freire, M; Pego-Reigosa, JM; Millan, I; Hughes-Morley, A; Andreu, JL; Spanish Soc Rheumatology Syst. Pure Membranous Lupus Nephritis: Description of a Cohort of 150 Patients and Review of the Literature. REUMATOLOGIA CLINICA. 2019; 15(5) 252-257. (Article).*

- *Nieto-Gonzalez, JC; Monteagudo, I. Intra-articular joint injections in juvenile idiopathic arthritis: state of the art. REUMATOLOGIA CLINICA. 2019; 15(6) 343-349. (Article).*

- *Queiro R; Laiz A; Seoane-Mato D; Galindez Agirregoikoa E; Montilla C; Park HS; Bethencourt Baute JJ; Bustabad S; Pinto Tasende JA; Tejon P; Joven Ibanez B; Ramirez J; Cuervo A; Canete JD; Trenor Larraz P; Ordas C; Alonso S; Garcia-Fernandez E; Toniolo E; Moreno Ramos MJ; Beteta MD; Lojo Oliveira L; Navio Marco T; Cebrian L; Barbazan C; Maceiras F; Rodriguez-Moreno J; Steiner M; Munoz-Fernandez S; Novoa Medina FJ; Leon M; Rubio E; Medina Luezas J; Sanchez-Gonzalez MD; Arevalo M; Gratacos J; Senabre JM; Rosas JC; Santos Soler G; Nieto-Gonzalez JC; Gonzalez C; Lopez Robles A; Alvarez Castro C; Ruiz Montesino MD; Torrente-Segarra V; Fernandez-Carballido C; Martinez-Vidal MP; Jovani V; Urruticoechea-Arana A; Cabello Fernandez Y; Toledo MD; Almodovar R; Belmonte-Serrano MA; Notario Ferreira I; Raya Alvarez E; Grupo de Trabajo del Proyecto REAPSER. Spanish Registry of Recent-onset Psoriatic Arthritis (REAPSER study): Aims and methodology. REUMATOLOGIA CLINICA. 2019; 15(1) 34-42. (Review).*

# 5.05 Pathogenesis of the immunoallergic response

Group Director: **José Manuel Zubeldia Ortuño**
Organisms involved: **HGUGM**
**Emerging group**



## Research lines

**Axis 1: Basic and experimental allergology**
Line 1: Mechanisms of the allergic response and their regulation.
Line 2: Transgenesis and phenotyping.
Line 3: Hyperoxia-induced disease.
Line 4: Allergenic characterization of noncommercial allergens.
**Axis 2: Uncommon allergic diseases**
Line 1: Difficult-to-control asthma.
Line 2: Hereditary angioedema.
Line 3: Eosinophilic esophagitis.
Line 4: Activation of mastocytes.
**Axis 3: Pediatric allergy**
Line 1: Oral immunotherapy with foods.
Line 2: Gastrointestinal allergy.
Line 3: Anaphylaxis in children.
Line 4: Use of social networks in food-allergic children.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ALVAREZ | PEREA | ALBERTO | R3 | Established Researcher |
| BAEZA | OCHOA DE OCÁRIZ | MARÍA LUÍSA | R3 | Established Researcher |
| CABRERA | FREITAG | PAULA | R3 | Established Researcher |
| FUENTES | APARICIO | VICTORIA | R1 | First Stage Researcher |
| INFANTE | HERRERO | SONSOLES | R1 | First Stage Researcher |
| JAQUETI | MORENO | Mª PALOMA | | |
| MORALES | CABEZA | CRISTINA | R1 | First Stage Researcher |
| PRIETO | GARCÍA | ALICIA | R3 | Established Researcher |
| ROJAS | PEREZ EZQUERRA | PATRICIA EUGENIA | R1 | First Stage Researcher |
| TORNERO | MOLINA | PILAR | R1 | First Stage Researcher |
| ZAPATERO | REMÓN | LIDIA | R4 | Leading Researcher |
| ZUBELDIA | ORTUÑO | JOSÉ MANUEL | R4 | Leading Researcher |

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | Centro de Investigación Biomédica en Red CIBERER Group U761 | Associated group |

## Publications

Total Impact Factor: **92.0**

| Nº | FI |
|---|---|

| | | |
|---|---|---|
| Own publications | 10 | 35.2 |
| Joint publications | 11 | 56.8 |
| First decile publications | 5 | 32.1 |
| First quartile publications | 8 | 51.0 |
| Second quartile publications | 9 | 31.4 |
| Third quartile publications | 3 | 9.1 |
| Fourth quartile publications | 1 | 0.6 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **21** | **92.0** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Matricardi, PM; Dramburg, S; Alvarez-Perea, A; Antolin-Amerigo, D; Apfelbacher, C; Atanaskovic-Markovic, M; Berger, U; Blaiss, MS; Blank, S; Boni, E; Bonini, M; Bousquet, J; Brockow, K; Buters, J; Cardona, V; Caubet, JC; Cavkaytar, O; Elliott, T; Esteban-Gorgojo, I; Fonseca, JA; Gardner, J; Gevaert, P; Ghiordanescu, I; Hellings, P; Hoffmann-Sommergruber, K; Kalpaklioglu, AF; Marmouz, F; Calderon, AM; Mosges, R; Nakonechna, A; Ollert, M; Oteros, J; Pajno, G; Panaitescu, C; Perez-Formigo, D; Pfaar, O; Pitsios, C; Rudenko, M; Ryan, D; Sanchez-Garcia, S; Shih, J; Tripodi, S; Van der Poel, LA; van Os-Medendorp, H; Varricchi, G; Wittmann, J; Worm, M; Agache, I. The role of mobile health technologies in allergy care: An EAACI position paper. ALLERGY. 2019; 75(2) 259-272. FI: 8.706. Cuartil: 1. (Article).*

- *Alvarez-Perea, A; Tomas-Perez, M; Ameiro, B; Zubeldia, JM; Baeza, ML. When is epinephrine prescribed for anaphylaxis?. ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. 2019; 122(3) 339-340. FI: 4.969. Cuartil: 1. (Letter).*

- *Tanno, LK; Alvarez-Perea, A; Pouessel, G. Therapeutic approach of anaphylaxis. CURRENT OPINION IN ALLERGY AND CLINICAL IMMUNOLOGY. 2019; 19(4) 393-401. FI: 3.246. Cuartil: 3. (Review).*

- *Gonzalez-Mansilla, A; Martinez-Legazpi, P; Prieto, A; Goma, E; Haurigot, P; del Villar, CP; Cuadrado, V; Delgado-Montero, A; Prieto, R; Mombiela, T; Perez-David, E; Gonzalez, ER; Benito, Y; Yotti, R; Perez-Vallina, M; Fernandez-Aviles, F; Bermejo, J. Valve area and the risk of overestimating aortic stenosis. HEART. 2019; 105(12) 911-. FI: 5.213. Cuartil: 1. (Article).*

- *Ibarra, GZ; Aparicio, VF; Herrero, SI; Blanca, M; Remon, LZ. Peanut Allergy in Spanish Children: Comparative Profile of Peanut Allergy versus Tolerance. INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. 2019; 178(4) 370-376. FI: 2.917. Cuartil: 3. (Article).*

- *Infante, S; Marco-Martin, G; Zubeldia, JM; Fuentes-Aparicio, V; Alvarez-Perea, A; Cabrera-Freitag, P; Morales-Cabeza, C; Zapatero, L. Oral Food Challenge in Food Protein-Induced Enterocolitis Syndrome by Fish: Is There Any Room for Improvement?. INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. 2019; 179(3) 215-220. FI: 2.917. Cuartil: 3. (Article).*

- *Zuraw, B; Katelaris, C; Sussman, G; Keith, PK; Yang, W; Hebert, J; Hanzlikova, J; Staubach-Renz, P; Martinez-Saguer, I; Magerl, M; Aygoren-Pursun, E; Farkas, H; Reshef, A; Kivity, S; Neri, S; Crisan, I; Caballero, T; Baeza, ML; Hernandez, MD; Li, H; Lumry, W; Bernstein, JA; Hussain, I; Anderson, J; Schwartz, LB; Jacobs, J; Manning, M; Levy, D; Riedl, M; Christiansen, S; Zuraw, BL; Cicardi, M; Craig, T; Longhurst, H; Grattan, C; Bork, K; Kreuz, W; Jacobs, I; Pragst, I; Herget, S; Dalton, S; Clement, C; Mycroft, S; Pawaskar, D; Zhang, Y; Machnig, T; Waldhauser, H; Feuersenger, H; Lawo, JP; Lang, D; Hoernlein, S; Mildenberger, M; Foeller, K; Ellis, F; Wood, D; Walsh, M; Qu, QL; Mueller-Stark, K; Feussner, A; Kalina, U; Ma, X; Rigsby, S; Scheffler, E; Fischer, JF; Kolb, C; Katelaris, CH; Frankum, B; Keat, K; Philip, B; Lee, JA; Urriola, N; Lee, MW; Sussman, GL; Levi, G; Gould, W; Keith, PK; Ferrie, P; Rosenberg, E; Waserman, S; Yang, W; O'Quinn, J; Hebert, J; Gagnon, R; Hanzlikova, J; Vachova, M; Stauerbach-Renz, P; Weber, A; Zimmer, S; Gilfert, T; Lang, B; Martinez-Saguer, I; Escuriola-Ettingshausen, C; Magerl, M; Maurer, M; Metz, M; Schoepke, N; Altrichter, S; Hawro, T; Schwabe, D; Graff, J; Behrens, F; Kohm, M; Andarawewa, S; Farkas, H; Temesszentandrasi, G; Kohalmi, VK; Reshef, A; Kidon, M; Kivity, S; Kadar, L; Benor, S; Cicardi, M; Bonanni, E; Wu, M; Zanichelli, A; Mansi, M; Neri, S; Rizzotto, A; Giardino, F; Fidone, F; Crisan, I; Varga, M; Iftene, M; Badiu-Tisa, ID; Caballero, T; Cabanas, R; Pedrosa, M; Rivero-Paparoni, D; Gomez-Traseira, C; Alvez, A; Phillips, E; Baeza, ML; Prieto, A; Zubeldia, J; Hernandez, MD; Ibanez, E; Almero, R; Longhurst, H; Buckland, M; Grigoriadou, S; Manson, A; Yeatman, N; Laffan, J; Nasr, I; Ghurye, R; Rehman, T; Craig, T; Schaeffer, C; Ghaffari, G; Kelbel, T; Reddy, V; Buyantseva, L; Mende, C; Jose, J; Novchicht, T; Li, HH; Scarupa, M; Economides, A; White, M; Kaliner, M; Ward, C; Shaikh, S; Johnson, T; Kosh, L; Dauphin, P; Baker, J; Persons, S; Newman, A; Noonan, MJ; Lumry, WR; Poarch, KP; Tucker, J; Aguilar, D; Noth, D; Bernstein, J; Bernstein, D; Evans, S; Crawford, M; McGuckin, SD; McCollum, JR; Bradley, B; Wagner, C; Cartwright, A; Bonner, J; Anderson, J; Soong, W; Sikora, M; Lemke, M; Luthin, P; Youngblood, B; DeBerry, E; Schwartz, LB; Gilbert, E; Zhao, W; Ward, B; Alvarez, A; Kumar, S; Akl, E; Jacobs, J; Curl, J; Silva, K; Mostofi, T; Schultz, N; Manning, ME; Davis, A; Nelson, J; Levy, DS; Riedl, M; Zuraw, B; Christiansen, SC; COMPACT Investigators. Long-Term Outcomes with Subcutaneous C1-Inhibitor Replacement Therapy for Prevention of Hereditary Angioedema Attacks. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2019; 7(6) 1793-. FI: 7.574. Cuartil: 1. (Article).*

- *Gastaminza, G; Azofra, J; Nunez-Cordoba, JM; Baeza, ML; Echechipia, S; Gaig, P; Garcia, BE; Labrador-Horrillo, M; Sala-Cunill, A; Bresco, MS; Beristain, A; Quinones, D; Donado, CD; Zubeldia, JM; Ferrer, M. Efficacy and Safety of Omalizumab*

*(Xolair) for Cholinergic Urticaria in Patients Unresponsive to a Double Dose of Antihistamines: A Randomized Mixed Double-Blind and Open-Label Placebo-Controlled Clinical Trial. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2019; 7(5) 1599-. FI: 7.574. Cuartil: 1. (Article).*

- *Gonzalez-de-Olano, D; Esteban-Lopez, MI; Alonso-Diaz-de-Durana, MD; Gonzalez-Mancebo, E; Prieto-Garcia, A; Gandolfo-Cano, M; Mohedano-Vicente, E; Balugo-Lopez, V; Fiandor, A; Mielgo-Ballesteros, R; Vega-Castro, A; Garcia-Montero, A; Orfao, A; Escribano, L; Alvarez-Twose, I. Frequency of clonal mast cell diseases among patients presenting with anaphylaxis: A prospective study in 178 patients from 5 tertiary centers in Spain. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2019; 7(8) 2924-. FI: 7.574. Cuartil: 1. (Letter).*

- *Garcia-Gutierrez, I; Acevedo, M; Tornero, P; Matilla, A; Marquez, L; Sanchez-Herrero, A; Prieto-Garcia, A. Severe Maculopapular Exanthema Induced by Regorafenib: Successful Desensitization and Adaptation of a Dosage Regimen. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(1) 53-55. FI: 3.488. Cuartil: 2. (Article).*

- *Alvarez-Perea, A; Sanchez-Garcia, S; Munoz Cano R; Antolin-Amerigo, D; Tsilochristou, O; Stukus, DR. Impact Of "eHealth" in Allergic Diseases and Allergic Patients. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 309-311. FI: 3.488. Cuartil: 2. (Article).*

- *Plaza, V; Blanco, M; Delgado, J; Martinez, I; Zubeldia, JM; Molina, J. Survey of Opinion of Spanish Physicians on the Role of Eosinophils in Asthma and Other Diseases. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 298-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Martinez, S; Lasa, EM; Joral, A; Infante, S; Perez, MD; Ibanez, MD; Moreno, E; Torres, MJ; Childhood Allergy Comm; Spanish Soc Allergy Clinical Immun. Recommendations for the Use of Propofol in Egg-Allergic Patients. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(2) 94-102. FI: 3.488. Cuartil: 2. (Review).*

- *Cabrera-Freitag, P; Infante, S; Bartolome, B; Alvarez-Perea, A; Fuentes-Aparicio, V; Remon, LZ. Anaphylaxis Related to Passive Second-Hand Exposure to Cannabis sativa Cigarette Smoke in Adolescents. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(6) 456-458. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Noguerado-Mellado B; Rojas-Pérez-Ezquerra PD; Tornero Molina P; Ballesteros M; Zubeldia Ortuño JM. Delayed Hypersensitivity Reaction to Lenalidomide: 2 Different Clinical Patterns in the Same Patient. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(2) 103-111. FI: 3.488. Cuartil: 2. (Review).*

- *Zubeldia, JM; Ferrer, M; Davila, I; Justicia, JL. Adjuvants in Allergen-Specific Immunotherapy: Modulating and Enhancing the Immune Response. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(1) 72-74. FI: 3.488. Cuartil: 2. (Article).*

- *Prieto-Garcia, A; Noguerado, B; Rojas, P; Torrado, I; Rodriguez-Fernandez, A; Tornero, P. Unexpected Anaphylaxis After Completing a Desensitization Protocol to Oxaliplatin: Successful Adjuvant Use of Omalizumab. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(6) 461-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Alvarez-Perea, A; Fuentes-Aparicio, V; Cabrera-Freitag, P; Infante, S; Zapatero, L; Zubeldia, JM; Baeza, ML. Is Self-injectable Epinephrine Being Used by Children With Food Allergy?. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 300-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Martin-Munoz, MF; Lebrero, EA; Zapatero, L; Aparicio, VF; Gibert, MP; Martin, AMP; Munoz, C; Belver, MT; Martorell-Calatayud, C; Martorell-Aragones, A; Blasco, C; Vila, B; Gomez, C; Nevot, S; Martin, JMG; Madero, R; Echeverria, L. Egg OIT in clinical practice (SEICAP II): Maintenance patterns and desensitization state after normalizing the diet. PEDIATRIC ALLERGY AND IMMUNOLOGY. 2019; 30(1) 81-92. FI: 4.699. Cuartil: 1. (Article).*

- *Martin-Munoz, MF; Belver, MT; Lebrero, EA; Remon, LZ; Aparicio, VF; Gibert, MP; Plaza, AM; Roman, CM; Martorell-Calatayud, C; Martorell-Aragones, A; Blasco, C; Vila, B; Gomez, C; Nevot, S; Martinez, JMG; Jarabo, RM; Echeverria, L. Egg oral immunotherapy in children (SEICAP I): Daily or weekly desensitization pattern. PEDIATRIC ALLERGY AND IMMUNOLOGY. 2019; 30(2) 214-224. FI: 4.699. Cuartil: 1. (Article).*

- *Mas-Serrano, M; Garcia-Pastor, A; Tornero-Molina, P; Vazquez-Alen, P; Palacios-Mendoza, MA; Gil-Nunez, AC. Treatment of alteplase-induced orolingual angioedema by means of icatibant. REVISTA DE NEUROLOGIA. 2019; 69(6) 261-262. FI: 0.562. Cuartil: 4. (Letter).*

# 5.06 Immune regulation and homeostasis in diseases of the immune system

Group Director**: Rafael Correa Rocha**
Organisms involved: **HGUGM**
**Emerging group**

## Description of the research group

The Immuno-regulation Laboratory (LIR) led by Rafael Correa Rocha constitutes an emerging group within the Gregorio Marañón Health Research Institute (IISGM), included in Area 5 (Pathology of the Immune System). The group has focused its research on the study of the immunological mechanisms involved in different immune pathologies of pediatric patients. These studies constitute an unpublished line in the center and have resulted in the development of a pioneering clinical trial in the world to prevent rejection in children transplanted from the heart through a therapy with Treg cells. Another principal investigator of the group, Dr. Marjorie Pion, is developing a leading line of research on the genetic modification of immune cells for the development of advanced cellular immunotherapies

## Research lines

**Axis 1: Immunology of solid organ transplantation**
Line 1: Cellular immunotherapy with Treg cells in pediatric solid organ transplantation. Leader: Rafael Correa Rocha
**Axis 2: Immune regulation in pediatric patients**
Line 1: Regulation and Immunological Homeostasis in Pediatric Diseases. . Leader: Rafael Correa Rocha
Line 2: Advanced immunotherapies in Pediatrics. . Leader: Rafael Correa Rocha
**Axis 3: Advanced immunotherapies and genetic modification of immune cells**
Line 1: Development of genetically modified cells to induce immune tolerance. Leader: Marjorie Pion
Line 2: Exosomes and immune cell communication mechanisms. Leader: Marjorie Pion

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| BERNALDO DE QUIROS | PLAZA | ESTHER | R1 | First Stage Researcher |
| CAMPOS | DOMINGUEZ | MINIA | R3 | Established Researcher |
| CORREA | ROCHA | RAFAEL | R4 | Leading Researcher |
| FERNANDEZ | CASTILLO | MARTA | R1 | First Stage Researcher |
| GALLEGO | VALLE | JORGE | R1 | First Stage Researcher |
| GONZALEZ | CRESPO | ALMUDENA | Other | Research manager |
| HERNANDEZ | FLOREZ | DIANA CAROLINA | Other | Research manager |
| KENNEDY | BATALLA | REBECA | R1 | First Stage Researcher |
| LOPEZ | ESTEBAN | ROCIO | Other | Lab Technician |
| MANSO | GIL | SERGIO | R1 | First Stage Researcher |
| MARTINEZ | BONET | MARTA | R2 | Recognised Researcher |
| PION | - | MARJORIE | R3 | Established Researcher |
| SEOANE | REULA | MARÍA ELENA | R3 | Established Researcher |

## Research Projects – Competitive Calls

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Implementación de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) para prevenir el rechazo a trasplantes. Un nuevo arsenal terapeutico frente a alteraciones inmunes.** DTS18/00038
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Technology research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/01/2019

TITLE: **Ensayo clinico para evaluar la eficacia de una terapia celular cpon células Treg obtenidas de tejido tímico (thyTreg) en la preveción de rechazo en niños trasplantados de corazón**. PI18/00495
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Generación de celulas Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular**. PI18/00506
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Desarrollo de protocolos de expansión de células. Treg en condiciones GMP para su uso en inmunoterapia celular para la prevención de rechazo a trasplante en pacientes pediátricos**. PI15/00011
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/07/2019

TITLE **Ensayo de inmunoterapia celular para prevenir el rechazo a trasplante en niños mediante el aislamiento y re-infusión de células treg autólogas**. ICI14/00282
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Clinical Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiologia y fisiopatología hepática (EXOHEP-CM)**. S2017/BMD-3727-1
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACION. COMUNIDAD DE MADRID
START DATE: 01/10/2018
END DATE: 31/12/2019

TITLE: **Sara Borrell contract** CD18/00105
DIRECTOR: MARTINEZ BONET, MARTA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Predoctoral contract** FI18/00109
DIRECTOR: FUENTELSAZ ROMERO, SARA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8524
DIRECTOR: CORREA ROCHA, RAFAEL

PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8094
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2019

## *Industrial and intellectual property registrations*

*Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune** | P 201830197 | FIBHGM | Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós |

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| | **Marta Fernandez Castillo** | Estudio de los mecanismos inmunológicos del Síndrome Coronario Agudo, sus estados patológicos y enfermedades asociadas | Rafael Correa Rocha | DIVERSOS ORGANISMOS OFICIALES | 27/02/2019 |
| Ph Thesis | **Abraham Merino López** | Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus | Manuel Desco Menéndez<br>Rafael Correa Rocha | UC3M | 09/07/2019 |
| Ph Thesis | **Rebeca Kennedy Batalla** | Perfil inmunológico de pacientes pediátricos con ictiosis. Estudio del efecto de terapias pioneras sobre la clínica y la desregulación inmune observada en ictiosis | Rafael Correa Rocha | UAH | 20/02/2019 |
| Ph Thesis | **Jimena Perez Moreno** | Papel de las células T reguladoras en la alergía de las proteínas de la leche de vaca no mediada por IGE en la infancia | Cesar Sanchez Sanchez<br>Rafael Correa Rocha | UCM | 06/09/2019 |

## *Publications* *Total Impact Factor:* ***92.8***

| | Nº | FI |
|---|---|---|
| Own publications | 6 | 88.8 |
| Joint publications | 1 | 4.0 |
| First decile publications | 2 | 82.0 |
| First quartile publications | 2 | 82.0 |
| Second quartile publications | 2 | 6.7 |
| Third quartile publications | 2 | 2.8 |
| Fourth quartile publications | 1 | 1.2 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **8** | **92.8** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Lopez-Abente, J; Bernaldo-de-Quiros, E; Camino, M; Gil, N; Panadero, E; Campos-Dominguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).*
- *Arteta, ELH; Rivero, PA; Ros, MIM; Dominguez, MC. Isolated skin lesions in a neonate: A caseof congenital Langerhans cell histiocytosis. ANALES DE PEDIATRIA. 2019; 90(6) 408-409. FI: 1.313. Cuartil: 3. (Letter).*
- *Nigrovic PA; Martínez-Bonet M; Thompson SD. Implications of juvenile idiopathic arthritis genetic risk variants for disease pathogenesis and classification. CURRENT OPINION IN RHEUMATOLOGY. 2019; 31(5) 401-410. FI: 4.006. Cuartil: 2. (Article).*
- *Bardon-Cancho, EJ; Garrido-Colino, C; Hernandez-Garcia, B; Parra-Blanco, V; Garcia-Morin, M; Cela, E; Dominguez, MC. Overlap between Angiolymphoid Hyperplasia with Eosinophilia and Kimura's Disease in a Child with Immune Thrombocytopenic Purpura. INDIAN JOURNAL OF DERMATOLOGY. 2019; 64(2) 159-161. FI: 1.523. Cuartil: 3. (Letter).*
- *Hernández-Martín A; Kennedy-Batalla R; Cañedo E; Bernaldo-de-Quirós E; Carazo-Gallego B; Vera A; Torrelo A; Noguera-Morel L; González-Sarmiento R; Bolling M; Martínez-Bonet M; Pion M; Correa-Rocha R. Imbalance in T-Helper 17 Cells and Targeted Therapy in an Infant with SAM-like Syndrome. NEW ENGLAND JOURNAL OF MEDICINE. 2019; 381(22) 2176-2178. FI: 74.699. Cuartil: 1. (Letter).*
- *Boas, PV; Sanchez-Herrero, A; Suarez-Fernandez, R; Campos-Dominguez, M. Neonatal ichthyosis and hypotrichosis. PEDIATRIC DERMATOLOGY. 2019; 36(4) 77-78. FI: 1.164. Cuartil: 4. (Editorial Material).*
- *Gutierrez, C; Lopez-Abente, J; Perez-Fernandez, V; Prieto-Sanchez, A; Correa-Rocha, R; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

***Other publications***

- *Cunin, P; Bouslama, R; Machlus, KR; Martinez-Bonet, M; Lee, PY; Wactor, A; Nelson-Maney, N; Morris, A; Guo, L; Weyrich, A; Sola-Visner, M; Boilard, E; Italiano, JE; Nigrovic, PA. Megakaryocyte emperipolesis mediates membrane transfer from intracytoplasmic neutrophils to platelets. ELIFE. 2019; 8 -. FI: 7.08. Cuartil: 1. (Article).*

# 5.07 Infections in pediatric patients

Group Director: **Mª Luisa Navarro Gómez**
Organisms involved: **HGUGM**
**Consolidated Group**



## Description of the research group

The infection research group in the pediatric population participates in the IISGM since its creation and is consolidated within it. The group is made up of professionals in the health area who have extensive experience in clinical and translational research.
The main lines of research are:

.-Bronchiolitis
.-HIV infection
.-Tuberculosis
.-Osteoarticular infection
.-Invasive Streptococcus group A infection
.-Fever and neutropenia in pediatric patient
.-Infections in the patient with sickle cell disease
.-Research in the prevention of infections in the complex pediatric patient
.-Congenital infections
-Invasive fungal infection.

In addition, we are very aware of the training in the field of pediatric infectology of junior researchers who are joining, where they play an important role in research and many of them end up carrying out translational research activity and culminating in doctoral thesis.
It highlights networking and collaborations with other national and international research groups. In addition, the group has a cooperation commitment by training professionals from Africa and Latin America, who support their clinical and translational research activity in person and through telemedicine and other information techniques.

## Research lines

**Axis 1: Bronchiolitis**

**Line 1:** Description of early markers of severity in bronchiolitis caused by RSV: IL-8 in respiratory secretions and plasma during admission and its value as a predictor of severity. Viral load will be determined in patients with RSV bronchiolitis, as will its predictive value. Lymphopenia will be evaluated as an early marker of severity during admission in infants with RSV bronchiolitis. Does the severity of RSV bronchiolitis depend on viral genotypes? Leader: Rosa Rodríguez.
**Line 2**: RSV bronchiolitis. Humoral immune response to RSV. Determination of antibodies to RSV surface proteins F and G and their role in the preparation of vaccines against RSV. Study of humoral immunity against RSV proteins preF and postF and G in full-term infants and in premature infants. Leader: Rosa Rodríguez.
**Line 3**: RSV bronchiolitis. Study of inflammatory mediators. Cytokines and their role in the subsequent development of recurrent wheezing. Description of the cytokine profile in RSV bronchiolitis during admission, at 1 month, and at 1 year after discharge. Description of a cytokine profile that makes it possible to predict the development of recurrent postbronchiolitis wheezing. Leader: Rosa Rodríguez.
**Line 4**: Treatment of bronchiolitis in the hospitalized patient. High-flow oxygen therapy in the treatment of bronchiolitis. What is the ideal flow rate? Hypertonic saline solution in the treatment of bronchiolitis. Is it appropriate for all hospitalized patients? Leader: Rosa Rodríguez.
**Line 5**: Impact of admission for RSV bronchiolitis on families. European RSV outcomes study. Estudio EROS Study. ab 140103. Leader: Rosa Rodríguez.
**Line 6**: Evaluation of antiviral efficacy of Lumicitabine in children with respiratory syncytial virus infection. Leader: Rosa Rodríguez
**Line 5**: Needs for future pharmacoeconomic analysis of RSV vaccines: Assessing the burden of pediatric RSV disease and QALYs lost (Phase I: prospective study). Leaders: Rosa Rodríguez and Felipe González

**Axis 2: HIV infection**

**Line 1**: Study of the clinical characteristics, immunological-virological status, and associated comorbidities, including characteristics related to bone metabolism, cardiovascular system, and lipodystrophia, as well as antiretroviral treatment strategies in patients from CoRISpe (infected
newborns, adolescents, and young adults). Leader: María Luisa Navarro.
**Line 2**: Determination of the HIV reservoir, inflammatory status, immunosenescence, and immune function in pediatric patients, including intestinal microbiota and response to vaccines. Leader: María Luisa Navarro.
**Line 3**: Evaluation of the current situation and outcome of pediatric HIV/ HCV-coinfected patients. Liver function and response to treatment. Comparison with a cohort of HCV-monoinfected pediatric patients. Leader: María Luisa Navarro.

**Line 4**: FARO project of CoRISpe: Evaluation of vertically infected adolescents and young adults who have been transferred to adult units. Identify factors associated with loss to follow-up, morbidity, and mortality. Evaluation of stigma, quality of life, drug use, and sexual and reproductive health in these patients, compared with other populations (controls and a horizontal cohort). Leader: María Luisa Navarro.
**Line 5**: Evaluation of the results of neuroimaging and the neurocognitive profile of patients infected by HIV through vertical transmission. Evaluation of the quality of sleep in this population. Leader: María Luisa Navarro.
**Line 6**: Analysis of the clinical situation and development of perinatal comorbidities in exposed noninfected children and the epidemiological characteristics of recently diagnosed pediatric patients. Leader: María Luisa Navarro.
**Line 7:** Description and comparison of the characteristics of the different populations, mainly those in developing countries. Contribution of our data to cohorts from other countries. Evaluation of the virological parameters of HIV with respect to genotype and subtypes and resistance to antiretroviral drugs. Analysis and comparison of time trends in each of these areas between cohorts. Equatorial Guinea cohort. European cohort. Latin-American cohort. Leader: María Luisa Navarro.
**Line 8:** Activation and immunosenescence during the maturation of the immune system in children infected vertically with HIV. Leader: María Luisa Navarro.

**Axis 3: Tuberculosis**

**Line 1**: Determination of free cytokines in plasma and specific response to tuberculosis. Use as biomarkers in children with active disease and latent tuberculosis. Leader: Begoña Santiago.
**Line 2**: Determination of the use of diagnostic tests (tuberculin skin test, QuantiFERON, chest x-ray, CT, microscopy, culture, PCR) in an outbreak of pediatric tuberculosis in a primary school. Leader: Begoña Santiago.
**Line 3**: Pharmacokinetics (C max, area under the curve, time to maximum concentration) after administration of isoniazid (single daily dose of 10 mg/kg) in the study population, and its equivalent in neonates, infants aged 1-3 months, and infants aged 3-6 months. Leader: Begoña Santiago.
**Line 4**: Registration of cases of pediatric tuberculosis in Spain and description of clinical presentation, diagnosis, therapy, and outcome of cases of pediatric tuberculosis in hospitals belonging to the Spanish Network for the Study of Pediatric Tuberculosis. Leader: Begoña Santiago.
**Line 5**: Creation of a national collection of samples from pediatric patients with tuberculosis, storage in biobanks. Leader: Begoña Santiago.
**Line 6**: Prescription of antituberculosis medication in children in Spain (Phase I of the MAGISTRAL project) and drafting of a consensus document on prescription of antituberculosis drugs in children (Phase II of the MAGISTRAL project). Leader: Begoña Santiago.
**Line 7**: Determination of the sensitivity and specificity of the tuberculin skin test and IGRA in the diagnosis of nontuberculous mycobacterial peripheral adenitis in Spain and Europe. Leader: Begoña Santiago.
**Line 8**: Comparison of the efficacy of different therapeutic approaches (medical and surgical) to nontuberculous mycobacterial peripheral adenitis in children. Leader: Begoña Santiago.
**Line 9**: Evaluation of the efficacy and safety of treatment with linezolid against tuberculosis in the patient aged less than 18 years. Leader: Begoña Santiago.
**Line 10**: Evaluation of risk factors, capacity for contagion, and outcome after treatment of adult-type pulmonary TB in a cohort of children and adolescents with TB in a low-endemic country. Leader: Begoña Santiago.
**Line 11:** Development of a European database in children with pediatric tuberculosis to describe its clinical presentation, diagnosis, therapy, and outcome, as well as various diagnostic and therapeutic approaches throughout Europe. Leader: Begoña Santiago
**Line 12**: Description of the clinical presentation, diagnosis, therapy, and outcome of tuberculous meningitis in children in Europe Leader: Begoña Santiago.
**Line 13** ULTRATB-Xpert MTB/RIF Ultra for the diagnosis of paediatric TB in a low TB burden region. Leader: Begoña Santiago.
**Line 14**: Implementation of a computer-assisted tool for the diagnosis of pediatric tuberculosis (CAD4PTB). Leader: Begoña Santiago.

**Axis 4: Bone and joint infection in children**

**Line 1:** Clinical and epidemiological characterisitcs, laboratory data, and outcome in children with bone and joint infection. Leader: Jesús Saavedra.
**Line 2**: Etiología más frecuente de las IOA en niños y su repercusión en la presentación y evolución clínicas. Leader: Jesús Saavedra.
**Line 3**: Evaluation of the diagnostic and medical-surgical approach in children with bone and joint infections at the various collaborating centers. Leader: Jesús Saavedra.
**Line 4**: Study of predictors of severity and sequelae in children with bone and joint infections. Leader: Jesús Saavedra.

**Axis 5: Invasive infection by Group A Streptococcus**

**Line 1**: Evaluation of the incidence of invasive disease caused by group A Streptococcus over an 11-year period in the Autonomous Community of Madrid. Leader: Jesús Saavedra.
**Line 2**: Epidemiological, clinical, and analytical characteristics and outcome of children with invasive disease caused by group A Streptococcus Leader: Jesús Saavedra.
**Line 3**: Study of factors predicting severity in children with invasive disease caused by group A Streptococcus. Leader: Jesús Saavedra

**Line 4**: Study of factors predicting severity and sequelae in children with bone and joint infections. Leader: Jesús Saavedra

**Axis 6: Fever and neutropenia in the paediatric patient**

**Line 1**: Clinical characteristics, laboratory data, and outcome in children admitted with fever and neutropenia. Leader: Jesús Saavedra.

**Line 2**: Epidemiological characteristics and etiologic agents in children admitted with fever and neutropenia. Leader: Jesús Saavedra.

**Line 3**: Study of predictors of severity in children admitted with fever and neutropenia. Cytokine profile and proinflammatory response. Leader: Jesús Saavedra.

**Axis 7: Infections in the patient with sickle cell disease**

**Line 1**: Retrospective Study (RETRO-DREP): a) Determine the incidenceand epidemiological characteristics of infections in children with sickle cell disease in our setting. b) Determine the clinical characteristics and analytical parameters associated with a greater risk of presenting severe bacterial infection. c) Establish criteria for low risk of severe bacterial infection in order to select patients who could benefit from a more conservative approach. Leaders: Elena Rincón and Mª Luisa Navarro.

**Line 2**: Prospective Study (F-DREP): a) Determine the incidence of viral infections in children with sickle cell disease admitted with fever in our setting using multiplex PCR with nasopharyngeal exudate. b) Determine the profile of proinflammatory cytokine production in children with sickle cell disease according to the final diagnosis (viral or bacterial infection, vaso-occlusive crisis, other) and compare it with baseline production and c) Validate the criteria for low risk of severe bacterial infection proposed in the retrospective study. Leaders: Elena Rincón and Mª Luisa Navarro.

**Line 3**: Study of biomarkers of risk of severe bacterial infection in children with sickle cell disease and fever. Determination of the profile of pro-inflammatory cytokines and the role of multiple PCR for respiratory viruses. Leader: Elena

**Axis 8: Immunoprophylaxis in special populations**

**Line 1:** Vaccination in the patient undergoing immunosuppressive treatment. Leader: Mª Luisa Navarro

**Line 2**: Vaccination in patients undergoing TPH (hematopoietic progenitor transplantation). Leader: Mª Luisa Navarro

**Line 3**: Vaccination in patients undergoing TOS (solid organ transplantation**).** Leader: Mª Luisa Navarro

**Axis 9: Research plan in other prevalent infectious pathologies in healthy population and in the patient of high complexity**

**Line 1:** Study of invasive pneumococcal infection. Leaders: Felipe González y Teresa Hernández Sampelayo

**Line 2:** Role of viral respiratory co-infections and expression of transcriptional genomic profiles in the severity of pertussis in infants**.** Leader: Jesús Ruiz

**Line 3:** Congenital CMV infection. Leader: Jesús Saavedra and Mar Santos

**Line 4:** ZIKA Infection Network in Pregnancy and Newborns. Leaders: Mar Santos, Begoña Santiago and Marisa Navarro

**Line 5:** Pediatric Antifungal Optimization Program (POPA**).** Leaders: Teresa Hernández-Sampelayo and Begoña Santiago

**Line 6:** Kawasaki National Network (Kawa-RACE). Leaders: Mar Santos and Marisa Navarro

**Line 7:** Nosocomial infection control and restriction of the use of antibiotherapy in Pediatrics. RANNIN-KIDS**.** Leaders: Jesús Saavedra and David Aguilera

**Line 8:** Non-tuberculous mycobacterial infections (NTM) in Spain: clinical-epidemiological, microbiological and pathogenicity study. Leaders: Teresa Hernández-Sampelayo and Elena Rincón

**Line 9:** Infections after cardiac surgery. Leader: Jesús Saavedra

**Other lines**

**Line 1**: Zero pain in pediatric patients. Leaders: Blanca Toledo and Rosa Rodríguez.

**Line 2:** Analysis of readmissions in pediatric patients. Leaders: Jimena Pérez and Rosa Rodríguez.

**Line 3**: Factors of severity in asthma. Asthma and obesity. Leaders: Jimena Pérez and Rosa Rodríguez.

**Line 4**: Implementation of a pediatric telemedicine service in Lamu (Kenya) and Meki (Ethiopia). Leader: Rosa Rodríguez.

## *Group members*

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| AGUILERA | ALONSO | DAVID | R1 | First Stage Researcher n/a |
| CARRASCO | GARCÍA | ITZIAR | R1 | First Stage Researcher |
| DUEÑAS | MORENO | EVA | R1 | First Stage Researcher |
| GONZALEZ | MARTINEZ | FELIPE | R2 | Recognised Researcher |
| GONZALEZ | SANCHEZ | MARIA ISABEL | R1 | First Stage Researcher |
| HERNANDEZ | BARTOLOME | ANGEL | R2 | Recognised Researcher n/a |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| HERNÁNDEZ-SAMPELAYO | MATOS | TERESA | R3 | Established Researcher |
| HERNANZ | LOBO | ALICIA | R1 | First Stage Researcher |
| JIMENEZ | DE ORY | SANTIAGO | R2 | Recognised Researcher |
| NAVARRO | GÓMEZ | MARÍA LUISA | R4 | Leading Researcher |
| MOURE | ROMANO | ROBERTO | Other | Nursing |
| PEREZ | MORENO | JIMENA | R2 | Recognised Researcher |
| RETAMAL | MARTÍNEZ | ROCÍO | Other | Nursing |
| RINCON | LOPEZ | ELENA | R1 | First Stage Researcher |
| RODRIGUEZ | FERNANDEZ | ROSA MARIA | R3 | Established Researcher |
| SAAVEDRA | LOZANO | JESÚS | R3 | Established Researcher |
| SANTIAGO | GARCÍA | BEGOÑA | R3 | Established Researcher |
| SANTOS | SEBASTIAN | MAR | R1 | First Stage Researcher |
| TOLEDO | DEL CASTILLO | BLANCA | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica**. PI17/00711
DIRECTOR: SANTIAGO GARCIA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Anticuerpos frente a las proteínas G, PreF y PostF del virus respiratorio sincitial (VRS) en lactantes y respuesta inmune sistémica. Implicaciones para el desarrollo de vacunas**. PI16/00822
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Juan Rodés contract** JR16/00036
DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Río Hortega contract** CM18/00100
DIRECTOR: AGUILERA ALONSO, DAVID
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Young employement contract**: **Research**. PEJ-2017-AI/BMD-7405
DIRECTOR: SAAVEDRA LOZANO, JESÚS
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 13/12/2019

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| RETICS | Red de Investigación en SIDA | Asociated group |

| | | |
|---|---|---|
| Others (Scientific Societies Networks) | Red pediátrica para la prevención, diagnóstico precoz y tratamiento del VIH en niños. | Coordinator group |
| Others (Scientific Societies Networks) | Pediatric Tuberculosis Network European Trialsgroup | Coordinator group |
| Others (Scientific Societies Networks | Red Española de Estudio de la Tuberculosis pediátrica | Coordinator group |
| Others (Scientific Societies Networks) | Grupo de Estudio EREMITA (Estudio de Tuberculosis Resistente en Niños de la Comunidad de Madrid) | Coordinator group |
| Others (Scientific Societies Networks) | Estudio de la influencia genética en la infección grave en pediatría | Coordinator group |
| Others (Scientific Societies Networks) | RED de Infección Congénita por CMV | Coordinator group |
| Others (Scientific Societies Networks) | Pedatric European Network Treatment on AIDS | Coordinator group |
| Others (Scientific Societies Networks) | Estudio de la Infección Meningocócica | Coordinator group |
| Others (Scientific Societies Networks) | Pediatric infections Staphylococcus aureus meticilin resistence ESPID | Coordinator group |
| Others (Scientific Societies Networks) | Estudio de los aspectos neurocognitivos en la Cohorte de infección VIH Pediátrica | Coordinator group |
| Others (Scientific Societies Networks) | Red para el estudio de la enfermedad invasiva por SGA. | Coordinator group |
| Others (Scientific Societies Networks) | Red Nacional para el Estudio de la infección osteoarticular | Coordinator group |
| Others (Scientific Societies Networks) | Estudio Multicéntrico retrtospectivo y prospectivo de los factores epidemiológicos clínicos, analíticos y microbiológicos determinantes de la respuesta al tratamiento de la enfermedad de Kawasaki y el riesgo del desarrollo de aneurismas coronarios en niños menores de 14 años de nuestro medio . | Coordinator group |
| Others (Scientific Societies Networks) | Red europea de ZIKA | Coordinator group |
| Others (Scientific Societies Networks) | Red de Giardiasis pediátrica Nacional | Coordinator group |
| Others (Scientific Societies Networks) | Grupo de infecciones en drepanocitosis | Asociated group |
| Others (Scientific Societies Networks) | Red de Investigación Traslacional en Infecciones Pediátricas | Asociated group |
| Others (Scientific Societies Networks) | Red Nacional de estudio de Infección congénita por CMV | Asociated group |
| Others (Scientific Societies Networks) | Registro Nacional de casos de infección por ZIKA en el embarazo y recién nacido | Asociated group |
| Others (Scientific Societies Networks) | Sickle cell disease Pediatric Research about INfections Group | Coordinator group |

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | Julia Diaz Miravalls | Descripción de las neumonías adquiridas en la comunidad por Staphylococcus aureus en niños | David Aguilera Alonso | UCM | 01/06/2019 |
| | Jimena Perez Moreno | Papel de las celulas T-reguladoras en la alergia a proteínas de leche de vaca no IgE mediada en la infancia. | | UCM | 06/09/2019 |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| MARÍA LUISA NAVARRO GÓMEZ. Panel de expertos de la Sociedad Española de Infectología Pediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS) | **Documento de consenso sobre Tratamiento Antirretroviral en niños y adolescentes con infección por el virus de la inmunodeficiencia humana** | https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitarios/GuiasTARpie24may2019.pdf |
| MARÍA LUISA NAVARRO GÓMEZ. Panel de expertos de la Sociedad Española de InfectologíaPediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS) | **Guía de práctica clínica para el abordaje integral del adolescente con infección por el VIH** | https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitario |

| Authors | Title | Journal / Reference |
|---|---|---|
| | | s/GuiaCompletaAdolescentes_30abril19.pdf |
| David Aguilera-Alonso, Jesús Saavedra-Lozano | **Position Statement of the Spanish Association of Paediatrics-Spanish Society of Paediatric Infectious Diseases (AEP-SEIP) on the Treatment of Multidrug-Resistant Bacterial Infections** | David Aguilera-Alonso, Jesús Saavedra-Lozano |
| JESÚS SAAVEDRA. Panel de expertos de la Sociedad Española de Infectología Pediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS) | **Documento de consenso sobre Tratamiento Antirretroviral en niños y adolescentes con infección por el virus de la inmunodeficiencia humana** | |

## *Publications* *Total Impact Factor:* ***105.3***

| | Nº | FI |
|---|---|---|
| Own publications | 13 | 24.1 |
| Joint publications | 25 | 81.2 |
| First decile publications | 3 | 22.7 |
| First quartile publications | 8 | 44.7 |
| Second quartile publications | 14 | 36.4 |
| Third quartile publications | 12 | 18.2 |
| Fourth quartile publications | 4 | 6.0 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **41** | **105.3** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Chan, MK; Goodall, R; Judd, A; Klein, N; Chiappini, E; Klimkait, T; Ngo-Giang-Huong, N; Palma, P; Rossi, P; Thorne, C; Turkova, A; Zangari, P; Rojo, P; Babiker, AGA; Fraaij, PL; Pajkrt, D; Marques, L; Collins, IJ; Gibb, DM; Gonzalez-Tome, MI; Ramos, JT; Navarro, ML; Noguera-Julian, A; Warszawski, J; Konigs, C; Spoulou, V; Prata, F; Goetghebuer, T; Galli, L; Naver, L; Giaquinto, C; Marczynska, M; Okhonskaia, L; Malyuta, R; Volokha, A; Ene, L; Gibb, D; Watters, S; Chan, M; McCoy, L; Babiker, A; Marcelin, AG; Calvez, V; Munoz, MA; Wahren, B; Foster, C; Cotton, M; Robb, M; Ananworanich, J; Claiden, P; Pillay, D; Persaud, D; De Boer, RJ; Schroter, J; Anelone, AJN; Puthanakit, T; Ceci, A; Giannuzzi, V; Luzuriaga, K; Chomont, N; Cameron, M; Cancrini, C; Yates, A; Kuhn, L; Violari, A; Otwombe, K; Pepponi, I; Rocchi, F; Rinaldi, S; Tagarro, A; Lain, MG; Vaz, P; Lopez, E; Nhampossa, T; European Pregnancy Paediat HIV Coh; Early-Treated Perinatally. Predictors of faster virological suppression in early treated infants with perinatal HIV from Europe and Thailand The European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) and Early-treated Perinatally HIV-infected Individuals: Improving Chi. AIDS. 2019; 33(7) 1155-1165. FI: 4.511. Cuartil: 1. (Article).*

- *Crichton, S; Belfrage, E; Collins, IJ; Doerholt, K; Judd, A; Le Coeur, S; Spoulou, V; Goodall, R; Scherpbier, H; Smit, C; Goetghebuer, T; Gibb, DM; Noguera, A; Navarro, ML; Ramos, JT; Galli, L; Giaquinto, C; Thorne, C; Santa Ansone; Marczynska, M; Okhonskaia, L; de Tejada, BM; Jourdain, G; Decker, L; Ene, L; Hainaut, M; Van der Kelen, E; Delforge, M; de Martino, M; Tovo, PA; Patrizia, O; Larovere, D; Ruggeri, M; Faldella, G; Baldi, F; Badolato, R; Montagnani, C; Venturini, E; Lisi, C; Di Biagio, A; Taramasso, L; Giacomet, V; Erba, P; Esposito, S; Lipreri, R; Salvini, F; Tagliabue, C; Cellini, M; Bruzzese, E; Lo Vecchio, A; Rampon, O; Dona, D; Romano, A; Dodi, I; Maccabruni, A; Consolini, R; Bernardi, S; Kuekou, HT; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Gabiano, C; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijsenfeld, AM; de Boer, CG; Jurriaans, S; Back, NKT; Zaaijer, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; Vermont, CL; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriet, SSV; van de Flier, M; van Aerde, K; Strik-Albers, R; Rahamat-Langendoen, J; Stelma, FF; Scholvinck, EH; de Groot-de Jonge, H; Niesters, HGM; van Leer-Buter, CC; Knoester, M; Bont, LJ; Geelen, SPM; Wolfs, TFW; Nauta, N; Schuurman, R; Verduyn-Lunel, F; Wensing, AMJ; Reiss, P; Zaheri, S; Bezemer, DO; van Sighem, AI; Smit, C; Wit, FWMN; Hillebregt, M; de Jong, A; Woudstra, T; Bergsma, D; Grivell, S; Meijering, R; Raethke, M; Rutkens, T; de Groot, L; van den Akker, M; Bakker, Y; Bezemer, M; El Berkaoui, A; Geerlinks, J; Koops, J; Kruijne, E; Lodewijk, C; Lucas, E; van der Meer, R; Munjishvili, L; Paling, E; Peeck, B; Ree, C; Regtop, R; Ruijs, Y; van de Sande, L; Schoorl, M; Schnorr, P; Tuijn, E; Veenenberg, L; van der Vliet, S; Wisse, A; Witte, EC; Tuk, B; Popielska, J; Pokorska-Spiewak, M; Oldakowska, A; Zawadka, K; Coupland, U; Doroba, M; Voronin, E; Miloenko, M; Labutina, S; Soler-Palacin, P; Frick, MA; Perez-Hoyos, S; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Coll, M; Pineda, V; Rius, N; Rovira, N; Duenas, J; Gamell, A; Fortuny, C; Noguera-Julian, A; Mellado, MJ; Escosa, L; Hortelano, MG; Sainz, T; Gonzalez-Tome, MI; Rojo, P; Blazquez, D; Prieto, L; Guillen, S; Saavedra, J; Santos,*

*M; Munoz, MA; Ruiz, B; Mc Phee, CF; de Ory, SJ; Alvarez, S; Roa, MA; Beceiro, J; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Montesdeoca, A; Mateo, M; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Grande, A; Romero, FJ; Perez, C; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Perez, A; Piqueras, AI; Breton, R; Segarra, I; Gavilan, C; Jareno, E; Montesinos, E; Dapena, M; Alvarez, C; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; de Miguel, E; Naver, L; Soeria-Atmadja, S; Hagas, V; Aebi-Popp, K; Anagnostopoulos, A; Asner, S; Battegay, M; Baumann, M; Bernasconi, E; Boni, J; Braun, DL; Bucher, HC; Calmy, A; Cavassini, M; Ciuffi, A; Duppenthaler, A; Dollenmaier, G; Egger, M; Elzi, L; Fehr, J; Fellay, J; Francini, K; Furrer, H; Fux, CA; Grawe, C; Gunthard, HF; Haerry, D; Hasse, B; Hirsch, HH; Hoffmann, M; Hosli, I; Huber, M; Kahlert, CR; Kaiser, L; Keiser, O; Klimkait, T; Kottanattu, L; Kouyos, RD; Kovari, H; Ledergerber, B; Martinetti, G; de Tejada, BM; Marzolini, C; Metzner, KJ; Muller, N; Nicca, D; Paioni, P; Pantaleo, G; Perreau, M; Polli, C; Rauch, A; Rudin, C; Scherrer, AU; Schmid, P; Speck, R; Stockle, M; Tarr, P; Lecompte, MT; Trkola, A; Vernazza, P; Wagner, N; Wandeler, G; Weber, R; Wyler, CA; Yerly, S; Wannarit, P; Techakunakorn, P; Hansudewechakul, R; Wanchaitanawong, V; Theansavettrakul, S; Nanta, S; Ngampiyaskul, C; Phanomcheong, S; Hongsiriwon, S; Karnchanamayul, W; Kwanchaipanich, R; Kanjanavanit, S; Kamonpakorn, N; Nantarukchaikul, M; Layangool, P; Mekmullica, J; Lucksanapisitkul, P; Watanayothin, S; Lertpienthum, N; Warachit, B; Hanpinitsak, S; Potchalongsin, S; Thanasiri, P; Krikajornkitti, S; Attavinijtrakarn, P; Srirojana, S; Bunjongpak, S; Puangsombat, A; Na-Rajsima, S; Ananpatharachai, P; Akarathum, N; Lawtongkum, W; An, PK; Suriyaboon, T; Saipanya, A; Than-in-at, K; Jaisieng, N; Suaysod, R; Chailoet, S; Naratee, N; Kawilapat, S; Lyall, H; Bamford, A; Butler, K; Doherty, C; Foster, C; Francis, K; Harrison, I; Kenny, J; Klein, N; Letting, G; McMaster, P; Murau, F; Nsangi, E; Peters, H; Prime, K; Riordan, A; Shackley, F; Shingadia, D; Storey, S; Tudor-Williams, G; Turkova, A; Welch, S; Collins, IJ; Cook, C; Dobson, D; Fairbrother, K; Harper, L; Le Prevost, M; Van Looy, N; Butler, K; Walsh, A; Thrasyvoulou, L; Welch, S; Bernatoniene, J; Manyika, F; Sharpe, G; Subramaniam, B; Sloper, K; Fidler, K; Hague, R; Price, V; Clapson, M; Flynn, J; Abou-Rayyah, ACM; Klein, N; Shingadia, D; Gurtin, D; Yeadon, S; Segal, S; Ball, C; Hawkins, S; Dowie, M; Bandi, S; Percival, E; Eisenhut, M; Duncan, K; Clough, S; Anguvaa, L; Conway, S; Flood, T; Pickering, A; Murphy, PMC; Daniels, J; Lees, Y; Thompson, F; Williams, B; Pope, S; Cliffe, L; Smyth, A; Southall, S; Freeman, A; Freeman, H; Christie, S; Gordon, A; Clarke, DRL; Jones, L; Offerman, B; Greenberg, M; Benson, C; Riordan, A; Ibberson, L; Shackley, F; Faust, SN; Hancock, J; Doerholt, K; Prime, K; Sharland, M; Storey, S; Lyall, H; Monrose, C; Seery, P; Tudor-Williams, G; Menson, E; Callaghan, A; Bridgwood, A; McMaster, P; Evans, J; Blake, E; Yannoulias, A; European Pregnancy Paediat HIV Coh. Height and timing of growth spurt during puberty in young people living with vertically acquired HIV in Europe and Thailand. AIDS. 2019; 33(12) 1897-1910. FI: 4.511. Cuartil: 1. (Article).*

- *Moreno, JP; Navazo, SD; Arteta, ELH; Hernani, MT; Martinez, FG; Sanchez, MIG; Fernandez, RR. Influence of nutritional status on clinical outcomes in hospitalised children. ANALES DE PEDIATRIA. 2019; 90(2) 72-78. FI: 1.313. Cuartil: 3. (Article).*

- *Martinez, FG; Sanchez, MIG; del Castillo, BT; Moreno, JP; Munoz, MM; Jimenez, CR; Fernandez, RR. Treatment with high-flow oxygen therapy in asthma exacerbations in a paediatric hospital ward: Experience from 2012 to 2016. ANALES DE PEDIATRIA. 2019; 91(5) 296-306. FI: 1.313. Cuartil: 3. (Article).*

- *Fernandez, JA; Perez-Yarza, EG; Pena, MJM; de Liria, CG; Sampelayo, TH; Garcia, JJG; Contreras, JR; Perez, D; Llanos, E; Amador, JT; Eguiluz, CG; Hernandez, M; Aristegui, J; Garrote, E; Larrauri, A; Perez-Yarza, EG; Cilla, G; Unsain, M; Contreras, JR; Garcia-Ochoa, E; Gordillo, JC; Sampelayo, TH; Rodriguez, R; Gonzalez, F; Mellado, MJ; Calvo, C; Mendez, A; Bustamante, J; Salas, D; Lacasta, C; Ramos, JT; Illan, M; Mendez, M; Barjuan, M; Garcia, JJ; Urraca, S; Caballero, M; Launes, C; Rodrigo, C; Fabregas, A; Esmel, R; Anton, A; Moreno, D; Valdivielso, AI; Pinero, P; Carazo, B; Grp Estudio HOSPIGRIP. Child hospital admissions associated with influenza virus infection in 6 Spanish cities (2014-2016). ANALES DE PEDIATRIA. 2019; 91(6) 365-370. FI: 1.313. Cuartil: 3. (Article).*

- *Perez-Moreno, J; Leal-Barcelo, AM; Isidro, EM; Toledo-del Castillo, B; Gonzalez-Martinez, F; Gonzalez-Sanchez, M; Rodriguez-Fernandez, R. Detection of risk factors for preventable paediatric hospital readmissions. ANALES DE PEDIATRIA. 2019; 91(2) 80-87. FI: 1.313. Cuartil: 3. (Article).*

- *Aguilera-Alonso, D; Escosa-Garcia, L; Goycochea-Valdivia, WA; Soler-Palacin, P; Saavedra-Lozano, J; Rodrigo, C; Cercenado, E; Ramos, JT; Baquero-Artigao, F. Position statement of the Spanish Association of Paediatrics-Spanish Society of Paediatric Infectious Diseases (AEP-SEIP) on the treatment of multiple drug-resistant bacterial infections. ANALES DE PEDIATRIA. 2019; 91(2) 112-119. FI: 1.313. Cuartil: 3. (Article).*

- *Martinez, DM; Aguilera-Alonso, D; Mancebo, JG; Navarro, ML; Sampelayo, TH; Lopez, EMR; Santiago-Garcia, B; Saavedra-Lozano, J; Santos, M; Cercenado, E; Representation Grp Estudio Enferme. Invasive meningococcal disease in children and adults in a tertiary level hospital. Recent epidemiology and prognostic factors. ANALES DE PEDIATRIA. 2019; 91(5) 328-335. FI: 1.313. Cuartil: 3. (Article).*

- *del Castillo, BT; Torres, JAP; Sanchez, LM; Castellanos, ME; Fernandez, LE; Sanchez, MIG; Fernandez, RR. Reducing the pain in invasive procedures during paediatric hospital admissions: Fiction, reality or virtual reality?. ANALES DE PEDIATRIA. 2019; 91(5) -. FI: 1.313. Cuartil: 3. (Article).*

- *Martinez, FG; Sanchez, MIG; Perez-Moreno, J; del Castillo, BT; Fernandez, RR. What is the optimal flow on starting high-flow oxygen therapy for bronchiolitis treatment in paediatric wards?. ANALES DE PEDIATRIA. 2019; 90(2) 86-93. FI: 1.313. Cuartil: 3. (Article).*

- *Garcia Mancebo J; Aguilera-Alonso, D; Rincon-Lopez, EM; Navarro, ML. Imported Acute Histoplasmosis in an Adolescent with Suspected Lymphoproliferative Syndrome. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(6) 342-344. FI: 4.957. Cuartil: 1. (Article).*

- *Aguilera-Alonso, D; Santiago-Garcia, B; Mellado-Pena, MJ. Epidemiology of tuberculosis in Spain: Areas of improvement in epidemiological surveillance and contributions from the Spanish Network for the Study of Pediatric Tuberculosis. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(3) 176-182. FI: 1.654. Cuartil: 4. (Article).*

- *Velo-Higueras, C; Cuellar-Flores, I; Sainz-Costa, T; Navarro-Gomez, ML; Garcia-Navarro, C; Fernandez-McPhee, C; Ramirez, A; Bisbal, O; Blazquez-Gamero, D; Ramos-Amador, JT; Valencia-Ortega, E; Gonzalez-Tome, MI. Young adults and HIV. Awareness and risk behaviour of a group living in Spain. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(1) 68-69. FI: 1.654. Cuartil: 4. (Letter).*

- *Heinonen, S; Rodriguez-Fernandez, R; Diaz, A; Rodriguez-Pastor, SO; Ramilo, O; Mejias, A. Infant Immune Response to Respiratory Viral Infections. IMMUNOLOGY AND ALLERGY CLINICS OF NORTH AMERICA. 2019; 39(3) 361-. FI: 3. Cuartil: 3. (Article).*

- *Vigil-V?zquez, S; Butrague?o-Laiseca, L; L?pez-Gonz?lez, J; Garc?a-San Prudencio, M; Rinc?n-L?pez, E. A Case of Kawasaki Disease Presenting as Severe Myositis. INDIAN JOURNAL OF PEDIATRICS. 2019; 86(11) 1066-1067. FI: 1.508. Cuartil: 3. (Letter).*

- *Dominguez-Rodriguez, S; Tagarro, A; Palma, P; Foster, C; Puthanakit, T; Jupimai, T; Cotugno, N; Ananworanich, J; Zangari, P; Nastouli, E; Munoz-Fernandez, MA; Navarro, ML; Giaquinto, C; Rossi, P; Kuhn, L; Rojo, P; EPIICAL Consortium. Reduced Time to Suppression Among Neonates With HIV Initiating Antiretroviral Therapy Within 7 Days After Birth. JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES. 2019; 82(5) 483-490. FI: 3.475. Cuartil: 2. (Article).*

- *Ramilo, O; Rodriguez-Fernandez, R; Mejias, A. Respiratory Syncytial Virus, Rhinoviruses, and Recurrent Wheezing Unraveling the Riddle Opens New Opportunities for Targeted Interventions. JAMA PEDIATRICS. 2019; 173(6) 520-521. FI: 13.946. Cuartil: 1. (Editorial Material).*

- *Alvarez, M; Casas, P; de Salazar, A; Chueca, N; Guerrero-Beltran, C; Rodriguez, C; Imaz, A; Espinosa, N; Garcia-Bujalance, S; Perez-Elias, MJ; Garcia-Alvarez, M; Iribarren, JA; Santos, J; Aguilera, A; Vinuesa, D; Pierola, B; Molina, JM; Peraire, J; Portilla, I; Gomez-Sirvent, JL; Olalla, J; Galera, C; Blanco, JR; Riera, M; Garcia-Fraile, L; Navarro, G; Curran, A; Poveda, E; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; CoRIS. Surveillance of transmitted drug resistance to integrase inhibitors in Spain: implications for clinical practice. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1693-1700. FI: 5.439. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Solis-Garcia, G; Gonz?lez-Mart?nez, F; Urbiola, E; Carballo, JJ; Perez-Moreno, J; Rodr?guez-Fern?ndez, R; Moreno, D; Pina-Camacho, L. Cannabinoid hyperemesis in adolescents: A poorly diagnosed syndrome. JOURNAL OF PAEDIATRICS AND CHILD HEALTH. 2019; 55(10) 1264-1266. FI: 1.71. Cuartil: 3. (Editorial Material).*

- *Hufnagel, M; Versporten, A; Bielicki, J; Drapier, N; Sherland, M; Goossens, H; Calle, GM; Clark, J; Cooper, C; Blyth, CC; Francis, JR; Alsalman, J; Jansen, H; Mahieu, L; Van Rossom, P; Vandewal, W; Lepage, P; Blumental, S; Briquet, C; Robbrecht, D; Maton, P; Gabriels, P; Rubic, Z; Kovacevic, T; Nielsen, JP; Petersen, JR; Poorisrisak, P; Jensen, LH; Laan, M; Tamm, E; Matsinen, M; Rummukainen, ML; Gajdos, V; Olivier, R; Le Marechal, F; Martinot, A; Dubos, F; Lagree, M; Prot-Labarthe, S; Lorrot, M; Orbach, D; Pagava, K; Knuf, M; Schlag, SAA; Liese, J; Renner, L; Enimil, A; Awunyo, M; Syridou, G; Spyridis, N; Critselis, E; Kouni, S; Mougkou, K; Ladomenou, F; Gkentzi, D; Iosifidis, E; Roilides, E; Sahu, S; Murki, S; Malviya, M; Kalavalapalli, DB; Singh, S; Singhal, T; Garg, G; Garg, P; Kler, N; Soltani, J; Jafarpour, Z; Pouladfar, G; Nicolini, G; Montagnani, C; Galli, L; Esposito, S; Tenconi, R; Lo Vecchio, A; Dona, D; Giaquinto, C; Borgia, E; D'Argenio, P; De Luca, M; Centenari, C; Raka, L; Raka, D; Omar, A; Al-Mousa, H; Mozgis, D; Sviestina, I; Burokiene, S; Usonis, V; Tavchioska, G; Hargadon-Lowe, A; Zarb, P; Borg, MA; Lozano, CAG; Castanon, PZ; Cancino, ME; McCullagh, B; McCorry, A; Gormley, C; Al Maskari, Z; Al-Jardani, A; Pluta, M; Rodrigues, F; Brett, A; Esteves, I; Marques, L; AlAjmi, JA; Cambrea, SC; Rashed, AN; Al Azmi, AAM; Chan, SM; Isa, MS; Najdenov, P; Cizman, M; Unuk, S; Finlayson, H; Dramowski, A; Mate-Cano, I; Soto, B; Calvo, C; Santiago, B; Saavedra-Lozano, J; Bustinza, A; Escosa-Garcia, L; Ureta, N; Lopez-Varela, E; Rojo, P; Tagarro, A; Barrero, PT; Rincon-Lopez, EM; Abubakar, I; Aston, J; Patel, M; Russell, AB; Heginbothom, M; Satodia, P; Garbash, M; Johnson, A; Sharpe, D; Barton, C; Menson, E; Arenas-Lopez, S; Luck, S; Doerholt, K; McMaster, P; Caldwell, NA; Lunn, A; Drysdale, SB; Howe, R; Scorrer, T; Gahleitner, F; Gupta, R; Nash, C; Alexander, J; Raman, M; Bell, E; Rajagopal, V; Kohlhoff, S; Cox, E; Nichols, K; Zaoutis, T; ARPEC Project Grp. High Rates of Prescribing Antimicrobials for Prophylaxis in Children and Neonates: Results From the Antibiotic Resistance and Prescribing in European Children Point Prevalence Survey. JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY. 2019; 8(2) 143-151. FI: 2.212. Cuartil: 2. (Article).*

- *Bautista, F; Engelhard, D; Rizzari, C; Baka, M; Saavedra-Lozano, J; Lopez-Medina, E; Nasmyth-Miller, C; Hernandez-Sanchez, J; Sturm, S. Pharmacokinetics and Pharmacodynamics of Conventional-Dose vs Triple-Dose Oseltamivir in Severely Immunocompromised Children With Influenza. OPEN FORUM INFECTIOUS DISEASES. 2019; 6(10) -. FI: 3.656. Cuartil: 2. (Article).*

- *Rincon-Lopez, EM; Gomez, MLN; Matos, THS; Saavedra-Lozano, J; de la Red, YA; Ruperez, BH; de Julian, EC; Sebastian, MS; Garcia, BS; Morin, MG; Colino, CG; Bieler, CB; Aragones, JH; Fernandez, CM; RETRO-DREP Study Grp. Low-risk factors for severe bacterial infection and acute chest syndrome in children with sickle cell disease. PEDIATRIC BLOOD & CANCER. 2019; 66(6) -. FI: 2.355. Cuartil: 2. (Article).*

- *Tagarro, A; Del Valle, R; Dominguez-Rodriguez, S; Baquero-Artigao, F; Noguera-Julian, A; Vives-Onos, I; Santos, M; Hawkins, MM; Perez-Seoane, B; Medina, G; Rojo, P; Frick, MA; Alonso-Ojembarrena, A; Rives, MT; Sota, I; Moliner, E; Colino, E; Cilleruelo, MJ; Ramos, JT; Bustamante, J; Fortuny, C; Canete, A; Donoso, I; Pineiro, M; Suarez, S; Blazquez-Gamero, D; Spanish Registry Infants. Growth Patterns in Children With Congenital Cytomegalovirus Infection. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(12) 1230-1235. FI: 2.126. Cuartil: 2. (Article).*

- *Mejias, A; Rodriguez-Fernandez, R; Peeples, ME; Ramilo, O. Respiratory Syncytial Virus Vaccines Are We Making Progress?. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(3) 263-267. FI: 2.126. Cuartil: 2. (Article).*

- *Vives-Onos, I; Codina-Grau, MG; Noguera-Julian, A; Blazquez-Gamero, D; Fortuny, C; Baquero-Artigao, F; Frick, MA; Saavedra-Lozano, J; Goycochea-Valdivia, W; Rives-Ferreiro, MT; Montesdeoca-Melian, A; Calavia-Garsaball, O; Ferreras-Antolin, L; Marin-Soria, JL; Dulin-Iniguez, E; Soler-Palacin, P; REDICCMV Study Grp. Is Polymerase Chain Reaction in Neonatal Dried Blood Spots Reliable for the Diagnosis of Congenital Cytomegalovirus Infection?. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(11) 1131-1137. FI: 2.126. Cuartil: 2. (Article).*

- *Prieto, LM; Santiago, B; del Rosal, T; Carazo, B; Jimenez, AB; Perez-Gorricho, B; Rubio, F; Tagarro, A; Blazquez-Gamero, D; Moreno-Perez, D; Mellado, MJ; Baquero-Artigao, F; Spanish Paediat TB Res Network. Linezolid-containing Treatment Regimens for Tuberculosis in Children. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(5) 520-524. FI: 2.126. Cuartil: 2. (Article).*

- *Blazquez-Gamero, D; Soriano-Ramos, M; Martinez de Aragon, A; Baquero-Artigao, F; Frick, MA; Noguera-Julian, A; Alonso-Ojembarrena, A; Moliner Calderon, E; Rives Ferreiro, MT; Filgueira Posse, A; Garrote Llanos, E; Sota Busselo, I; Santos, M; Tagarro Garcia, A; Bustamante, J; Soler-Palacin, P; Fortuny Guasch, C; Rojo Conejo, P; Gonzalez, L; Ortiz, A; Rodriguez, DJ; Saavedra-Lozano, J; Breciano, FA; Reigosa, BA; Lahoz, R; Tur, JB; Beceiro, J; Espuny, XB; Garsaball, OC; Gallego, BC; Carrasco, J; Vilella, LC; Cilleruelo, MJ; Gil, EC; Lletget, WC; Sanchez, AC; Perez, IC; del Rosal, T; Martin, RD; Garcia, LE; del Alamo, CFG; Antolin, LF; del Rio, PG; Garcia, MJG; Epalza, C; Moraleda, C; Fernandez-Cooke, E; Prieto, L; Tejada, AMG; Jimenez, AB; Lopez, NJ; Martin, IL; Llorente, M; Claros, AFM; Ruiz, AM; Mendez, M; Martin, MM; Melian, AM; Zuriarrain, OM; Olabarrieta, I; Cid, LP; Pinillos, R; Porta, R; Cuello, FP; Aguirre, JMR; Pintos, PS; Mateos, MS; Santiago, B; Saavedra, J; Sanchez, BS; Barrero, PT; Restifo, GV; Gonzalez, JV; Onos, IV; Dapena, M; Perez, SH; Cepillo, A; Spanish Registry Infants. Role of Magnetic Resonance Imaging and Cranial Ultrasonography in Congenital Cytomegalovirus Infection. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(10) 266-269. FI: 2.126. Cuartil: 2. (Editorial Material).*

- *Fernandez-Cooke, E; Tascon, AB; Sanchez-Manubens, J; Anton, J; Lozano, CDG; Santos, JA; Pinto, EV; Garulo, DC; Rodriguez, BM; Alonso, MB; Cuadros, EN; Gomez, MLN; Dominguez-Rodriguez, S; Calvo, C; Perez, DM; Cantero, MM; Gallego, BC; Campos, LIM; Garcia, FS; Lovillo, MC; Marques, R; Neth, O; Silveira, LF; Forte, MS; Montes, AO; Mancheno, BB; Camacho, M; Claros, AFM; Salido, C; Cruz, RC; Rico, MT; Hernandez, MAT; Guzman, EG; Marin, MJA; Aguirre, JR; Cruz, MJL; Carrasco, KM; Gonzalez, MR; Jover, EB; Lopez, AR; Fernandez, JU; Alcalde, MMI; Collado, P; Laleona, CG; Montanes, LJ; Casas, AA; Zapico, BM; Mendez, CP; Aracama, JF; Rodriguez, L; Fernandez, MAI; Campo, SN; Bori, SE; Perello, MCM; Sanchez, MAD; Garcia, PA; Briales, C; Crespi, JC; Gil, MEC; Cabrera, ND; Naranjo, AB; Paez, JP; Yanez, MG; Garcia, MG; Bezanilla, EP; Montero, BJ; Garcia, OD; Pinedo, BL; Martin, GI; Gomez, LME; Cepillo, A; Lillo, M; Buedo, MI; del Rey, L;*

*Rodriguez, EU; Rodriguez, SR; Cantero, T; Izquierdo, BP; Alvarez, LGC; Erroz, IO; Santaolalla, EP; Martin, CA; Malfaz, FC; Gutierrez, EP; Casso, MJ; Prada, F; Bou, R; Iglesias, E; Calzada, J; Garsaball, OC; Rue, MT; Garcia, GG; Ruiz, SY; Lobato, Z; Gordillo, NR; Torres, MP; Hernandez, MM; Garcia, L; Villar, SF; Domingo, LM; Ballester, A; Miralles, A; Soler, BP; Vidal, AF; Castellvi, PS; Aguiar, AS; Rodriguez, JMS; Iranzo, AS; Perez, RA; Cajas, PR; Jornet, PGI; Tejada, AG; Zarallo, C; Martinon-Torres, F; Calle, IR; Grande, AJ; Saez, BR; Sousa, ML; Vilas, AS; Abe, BL; Esteban, ED; Mendez, BR; Blazquez, D; Conejo, PR; Tome, MG; Lozano, CG; Toral, B; De la Torre, LA; de Inocencio, J; Santos, M; de la Pena, RDD; Ramos, PC; Tagarro, A; Raga, T; Latorre, L; Guillen, S; Caballero, IC; Tato, LMP; Monagas, MFG; Lopez, IJ; Villagra, S; Arreo, V; Perez, RP; de la Parte, M; Tamariz-Martes, A; Romano, ML; Ruperez, BH; Martin, SR; Sombrero, HR; Cerro, EG; Cano, IM; Alonso, MV; Marco, MPO; Veron, JJ; Mesa, MDR; Esteban, SR; Amador, JTR; Menchen, CG; Jimenez, AB; Galan, P; Campos, DP; Bueno, MM; Marcos, DC; Barasoain, EOD; Giraldo, WAS; Gamir, ML; Ortega, MJC; Lopez, A; Vaquerizo, CS; Carrasco, AIU; Gomez, EM; Colom, JC; del Castillo, OC; Menendez, BD; Navarro, KB; Baquero, F; Bronte, LD; Fraga, PF; Dominguez, N; Garcia, FC; Romero, EV; Chamorro, AH; Rodriguez, PA; Garcia, MS; Nicolas, MCR; Nicolas, AL; Oloron, PM; Cilveti, BR; Berridi, A; Vazquez, LSD; Fernandez, O; Tamarit, AP; Calvo, I; Lopez, B; Fernandez, MIG; Otero, MC; Oltra, M; Archiles, MD; Sanchez, P; Gavilan, C; Fos, II; Robles, MIS; Sanchez, YH; KAWA-RACE Study Grp. Epidemiological and clinical features of Kawasaki disease in Spain over 5 years and risk factors for aneurysm development. (2011-2016): KAWA-RACE study group. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

- *Asensi, V; Jarrin, I; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; De la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustin-Duy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Sanvisens, A; Fuster, D; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Arazo, P; Samperiz, G; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Curran, A; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ugarte, SI; Beneitez, OLF; de Munain, JL; Lopez, MMC; de la Pena, M; Lopez, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Anguita, CG; Rabasa, JTA; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS Cohort. Choice of the initial antiretroviral treatment for HIV-positive individuals in the era of integrase inhibitors. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Jiménez de Ory S; Ramos JT; Fortuny C; González-Tomé MI; Mellado MJ; Moreno D; Gavilán C; Menasalvas AI; Piqueras AI; Frick MA; Muñoz-Fernández MA; Navarro ML; CoRISpe Cohort Working Group. Sociodemographic changes and trends in the rates of new perinatal HIV diagnoses and transmission in Spain from 1997 to 2015. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Guillen, S; Prieto, L; de Ory, SJ; Gonzalez-Tome, MI; Rojo, P; Navarro, ML; Mellado, MJ; Escosa, L; Sainz, T; Francisco, L; Munoz-Fernandez, MA; Ramos, JT; Hortelano, MG; Blazquez, D; Epalza, C; Saavedra, J; Santos, M; Munoz, MA; Santiago, B; Carrasco, I; Roa, MA; Beceiro, J; Penin, M; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Peromingo, E; Montero, M; Grande, A; Romero, FJ; Perez, C; Martinez, M; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Vila, L; Calvino, C; Piqueras, AI; Breton, R; Oltra, M; Lopez, E; Segarra, I; Gavilan, C; Montesinos, E; Dapena, M; Alvarez, C; Jimenez, B; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; del Prado, YR; Soler-Palacin, P; Frick, MA; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Pineda, V; Rius, N; Duenas, J; Fortuny, C; Noguera-Julian, A; CoRISpe Cohorte Nacl VIH Pediat RE. Prognostic factors of a lower CD4/CD8 ratio in long term viral suppression HIV infected children. PLOS ONE. 2019; 14(10) -. FI: 2.74. Cuartil: 2. (Article).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian,*

*F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Ramos, JT; Romero, CA; Belda, S; Candel, FJ; Gallego, BC; Fernandez-Polo, A; Antolin, LF; Colino, CG; Navarro, ML; Neth, O; Olbrich, P; Rincon-Lopez, E; Contreras, JR; Soler-Palacin, P; Spanish Soc Paediatric Infect Dis; Traslational Res Network Pediat In. Clinical practice update of antifungal prophylaxis in immunocompromised children. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(5) 410-425. FI: 1.132. Cuartil: 4. (Review).*

- *Wang, XZ; Nijman, R; Camuzeaux, S; Sands, C; Jackson, H; Kaforou, M; Emonts, M; Herberg, JA; Maconochie, I; Carrol, ED; Paulus, SC; Zenz, W; Van der Flier, M; de Groot, R; Schlapbach, LJ; Pollard, AJ; Fink, C; Kuijpers, TT; Anderson, S; Lewis, MR; Levin, M; McClure, M; Gormley, S; Hamilton, S; Hourmat, B; Hoggart, C; Sancho-Shimizu, V; Wright, V; Abdulla, A; Agapow, P; Bartlett, M; Bellos, E; Eleftherohorinou, H; Galassini, R; Inwald, D; Mashbat, M; Menikou, S; Mustafa, S; Nadel, S; Rahman, R; Thakker, C; Coin, LMJ; Bokhand, S; Power, S; Barham, H; Pathan, N; Ridout, J; White, D; Thurston, S; Faust, S; Patel, S; McCorkell, J; Davies, P; Crate, L; Navarra, H; Carter, S; Ramaiah, R; Patel, R; Tuffrey, C; Gribbin, A; McCready, S; Peters, M; Hardy, K; Standing, F; O'Neill, L; Abelake, E; Deep, A; Nsirim, E; Willis, L; Young, Z; Royad, C; White, S; Fortune, PM; Hudnott, P; Gonzalez, FA; Barral-Arca, R; Cebey-Lopez, M; Curras-Tuala, MJ; Garcia, N; Vicente, LG; Gomez-Carballa, A; Rial, JG; Beiroa, AG; Grande, AJ; Iglesias, PL; Santos, AEM; Martinon-Torres, F; MartinonTorres, N; Sanchez, JMM; Gutierrez, BM; Perez, BM; Pacheco, PO; Pardo-Seco, J; Pischedda, S; RiveroCalle, I; Rodriguez-Tenreiro, C; Redondo-Collazo, L; Ellacuriagal, AS; Fernandez, SS; Silva, MDSP; Vega, A; Trillo, LV; Salas, A; Reyes, SB; Leon, MCL; Mingorance, AN; Barrios, XG; Vergara, EO; Torre, AC; Vivanco, A; Fernandez, R; Sanchez, FG; Forte, MS; Rojo, P; Contreras, JR; Palacios, A; Ibarrondo, CE; Cooke, EF; Navarro, M; Alvarez, CA; Lozano, MJ; Carreras, E; Sanagustin, SB; Neth, O; Padilla, MDCM; Tato, LMP; Guillen, S; Silveira, LF; Moreno, D; van Furth, AMT; Boeddha, NP; Driessen, GJA; Emonts, M; Hazelzet, JA; Pajkrt, D; Sanders, EAM; Van De Beek, D; van der Ende, A; Philipsen, HLA; Adeel, AOA; Breukels, MA; Brinkman, DMC; de Korte, CCMM; de Vries, E; de Waal, WJ; Dekkers, R; Dings-Lammertink, A; Doedens, RA; Donker, AE; Dousma, M; Faber, TE; Gerrits, GPJM; Gerver, JAM; Heidema, J; Homan-van der Veen, J; Jacobs, MAM; Jansen, NJG; Kawczynski, P; Klucovska, K; Kneyber, MCJ; Koopman-Keemink, Y; Langenhorst, VJ; Leusink, J; Loza, BF; Merth, IT; Miedema, CJ; Neeleman, C; Noordzij, JG; Obihara, CC; van Overbeek-van Gils, ALT; Poortman, GH; Potgieter, ST; Potjewijd, J; Rosias, PPR; Sprong, T; ten Tussher, GW; Thio, BJ; Tramper-Stranders, GA; van Deuren, M; van der Meer, H; van Kuppevelt, AJM; van Wermeskerken, AM; Verwijs, WA; Wolfs, TFW; Agyeman, P; Aebi, C; Giannoni, E; Stocker, M; Posfay-Barbe, KM; Heininger, U; Bernhard-Stirnemann, S; Niederer-Loher, A; Kahlert, C; Hasters, P; Relly, C; Baer, W; Berger, C; Frederick, H; Jennings, R; Johnston, J; Kenwright, R; Pinnock, E; Agbeko, R; Secka, F; Bojang, K; Sarr, I; Kebbeh, N; Sey, G; Momodou, SK; Cole, F; Thomas, G; Antonio, M; Klobassa, DS; Binder, A; Schweintzger, NA; Sagmeister, M; Baumgart, H; Baumgartner, M; Behrends, U; Biebl, A; Birnbacher, R; Blanke, JG; Boelke, C; Breuling, K; Brunner, J; Buller, M; Dahlem, P; Dietrich, B; Eber, E; Elias, J; Emhofer, J; Etschmaier, R; Farr, S; Girtler, Y; Grigorow, I; Heimann, K; Ihm, U; Jaros, Z; Kalhoff, H; Kaulfersch, W; Kemen, C; Klocker, N; Koster, B; Kohlmaier, B; Komini, E; Kramer, L; Neubert, A; Ortner, D; Pescollderungg, L; Pfurtscheller, K; Reiter, K; Ristic, G; Rodl, S; Sellner, A; Sonnleitner, A; Sperl, M; Stelzl, W; Till, H; Trobisch, A; Vierzig, A; Vogel, U; Weingarten, C; Welke, S; Wimmer, A; Wintergerst, U; Wuller, D; Zaunschirm, A; Ziuraite, I; Zukovskaja, V; EUCLIDS Consortium. Plasma lipid profiles discriminate bacterial from viral infection in febrile children. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Borghini, L; Png, E; Binder, A; Wright, VJ; Pinnock, E; de Groot, R; Hazelzet, J; Emonts, M; Van der Flier, M; Schlapbach, LJ; Anderson, S; Secka, F; Salas, A; Fink, C; Carrol, ED; Pollard, AJ; Coin, LJ; Kuijpers, TW; Martinon-Torres, F; Zenz, W; Levin, M; Hibberd, ML; Davila, S; Gormley, S; Hamilton, S; Herberg, J; Hourmat, B; Hoggart, C; Kaforou, M; Sancho-Shimizu, V; Abdulla, A; Agapow, P; Bartlett, M; Bellos, E; Eleftherohorinou, H; Galassini, R; Inwald, D; Mashbat, M; Menikou, S; Mustafa, S; Nadel, S; Rahman, R; Thakker, C; Bokhandi, S; Power, S; Barham, H; Pathan, N; Ridout, J; White, D; Thurston, S; Faust, S; Patel, S; McCorkell, J; Davies, P; Cratev, L; Navarra, H; Carter, S; Ramaiah, R; Patel, R; Tuffrey, C; Gribbin, A; McCready, S; Peters, M; Hardy, K; Standing, F; O'Neill, L; Abelake, E; Deep, A; Nsirim, E; Willis, L; Young, Z; Royad, C; White, S; Fortune, PM; Hudnott, P; Gonzalez, FA; Barral-Arca, R; Cebey-Lopez, M; Curras-Tuala, MJ; Garcia, N; Vicente, LG; Gomez-Carballa, A; Rial, JG; Beiroa, AG; Grande, AJ; Iglesias, PL; Santos, AEM; Martinon-Torres, N; Sanchez, JMM; Perez, BM; Pacheco, PO; Pardo-Seco, J; Pischedda, S; Calle, IR; Rodriguez-Tenreiro, C; Redondo-Collazo, L; Fernandez, SS; Silva, MDP; Vega, A; Reyes, SB; Leon, MCL; Mingorance, AN; Barrios, XG; Vergara, EO; Torre, AC; Vivanco, A; Fernandez, R; Sanchez, FG; Forte, MS; Rojo, P; Contreras, JR; Palacios, A; Navarro, M; Alvarez, CA; Lozano, MJ; Carreras, E; Sanagustin, SB; Neth, O; Padilla, MDM; Tato, LMP; Guillen, S; Silveira, LF; Moreno, D; van Furth, AMT; van der Flier, M; Boeddha, NP; Driessen, GJA; Pajkrt, D; Sanders, EAM; van de Beek, D; van der Ende, A; Philipsen, HLA; Adeel, AOA; Breukels, MA; Brinkman, DMC; de Korte, CCMM; de Vries, E; de Waal, WJ; Dekkers, R; Dings-Lammertink, A; Doedens, RA; Donker, AE; Dousma, M; Faber, TE; Gerrits, GPJM; Gerver, JAM; Heidema, J; Homan-van der Veen, J; Jacobs, MAM; Jansen, NJG; Kawczynski, P; Klucovska, K; Kneyber, MCJ; Koopman-Keemink, Y; Langenhorst, VJ; Leusink, J; Loza, BF; Merth, IT; Miedema, CJ; Neeleman, C; Noordzij, JG; Obihara, CC; van Overbeek-van Gils, ALT; Poortman, GH; Potgieter, ST; Potjewijd, J; Rosias, PPR; Sprong, T; ten Tussher, GW; Thio, BJ; Tramper-Stranders, GA; van Deuren, M; van der Meer, H; van Kuppevelt, AJM; van Wermeskerken, AM; Verwijs, WA; Wolfs, TFW; Agyeman, P; Aebi, C; Berger, C; Giannoni, E; Stocker, M; Posfay-Barbe, KM; Heininger, U; Bernhard-*

*Stirnemann, S; Niederer-Loher, A; Kahlert, C; Hasters, P; Relly, C; Baer, W; Paulus, S; Frederick, H; Jennings, R; Johnston, J; Kenwright, R; Agbeko, R; Bojang, K; Sarr, I; Kebbeh, N; Sey, G; Saidykhan, M; Cole, F; Thomas, G; Antonio, M; Walcher, W; Geishofer, G; Klobassa, D; Martin, M; Pfurtscheller, K; Reiter, K; Rodl, S; Zobel, G; Zohrer, B; Topke, B; Fucik, P; Gabriel, M; Penzien, JM; Diab, G; Miething, R; Deeg, KH; Hammer, J; Varnholt, V; Schmidt, A; Bindl, L; Sillaber, U; Huemer, C; Meier, P; Simic-Schleicher, G; Markart, M; Pfau, E; Broede, H; Ausserer, B; Kalhoff, H; Arpe, V; Schweitzer-Krantz, S; Kasper, JM; Loranth, K; Bittrich, HJ; Simma, B; Klinge, J; Fedlmaier, M; Weigand, N; Herting, E; Grube, R; Fusch, C; Gruber, A; Schimmel, U; Knaufer-Schiefer, S; Lassig, W; Hennenberger, A; von der Wense, A; Tillmann, R; Schwarick, J; Sitzmann, FC; Streif, W; Muller, H; Kurnik, P; Groneck, P; Weiss, U; Groblacher-Roth, H; Bensch, J; Moser, R; Schwarz, R; Lenz, K; Hofmann, T; Gopel, W; Schulz, D; Berger, T; Hauser, E; Forster, KM; Peters, J; Nicolai, TH; Kumlien, B; Beckmann, R; Seitz, C; Huseman, D; Schurmann, R; Ta, VH; Weikmann, E; Evert, W; Hautz, J; Seidenberg, J; Wocko, L; Luigs, P; Reiter, HL; Quietzach, J; Konig, M; Herrmann, J; Mitter, H; Seidler, E; Maak, B; Sperl, W; Zwiauer, K; Meissl, M; Koch, R; Cremer, M; Breuer, HA; Gorke, W; Nossal, R; Pernice, W; Brangenberg, R; Salzer, HR; Koch, H; Schaller, G; Paky, F; Strasser, F; Eitelberger, F; Sontheimer, D; Lischka, A; Kronberger, M; Dilch, A; Scheibenpflug, C; Bruckner, R; Mahler, K; Runge, K; Kunze, W; Schermann, P; EUCLIDS Consortium. Identification of regulatory variants associated with genetic susceptibility to meningococcal disease. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Picazo, JJ; Ruiz-Contreras, J; Casado-Flores, J; Negreira, S; Baquero-Artigao, F; Hernandez-Sampelayo, T; Otheo, E; del Amo, M; Mendez, C; Ramos, JT; Betriu, C; Culebras, E; Gonzalez, F; Rodriguez-Avial, I; Ruiz-Contreras, J; Negreira, S; Orellana, MA; Delgado-Iribarren, A; Bueno, M; Alhambra, A; Garcia, MT; Gonzalez, MJ; Cobos, J; Baquero, F; Garcia, A; Casado, J; Hernandez, B; Zafra, M; Jaqueti, J; Calvo, C; Wilhelmi, I; Serrano, C; Garcia-Penuela, E; Cercenado, E; Hernandez-Sampelayo, T; Otheo, E; Ruiz, P; Dominguez, N; Gadea, I; Romero, I; Gomez-Garces, JL; Roa, MA; Ruiz, M; Cacho, J; Garcia-Picazo, ML; Gallego, S; Cilleruelo, MJ; Sanchez, MI; Penin, M; Gomez, P; Salso, S; Corcino, M; Rodriguez, A; Clemente, J; Ruibal, JL; Agundez, B; Canete, A; Garcia-Vao, C; Sanchez, A; Sanz, JC; Mendez, C; del Amo, M; Balseiro, C; Samaniego, ML; Heracles Study Grp. Impact of 13-valent pneumococcal conjugate vaccination on invasive pneumococcal disease in children under 15 years old in Madrid, Spain, 2007 to 2016: The HERACLES clinical surveillance study. VACCINE. 2019; 37(16) 2200-2207. FI: 3.143. Cuartil: 2. (Article).*

- *Cuellar-Flores, I; Sainz, T; Velo, C; Gonzalez-Tome, MI; Garcia-Navarro, C; Fernandez-Mcphee, C; Guillen, S; Ramos, JT; Miralles, P; Rubio, R; Bernardino, JI; Prieto, L; Roje, P; de Ory, SJ; Navarro, ML; CoRiSpe FARO Project; NeuroCoRISpeS Project; RITIP-Traslational Res Network Ped. Impact of HIV on the health-related quality of life in youth with perinatally acquired HIV. WORLD JOURNAL OF PEDIATRICS. 2019; 15(5) 492-498. FI: 1.437. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Alcalde, MDI; Asenjo, LC; Rey, CC; Maranes, FGM; Gamero, DB; Lozano, JS; Gomez, MLN; Matos, THS; Sebastian, MS. Characteristics and Disease Course in a Cohort of Children With PFAPA Syndrome in the Community of Madrid, Spain. REUMATOLOGIA CLINICA. 2019; 15(6) 355-359. (Article).*

***Other publications***

- *Aguilera-Alonso, D; Ruiz, RL; Rubiano, JC; Garcia, MM; Garcia, IV; Mochon, MDO; Sanchis, EM. Epidemiological and clinical analysis of community-acquired Mycoplasma pneumonia in children from a Spanish population, 2010-2015. ANALES DE PEDIATRIA. 2019; 91(1) 21-29. FI: 1.313. Cuartil: 3. (Article).*

- *Morell García M; Ros Flores A.; Bayo Pérez A.; Sarrión Sos N.; Aguilera-Alonso D. Nefrocalcinosis, un hallazgo casual, pero un signo guía. REVISTA PEDIATRÍA ATENCIÓN PRIMARIA. 2019; -. (Article).*

# AREA 6 TRASLATIONAL ONCOLOGY

Area Coordinator: **Miguel Martín Jiménez**

The general research objective in the Area of Oncology in the IiSGM is to generate reliable and scientifically relevant data on the personalized treatment of cancer. This objective is met through high-quality translational research that enables the selection of the antitumor treatment with the most options for cure, the least toxicity, and the fewest adverse effects.

Therapy is based on the patient's genetic/molecular profile (pharmacogenetics) and on the tumor profile (pharmacogenomics). Appropriate selection of patients with cancer for the sophisticated antitumor therapy available at our center (targeted medical therapy, high-definition radiotherapy, cell therapy, hematopoietic stem cell transplant) ensures the ideal choice for each patient. The work carried out in the Area also includes the study of hereditary/familial cancer syndromes and other situations with a high risk of cancer in which various interventions are effective for reducing the probability of the disease occurring.

## GROUPS IN AREA 6

6.01 Interdisciplinary oncology and biotechnology
6.02 Translational medical oncology and personalized cancer therapy
6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
6.04 Surgical oncology

# 6.01 Interdisciplinary oncology and biotechnology

Group Director: **Felipe Calvo Manuel**
Organisms involved: **HGUGM**
**Consolidated Group**



## Rerearch lines

**Axis 1: High-precision radiotherapy (intraoperative radiotherapy)**
L1.Stereotactic surgical navigation.
L2.In vivo dosimetry guided by 3D printing.
L3.Mobile miniature linear accelerator: pre-robotization and automation.
**Axis 2: Biological response in oncology**
L1.Post-radiochemotherapy response.
L2.Biological dosimetry: chromosomal liquid biopsy.
L3.Post-neoadjuvant radioresistance and radiosensitivity.
L4.Oncologic bioimaging and response.
**Axis 3: Oligocancer**
L1. Radiosurgical rescue.
L2.Staging by functional imaging.
L3.Proton therapy: clinical models.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ALONSO | FARTO | JUAN CARLOS | | Postdoctoral |
| ÁLVAREZ | GONZÁLEZ | ANA | | Predoctoral |
| ÁLVAREZ | FERNÁNDEZ | EMILIO | | |
| AYALA | LÁZARO | RAFAEL | | Predoctoral |
| BLANCO | RODRÍGUEZ | JOSÉ | | Predoctoral |
| CALÍN | LORCA | ANA | | Predoctoral |
| CALVO | MANUEL | FELIPE ÁNGEL | | Senior researcher |
| CUERVO | DEHESA | MIGUEL ANGEL | | Predoctoral |
| DE INGUNZA | BARON | LOURDES | | |
| DE MIGUEL | CAMPOS | ENRIQUE | | |
| DEL VALLE | HERNÁNDEZ | EMILIO | | Predoctoral |
| GARCÍA | HERNÁNDEZ | MARÍA JESÚS | | Predoctoral |
| GÓMEZ | ESPÍ | MARINA | | Postdoctoral |
| GÓMEZ | CORES | SUSANA | | Predoctoral |
| GONZÁLEZ | SAN SEGUNDO | CARMEN | | Postdoctoral |
| LÓPEZ | BOTE | MIGUEL ÁNGEL | | Predoctoral |
| LOZANO | BARRIUSO | MIGUEL ANGEL | | Predoctoral |
| MEDIAVILLA | SANTOS | LYDIA | | |
| MORENO | DOMENE | MERCEDES | | Predoctoral |
| MUÑOZ | FERNANDEZ | MERCEDES | | |
| OCHANDIANO | CAICOYA | SANTIAGO | | |
| ORCAJO | RINCÓN | JAVIER | | |
| PELIGROS | GÓMEZ | MARÍA ISABEL | | Postdoctoral |
| PRIETO | RODRIGUEZ | MARIA JESUS | | |
| RAMON | BOTELLA | ENRIQUE | | |
| RODRÍGUEZ | MARTÍN | MARCOS | | Predoctoral |
| ROTGER | REGÍ | AMANDA | | |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| RUIZ | GALAN | GEMA | | |
| SERRANO | ANDREU | FRANCISCO JAVIER | | Postdoctoral |
| SIERRA | DÍAZ | FERNANDO | | Predoctoral |
| SOLE | PESUTIC | CLAUDIO VICENTE | | Postdoctoral |
| TOUSIDONIS | RIAL | MANUEL ALEJANDRO | | |

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | CIBERSAM | Collaborating group |

## Publications

Total Impact Factor: **82.7**

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 29.2 |
| Joint publications | 15 | 53.5 |
| First decile publications | 3 | 45.6 |
| First quartile publications | 5 | 54.5 |
| Second quartile publications | 2 | 6.1 |
| Third quartile publications | 6 | 16.4 |
| Fourth quartile publications | 6 | 5.7 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **21** | **82.7** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernandez, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).*
- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernandez, CH. Effectiveness of the "cognitive" biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 228-233. FI: 0.873. Cuartil: 4. (Article).*
- *Cano-Velasco, J; Herranz-Amo, F; Peligros-Gomez, I; Barbas-Bernardos, G; Sola-Vendrell, E; Hernandez-Fernandez, C. Mucin-producing urothelial type prostatic adenocarcinoma with signet ring cells and increased Ca 19.9 and CEA. Case report and literature review. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(7) 647-652. FI: 0.395. Cuartil: 4. (Review).*
- *Morganti, AG; Cellini, F; Buwenge, M; Arcelli, A; Alfieri, S; Calvo, FA; Casadei, R; Cilla, S; Deodato, F; Di Gioia, G; Di Marco, M; Fuccio, L; Bertini, F; Guido, A; Herman, JM; Macchia, G; Maidment, BW; Miller, RC; Minni, F; Passoni, P; Valentini, C; Re, A; Regine, WF; Reni, M; Falconi, M; Valentini, V; Mattiucci, GC. Adjuvant chemoradiation in pancreatic cancer: impact of radiotherapy dose on survival. BMC CANCER. 2019; 19 -. FI: 3.15. Cuartil: 3. (Article).*
- *Gomez-Caamano A; Gonzalez-San Segundo C; Henriquez I; Maldonado X; Zapatero A; Expert Panel for the Consensus on Management of Castration-Resistant Prostate Ca. Consensus on management of castration-resistant prostate cancer on behalf of the Urological Tumours Working Group (URONCOR) of the Spanish Society of Radiation Oncology. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(12) 1663-1672. FI: 2.737. Cuartil: 3. (Article).*
- *Gonzalez-San Segundo, C; Jove, J; Zapatero, A; Pastor-Peidro, J; Vazquez, ML; Casana, M; Mengual, JL; Gomez-Caamano, A; Gomez-Iturriaga, A; Vallejo, C; Henriquez, I; Munoz-Garcia, JL; Clemente, J; Porras, M; Collado, E; Ossola, G; Villafranca, E; Cabeza, MA; Lopez-Torrecilla, J. Survival after biochemical failure in prostate cancer treated with radiotherapy: Spanish Registry of Prostate Cancer (RECAP) database outcomes. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(12) 1687-1698. FI: 2.737. Cuartil: 3. (Article).*
- *de Rojas, T; Puertas, M; Bautista, F; de Prada, I; Lopez-Pino, MA; Rivero, B; Gonzalez-San Segundo, C; Gonzalez-Vicent, M; Lassaletta, A; Madero, L; Moreno, L. Improving the quality of care in the molecular era for children and adolescents with medulloblastoma. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(8) 1044-1051. FI: 2.737. Cuartil: 3. (Article).*

- *Rodriguez, A; Arenas, M; Lara, PC; Lopez-Torrecilla, J; Algara, M; Conde, A; Perez-Montero, H; Munoz, JL; Peleteiro, P; Perez-Calatayud, MJ; Contreras, J; Ferrer, C; Ortiz, MJ; Exposito, J; Palacios, A; Herruzo, I; Medina, JA; Martinez, M; Bayo, E; Jaen, J; Peracaula, FJ; Perez, C; Ramos, MI; Gonzalez, JA; Begara, J; Nuno, C; Bezares, AB; Serradilla, A; Lazo, A; Tejedor, M; Mendez, L; Juan, G; Olay, L; Pardo, J; Noe, A; Mestre, F; Oton, C; Fuentes, C; Prada, P; Perez, L; Lozano, E; Villas, MV; Tripero, J; Lobo, R; Munoz, M; Tisaire, JL; Fernandez, J; Teijeira, M; Rodriguez, JR; Perez-Romasanta, L; Lopez, F; Rodriguez, D; Ceballos, A; Cantalapiedra, R; Biete, A; Craven, J; Pedro, A; Giralt, J; Guedea, F; Villa, S; Sole, JM; Eraso, A; Carceller, JA; Guix, B; Miralbell, R; Casals, J; Gonzalez, P; Duarte, MI; Jerez, JP; Marino, A; Gomez-Caamano, A; Munoz, V; Lopez, MD; Zugazabeitia, L; Torrado-Moya, L; Ossola, G; Morera, RM; Murillo, MT; Sancho, S; Perez-Regadera, J; Lozano, MA; Vazquez, G; Lopez, E; de la Fuente, C; Samper, P; Ludena, B; Saez, JDD; Azinovic, I; Rubio, C; del Cerro, E; Carballo, N; Sotoca-Ruiz, A; Garcia, R; Salinas, J; Fondevilla, A; Martinez-Monge, R; Martinez, E; Alia, A; Ciria, JP; Rosa, J; Bilbao, P; Martin, JC; Casquero, F; Arribas, L; Tormo, A; Ferrer, E; Larrea, L; Soler, M; Garcia, E; Soler, P; Santos, M; Vazquez, G; Canon, RM; Miro, A; Spanish Soc Oncology Radiotherapy. Are there enough radiation oncologists to lead the new Spanish radiotherapy?. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(4) 420-432. FI: 2.737. Cuartil: 3. (Article).*

- *Rincon, JO; Regi, AR; Leyte, MG; Martin, LC; Pascual, RP; Farto, JCA. Hepatic supraselective radioembolization, today and new horizons. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 2019; 46(12) 2412-2413. FI: 7.081. Cuartil: 1. (Letter).*

- *Gonzalez-San Segundo, C; Counago, F; Gomez-Iturriaga, A. Androgen Deprivation Therapy and Salvage Radiotherapy: Are We Missing Something?. EUROPEAN UROLOGY. 2019; 76(2) 260-261. FI: 17.947. Cuartil: 1. (Letter).*

- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*

- *Fernandez-Friera, L; Fuster, V; Lopez-Melgar, B; Oliva, B; Sanchez-Gonzalez, J; Macias, A; Perez-Asenjo, B; Zamudio, D; Alonso-Farto, JC; Espana, S; Mendiguren, J; Bueno, H; Garcia-Ruiz, JM; Ibanez, B; Fernandez-Ortiz, A; Sanz, J. Vascular Inflammation in Subclinical Atherosclerosis Detected by Hybrid PET/MRI. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. 2019; 73(12) 1371-1382. FI: 20.589. Cuartil: 1. (Article).*

- *Ayala, R; Ruiz, G; Valdivielso, T. Automatizing a nonscripting TPS for optimizing clinical workflow and reoptimizing IMRT/VMAT plansy. MEDICAL DOSIMETRY. 2019; 44(4) 409-414. FI: 1.396. Cuartil: 4. (Article).*

- *de la Cruz, MH; Rubio, RD; Buzo, EL; Otero, FD; Alen, PV; Rincon, JO; Montalvo, JP; Chicote, AC; Perez, FG. Syndrome of transient headache and neurological deficits with cerebrospinal fluid lymphocytosis (HaNDL) in a patient with confusional symptoms, diffuse EEG abnormalities, and bilateral vasospasm in transcranial Doppler ultrasound: A case report and litera. NEUROLOGIA. 2019; 34(8) 536-542. FI: 2.283. Cuartil: 3. (Review).*

- *Lopez, IH; Gonzalez-San Segundo, C; Vegas, JO; Gutierrez, C; Hervas, A; Rodriguez, MAC; Albarran, JV; Villalba, SR; Gonzalez, AA; Pardo, GS; Zapatero, A; Alvaro, PC. Salvage brachytherapy for locally-recurrent prostate cancer after radiation therapy: A comparison of efficacy and toxicity outcomes with high-dose rate and low-dose rate brachytherapy. RADIOTHERAPY AND ONCOLOGY. 2019; 141 156-163. FI: 4.856. Cuartil: 1. (Article).*

- *Carrion-Martin, L; Rincon, JO; Rotger, A; Gonzalez-Leyte, M; Perez, LM; Echenagusia, M; Matilla, A. Radioembolization in liver tumours. REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR. 2019; 38(1) 59-68. FI: 1.09. Cuartil: 4. (Article).*

- *Caresia-Aroztegui, AP; Delgado-Bolton, RC; Alvarez-Ruiz, S; Cozar-Santiago, MD; Orcajo-Rincon, J; de Arcocha-Torres, M; Garcia-Velloso, MJ; Soc Espanola Med Nucl Imagen Mol. F-18-FDG PET/CT in locally advanced cervical cancer: A review. REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR. 2019; 38(6) 370-381. FI: 1.09. Cuartil: 4. (Article).*

- *Garcia-Mato, D; Ochandiano, S; Garcia-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; Garcia-Leal, R; Calvo-Haro, JA; Perez-Mananes, R; Salmeron, JI; Pascau, J. Craniosynostosis surgery: workflow based on virtual surgical planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Mattiucci, GC; Morganti, AG; Cellini, F; Buwenge, M; Casadei, R; Farioli, A; Alfieri, S; Arcelli, A; Bertini, F; Calvo, FA; Cammelli, S; Fuccio, L; Giaccherini, L; Guido, A; Herman, JM; Macchia, G; Maidment, BW; Miller, RC; Minni, F; Regine, WF; Reni, M; Partelli, S; Falconi, M; Valentini, V. Prognostic Impact of Presurgical CA19-9 Level in Pancreatic Adenocarcinoma: A Pooled Analysis. TRANSLATIONAL ONCOLOGY. 2019; 12(1) 1-7. FI: 3.558. Cuartil: 2. (Article).*

- ***Publications of the main WOS collection in journals without impact factor:***

  - *Sole, CV; Vargas, L; Sole, VJ; Larsen, F; Sole, S. Adjuvant chemoradiation in resected gallbladder cancer: a prognostic index model for predicting overall survival. JOURNAL OF RADIATION ONCOLOGY. 2019; 8(2) 157-162. (Article).*

  - *Demelo-Rodriguez, P; Olleros, CL; Higueras, EM; Peligros, I; del Toro-Cervera, J. Gastrointestinal stromal tumor as a cause of cancer-associated thrombosis. REVISTA DE GASTROENTEROLOGIA DE MEXICO. 2019; 84(2) 250-252. (Letter).*

# 6.02 Traslational medical oncology and personalized cancer therapy

Group Director: **Miguel Martín Jiménez**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

The generic objective of research in the Oncology Area is to generate reliable and scientifically relevant information on the individualized treatment of cancer, through translational research, which can allow the selection of antitumor treatment that provides more curative options and less sequelae to each patient. The therapy selection will be essentially based on the genetic / molecular profile of the patient and the tumor. The appropriate selection of cancer patients candidates for sophisticated antitumor therapies (target medical treatments, high definition radiotherapy, cell therapy, hemopoietic progenitor transplantation) available at our center, will allow the most suitable choice for each patient. In addition, the Area will study heir-familial cancer syndromes and other situations of high risk of cancer occurrence, in which various interventions can be very effective in reducing the likelihood of disease occurrence

## Research lines

**Axis 1: Scientific leadership, integration, and organization.**
**Line 1** Prognostic and predictive value of circulating tumor cells in breast cancer. Leader: Dr. Martín
**Line 2** Value of liquid biopsy as a predictor of response in cancer patients. Leader: Dr. Martín
**Axis 2: International relations, alliances, and visibility.**
**Line 1**Search for predictors of response to neoadjuvant chemotherapy with docetaxel carboplatin in patients with triple negative breast cancer. Leader: Dr. Martín
**Axis 3: Consolidation of innovation.**
**Line 1**Genetic counseling. Leader: Dr. Márquez
**Axis 4: Competitiveness (sustainability) and resources available for research.**
**Line 1**Leader: Dr. Martín
**Axis 5: Quality and management of research and innovation**.
**Line 1** Immunotherapy for cancer. Leader: Dr. Martín.
**Line 2** Innovation in treatment of colorectal cancer. Leader: Dr. García Alfonso.
**Line 3** Innovation in treatment of stomach cancer. Leader: Dr. García Alfonso.
**Line 4** Innovation in treatment of lung cancer. Leader: Dr. Álvarez.
**Line 5** Innovation in treatment of genitourinary tumors. Leader: Dr. Arranz.
**Line 6** Innovation in systemic treatment of brain tumors. Leader: Dr. Márquez.
**Line 7** Innovation in systemic treatment of melanoma. Leader: Dr. Márquez.
**Line 8** Innovation in the diagnosis of patients with stage I-III breast cancer. Leader: Dr. Martín.
**Line 9** Leader: Dr. Martín.
**Line 10** Organoid development

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| AGUADO | ORIHUELA | GEMA | R1 | First Stage Researcher Physician Assistant |
| AGUILAR | CABALLERO | IKER | R1 | First Stage Researcher R5 |
| ALONSO | MARTINEZ | NOELIA | Other | Research Unit |
| ALVA | BIANCHI | MANUEL | R1 | First Stage Researcher R4 |
| ALVAREZ | ALVAREZ | ROSA MARIA | R3 | Established Researcher Section Chief |
| ÁLVAREZ | CASTILLO | ENRIQUE LUIS | Other | Research Unit |
| APARICIO | SALCEDO | INMACULADA | R1 | First Stage Researcher R4 |
| ARIAS | GARCIA | AINHOA | Other | Research Unit |
| ARRANZ | ARIJA | JOSE ÁNGEL | R3 | Established Researcher Section Chief |
| ARREGUI | VALLES | MARTA | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| | | | | R4 |
| AYLLON | GARCIA | CAROLINA | Other | Nursing Research Unit |
| BERNAT | GOMEZ | REBECA | Other | Research Unit |
| BLANCO | VELILLA | ALBA | Other | Research Unit |
| BLANCO | CODESIDO | MONSERRAT | R2 | Recognised Researcher Physician Assistant |
| BRINGAS | BERANEK | MARIANELA | R1 | First Stage Researcher Resident Doctor R2 |
| BUENO | ZAMORA | OSCAR | R1 | First Stage Researcher Physician Assistant |
| CALLES | BLANCO | ANTONIO | R1 | First Stage Researcher Physician Assistant |
| CALVO | FERRÁNDIZ | PILAR AITANA | R2 | Recognised Researcher Physician Assistant |
| CANTERO | MARTIN | MARTA | Other | Nursing care |
| CAÑETE | GAMEZ | MARIA ISABEL | Other | Research Unit |
| CARPEÑO | MARTIN-CARO | LAURA | Other | Research Unit. |
| CEBOLLERO | PRESMANES | MARÍA | R2 | Recognised Researcher Physician Assistant |
| CIUDAD | BABIANO | FRANCISCO | Other | Nursing care |
| DE TOMÁS | PALACIOS | JORGE | R2 | Recognised Researcher Physician Assistant |
| DEL MONTE | MILLAN | MARIA | Other | Research Unit |
| DELGADO | SALAS | GUADALUPE | Other | Nursing care |
| ECHAVARRIA | DIAZ-GUARDAMINO | ISABEL | R2 | Recognised Researcher Physician Assistant |
| ESCOBAR | ALVAREZ | YOLANDA | R1 | First Stage Researcher Physician Assistant |
| ESTEBAN | ARRANZ | MAGDALENA | Other | Nursing. Research Unit |
| FERNANDEZ | GONZALEZ | SARA | Other | Research Unit |
| FLORES | SANCHEZ | CARMEN | Other | Nursing care |
| FLOREZ | PEÑASCO | SANDRA | Other | Research Unit |
| GALERA | LOPEZ | MARIA DEL MAR | R1 | First Stage Researcher Physician Assistant |
| GALINDO | BARREALES | FERNANDO | Other | Research Unit |
| GARCIA | LABORDA | ELSA | R1 | First Stage Researcher Physician Assistant |
| GARCIA | PARDO DE SANTAYANA | MIGUEL ANGEL | R1 | First Stage Researcher Resident Doctor R5 |
| GARCIA | HIDALGO | MARIA ELENA | Other | Nursing care |
| GARCIA | MALDONADO | ANA | Other | Research Unit |
| GARCÍA | ALFONSO | Mª PILAR | R3 | Established Researcher Section Chief |
| GONZALEZ | BLAZQUEZ | Mª VICTORIA | Other | Nursing care Research Unit |
| GONZALEZ DEL VAL | SUBIRATS | RICARDO | R2 | Recognised Researcher Physician Assistant |
| GRAS | PERAL | INMACULADA CONCEPCION | Other | Nursing . Research Unit |
| GUTIERREZ | ALONSO | NATALIA | R1 | First Stage Researcher Resident Doctor R2 |
| GUTIERREZ | ORTIZ DE LA TABLA | ANA | R1 | First Stage Researcher Resident Doctor R2 |
| HERRERO | LOPEZ | BLANCA | R1 | First Stage Researcher Intensificated |
| ILAS | | CLAUDIA RENATA | Other | Research Unit |
| IRUELA | DE PEDRO | MARIA ENCARNACION | Other | Nursing care |
| JEREZ | GILARRANZ | YOLANDA | R2 | Recognised Researcher Physician Assistant |
| JIMENEZ | VICENTE | MERCEDES | Other | Nursing care |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| JULIAO | CAAMAÑO | DAVID SALOMÓN | R1 | First Stage Researcher<br>Resident Doctor R2 |
| KHOSRAVI | SHAHI | PARHAM | R2 | Recognised Researcher<br>Physician Assistant |
| LLORCA | ESCRIVÁ | MIREIA | Other | Research Unit. |
| LOBATO | VIDAL | NEREA | Other | Research Unit |
| LOPEZ | JUAREZ | ESTELA | Other | Research Unit |
| LOPEZ | LOPEZ | CRISTINA | R1 | First Stage Researcher<br>Physician Assistant |
| LOPEZ | JIMENEZ | CARLOS | R1 | First Stage Researcher<br>Resident Doctor R1 |
| LÓPEZ-TARRUELLA | COBO | SARA | R2 | Recognised Researcher<br>Physician Assistant |
| LUQUE | MOLINA | MARIA SOLEDAD | R2 | Recognised Researcher<br>Physician Assistant |
| MARQUEZ | LOZANO | GLORIA | Other | Research Unit. |
| MARQUEZ | RODAS | IVAN | R2 | Recognised Researcher<br>Physician Assistant |
| MARTIN | ALONSO | ALHELIES | Other | Nursing care |
| MARTIN | JIMENEZ | MIGUEL | R4 | Leading Researcher<br>Head of service |
| MARTINEZ | PEREZ | MONICA | Other | Nursing care |
| MARTINEZ | DELFRADE | IÑIGO | R1 | First Stage Researcher<br>Resident Doctor R5 |
| MASSARRAH | SANCHEZ | TATIANA | Other | Nursing<br>. Research Unit |
| MORON | GARCIA | BLANCA ISABEL | R1 | First Stage Researcher<br>Resident Doctor R3 |
| MUÑANA | VILLAR | ALBERTO | Other | Nursing care |
| MUÑOZ | MARTÍN | ANDRES | R2 | Recognised Researcher<br>Physician Assistant |
| OCAÑA | TORRES | INMACULADA | Other | Research Unit |
| OLCOZ | MONREAL | FRANCISCO JAVIER | R1 | First Stage Researcher<br>Physician Assistant |
| ORTEGA | MORAN | LAURA | R1 | First Stage Researcher<br>Physician Assistant |
| PALOMERO | PLAZA | MARIA ISABEL | R1 | First Stage Researcher<br>Physician Assistant |
| PARRA | HERNANDEZ | IRENE | Other | Research Unit |
| PEREZ | RAMIREZ | SARA | R2 | Recognised Researcher<br>Physician Assistant |
| PEREZ | DE LA FUENTE | INES | Other | Research Unit |
| PEREZ | MONTIJANO | MARTA | Other | Research Unit |
| PICORNELL | COMPANY | ANTONIO CLEMENTE | Other | R2<br>Research Unit |
| PUENTE | VAZQUEZ | BEATRIZ | Other | Research Unit |
| RAMOS | MEDINA | ROCIO | Other | R2<br>Research Unit |
| RANZ | HERRANZ | MARIA ISABEL | Other | Nursing<br>Research Unit |
| REINOSO | KUKLINSKI | SILVIA | Other | Nursing care |
| RINCÓN | OLBÉS | PATRICIA | R1 | First Stage Researcher<br>Physician Assistant |
| RODRIGUEZ | VILLAR | CRISTINA | Other | Research Unit |
| ROMERO | PICAZO | PAULA | Other | Research Unit |
| RUIZ | BOLAÑOS | ANA BELEN | Other | Research Unit |
| SABIN | DOMINGUEZ | MARÍA PILAR | R2 | Recognised Researcher<br>Physician Assistant |
| SANCHEZ | HERRERO | ROSA MARIA | Other | Research Unit |
| SANDOVAL | GARCÍA | CARMEN | R1 | First Stage Researcher<br>Resident Doctor R5 |
| SOTO | ALSAR | JAVIER | R1 | First Stage Researcher<br>Resident Doctor R2 |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| TALEGÓN | GARCÍA | MARÍA | Other | Research Unit |
| TIRADO | ANULA | VICTORIA CLARA | R1 | First Stage Researcher Resident Doctor R3 |
| TORO | CARMENA | MARIA DE | R1 | First Stage Researcher Resident Doctor R3 |
| TORRES | PEREZ-SOLERO | GABRIELA | R1 | First Stage Researcher Physician Assistant |
| TORVISCO | NAJARRO | JOSE MARIA | Other | Research Unit |
| VARGAS | SANCHEZ | AROA | Other | Nursing care |
| VILLAREJO | LOPEZ | LUCIA | Other | Research Unit. |
| ZAZO | LEON | MARIA TERESA | Other | Nursing care |

## *Research Projects – Competitive Calls*

TITLE: **Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo**. PI18/01775
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Cáncer de mama triple negativo: predicción de respuesta a docetaxel-carboplatino neoadyuvante mediante caracterización de TILS y firmas inmunes basadas en secuenciación masiva de RNA**. PI15/00117
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/06/2020

TITLE: **Células circulantes tumorales (ctcs) como predictor precoz de supervivencia y respuesta al tratmieno en pacientes don cáncer de páncreas localmente avanzado o metastásico después del primer ciclo de quimioterapia**. SEOM17/01
DIRECTOR: MUÑOZ MARTÍN, ANDRES
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION SEOM
START DATE: 02/11/2017
END DATE: 01/11/2019

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| RETICS | Redes Temáticas de Investigación Cooperativa en Salud en el Area de Cáncer. RD12/0036/0076 | Collaborating group |
| CIBER | CIBERONC CB16/12/00471 | Collaborating group |

## *Industrial and intellectual property registrations*

### *Industrial property*

| Title | Reference* | Owner | Inventors |
|---|---|---|---|
| **Método para seleccionar, manipular y aislar células tumorales circulantes en líquidos corporales por transferencia asistida por láser** | PCT/ES2018/070064 | FIBHGM - UPM | Miguel Martín, María del Monte, Andrés Muñoz, Rocío Ramos, Javier Gayarre, Tatiana Massarrah, Carlos Molpeceres |

* ***Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

### *Intellectual property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **SMART, application for cancer genetic counseling** | Nº Asiento Registral: 16/2015/5724 | FIBHGM, UNED, URJC | Iván Márquez Juan Martínez Romo Cristina Rodríguez Susana Borromeo |

## *Clinical Practice Guidelines*

| Authors | Title | Journal / Reference |
|---|---|---|
| Dominique Farge*, Corinne Frere*, Jean M Connors, Cihan Ay, Alok A Khorana, Andres Munoz, Benjamin Brenner, Ajay Kakkar, Hanadi Rafii, Susan Solymoss, Dialina Brilhante, Manuel Monreal, Henri Bounameaux, Ingrid Pabinger, James Douketis, and the International Initiative on Thrombosis and Cancer (ITAC) advisory panel. | **2019 International Clinical Practice Guidelines for the Treatment and Prophylaxis of Venous Thromboembolism in Patients With Cancer** | Lancet Oncol 2019 Published Online September 3, 2019 http://dx.doi.org/10.1016/S1470-2045(19)30336-5 |
| Press MF, Seoane JA, Curtis C, Quinaux E, Guzman R, Sauter G, Eiermann W, Mackey JR, Robert N, Pienkowski T, Crown J, Martin M, Valero V, Bee V, Ma Y, Villalobos I, Slamon DJ. | **Assessment of ERBB2/HER2 Status in HER2-Equivocal Breast Cancers by FISH and 2013/2014 ASCO-CAP Guidelines.** | JAMA Oncol. 2019 Mar 1;5(3):366-375. doi: 10.1001/jamaoncol.2018.6012. |
| Chacón López-Muñiz, J. I.; Cruz Merino, L. de la; Gavilá Gregori; Martínez Dueñas, E.; Oliveira, M.; Seguí Palmer, M. A.; Álvarez López, I.; Antolin Novoa, S.; Bellet Ezquerra, M.; López-Tarruella, S. | **SEOM clinical guidelines in advanced and recurrent breast cancer (2018)** | Clin Transl Oncol 21, 31–45 (2019). https://doi.org/10.1007/s12094-018-02010-w |

## *Publications* *Total Impact Factor: **685.8***

| | Nº | FI |
|---|---|---|
| Own publications | 16 | 84.4 |
| Joint publications | 50 | 601.4 |
| First decile publications | 19 | 506.4 |
| First quartile publications | 34 | 584.8 |
| Second quartile publications | 16 | 60.3 |
| Third quartile publications | 15 | 39.2 |
| Fourth quartile publications | 1 | 1.6 |
| Nonindexed publications / No IF | 8 | - |
| **Total publications (including those without IF)** | **74** | **685.8** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Domine, M; Massuti, B; Puente, J; Calles, A; Esteban, E; Triguboff, E; Afonzo, YS; Girones, R; Aparisi, F; Oramas, J. Observational Prospective Study to Determine the Evolution of the Symptomatic Profile of Metastatic Non-Small Cell Lung Cancer (NSCLC) Patients and Its Relation to the Control of the Disease. ADVANCES IN THERAPY. 2019; 36(6) 1497-1508. FI: 3.871. Cuartil: 1. (Article).*
- *Santos, C; Azuara, D; Vieitez, JM; Paez, D; Falco, E; Elez, E; Lopez-Lopez, C; Valladares, M; Robles-Diaz, L; Garcia-Alfonso, P; Buges, C; Duran, G; Salud, A; Navarro, V; Capella, G; Aranda, E; Salazar, R; de Mena, IR; Rodriguez, S; Spanish Cooperative Grp Treatment. Phase II study of high-sensitivity genotyping of KRAS, NRAS, BRAF and PIK3CA to ultra-select metastatic colorectal cancer patients for panitumumab plus FOLFIRI: the ULTRA trial. ANNALS OF ONCOLOGY. 2019; 30(3) 439-446. FI: 18.274. Cuartil: 1. (Article).*
- *Vidal, J; Bellosillo, B; Vivas, CS; Garcia-Alfonso, P; Carrato, A; Cano, MT; Garcia-Carbonero, R; Elez, E; Losa, F; Massuti, B; Valladares-Ayerbes, M; Vieitez, JM; Manzano, JL; Azuara, D; Gallego, J; Pairet, S; Capella, G; Salazar, R; Tabernero, J; Aranda, E; Montagut, C. Ultra-selection of metastatic colorectal cancer patients using next-generation sequencing to improve clinical efficacy of anti-EGFR therapy. ANNALS OF ONCOLOGY. 2019; 30(5) 796-803. FI: 18.274. Cuartil: 1. (Article).*
- *Yoshino, T; Portnoy, DC; Obermannova, R; Bodoky, G; Prausova, J; Garcia-Carbonero, R; Ciuleanu, T; Garcia-Alfonso, P; Cohn, AL; Van Cutsem, E; Yamazaki, K; Lonardi, S; Muro, K; Kim, TW; Yamaguchi, K; Grothey, A; O'Connor, J; Taieb, J; Wijayawardana, SR; Hozak, RR; Nasroulah, F; Tabernero, J. Biomarker analysis beyond angiogenesis: RAS/RAF mutation status, tumour sidedness, and second-line ramucirumab efficacy in patients with metastatic colorectal carcinoma from RAISE-a global phase III study. ANNALS OF ONCOLOGY. 2019; 30(1) 124-131. FI: 18.274. Cuartil: 1. (Article).*

- *Delaloge, S; Cella, D; Ye, Y; Buyse, M; Chan, A; Barrios, CH; Holmes, FA; Mansi, J; Iwata, H; Ejlertsen, B; Moy, B; Chia, SKL; Gnant, M; Smichkoska, S; Ciceniene, A; Martinez, N; Filipovic, S; Ben-Baruch, NE; Joy, AA; Langkjer, ST; Senecal, F; de Boer, RH; Moran, S; Yao, B; Bryce, R; Auerbach, A; Fallowfield, L; Martin, M. Effects of neratinib on health-related quality of life in women with HER2-positive early-stage breast cancer: longitudinal analyses from the randomized phase III ExteNET trial. ANNALS OF ONCOLOGY. 2019; 30(4) 567-574. FI: 18.274. Cuartil: 1. (Article).*

- *Carrato, A; Benavides, M; Massuti, B; Ferreiro-Monteagudo, R; Alfonso, PG; Falco, E; Reboredo, M; Cano, T; Gallego, J; Vieitez, JM; Layos, L; Salud, A; Polo, E; Dotor, E; Duran-Ogalla, G; Rodriguez-Garrote, M; Calvo, A; Grande, E; Aranda, E. First-line single-agent regorafenib in frail patients with metastatic colorectal cancer: a pilot phase II study of the Spanish Cooperative Group for the Treatment of Digestive Tumours (TTD). BMC CANCER. 2019; 19 -. FI: 3.15. Cuartil: 3. (Article).*

- *Perez EA; de Haas SL; Eiermann W; Barrios CH; Toi M; Im YH; Conte PF; Martin M; Pienkowski T; Pivot XB; Burris HA; Stanzel S; Patre M; Ellis PA. Correction to: Relationship between tumor biomarkers and efficacy in MARIANNE, a phase III study of trastuzumab emtansine ± pertuzumab versus trastuzumab plus taxane in HER2-positive advanced breast cancer. BMC CANCER. 2019; 19 -. FI: 3.15. Cuartil: 3. (Article).*

- *Perez, EA; de Haas, SL; Eiermann, W; Barrios, CH; Toi, M; Im, YH; Conte, PF; Martin, M; Pienkowski, T; Pivot, XB; Burris, HA; Stanzel, S; Patre, M; Ellis, PA. Relationship between tumor biomarkers and efficacy in MARIANNE, a phase III study of trastuzumab emtansine +/- pertuzumab versus trastuzumab plus taxane in HER2-positive advanced breast cancer. BMC CANCER. 2019; 19(1) 620-620. FI: 3.15. Cuartil: 3. (Article).*

- *Picornell, AC; Echavarria, I; Alvarez, E; Lopez-Tarruella, S; Jerez, Y; Hoadley, K; Parker, JS; del Monte-Millan, M; Ramos-Medina, R; Gayarre, J; Ocana, I; Cebollero, M; Massarrah, T; Moreno, F; Saenz, JAG; Moreno, HG; Ballesteros, A; Borrego, MR; Perou, CM; Martin, M. Breast cancer PAM50 signature: correlation and concordance between RNA-Seq and digital multiplexed gene expression technologies in a triple negative breast cancer series. BMC GENOMICS. 2019; 20 -. FI: 3.594. Cuartil: 2. (Article).*

- *Chia, SKL; Martin, M; Holmes, FA; Ejlertsen, B; Delaloge, S; Moy, B; Iwata, H; von Minckwitz, G; Mansi, J; Barrios, CH; Gnant, M; Tomasevic, Z; Denduluri, N; Separovic, R; Kim, SB; Jakobsen, EH; Harvey, V; Robert, N; Smith, J; Harker, G; Zhang, B; Eli, LD; Ye, YN; Lalani, AS; Buyse, M; Chan, A. PIK3CA alterations and benefit with neratinib: analysis from the randomized, double-blind, placebo-controlled, phase III ExteNET trial. BREAST CANCER RESEARCH. 2019; 21 -. FI: 4.988. Cuartil: 2. (Article).*

- *Sestak, I; Martin, M; Dubsky, P; Kronenwett, R; Rojo, F; Cuzick, J; Filipits, M; Ruiz, A; Gradishar, W; Soliman, H; Schwartzberg, L; Buus, R; Hlauschek, D; Rodriguez-Lescure, A; Gnant, M. Prediction of chemotherapy benefit by EndoPredict in patients with breast cancer who received adjuvant endocrine therapy plus chemotherapy or endocrine therapy alone. BREAST CANCER RESEARCH AND TREATMENT. 2019; 177(1) 115-125. FI: 3.831. Cuartil: 2. (Article).*

- *Ruiz-Borrego, M; Guerrero-Zotano, A; Bermejo, B; Ramos, M; Cruz, J; Baena-Canada, JM; Cirauqui, B; Rodriguez-Lescure, A; Alba, E; Martinez-Janez, N; Munoz, M; Antolin, S; Alvarez, I; Del Barco, S; Sevillano, E; Chacon, JI; Anton, A; Escudero, MJ; Ruiz, V; Carrasco, E; Martin, M; Segui, MA; Ayala, F; de la Haba, J; Martinez, P; Gonzalez, S; Lahuerta, A; Toral, JC; de Duenas, EM; Florian, J; Godes, MJ; Llorca, C; Blancas, I; Jara, C; Morales, S; Arcusa, A; Martinez, A; Vicente, E; de Juan, A; Rodriguez, M; Garcia, M; Garcia, P; Bayo, JL; Caranana, V; Casinello, J; Jolis, L; Gil, M; Canabate, C; Oltra, A; Ramirez, J; Lomas, M; Barnadas, A; Sureda, M; Carabantes, F; Moreno, I; Moreno, AL; GEICAM. Phase III evaluating the addition of fulvestrant (F) to anastrozole (A) as adjuvant therapy in postmenopausal women with hormone receptor-positive HER2-negative (HR+/HER2-) early breast cancer (EBC): results from the GEICAM/2006-10 study. BREAST CANCER RESEARCH AND TREATMENT. 2019; 176(2) 377-386. FI: 3.831. Cuartil: 2. (Article).*

- *Camp, NJ; Madsen, MJ; Herranz, J; Rodriguez-Lescure, A; Ruiz, A; Martin, M; Bernard, PS. Re-interpretation of PAM50 gene expression as quantitative tumor dimensions shows utility for clinical trials: application to prognosis and response to paclitaxel in breast cancer. BREAST CANCER RESEARCH AND TREATMENT. 2019; 175(1) 129-139. FI: 3.831. Cuartil: 2. (Article).*

- *Khosravi-Shahi, P; Cabezon-Gutierrez, L; Salcedo, MIA. State of art of advanced triple negative breast cancer. BREAST JOURNAL. 2019; 25(5) 967-970. FI: 1.991. Cuartil: 3. (Article).*

- *Gorbunova, V; Beck, JT; Hofheinz, RD; Garcia-Alfonso, P; Nechaeva, M; Gracian, AC; Mangel, L; Fernandez, EE; Deming, DA; Ramanathan, RK; Torres, AH; Sullivan, D; Luo, Y; Berlin, JD. A phase 2 randomised study of veliparib plus FOLFIRI +/- bevacizumab versus placebo plus FOLFIRI +/- bevacizumab in metastatic colorectal cancer. BRITISH JOURNAL OF CANCER. 2019; 120(2) 183-189. FI: 5.791. Cuartil: 1. (Article).*

- *Perez, EA; Barrios, C; Eiermann, W; Toi, M; Im, YH; Conte, P; Martin, M; Pienkowski, T; Pivot, XB; Burris, HA; Petersen, JA; De Haas, S; Hoersch, S; Patre, M; Ellis, PA. Trastuzumab emtansine with or without pertuzumab versus trastuzumab with taxane for human epidermal growth factor receptor 2-positive advanced breast cancer: Final results from MARIANNE. CANCER. 2019; 125(22) 3974-3984. FI: 5.742. Cuartil: 1. (Article).*

- *Rivera, F; Romero, C; Jimenez-Fonseca, P; Izquierdo-Manuel, M; Salud, A; Martinez, E; Jorge, M; Arrazubi, V; Mendez, JC; Garcia-Alfonso, P; Reboredo, M; Barriuso, J; Munoz-Unceta, N; Jimeno, R; Lopez, C. Phase II study to evaluate the efficacy of Trastuzumab in combination with Capecitabine and Oxaliplatin in first-line treatment of HER2-positive advanced gastric cancer: HERXO trial. CANCER CHEMOTHERAPY AND PHARMACOLOGY. 2019; 83(6) 1175-1181. FI: 2.967. Cuartil: 2. (Article).*

- *Feliu, Jaime; Garcia-Carbonero, Rocio; Capdevila, Jaume; Guasch, Inmaculada; Alonso-Orduna, Vicente; Lopez, Carlos; Garcia-Alfonso, Pilar; Castanon, Carmen; Sevilla, Isabel; Cerezo, Laura; Conill, Carles; Quintana-Angel, Begona; Sanchez,*

*Maria E; Ghanem, Ismael; Martin-Richard, Marta; Lopez-Gomez, Miriam; Leon, Ana; Caro, Monica; Fernandez, Teresa; Maurel, Joan. VITAL phase 2 study: Upfront 5-fluorouracil, mitomycin-C, panitumumab and radiotherapy treatment in nonmetastatic squamous cell carcinomas of the anal canal (GEMCAD 09-02). CANCER MEDICINE. 2019; 9(3) 1008-1016. FI: 3.491. Cuartil: 2. (Article).*

- *Marin-Barrera L; Muñoz-Martin AJ; Rios-Herranz E; Garcia-Escobar I; Beato C; Font C; Oncala-Sibajas E; Revuelta-Rodriguez A; Areses MC; Rivas-Jimenez V; Moreno-Santos MA; Ballaz-Quincoces A; Lopez-Saez JB; Gallego I; Elias-Hernandez T; Asensio-Cruz MI; Chasco-Eguilaz L; Garcia-Gonzalez G; Estevez-Garcia P; Otero R; Lima-Alvarez J; Jara-Palomares L. A Case-Control Analysis of the Impact of Venous Thromboembolic Disease on Quality of Life of Patients with Cancer: Quality of Life in Cancer (Qca) Study. CANCERS. 2019; 12(1) -. FI: 6.126. Cuartil: 1. (Article).*

- *Hollern, DP; Xu, N; Thennavan, A; Glodowski, C; Garcia-Recio, S; Mott, KR; He, XP; Garay, JP; Carey-Ewend, K; Marron, D; Ford, J; Liu, SY; Vick, SC; Martin, M; Parker, JS; Vincent, BG; Serody, JS; Perou, CM. B Cells and T Follicular Helper Cells Mediate Response to Checkpoint Inhibitors in High Mutation Burden Mouse Models of Breast Cancer. CELL. 2019; 179(5) 1191-. FI: 38.637. Cuartil: 1. (Article).*

- *Pascual, JMA; Hernandez, JAF; Fernandez, GB; Casares, CM; Alvarez, RA; Anzorena, BF; Borbalas, AL; Blanco, MR; Blazquez, SC; Raventos, VA. Update in pelvic and retroperitoneal sarcoma management: The role of compartment surgery. CIRUGIA ESPANOLA. 2019; 97(9) 480-488. FI: 1.323. Cuartil: 3. (Article).*

- *Marquez-Rodas, I; Arance, A; Berrocal, A; Larios, CL; Curto-Garcia, J; Campos-Tapias, IX; Blanca, AB; Martin-Algarra, S. A retrospective chart review study describing metastatic melanoma patients profile and treatment patterns in Spain. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(1) 31-45. FI: 2.737. Cuartil: 3. (Article).*

- *Galeano-Valle, F; Perez-Rus, G; Demelo-Rodriguez, P; Ordieres-Ortega, L; Ortega-Moran, L; Munoz-Martin, A J; Medina-Molina, S; Alvarez-Sala-Walther, L A; Del-Toro-Cervera, J. Monitoring anti-Xa levels in patients with cancer-associated venous thromboembolism treated with bemiparin. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(12) 1754-1762. FI: 2.737. Cuartil: 3. (Review).*

- *Lopez-Muniz, JIC; Merino, LD; Gregori, JG; Duenas, EM; Oliveira, M; Palmer, MAS; Lopez, IA; Novoa, SA; Ezquerra, MB; Cobo, SLT. SEOM clinical guidelines in advanced and recurrent breast cancer (2018). CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; -. FI: 2.737. Cuartil: 3. (Article).*

- *Calles, A; Aguado, G; Sandoval, C; Alvarez, R. The role of immunotherapy in small cell lung cancer. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(8) 977-991. FI: 2.737. Cuartil: 3. (Review).*

- *Peters, S; Clezardin, P; Marquez-Rodas, I; Niepel, D; Gedyes, C. The RANK-RANKL axis: an opportunity for drug repurposing in cancer?. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(8) 961-976. FI: 2.737. Cuartil: 3. (Review).*

- *de Bono, JS; De Giorgi, U; Rodrigues, DN; Massard, C; Bracarda, S; Font, A; Arija, JAA; Shih, KC; Radavoi, GD; Xu, N; Chan, WY; Ma, H; Gendreau, S; Riisnaes, R; Patel, PH; Maslyar, DJ; Jinga, V. Randomized Phase II Study Evaluating Akt Blockade with Ipatasertib, in Combination with Abiraterone, in Patients with Metastatic Prostate Cancer with and without PTEN Loss. CLINICAL CANCER RESEARCH. 2019; 25(2) 496-505. FI: 10.107. Cuartil: 1. (Article).*

- *Marquez-Rodas, I; Aznar, MA; Calles, A; Melero, I. For Whom the Cell Tolls? Intratumoral Treatment Links Innate and Adaptive Immunity. CLINICAL CANCER RESEARCH. 2019; 25(3) 928-936. FI: 10.107. Cuartil: 1. (Article).*

- *Atrafi, F; Groen, HJM; Byers, LA; Garralda, E; Lolkema, MP; Sangha, RS; Viteri, S; Chae, YK; Camidge, DR; Gabrail, NY; Hu, BB; Tian, T; Nuthalapati, S; Hoening, E; He, L; Komarnitsky, P; Calles, A. A Phase I Dose-Escalation Study of Veliparib Combined with Carboplatin and Etoposide in Patients with Extensive-Stage Small Cell Lung Cancer and Other Solid Tumors. CLINICAL CANCER RESEARCH. 2019; 25(4) 1127-1129. FI: 10.107. Cuartil: 1. (Editorial Material).*

- *Riechelmann, RP; Srimuninnimit, V; Bordonaro, R; Kavan, P; Di Bartolomeo, M; Maiello, E; Cicin, I; Garcia-Alfonso, P; Chau, I; Fedyanin, MY; Martos, CF; Ter-Ovanesov, M; Peeters, M; Ko, YJ; Yalcin, S; Karthaus, M; Aparicio, J; Heinemann, V; Picard, P; Bury, D; Drea, E; Sobrero, A. Aflibercept Plus FOLFIRI for Second-line Treatment of Metastatic Colorectal Cancer: Observations from the Global Aflibercept Safety and Health-Related Quality-of-Life Program (ASQoP). CLINICAL COLORECTAL CANCER. 2019; 18(3) 183-. FI: 3.245. Cuartil: 3. (Article).*

- *Schadendorf, D; Ascierto, PA; Haanen, J; Espinosa, E; Demidov, L; Garbe, C; Guida, M; Lorigan, P; Chiarion-Sileni, V; Gogas, H; Maio, M; Fierro, MT; Hoeller, C; Terheyden, P; Gutzmer, R; Guren, TK; Bafaloukos, D; Rutkowski, P; Plummer, R; Waterston, A; Kaatz, M; Mandala, M; Marquez-Rodas, I; Munoz-Couselo, E; Dummer, R; Grigoryeva, E; Young, TC; Nathan, P. Safety and efficacy of nivolumab in challenging subgroups with advanced melanoma who progressed on or after ipilimumab treatment: A single-arm, open-label, phase II study (CheckMate 172). EUROPEAN JOURNAL OF CANCER. 2019; 116 158-168. FI: 7.275. Cuartil: 1. (Article).*

- *Conteduca, V; Castro, E; Wetterskog, D; Scarpi, E; Jayaram, A; Romero-Laorden, N; Olmos, D; Gurioli, G; Lolli, C; Sacz, MI; Puente, J; Schepisi, G; Salvi, S; Wingate, A; Medina, A; Querol-Ninerola, R; Marin-Aguilera, M; Arranz, JA; Fornarini, G; Basso, U; Mellado, B; Gonzalez-Billalabeitia, E; Attard, G; De Giorgi, U. Plasma AR status and cabazitaxel in heavily treated metastatic castration-resistant prostate cancer. EUROPEAN JOURNAL OF CANCER. 2019; 117 91-98. FI: 7.275. Cuartil: 1. (Article).*

- *Martin, M; Loibl, S; Hyslop, T; De la Haba-Rodriguez, J; Aktas, B; Cirrincione, CT; Mehta, K; Barry, WT; Morales, S; Carey, LA; Garcia-Saenz, JA; Partridge, A; Martinez-Janez, N; Hahn, O; Winer, E; Guerrero-Zotano, A; Hudis, C; Casas, M; Rodriguez-*

*Martin, C; Furlanetto, J; Carrasco, E; Dickler, MN; GEICAM Spanish Breast Canc Grp; GBG; Alliance Clinical Trials Oncolog. Evaluating the addition of bevacizumab to endocrine therapy as first-line treatment for hormone receptor-positive metastatic breast cancer: a pooled analysis from the LEA (GEICAM/2006-11_GBG51) and CALGB 40503 (Alliance) trials. EUROPEAN JOURNAL OF CANCER. 2019; 119 168-178. FI: 7.275. Cuartil: 1. (Article).*

- *Nathan, P; Ascierto, PA; Haanen, J; Espinosa, E; Demidov, L; Garbe, C; Guida, M; Lorigan, P; Chiarion-Sileni, V; Gogas, H; Maio, M; Fierro, MT; Hoeller, C; Terheyden, P; Gutzmer, R; Guren, TK; Bafaloukos, D; Rutkowski, P; Plummer, R; Waterston, A; Kaatz, M; Mandala, M; Marquez-Rodas, I; Munoz-Couselo, E; Dummer, R; Grigoryeva, E; Young, TC; Schadendorf, D. Safety and efficacy of nivolumab in patients with rare melanoma subtypes who progressed on or after ipilimumab treatment: a single-arm, open-label, phase II study (CheckMate 172). EUROPEAN JOURNAL OF CANCER. 2019; 121 144-153. FI: 7.275. Cuartil: 1. (Article).*

- *Garcia-Alfonso, P; Torres, G; Garcia, G; Gallego, I; Ortega, L; Sandoval, C; Munoz, A; Lloansi, A. FOLFOXIRI plus biologics in advanced colorectal cancer. EXPERT OPINION ON BIOLOGICAL THERAPY. 2019; 19(5) 411-422. FI: 3.224. Cuartil: 2. (Review).*

- *Pascual, T; Martin, M; Fernandez-Martinez, A; Pare, L; Alba, E; Rodriguez-Lescure, A; Perrone, G; Cortes, J; Morales, S; Lluch, A; Urruticoechea, A; Gonzalez-Farre, B; Galvan, P; Jares, P; Rodriguez, A; Chic, N; Righi, D; Cejalvo, JM; Tonini, G; Adamo, B; Vidal, M; Villagrasa, P; Munoz, M; Prat, A. A Pathology-Based Combined Model to Identify PAM50 Non-luminal Intrinsic Disease in Hormone Receptor-Positive HER2-Negative Breast Cancer. FRONTIERS IN ONCOLOGY. 2019; 9 -. FI: 4.848. Cuartil: 2. (Article).*

- *Gonzalez, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Perez, R; Alvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; Lopez-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).*

- *Cortes, J; Andre, F; Goncalves, A; Kummel, S; Martin, M; Schmid, P; Schuetz, F; Swain, SM; Easton, V; Pollex, E; Deurloo, R; Dent, R. IMpassion132 Phase III trial: atezolizumab and chemotherapy in early relapsing metastatic triple-negative breast cancer. FUTURE ONCOLOGY. 2019; 15(17) 1951-1961. FI: 2.66. Cuartil: 3. (Article).*

- *Mulder, FI; Candeloro, M; Kamphuisen, PW; Di Nisio, M; Bossuyt, PM; Guman, N; Smit, K; Buller, HR; van Es, N; Abdel-Razeq, H; Ades, S; Ayappan, SR; Borchmann, S; Cella, CA; Fankhauser, CD; Ferroni, P; Fuentes, HE; Kruger, S; Lim, SH; Lubberts, S; Lustig, DB; Mansfield, AS; Martin, AJM; Noble, S; Panizo, E; Papaxoinis, G; Park, K; Patel, JN; Posch, F; Ramos, JD; Roselli, M; Santi, R; Sohal, D; Srikanthan, A; Tafur, AJ; Terbuch, A; Thomas, M; Vathiotis, O; Wang, R; Zahir, MN; CAT-prediction Collaborators. The Khorana score for prediction of venous thromboembolism in cancer patients: a systematic review and meta-analysis. HAEMATOLOGICA. 2019; 104(6) 1277-1287. FI: 7.116. Cuartil: 1. (Review).*

- *Mancha, RG; Munoz, M; de la Cruz-Merino, L; Calvo, L; Cruz, J; Baena-Canada, JM; Fernandez, Y; Ramos, M; Rodriguez, CA; Chacon, JI; Palomero, I; Llinares, J; Rivero, M; Ruiz, MA. Development and validation of a sexual relations satisfaction scale in patients with breast cancer - "SEXSAT-Q". HEALTH AND QUALITY OF LIFE OUTCOMES. 2019; 17(1) -. FI: 2.344. Cuartil: 2. (Article).*

- *Mendez, M; Torrente, M; Sanchez-Beato, M; Gonzalez-Rincon, J; Royuela, A; Gomez-Codina, J; de la Cruz-Merino, L; Rueda, A; Llanos, M; Quero, C; Rodriguez-Abreu, D; Guma, J; Monsalvo, S; Sabin, P; Provencio, M. Transformed follicular lymphoma in the rituximab era: A report from the Spanish Lymphoma Oncology Group. HEMATOLOGICAL ONCOLOGY. 2019; 37(2) 143-150. FI: 2.832. Cuartil: 2. (Article).*

- *Ruiz-Borrego, M; Jimenez, B; Antolin, S; Garcia-Saenz, JA; Corral, J; Jerez, Y; Trigo, J; Urruticoechea, A; Colom, H; Gonzalo, N; Munoz, C; Benito, S; Caballero, R; Bezares, S; Carrasco, E; Rojo, F; Martin, M. A phase Ib study of sonidegib (LDE225), an oral small molecule inhibitor of smoothened or Hedgehog pathway, in combination with docetaxel in triple negative advanced breast cancer patients: GEICAM/2012-12 (EDALINE) study. INVESTIGATIONAL NEW DRUGS. 2019; 37(1) 98-108. FI: 3.525. Cuartil: 2. (Article).*

- *Trigo, J; Vermorken, J; Bourhis, J; Psyrri, A; Nangia, CS; Chaves-Conde, M; Del Campo, JM; Wang, BS; Gibson, N; Ehrnrooth, E; Cohen, EEW; Giglio, RE; Blajman, CR; Freue, JM; Pilnik, NG; Palazzo, FS; McGrath, M; Fureder, T; Kornek, G; Pichler, A; Bauernhofer, T; Tinchon, C; Greil, R; Burian, M; Kienzer, H; Specenier, P; Sautois, B; Debruyne, P; Graas, MP; Maes, A; Lonchay, C; Daisne, JF; Fontaine, C; Castro, G; de Oliveira, F; Pereira, RP; De Marchi, PRM; Viana, LD; Segalla, JGM; Nicolau, UR; Lazaretti, NS; Kulkarni, S; Alam, Y; Ho, C; Shenouda, G; Soulieres, D; Sultanem, K; Singh, S; Mella, PG; Campos, JAS; Holeckova, P; Prausova, J; Obermannova, R; Friborg, J; Specht, L; Elsaid, AA; Minn, H; Martin, L; Rolland, F; Ceruse, P; Calais, G; Even, C; Guigay, J; Ferte, C; Peyrade, F; Duffaud, F; Champeaux-Orange, E; Coutte, A; Clatot, F; Fournel, P; Le Moal, LB; Dietz, A; Grunwald, V; Gauler, T; Guntinas-Lichius, O; Hildebrandt, G; Kuhnt, T; Schmidt, HJ; Henke, M; Ruckert, A; Brugger, W; Rotter, N; Mahlberg, R; Karavasilis, V; Fountzilas, G; Psyrri, D; Lang, I; Boer, A; Kocsis, J; Pajkos, G; Tamas, L; Anand, AL; Sharma, A; Sharma; Voona, M; Pandy, AS; Kumar, K; Nathan, RKP; Srinivasan, V; Zade, B; Jain, M; Srinivasa, BJ; Naik, R; Mohanty, BK; Asarawala, N; Charas, T; Billan, S; Popovtzer, A; Licitra, L; Ferrari, D; Fao, P; Merlano, M; Rocca, MC; Homma, A; Fujii, H; Tahara, M; Minami, S; Fujii, M; Yokota, T; Kadowaki, S; Muro, K; Kiyota, N; Okami, K; Yagi, T; Yoshino, K; Matsumoto, K; Takahashi, S; Matsuura, K; Avitia, MAA; Riestra, HJG; van Meerten, E; Buter, J; Gelderblom, AJ; Kawecki, A; Golusinski, W; Dinis, J; Dinis, R; Ribeiro, L; Silva, R; Mansinho, H; Selezneva, I; Biakhov, M; Galiulin, R; Izmailov, A; Romanov, I; Vladimirov, V; Vinogradov, V; Mufazalov, F; Vasilevskaya, I; Baste, N; del Campo, JM; Nin, RM; Pousa, AL; de Castro, JJG; Reig, O; Vera, R; Trigo, J; Iglesias, L; Trufero, JM; Vazquez, S; Rubio, B; Ales, JE; Villar, E; Rubio, J; Escobar, Y; Soria, A; Chaves, M; Johansson, GW; Friesland, S; Tell, R; Nyman, J; Rothschild, S; Zippelius, A; Rauch, D; Usluoglu, N; Gogunska, I; Zabolotniy, D; Vinnyk, Y; Burian, O; Harrington, K; Sykes, A; Peel, D; Lester, J; Robinson, M; Srinivasan, D; Fragkandrea-*

*Nixon, I; Junor, E; Gollins, S; Evans, M; Newbold, K; Hwang, D; Schipani, S; Rizwanullah, M; Atiq, O; Arnaoutakis, K; Bauman, J; Burtness, B; Mehra, R; Kang, H; Chung, C; Davis, T; Haddad, R; Jimeno, A; Keresztes, R; Nangia, C; Ignatius, SH; Su, YB; Overton, LC; Garrison, MA; Jeong, W; Wehbe, A; Argiris, A; Chiang, A; Morgensztern, D; Haigentz, M; Martincic, D; Porosnicu, M; LUX-HEAD & Neck 2 Investigators. Afatinib vs Placebo as Adjuvant Therapy After Chemoradiotherapy in Squamous Cell Carcinoma of the Head and Neck: A Randomized Clinical Trial. JAMA ONCOLOGY. 2019; 5(3) 366-375. FI: 24.799. Cuartil: 1. (Article).*

- *Press, MF; Seoane, JA; Curtis, C; Quinaux, E; Guzman, R; Sauter, G; Eiermann, W; Mackey, JR; Robert, N; Pienkowski, T; Crown, J; Martin, M; Valero, V; Bee, V; Ma, YL; Villalobos, I; Slamon, DJ. Assessment of ERBB2/HER2 Status in HER2-Equivocal Breast Cancers by FISH and 2013/2014 ASCO-CAP Guidelines. JAMA ONCOLOGY. 2019; 5(8) 1170-1180. FI: 24.799. Cuartil: 1. (Article).*

- *Aznar, MA; Planelles, L; Perez-Olivares, M; Molina, C; Garasa, S; Etxeberria, I; Perez, G; Rodriguez, I; Bolanos, E; Lopez-Casas, P; Rodriguez-Ruiz, ME; Perez-Gracia, JL; Marquez-Rodas, I; Teijeira, A; Quintero, M; Melero, I. Immunotherapeutic effects of intratumoral nanoplexed poly I:C. JOURNAL FOR IMMUNOTHERAPY OF CANCER. 2019; 7 -. FI: 9.913. Cuartil: 1. (Article).*

- *Lebbe, C; Meyer, N; Mortier, L; Marquez-Rodas, I; Robert, C; Rutkowski, P; Menzies, AM; Eigentler, T; Ascierto, PA; Smylie, M; Schadendorf, D; Ajaz, M; Svane, IM; Gonzalez, R; Rollin, L; Lord-Bessen, J; Saci, A; Grigoryeva, E; Pigozzo, J. Evaluation of Two Dosing Regimens for Nivolumab in Combination With Ipilimumab in Patients With Advanced Melanoma: Results From the Phase IIIb/IV CheckMate 511 Trial. JOURNAL OF CLINICAL ONCOLOGY. 2019; 37(3) 230-238. FI: 32.956. Cuartil: 1. (Article).*

- *Macarulla, T; Pazo-Cid, R; Guillen-Ponce, C; Lopez, R; Vera, R; Reboredo, M; Martin, AM; Rivera, F; Beveridge, RD; La Casta, A; Valades, JM; Martinez-Galan, J; Ales, I; Sastre, J; Perea, S; Hidalgo, M. Phase I/II Trial to Evaluate the Efficacy and Safety of Nanoparticle Albumin-Bound Paclitaxel in Combination With Gemcitabine in Patients With Pancreatic Cancer and an ECOG Performance Status of 2. JOURNAL OF CLINICAL ONCOLOGY. 2019; 37(11) 867-. FI: 32.956. Cuartil: 1. (Article).*

- *Macarulla, T; Carrato, A; Diaz, R; Garcia, A; Laquente, B; Sastre, J; Alvarez, R; Munoz, A; Hidalgo, M. Management and supportive treatment of frail patients with metastatic pancreatic cancer. JOURNAL OF GERIATRIC ONCOLOGY. 2019; 10(3) 398-404. FI: 2.761. Cuartil: 3. (Review).*

- *Metro, G; Addeo, A; Signorelli, D; Gili, A; Economopoulou, P; Roila, F; Banna, G; De Toma, A; Cobo, JR; Camerini, A; Christopoulou, A; Lo Russo, G; Banini, M; Galetta, D; Jimenez, B; Collazo-Lorduy, A; Calles, A; Baxevanos, P; Linardou, H; Kosmidis, P; Garassino, MC; Mountzios, G. Outcomes from salvage chemotherapy or pembrolizumab beyond progression with or without local ablative therapies for advanced non-small cell lung cancers with PD-L1 >= 50% who progress on first-line immunotherapy: real-world data from a European cohort. JOURNAL OF THORACIC DISEASE. 2019; 11(12) 4972-4981. FI: 2.046. Cuartil: 3. (Article).*

- *Farge, D; Frere, C; Connors, JM; Ay, C; Khorana, AA; Muno, ZA; Brenner, B; Kakkar, A; Rafii, H; Solymoss, S; Brilhante, D; Monreal, M; Bounameaux, H; Pabinger, I; Douketis, J; Int Initiative Thrombosis Canc ITA. 2019 international clinical practice guidelines for the treatment and prophylaxis of venous thromboembolism in patients with cancer. LANCET ONCOLOGY. 2019; 20(10) 566-581. FI: 33.752. Cuartil: 1. (Review).*

- *Isla, D; De Las Penas, R; Insa, A; Marse, R; Martinez-Banaclocha, N; Mut, P; Moran, T; Sala, MA; Massuti, B; Ortega, AL; Jurado, JM; Gomez-Codina, J; Diz, P; Artal, A; Gutierrez, V; Vazquez, MF; Vinolas, N; Maestu, I; Camps, C; Alvarez, R; Soto, MAD; Ponce, S; Provencio, M. Oral vinorelbine versus etoposide with cisplatin and chemo-radiation as treatment in patients with stage III non-small cell lung cancer: A randomized phase II (RENO study). LUNG CANCER. 2019; 135 161-168. FI: 4.702. Cuartil: 1. (Article).*

- *Perez-Ruiz, E; Minute, L; Otano, I; Alvarez, M; Ochoa, MC; Belsue, V; de Andrea, C; Rodriguez-Ruiz, ME; Perez-Gracia, JL; Marquez-Rodas, I; Llacer, C; Alvarez, M; de Luque, V; Molina, C; Teijeira, A; Berraondo, P; Melero, I. Prophylactic TNF blockade uncouples efficacy and toxicity in dual CTLA-4 and PD-1 immunotherapy. NATURE. 2019; 569(7756) 428-. FI: 42.778. Cuartil: 1. (Article).*

- *Kopetz, S; Grothey, A; Yaeger, R; Van Cutsem, E; Desai, J; Yoshino, T; Wasan, H; Ciardiello, F; Loupakis, F; Hong, YS; Steeghs, N; Guren, TK; Arkenau, HT; Garcia-Alfonso, P; Pfeiffer, P; Orlov, S; Lonardi, S; Elez, E; Kim, TW; Schellens, JHM; Guo, C; Krishnan, A; Dekervel, J; Morris, V; Ferrandiz, AC; Tarpgaard, LS; Braun, M; Gollerkeri, A; Keir, C; Maharry, K; Pickard, M; Christy-Bittel, J; Anderson, L; Sandor, V; Tabernero, J. Encorafenib, Binimetinib, and Cetuximab in BRAF V600E-Mutated Colorectal Cancer. NEW ENGLAND JOURNAL OF MEDICINE. 2019; 381(17) 1632-1643. FI: 74.699. Cuartil: 1. (Article).*

- *Larkin, J; Chiarion-Sileni, V; Gonzalez, R; Grob, JJ; Rutkowski, P; Lao, CD; Cowey, CL; Schadendorf, D; Wagstaff, J; Dummer, R; Ferrucci, PF; Smylie, M; Hogg, D; Hill, A; Marquez-Rodas, I; Haanen, J; Guidoboni, M; Maio, M; Schoffski, P; Carlino, MS; Lebbe, C; McArthur, G; Ascierto, PA; Daniels, GA; Long, GV; Bastholt, L; Rizzo, JI; Balogh, A; Moshyk, A; Hodi, FS; Wolchok, JD. Five-Year Survival with Combined Nivolumab and Ipilimumab in Advanced Melanoma. NEW ENGLAND JOURNAL OF MEDICINE. 2019; 381(16) 1535-1546. FI: 74.699. Cuartil: 1. (Article).*

- *Colomer, R; Saura, C; Sanchez-Rovira, P; Pascual, T; Rubio, IT; Burgues, O; Marcos, L; Rodriguez, CA; Martin, M; Lluch, A. Neoadjuvant Management of Early Breast Cancer: A Clinical and Investigational Position Statement. ONCOLOGIST. 2019; 24(10) 1375-1383. FI: 5.025. Cuartil: 2. (Article).*

- *Garcia-Carbonero, R; Marquez-Rodas, I; de la Cruz-Merino, L; Martinez-Trufero, J; Cabrera, MA; Piulats, JM; Capdevila, J; Grande, E; Martin-Algarra, S; Berrocal, A. Recent Therapeutic Advances and Change in Treatment Paradigm of Patients with Merkel Cell Carcinoma. ONCOLOGIST. 2019; 24(5) 603-611. FI: 5.025. Cuartil: 2. (Article).*

- *Salvador-Martiin, S; Garcia-Gonzalez, X; Garcia, MI; Blanco, C; Garcia-Alfonso, P; Robles, L; Gravalos, C; Pachon, V; Longo, F; Martinez, V; Sanjurjo-Saez, M; Lopez-Fernandez, LA. Comments on: "Clinical utility of ABCB1 genotyping for preventing toxicity in treatment with irinotecan". PHARMACOLOGICAL RESEARCH. 2019; 145 -. FI: 5.893. Cuartil: 1. (Letter).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Trilla-Fuertes, L; Gamez-Pozo, A; Prado-Vazquez, G; Zapater-Moros, A; Diaz-Almiron, M; Fortes, C; Ferrer-Gomez, M; Lopez-Vacas, R; Blanco, VP; Marquez-Rodas, I; Soria, A; Vara, JAF; Espinosa, E. Melanoma proteomics suggests functional differences related to mutational status. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Lope, V; Martin, M; Castello, A; Ruiz, A; Casas, AM; Baena-Canada, JM; Antolin, S; Ramos-Vazquez, M; Garcia-Saenz, JA; Munoz, M; Lluch, A; de Juan-Ferre, A; Jara, C; Sanchez-Rovira, P; Anton, A; Chacon, JI; Arcusa, A; Jimeno, MA; Bezares, S; Vioque, J; Carrasco, E; Perez-Gomez, B; Pollan, M. Overeating, caloric restriction and breast cancer risk by pathologic subtype: the EPIGEICAM study. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Borrero-Palacios, A; Cebrian, A; del Pulgar, MTG; Garcia-Carbonero, R; Garcia, P; Aranda, E; Elez, E; Lopez-Lopez, R; Cervantes, A; Valladares, M; Nadal, C; Vieitez, JM; Guillen-Ponce, C; Rodriguez, J; Hernandez, I; Garcia, JL; Vega-Bravo, R; Puime-Otin, A; Martinez-Useros, J; Del Puerto-Nevado, L; Rincon, R; Rodriguez-Remirez, M; Rojo, F; Garcia-Foncillas, J. Combination of KIR2DS4 and Fc gamma RIIa polymorphisms predicts the response to cetuximab in KRAS mutant metastatic colorectal cancer. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Lopez-Tarruella, S; Escudero, MJ; Pollan, M; Martin, M; Jara, C; Bermejo, B; Guerrero-Zotano, A; Garcia-Saenz, J; Santaballa, A; Alba, E; Andres, R; Martinez, P; Calvo, L; Fernandez, A; Batista, N; Llombart-Cussac, A; Anton, A; Lahuerta, A; de la Haba, J; Lopez-Vega, JM; Carrasco, E. Survival impact of primary tumor resection in de novo metastatic breast cancer patients (GEICAM/El Alamo Registry). SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Font, A; Luque, R; Villa, JC; Domenech, M; Vazquez, S; Gallardo, E; Virizuela, JA; Beato, C; Morales-Barrera, R; Gelabert, A; Macia, S; Puente, J; Rubio, G; Maldonado, X; Perez-Valderrama, B; Pinto, A; Calvo, OF; Grande, E; Garde-Noguera, J; Fernandez-Parra, E; Arranz, JA. The Challenge of Managing Bladder Cancer and Upper Tract Urothelial Carcinoma: A Review with Treatment Recommendations from the Spanish Oncology Genitourinary Group (SOGUG). TARGETED ONCOLOGY. 2019; 14(1) 15-32. FI: 4.036. Cuartil: 2. (Review).*

- *Carmona-Bayonas, A; Jimenez-Fonseca, P; Garrido, M; Custodio, A; Hernandez, R; Lacalle, A; Cano, JM; Aguado, G; de Castro, EM; Mancenido, FA; Macias, I; Visa, L; Richard, MM; Mangas, M; Canovas, MS; Longo, F; Rey, LI; Lago, NM; Carnicero, AM; Sanchez, A; Azkarate, A; Limon, ML; Perez, CH; Ramchandani, A; Pimentel, P; Cerda, P; Serrano, R; Gil-Negrete, A; Marin, M; Hurtado, A; Bayona, RS; Gallego, J. Multistate Models: Accurate and Dynamic Methods to Improve Predictions of Thrombotic Risk in Patients with Cancer. THROMBOSIS AND HAEMOSTASIS. 2019; 119(11) 1849-1859. FI: 4.379. Cuartil: 1. (Article).*

- *Mulder, FI; Kraaijpoel, N; Di Nisio, M; Meyer, G; Mahe, I; Munoz, A; Bertoletti, L; Biosca, M; Maraveyas, A; Buller, HR; van Es, N. The Ottawa score performs poorly in cancer patients with incidental pulmonary embolism. THROMBOSIS RESEARCH. 2019; 181 59-63. FI: 2.869. Cuartil: 2. (Article).*

- *Agnelli C; Valerio M; Olmedo M; Guinea J; Zatarain-Nicolás E; Del Carmen Martínez-Jiménez M; Alcalá L; Escribano P; Cebollero Presmanes M; Bouza E; Muñoz P; Martín-Rabadán P. Fatal disseminated infection by Gymnascella hyalinospora in a heart transplant recipient. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(5) -. FI: 2.071. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Cabezon-Gutierrez, L; Khosravi-Shahi, P; Palka-Kotlowska, M; Custodio-Cabello, S; Garcia-Martos, M. Diffuse Idiopathic Pulmonary Neuroendocrine Cell Hyperplasia: Review of the Literature and a Single-center Experience. CUREUS. 2019; 11(9) -. (Review).*

- *Benavides, M; Diaz-Rubio, E; Carrato, A; Abad, A; Guillen, C; Garcia-Alfonso, P; Gil, S; Cano, MT; Safont, MJ; Gravalos, C; Manzano, JL; Sanchez, A; Alcaide, J; Lopez, R; Massuti, B; Sastre, J; Martinez, E; Escudero, P; Mendez, M; Aranda, E; Spanish Cooperative Grp Tre. Tumour location and efficacy of first-line EGFR inhibitors in KRAS/RAS wild-type metastatic colorectal cancer: retrospective analyses of two phase II randomised Spanish TTD trials. ESMO OPEN. 2019; 4(6) -. (Article).*

- *Alfano, F; Fisac, JEO; Garcia-Sevilla, M; Conde, MH; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. PRONE TO SUPINE SURFACE BASED REGISTRATION WORKFLOW FOR BREAST TUMOR LOCALIZATION IN SURGICAL PLANNING. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).*

- *Moreno, F; Gayarre, J; Lopez-Tarruella, S; del Monte-Millan, M; Picornell, AC; Alvarez, E; Garcia-Saenz, JA; Jerez, Y; Marquez-Rodas, I; Echavarria, I; Palomero, M; Bueno, C; Bodi, AMA; Munoz, MS; del Val, RG; Bueno, O; Cebollero-Presmanes, M; Ocana, I; Arias, A; Romero, P; Massarrah, T; Ramos-Medina, R; Martin, M. Concordance of Genomic Variants in Matched Primary Breast Cancer, Metastatic Tumor, and Circulating Tumor DNA: The MIRROR Study. JCO PRECISION ONCOLOGY. 2019; 3 -. (Article).*

- *Johnston, S; Martin, M; Di Leo, A; Im, SA; Awada, A; Forrester, T; Frenzel, M; Hardebeck, MC; Cox, J; Barriga, S; Toi, M; Iwata, H; Goetz, MP. MONARCH 3 final PFS: a randomized study of abemaciclib as initial therapy for advanced breast cancer. NPJ BREAST CANCER. 2019; 5 -. (Article).*

***Other publications***

- *Kraaijpoel N; Bleker SM; Meyer G; Mahé I; Muñoz A; Bertoletti L; Bartels-Rutten A; Beyer-Westendorf J; Porreca E; Boulon C; van Es N; Iosub DI; Couturaud F; Biosca M; Lerede T; Lacroix P; Maraveyas A; Aggarwal A; Girard P; Büller HR; Di Nisio M; UPE investigators. Treatment and Long-Term Clinical Outcomes of Incidental Pulmonary Embolism in Patients With Cancer: An International Prospective Cohort Study. JOURNAL OF CLINICAL ONCOLOGY. 2019; 37(20) 1713-1720. FI: 32.956. Cuartil: 1. (Article).*

- *Ciruelos E; Alba E; López R; Lluch A; Martín M; Arroyo I; Navarro B; Carcedo D; Colomer R; Albanell J. Contribution of trastuzumab to the prognostic improvement of HER2-positive early breast cancer in Spain: an estimation of life years and disease-free life years gained since its approval. ONCOTARGET. 2019; 10(42) 4321-4332. (Article).*

- *Álvarez Álvarez R; Cruz Jurado J; Del Muro Solans XG; Giner JL; López Pousa A; Martín-Broto J; Valverde CM. Optimization of the Therapeutic Approach to Patients with Sarcoma: Delphi Consensus. SARCOMA. 2019; 2019 4351308-4351308. (Article).*

# 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell trasplantation

Group Directors: **José Luis Díez Martín & Ismael Buño Borde**
Organisms involved: **HGUGM**
**UCM**
**Consolidated Group**

## Research lines

**Axis 1: Hematology-oncology in adults**

Line 1. **Transplantation of hematopoietic progenitor cells.**
- 1.1. Transplantation of nonconventional hematopoietic progenitor cells (haploidentical, dual).
- 1.2. Transplantation of hematopoietic progenitor cells in patients with AIDS.
- 1.3. Cell therapy (mesenchymal, NK cells, etc.)
- 1.4. Follow-up of transplantation of hematopoietic progenitors (genetics and flow cytometry).
- 1.5. Biomarkers for prediction of post-transplant complications (genetic polymorphisms, proteins, etc.).
- 1.6. Gene/cell therap with CAR-T cells

Line 2. **Myeloid neoplasms: Acute myeloid leukemia and myelodysplastic syndrome**.
- 2.1. Treatment with next-generation drugs.
- 2.2. Genomics of the tumor cell.
- 2.3. In vitro drug resistance studies.
- 2.4. Cytotoxicity studies with NK.

Line 3. **High-grade lymphomas**.
- 3.1. Liquid biopsy (free DNA in plasma) in high-grade lymphomas.

Line 4. **Chronic myeloid leukemia**.
- 4.1. Studies on discontinuation of tyrosine kinase inhibitors in chronic myeloid leukemia.

Line 5. **Genetics of hematologic neoplasms**.
- 5.1. Genetic markers for diagnosis, prognosis, and targeted treatment.
- 5.2. Genomics of hematologic neoplasms: next-generation sequencing.
- 5.3. Leukemogenesis models.
- 5.4 Germ genomic alterations

Line 6. **Clinical research (clinical trials**).
- 6.1. Molecular targets in the treatment of hemato-oncology patients.
- 6.2. Monoclonal antibodies in the treatment of hematology-oncology patients.
- 6.3. Cell therapy (mesenchymal, NK cells, etc.
- 6.4. Gene/cell therap with CAR-T cells

Line 7. **Electronic management of clinical information**.

**Axis 2: Pediatric hematology-oncology**

Line 1. **Hemoglobinopathies**. (CSUR de Eritropatología Hereditaria)
- L1.1 Transplantation of hematopoietic progenitors in hemoglobinopathies
- L1.2 Clinical monitoring of sickle cell disease from neonatal screening
- L1.3 Erythrocytapheresis in the Pediatric Sickle Cell Patient

Line 2. **Adjuvant therapy in pediatric hematology-oncology**.

Line 3. **Fanconi anemia**.
- L3.1 Multidisciplinary follow-up in Fanconi's Anemia

Line 4. **Solid tumors in children**.

Line 5. **Leukemia in children.**

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ANDRES | ZAYAS | CRISTINA | R1 | First Stage Researcher |
| ANGUITA | VELASCO | JAVIER | R3 | Established Researcher |
| BAILEN | ALMOROX | REBECA | R1 | First Stage Researcher |
| BASTOS | OREIRO | MARIANA BEATRIZ | R3 | Established Researcher |
| BARDON | CANCHO | EDUARDO | R1 | First Stage Researcher |
| BELENDEZ | BIELER | CRISTINA | R3 | Established Researcher |
| BELIZ | MENDIOLA | CRISTINA | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| BORREGO | VILLEGAS | LAURA | Other | |
| BUÑO | BORDE | ISMAEL | R4 | Leading Researcher |
| CARBONELL | MUÑOZ | DIEGO | R1 | First Stage Researcher |
| CASTRO | LABRADOR | LAURA | R1 | First Stage Researcher |
| CELA | DE JULIÁN | ELENA | R3 | Established Researcher |
| CHICANO | LAVILLA | MARIA | R2 | Recognised Researcher |
| DÍEZ | MARTÍN | JOSÉ LUÍS | R4 | Leading Researcher |
| DORADO | HERRERO | NIEVES | R1 | First Stage Researcher |
| ENCINAS | RODRÍGUEZ | CRISTINA | R1 | First Stage Researcher |
| FONT | LÓPEZ | PATRICIA | R1 | First Stage Researcher |
| GARCIA | GARCIA | ANA MARIA | Other | |
| GARCÍA | MORÍN | MARINA | R1 | First Stage Researcher |
| GARRIDO | COLINO | CARMEN | R3 | Established Researcher |
| GÓMEZ | CENTURIÓN | IGNACIO | | |
| HERNANDEZ | MARTIN | MARTA MARIA | Other | Clinical Trial Manager |
| HUERTA | ARAGONÉS | JORGE | R1 | First Stage Researcher |
| KWON | KIM | MI | R3 | Established Researcher |
| MARTINEZ | LAPERCHE | CAROLINA | R3 | Established Researcher |
| MATA | FERNÁNDEZ | CRISTINA | R3 | Established Researcher |
| MEDIN | DE BLOCK | HILDA GABRIELA | R1 | First Stage Researcher |
| MENARGUEZ | PALANCA | FRANCISCO JAVIER | R3 | Established Researcher |
| MONSALVO | SAORNIL | SILVIA | R1 | First Stage Researcher |
| MUÑIZ | SEVILLA | PAULA | R1 | First Stage Researcher |
| MUÑOZ | MARTINEZ | CRISTINA | Other | Clinical Trial Manager |
| OARBEASCOA | ROYUELA | GILLEN | R1 | First Stage Researcher |
| OSORIO | PRENDES | SANTIAGO | R2 | Recognised Researcher |
| PASCUAL | IZQUIERDO | CRISTINA | R2 | Recognised Researcher |
| PEREZ | BALSERA | GONZALO | R1 | First Stage Researcher |
| PÉREZ | CORRAL | ANA MARÍA | R2 | Recognised Researcher |
| PRIETO | MEDINA | MARIA DEL MAR | R1 | First Stage Researcher |
| RUBIO | AZPEITIA | EVA | R2 | Recognised Researcher |
| SUÁREZ | GONZÁLEZ | JULIA | R2 | Recognised Researcher |
| ZAMARRO | ARRANZ | ROSARIO | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Biomarcadores genómicos y transcriptómicos del sistema inmune para la elaboración de modelos de riesgo de desarrollo de complicaciones post-trasplante hematopoyético**. PI17/01880
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Infusión post trasplante de células NK del donante, en pacientes con leucemia aguda de mal pronóstico sometidos a trasplante ha ploidéntico no manipulado**. PI15/00879
DIRECTOR: DÍEZ MARTÍN, JOSÉ LUÍS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Bioinformatic contract** CA18/00040
DIRECTOR: LAURA CASTRO LABRADOR
PROJECT TYPE: Human resources
FUNDING BODY: FUNDACIÓN ESPAÑOLA HEMATOLOGÍA Y HEMOTERAPIA (F:E:H:H.)
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Research Grant** FEHHDC-2018
DIRECTOR: CARBONELL MUÑOZ, DIEGO
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2019

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| Others (Internacional Consortium) | ICISTEM - International Collaboration to guide and investigate the potential for HIV cure by Stem Cell Transplantation | Collaborating group |
| CIBER | CIBERER (CIBER de Enfermedades Raras) | Collaborating group |
| CSUR (Centers, Services and Reference Units. Comunidad de Madrid) | CSUR de Eritropatología Hereditaria | Collaborating group |

## *Industrial and intellectual property registrations*

### *Industrial property*

| *Title* | *Reference* | *Owner* | *Inventors* |
|---|---|---|---|
| **alloGenomics** | M 3600830 | FIBHGM | Ismael Buño, Milagros González-Rivera, José Luis Díez-Martín, Carolina Martínez-Laperche Elena Buces, Jorge Gayoso, Mi Kwon, David Serrano, Pascual Balsalobre |

***** ***Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

### *Intellectual property*

| *Title* | *Reference* | *Owner* | *Inventors* |
|---|---|---|---|
| **Herramienta informática para la Gestión Electrónica de la Agenda de Transplante Hematopoyético "gesTHrónica"** | Nº Asiento Registral: 16/2008/7735 | FIBHGM | Pascual Balsalobre, Ismael Buño, José Luis Diez |
| **Panel alloGENOMICS v1.13 – Panel de genes y regiones de interés para su aplicación en el estudio de la influencia de los polimorfismos genéticos en el desarrollo de complicaciones post-trasplante alogénico de progenitores hematopoyéticos (alo-TPH)** | Nº Asiento Registral: 16/2014/7306 | FIBHGM | Ismael Buño, Milagros González, José Luis Diez, Jorge Gayoso, Carolina Martínez, Elena Buces, David Serrano, Pascual Balsalobre, Mi Kwon |

## *Clinical Practice Guidelines*

| Authors | Title | Journal / Reference |
|---|---|---|
| Marina García Morín | **Guía de recomendaciones de la SEHOP para el tratamiendo de la leucemia linfoblástica aguda o bifenotípica del lactante menor de un año** | Sociedad española de hematología y oncología pediátricas |



## *Publications* *Total Impact Factor:* ***102.4***

| | Nº | FI |
|---|---|---|
| Own publications | 11 | 31.6 |
| Joint publications | 21 | 70.8 |
| First decile publications | 3 | 18.4 |
| First quartile publications | 10 | 51.8 |
| Second quartile publications | 8 | 28.1 |
| Third quartile publications | 4 | 7.0 |
| Fourth quartile publications | 10 | 15.4 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **36** | **102.4** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; Lopez-Fernandez, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Diez-Martin, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).*
- *Fernandez-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodriguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Perez-Lago, L; de Viedma, DG; Martin, JLD; Munoz, P. A Case-Control Study of Real-Life Experience with Ceftolozane-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).*
- *Sahebi, F; Garderet, L; Kanate, AS; Eikema, DJ; Knelange, NS; Alvelo, OFD; Koc, Y; Blaise, D; Bashir, Q; Moraleda, JM; Dreger, P; Sanchez, JF; Ciurea, S; Schouten, H; Shah, NN; Verbeekl, M; Rosler, W; Diez-Martin, JL; Schoenland, S; D'Souza, A; Kroger, N; Hari, P. Outcomes of Haploidentical Transplantation in Patients with Relapsed Multiple Myeloma: An EBMT/CIBMTR Report. BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION. 2019; 25(2) 335-342. FI: 3.853. Cuartil: 2. (Article).*
- *Raj, K; Eikema, DJ; McLornanl, DP; Olavarria, E; Bloke, HJ; Bregante, S; Ciceri, F; Passweg, J; Ljungman, P; Schaap, N; Carlson, K; Zuckerman, T; de Wreede, LC; Volin, L; Koc, Y; Diez-Martin, JL; Brossart, P; Wolf, D; Blaise, D; Di Bartolomeo, P; Vitek, A; Robin, M; Yakoub-Agha, I; Chalandon, Y; Kroger, N. Family Mismatched Allogeneic Stem Cell Transplantation for Myelofibrosis: Report from the Chronic Malignancies Working Party of European Society for Blood and Marrow Transplantation. BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION. 2019; 25(3) 522-528. FI: 3.853. Cuartil: 2. (Article).*
- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias,*

*MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *Rodriguez-Otero, P; Mateos, MV; Martinez-Lopez, J; Hernandez, MT; Ocio, EM; Rosinol, L; Martinez, R; Teruel, AI; Gutierrez, NC; Bargay, J; Bengoechea, E; Gonzalez, Y; de Oteyza, JP; Gironella, M; Nunez-Cordoba, JM; Encinas, C; Martin, J; Cabrera, C; Palomera, L; de Arriba, F; Cedena, MT; Puig, N; Oriol, A; Paiva, B; Blade, J; Lahuerta, JJ; San Miguel, JF. Predicting long-term disease control in transplant-ineligible patients with multiple myeloma: impact of an MGUS-like signature. BLOOD CANCER JOURNAL. 2019; 9 -. FI: 8.023. Cuartil: 1. (Article).*

- *Hubl, K; Re, A; Boumendil, A; Finel, H; Hentrich, M; Robinson, S; Wyen, C; Michieli, M; Kanfer, E; Diez-Martin, JL; Balsalobre, P; Vincent, L; Schroyens, W; Santasusana, JMR; Kroger, N; Schiel, X; Cwynarski, K; Esquirol, A; Sousa, AB; Cattaneo, C; Montoto, S; Dreger, P. Autologous stem cell transplantation for HIV-associated lymphoma in the antiretroviral and rituximab era: a retrospective study by the EBMT Lymphoma Working Party. BONE MARROW TRANSPLANTATION. 2019; 54(10) 1625-1631. FI: 4.725. Cuartil: 1. (Article).*

- *Bazarbachi, A; Boumendil, A; Finel, H; Mohty, M; Castagna, L; Blaise, D; Peggs, KS; Afanasyev, B; Diez-Martin, JL; Corradini, P; Michonneau, D; Robinson, S; Gutierrez Garcia, G; Bonifazi, F; Yakoub-Agha, I; Gulbas, Z; Bloor, A; Delage, J; Esquirol, A; Malladi, R; Scheid, C; El-Cheikh, J; Ghesquieres, H; Montoto, S; Dreger, P; Sureda, A. Brentuximab vedotin for recurrent Hodgkin lymphoma after allogeneic hematopoietic stem cell transplantation: A report from the EBMT Lymphoma Working Party. CANCER. 2019; 125(1) 90-98. FI: 5.742. Cuartil: 1. (Article).*

- *Peñalver FJ; Márquez JA; Durán S; Giraldo P; Martín A; Montalbán C; Sancho JM; Ramírez MJ; Terol MJ; Capote FJ; Gutiérrez A; Sánchez B; López A; Salar A; Rodríguez-Caravaca G; Canales M; Caballero MD; GELTAMO (The Spanish Lymphoma Cooperative Group); FONT LÓPEZ, PATRICIA. Response-adapted treatment with rituximab, bendamustine, mitoxantrone, and dexamethasone followed by rituximab maintenance in patients with relapsed or refractory follicular lymphoma after first-line immunochemotherapy: Results of the RBMDGELTAMO08 phase. CANCER MEDICINE. 2019; 8(16) 6955-6966. FI: 3.491. Cuartil: 2. (Article).*

- *Carbonell, D; Suarez-Gonzalez, J; Chicano, M; Andres-Zayas, C; Trivino, JC; Rodriguez-Macias, G; Bastos-Oreiro, M; Font, P; Ballesteros, M; Muniz, P; Balsalobre, P; Kwon, M; Anguita, J; Diez-Martin, JL; Buno, I; Martinez-Laperche, C. Next-Generation Sequencing Improves Diagnosis, Prognosis and Clinical Management of Myeloid Neoplasms. CANCERS. 2019; 11(9) -. FI: 6.126. Cuartil: 1. (Article).*

- *Oarbeascoa, G; Dorado, N; Bailen, R; Serrano, D; Balsalobre, P; Pradillo, V; Guinea, J; Padilla, B; Sancho, M; Machado, M; Buno, I; Anguita, J; Diez-Martin, JL; Kwon, M. Successful Treatment of Severe Aspergillosis with Isavuconazole Therapy after Allogeneic Stem Cell Transplantation. CHEMOTHERAPY. 2019; 64(2) 57-61. FI: 1.641. Cuartil: 4. (Article).*

- *de Mendoza, C; Roc, L; Fern?ndez-Alonso, M; Soriano, V; Rodr?guez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Aguilera, A; Rodr?guez-Calvi?o, JJ; Rivero, C; Vilari?o, MD; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eir?s, JM; Ramos, C; Manzardo, C; Mir?, JM; Garc?a-Costa, J; Calder?n, E; Escudero, D; Trigo, M; Diz, J; Garc?a-Campello, M; Rodr?guez-Iglesias, M; Hern?ndez-Betancor, A; Mart?n, AM; Ramos, JM; Gimeno, A; S?nchez, V; Guzm?n, M; G?mez-Hernando, C; Echeverria, MJ; Cilla, G; Fern?ndez-Pereira, L; Hern?ndez, M; L?pez-Lirola, AM; G?mez-Sirvent, JL; Force, L; Cifuentes, C; P?rez, S; Morano, L; Raya, C; Gonz?lez-Praetorius, A; Pe?aranda, M; Nieto, MC; Montejo, JM; Roc, L; Viciana, I; Cabezas, T; Lozano, A; P?rez-Camacho, I; Fern?ndez, JM; Garc?a-Bermejo, I; Gaspar, G; Tellez, R; G?rgolas, M; P?rez, L; Monsalvo, S; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Sauleda, S; Pir?n, M; Gonz?lez, R; Richart, A; Barea, L; Jim?nez, A; Blanco, L; Su?rez, A; Rodr?guez-Avial, I; Parra, P; Fern?ndez, M; Fern?ndez-Alonso, M; Reina, G; Trevi?o, A; Requena, S; Ben?tez-Guti?rrez, L; Cuervas-Mons, V; de Mendoza, C; Barreiro, P; Soriano, V; Corral, O; G?mez-Gallego, F; Spanish HTLV Network. HTLV testing of solid organ transplant donors. CLINICAL TRANSPLANTATION. 2019; 33(10) -. FI: 1.665. Cuartil: 3. (Letter).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-*

*Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Garcia-Cadenas, I; Yanez, L; Jarque, I; Martino, R; Perez-Simon, JA; Valcarcel, D; Sanz, J; Bermudez, A; Munoz, C; Calderon-Cabrera, C; Garcia, E; Alonso, L; Suarez-Lledo, M; Gonzalez Vicent, M; Heras, I; Viguria, MC; Batlle, M; Vazquez, L; Lopez, J; Solano, C; Spanish Grp Blood & Marrow Tran. Frequency, characteristics, and outcome of PTLD after allo-SCT: A multicenter study from the Spanish group of blood and marrow transplantation (GETH). EUROPEAN JOURNAL OF HAEMATOLOGY. 2019; 102(6) 465-471. FI: 2.22. Cuartil: 3. (Article).*

- *Garcia-Martin, E; Manrique-Rodriguez, S; Fernandez-Llamazares, CM; Goicoechea-Diezhondino, M; Alvarez-Blanco, O; Garcia-Morin, M; Sanjurjo-Saez, M. Variability in management and outcomes of therapy with eculizumab in atypical hemolytic uremic syndrome. EXPERT OPINION ON ORPHAN DRUGS. 2019; 7(12) 525-533. FI: 0.805. Cuartil: 4. (Article).*

- *Solan, L; Kwon, M; Carbonell, D; Dorado, N; Balsalobre, P; Serrano, D; Chicano-Lavilla, M; Anguita, J; Gayoso, J; Diez-Martin, JL; Martinez-Laperche, C; Buno, I. ST2 and REG3 alpha as Predictive Biomarkers After Haploidentical Stem Cell Transplantation Using Post-transplantation High-Dose Cyclophosphamide. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Article).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Cappelli, B; Volt, F; Tozatto-Maio, K; Scigliuolo, GM; Ferster, A; Dupont, S; Simoes, BP; Al-Seraihy, A; Aljurf, MD; Almohareb, F; Belendez, C; Matthes, S; Dhedin, N; Pondarre, C; Dalle, JH; Bertrand, Y; Vannier, JP; Kuentz, M; Lutz, P; Michel, G; Rafii, H; Neven, B; Zecca, M; Bader, P; Cavazzana, M; Labopin, M; Locatelli, F; Magnani, A; Ruggeri, A; Rocha, V; Bernaudin, F; de la Fuente, J; Corbacioglu, S; Gluckman, E; Cellular Therapy Immunobiology; Paediat Dise Working Party. Risk factors and outcomes according to age at transplantation with an HLA-identical sibling for sickle cell disease. HAEMATOLOGICA. 2019; 104(12) 543-546. FI: 7.116. Cuartil: 1. (Letter).*

- *Bardon-Cancho, EJ; Garrido-Colino, C; Hernandez-Garcia, B; Parra-Blanco, V; Garcia-Morin, M; Cela, E; Dominguez, MC. Overlap between Angiolymphoid Hyperplasia with Eosinophilia and Kimura's Disease in a Child with Immune Thrombocytopenic Purpura. INDIAN JOURNAL OF DERMATOLOGY. 2019; 64(2) 159-161. FI: 1.523. Cuartil: 3. (Letter).*

- *Revuelta-Herrero, JL; Garc?a-S?nchez, R; Anguita-Velasco, J; de Lorenzo-Pinto, A; Ortega-Navarro, C; Sanjurjo-S?ez, M. Drug safety surveillance within a strategy for the management of non-chemotherapy drug-induced neutropenia. INTERNATIONAL JOURNAL OF CLINICAL PHARMACY. 2019; 41(5) 1143-1147. FI: 1.616. Cuartil: 4. (Article).*

- *Bailen, R; Perez-Corral, AM; Pascual, C; Kwon, M; Serrano, D; Gayoso, J; Balsalobre, P; Muñoz C; Diez-Martin, JL; Anguita, J. Factors predicting peripheral blood progenitor cell mobilization in healthy donors in the era of related alternative donors: Experience from a single center. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 359-366. FI: 1.629. Cuartil: 4. (Article).*

- *Pascual, C; Gonzalez-Arias, E; Perez-Corral, AM; Bailen, R; Gayoso, J; Besson, N; Serrano, D; Kwon, M; Anguita, J; Diez-Martin, JL. Mononuclear cell collection for extracorporeal photopheresis by using the "off-line" system: A comparative study between COBE Spectra and Spectra Optia devices. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 373-380. FI: 1.629. Cuartil: 4. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Martin, MMH; Romero-Saldana, M; Del Cerro, JLP; Alonso-Safont, T; Molina-Recio, G; Monroy, AM. Occupational and work-related disease underestimated and linked to temporary disability through Primary Health Care Services. JOURNAL OF NURSING MANAGEMENT. 2019; 27(6) 1140-1147. FI: 2.243. Cuartil: 1. (Article).*

- *Osorio, S; Escudero-Vilaplana, V; Reguilon-Gallego, L; Gomez-Centurion, I; Diez, JL; Ferrer-Marin, F. Severe liver toxicity in a chronic myeloid leukemia patient probably induced by a drug interaction between imatinib and sertraline. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(2) 484-486. FI: 1.85. Cuartil: 4. (Article).*

- *Osorio S; Escudero-Vilaplana V; Gómez-Centurión I; González-Arias E; García-González X; Díez JL. Inadequate response to imatinib treatment in chronic myeloid leukemia due to a drug interaction with phenytoin. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(3) 694-698. FI: 1.85. Cuartil: 4. (Article).*

- *Alonso, L; Gonzalez-Vicent, M; Belendez, C; Badell, I; Sastre, A; Rodriguez-Villa, A; Bermudez-Cortes, M; Hladun, R; de Heredia, CD. Hematopoietic stem cell transplantation in pediatric patients with thalassemia and sickle cell disease: An*

*experience of the Spanish Working Group for Bone Marrow Transplantation in Children (GETMON). MEDICINA CLINICA. 2019; 152(4) 135-140. FI: 1.635. Cuartil: 3. (Article).*

- *Arias-Salgado, EG; Galvez, E; Planas-Cerezales, L; Pintado-Berninches, L; Vallespin, E; Martinez, P; Carrillo, J; Iarriccio, L; Ruiz-Llobet, A; Catala, A; Badell-Serra, I; Gonzalez-Granado, LI; Martin-Nalda, A; Martinez-Gallo, M; Galera-Minarro, A; Rodriguez-Vigil, C; Bastos-Oreiro, M; de Nanclares, GP; Leiro-Fernandez, V; Uria, ML; Diaz-Heredia, C; Valenzuela, C; Martin, S; Lopez-Muniz, B; Lapunzina, P; Sevilla, J; Molina-Molina, M; Perona, R; Sastre, L. Genetic analyses of aplastic anemia and idiopathic pulmonary fibrosis patients with short telomeres, possible implication of DNA-repair genes. ORPHANET JOURNAL OF RARE DISEASES. 2019; 14 -. FI: 3.523. Cuartil: 2. (Article).*

- *Rincon-Lopez, EM; Gomez, MLN; Matos, THS; Saavedra-Lozano, J; de la Red, YA; Ruperez, BH; de Julian, EC; Sebastian, MS; Garcia, BS; Morin, MG; Colino, CG; Bieler, CB; Aragones, JH; Fernandez, CM; RETRO-DREP Study Grp. Low-risk factors for severe bacterial infection and acute chest syndrome in children with sickle cell disease. PEDIATRIC BLOOD & CANCER. 2019; 66(6) -. FI: 2.355. Cuartil: 2. (Article).*

- *Gonzalez-Rincon, J; Mendez, M; Gomez, S; Garcia, JF; Martin, P; Bellas, C; Pedrosa, L; Rodriguez-Pinilla, SM; Camacho, FI; Quero, C; Perez-Callejo, D; Rueda, A; Llanos, M; Gomez-Codina, J; Piris, MA; Montes-Moreno, S; Barcena, C; Rodriguez-Abreu, D; Menarguez, J; De la Cruz-Merino, L; Monsalvo, S; Parejo, C; Royuela, A; Kwee, I; Cascione, L; Arribas, A; Bertoni, F; Mollejo, M; Provencio, M; Sanchez-Beato, M. Unraveling transformation of follicular lymphoma to diffuse large B-cell lymphoma. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*

- *Miranda-Bautista, J; Suarez-Gonzalez, J; Andres-Zayas, C; Buno, I; Banares, R. Familial low phospholipid-associated cholelithiasis resulting from an autosomal dominant ABCB4 mutation. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(10) 806-808. FI: 1.591. Cuartil: 4. (Article).*

- *Ramos, JT; Romero, CA; Belda, S; Candel, FJ; Gallego, BC; Fernandez-Polo, A; Antolin, LF; Colino, CG; Navarro, ML; Neth, O; Olbrich, P; Rincon-Lopez, E; Contreras, JR; Soler-Palacin, P; Spanish Soc Paediatric Infect Dis; Traslational Res Network Pediat In. Clinical practice update of antifungal prophylaxis in immunocompromised children. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(5) 410-425. FI: 1.132. Cuartil: 4. (Review).*

***Publications of the main WOS collection in journals without impact factor:***

- *Kwon, M; Bailen, R; Pascual-Cascon, MJ; Gallardo-Morillo, AI; Sola, AG; Balsalobre, P; Solan, L; Dorado, N; Munoz, C; Serrano, D; Martinez-Laperche, C; Buno, I; Anguita, J; Diez-Martin, JL; Grp Espanol Trasplante Hematopoye. Posttransplant cyclophosphamide vs cyclosporin A and methotrexate as GVHD prophylaxis in matched sibling transplantation. BLOOD ADVANCES. 2019; 3(3) 360-369. (Article).*

- *Dreger, P; Sureda, A; Ahn, KW; Eapen, M; Litovich, C; Finel, H; Boumendil, A; Gopal, A; Herrera, AF; Schmid, C; Diez-Martin, JL; Fuchs, E; Bolanos-Meade, J; Gooptu, M; Al Malki, MM; Castagna, L; Ciurea, SO; Dominietto, A; Blaise, D; Ciceri, F; Tischer, J; Corradini, P; Montoto, S; Robinson, S; Gulbas, Z; Hamadani, M. PTCy-based haploidentical vs matched related or unrelated donor reduced-intensity conditioning transplant for DLBCL. BLOOD ADVANCES. 2019; 3(21) 3351-3359. (Article).*

- *Colombatti, R; Cela, E; Elion, J; Lobitz, S. Editorial for Special Issue "Newborn Screening for Sickle Cell Disease and other Haemoglobinopathies". INTERNATIONAL JOURNAL OF NEONATAL SCREENING. 2019; 5(4) -. (Editorial Material).*

- *Daniel, Y; Elion, J; Allaf, B; Badens, C; Bouva, MJ; Brincat, I; Cela, E; Coppinger, C; de Montalembert, M; Gulbis, B; Henthorn, J; Ketelslegers, O; McMahon, C; Streetly, A; Colombatti, R; Lobitz, S. Newborn Screening for Sickle Cell Disease in Europe. INTERNATIONAL JOURNAL OF NEONATAL SCREENING. 2019; 5(1) -. (Review).*

# 6.04 Surgical oncology

Group Director: **Luis González- Bayón**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

**Axis 1: Treatment of malignant peritoneal disease (MPD**)
L1: Natural history of MPD and palliative treatment
L2: Imaging study of MPD (funded study)
L3. Pharmacokinetics of peritoneally administered drugs and delivery of systemic drugs to the peritoneum
**Axis 2: Treatment of MPD for cure: cytoreduction + hyperthermic intraoperative intraperitoneal chemotherapy (HIPEC)**
L1: Morbidity and mortality of the procedure
L2: Overall and disease-free survival in different tumor types
**Axis 3: Treatment of gastric cancer with carcinomatosis using preoperative bidirectional chemotherapy and cytoreduction + HIPEC**
L1: Morbidity and mortality of the procedure
L2: Overall and disease-free survival

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| GAGO | QUIROGA | SUSANA | | |
| GONZALEZ | BAYON | LUIS | R4 | Senior researcher |
| LOZANO | LOMINCHAR | PABLO | | |
| PALENCIA | GARCIA | NATIVIDAD | | |
| VASQUEZ | JIMENEZ | WENCESLAO | R3 | Postdoctoral |

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| Others | Peritoneal Surface Oncology Group International | Collaborating group |
| Others | Grupo Español de Cirugía Oncológica Peritoneal | Coordinator group |

## Publications

Total Impact Factor: **13.5**

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 0,8 |
| Joint publications | 2 | 12,7 |
| First decile publications | 1 | 10,1 |
| First quartile publications | 1 | 10,1 |
| Second quartile publications | 1 | 2,6 |
| Third quartile publications | 0 | 0,0 |
| Fourth quartile publications | 1 | 0,8 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **3** | **13,5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Kelly, ME; Glynn, R; Aalbers, AGJ; Alberda, W; Antoniou, A; Austin, KK; Beets, GL; Beynon, J; Bosman, SJ; Brunner, M; Buchler, MW; Burger, JWA; Campain, N; Christensen, HK; Codd, M; Coscia, M; Colquhoun, A; Daniels, I; Davies, RJ; de Wilt, JHW; Deutsch, C; Dietz, D; Eglinton, T; Fearnhead, N; Frizelle, FA; Garcia-Sabrido, JL; George, M; Gentilini, L; Harris, DA; Harji, D; Herriot, AG; Hohenberger, W; Jenkins, JT; Kanemitsu, Y; Loen, CKK; Kim, H; Koh, CE; Kok, N; Kontovounisios, C; Kulu, Y; Law, WL; Laurberg, S; Le, GN; Lydrup, ML; Lynch, AC; Martling, A; Meijerink, J; Merkel, S; McDermott, FD; McGrath, J; Nielsen, MB; Nieuwenhuijzen, GAP; Nordling, MA; Northover, JMA; O'Connell, PR; Patsouras, D; Poggioli, G; Radwan, RW; Rasheed, S; Rasmussen, PC; Rutten, HJT; Sagar, PM; Schizas, A; Shida, D; Smart, N; Solomon, MJ; Stocchi, L; Tekkis, PP; Tsukamoto, S; Turner, W; Tuynman, J; Ulrich, A; van Leeuwenhoek, A; van Ramshorst, GH; Vasquez-Jimenez, W; Verhoef, C; Versteegen, M; Wakeman, C; Warrier, S; Yip, J; Winter, DC; PelvEx Collaborative. Surgical and Survival Outcomes Following Pelvic Exenteration for Locally Advanced Primary Rectal Cancer Results From an International Collaboration. ANNALS OF SURGERY. 2019; 269(2) 315-321. FI: 10.13. Cuartil: 1. (Article).*

- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*

- *Lozano, P; Orue-Echebarria, MI; Asencio, JM; Sharma, H; Lisbona, CJ; Olmedilla, L; Pena, JMP; Salcedo, MM; Skaro, A; Velasco, E; Colon, A; Diaz-Zorita, B; Rodriguez, L; Ferreiroa, J; Lopez-Baena, JA. Donor Risk Index Has an Impact in Intraoperative Measure of Hepatic Artery Flow and in Clearance of Indocyanine Green: An Observational Cohort Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(1) 50-55. FI: 0.784. Cuartil: 4. (Article).*

# AREA 7 SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

Area Coordinator: **Rafael Bañares Cañizares**

The Area of Systemic Diseases comprises a broad spectrum of mainly clinical research groups. Its most fruitful research lines range from acute and chronic kidney failure to the biology of aging, covering fields such as the pathophysiology of liver and digestive diseases and abdominal organ transplantation. In addition, some of the groups in the Area participate in cooperative research structures funded by the ISCIII, such as the Centro de Investigación Biomédica en Red: Enfermedades Hepáticas y Digestivas (CIBEREHD [*Networked Center for Biomedical Research in Liver and Digestive Diseases*]) and have made a relevant contribution to the development and implementation of clinical practice guidelines or participate in and lead international cooperative academic projects, especially in South America. Similarly, some groups in the Area support European technology projects investigating home application of diagnostic tools and treatment for elderly patients.

The Area of Systemic Diseases is clearly heterogeneous, although several specific axes of activity can be defined.

The first is the clear increase in scientific output and its quality, with preference for emerging groups. The second involves promotion of translational research, by bringing research support platforms and services to clinical groups. Rapid solutions to research problems can only be found through a gradual process of addressing clinical issues in the laboratory. In the third axis, appropriate support and advice enable scaled application of researchers and groups for competitive funding calls, with the aim not only of obtaining financial support but also of addressing evaluations in an enriching competitive environment. Lastly, the Area aims to develop objectives in undergraduate and postgraduate training with the implementation of predoctoral programs in the various groups.

## GROUPS IN AREA

7.01. Infl ammation and vascular damage in chronic kidney disease, dialysis, and kidney transplant. Renal pathophysiology
7.02. Pathophysiology and natural history of liver and digestive diseases
7.04. Diseases of the critically ill child
7.05B. Medical-surgical, physiological, and therapeutic aspects of respiratory diseases
7.06. Regenerative medicine in plastic surgery
7.07. Experimental kidney transplant
7.08. Pediatric endocrinology
7.10. Regeneration and biomaterials in musculoskeletal diseases
7.11. Iron metabolism disorders
7.12. Emergency medicine
7.16. Regenerative medicine and systems development: cardiovascular and osteochondral
7.18. Peritransplant evaluation of the liver
7.19. Perianesthesia assessment
7.20. Anesthesia, toxins, and arrhythmias
7.21. Biopathology of aging
7.22. Neonatal and developmental physiology
7.25. Artifi cial circulation laboratory
7.26. Evaluation of health services and clinical epidemiology
7.27. Hospital pharmacy and pharmacogenomics
7.28. Clinical nutrition
7.29. Pharmacology and vascular pathophysiology
7.31. Pathophysiology in women, pregnancy, labor, and puerperium
7.32. Physical medicine and rehabilitation

# 7.01 Inflammation and vascular damage in chronic kidney disease, dialysis, and kidney transplant. Renal pathophysiology

Group Director: **José Luño Fernández**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

Chronic kidney disease (CKD) is a major public health problem. A systematic review, based on population studies from developed countries, described an average prevalence of 7.2% (individuals over 30 years old).
According to data from the EPIRCE study, it affects approximately 10% of the Spanish adult population and more than 20% of those over 60 years of age, and furthermore, it is probably under-diagnosed. In patients followed in Primary Care with diseases as frequent as high blood pressure (HTA) or diabetes mellitus (DM), the prevalence of CKD can reach 35-40%. The magnitude of the problem is even greater considering the increase in morbimortality, especially cardiovascular, related to renal deterioration.
Developing a good level of prevention should be a priority objective at the level of national health systems to avoid this dramatic increase in CKD and its consequences. Our research group aims to contribute to improve the prevention, diagnosis and complications of acute and chronic renal failure with different and wide lines of research in all fields.
Since 2017 we are part of RedinRen as a research group. The Renal Research Network (REDINREN) is a Thematic Network of Cooperative Research (RETIC) funded by the Carlos III Institute of Health Research belonging to the Ministry of Health, Consumer Affairs and Social Welfare, which aims to shorten the distance between research, clinical care and citizens and is a reference in the field of nephrology. REDINREN represents the cooperation of the most outstanding basic, translational and clinical research groups in Spain committed to the health of patients with renal disease (www.redinren.org). We are also a member of the Consortium for Research on Acute Renal Failure of the Community of Madrid (CIFRA2-CM) whose objectives include development of new models of acute renal failure in which to study the development of new models of early diagnostic tools, prognostic biomarkers and new therapeutic approaches (http://www.cifra2-cm.com/)

## Research lines

**Axis 1: Progression of chronic kidney disease**

L1. Aspirin in the progression of CV risk in patients with CKD. Leader: Dra.Goicoechea.
L2. Lipoxins in patients with CKD treated with aspirin. Leaders: Dra.Goicoechea and Dra.Verdalles.
L3. Reduction in uric acid levels in patients with CKD: progression of renal damage and CV risk. Leaders: Dra.Goicoechea, Dra. Aragoncillo, Dra.Pérez de José, Dra.Verdalles and Dr.Luño.
L4. Blockade of RAS and disease progression in nondiabetic patients with CKD. Leader: Dra.Aragoncillo, Dr.Verde, Dra.Goicoechea.
L5. Oral antidiabetics and progression of CKD
L6. Pentoxifylline and progression of CKD
L7. Atrial fibrillation and progression of CKD

**Axis 2: Vascular access and dialysis complications**

L1. Physical activity and muscle development in maturation and maintenance of AV fistula for hemodialysis. Leaders: Dra. Aragoncillo, Dra.Abad and Dra. Vega.
L2. Catheters Leaders: Dr. Verde, Dra. Abadand Dra.Vega

**Axis 3: Morbimortality and cardiovascular risk in dialysis patients**

L1. Clearance of medium molecular weight uremic toxins bound to proteins: HFR
L2. Prevention of sarcopenia in patients with advanced CKD and in dialysis. Leaders: Dra.Abad, Dra.Vega, Dra.Aragoncillo and Dr. Luño.
L3. Cardiac arrhythmias and prognosis in patients with advanced CKD and in dialysis. Leaders: Dr.Verde, Dra.Abad and Dra. Vega.
L4. MRI in dialysis patients. Evaluation of the cerebral effect of intradialysis hypotension episodes. Leaders: Dr.Cedeño, Dra.Abad, Dra.Vega, Dr.Macias and Dr.Luño
L5. Efficacy of CAPD in treatment of refractory heart failure. Leaders: Dra. Abad, Dra.Vega and Dr.Macias
L6. Evaluation of convective transport and HF techniques online in the efficacy, tolerance, and long-term prognosis of patients with ESRD. Leaders: Dr.Macias, Dra.Vega and Dra. Abad
L7. Serum bank for CKD, dialysis, and kidney transplant. Leaders: Dra Abad, Dra. Vega, Dr. Mecias and Dr. Luño

**Axis 4: Acute kidney failure**

L1. Acute kidney failure and progressive renal damage. Leaders: Dr. Lázaro, Dr. Rodríguez Benítez and Dra. Melero.

L2. Search for new therapeutic strategies in FRA. Leaders: Lázaro González-Nicolás González, González Guerrero, Pérez-Fernández
L3. FRA, Inflammation and Amplification of Organic Damage. Leaders: Lázaro González-Nicolás González, González-Guerrero, Pérez Fernández
L4. Kidney disorders related to pregnancy. Leaders: Rodriguez-Benitez, Melero
L5. Acute renal failure and metformin. Leaders: Melero, RodriguezBbenitez
L6. Venovenous hemofiltration techniques continue in acute renal failure. Leaders:Rodriguez-Benitez, Melero

**Axis 5: Hypertension and chronic kidney disease**

L1. Refractory hypertension and prognosis in patients with CKD. Leaders: Dra.Verdalles, Dra.Pérez de José and Dr.Luño.

**Axis 6: Virus C and renal alterations**

L1.Treatment of hepatitis C in hemodialysis. Efficacy of various direct antiviral regimens. Leaders: Dra. Abad, Dra.Vega, Dra.Aragoncillo and Dr.Luño.
L2. C virus and cryoglobulinemia. Leaders: Perez de Jose, Verdalles, Verde, Goicoechea

**Axis 7: Morbidity, mortality, and cardiovascular risk in patients with CKD**

L1. CKD. . Leaders: Abad, Bega, Macias,Luño

**Axis 8: Usefulness of aferesis in the prevention and control of different pathologies**

L1. PCSK9 inhibitor (evolocumab) +/- apheresis in the treatment of severe hypercholesterolemia. Leaders: Dra. Goicoechea, Dr. Anaya and Dr. Luño.

**Axis 9: Kidney transplant**

L1. TR Specific Donor Antibodies. . Leaders: Rodriguez Ferrero, Anaya
L2. Kidney Transplant Infections. . Leaders: Sanchez-Camara, Macias, Rodriguez-Ferrero, Rengel, Anaya

## *Group members*

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ABAD | ESTEBANEZ | SORAYA | R1 | |
| ANAYA | FERNÁNDEZ-LOMANA | FERNANDO | R3 | |
| ARAGONCILLO | SAUCO | INES | R1 | |
| ARROYO | RUEDA | DAVID | | |
| BARRACA | NUÑEZ | DANIEL | R1 | |
| GARCÍA | PRIETO | ANA MARIA | R1 | |
| GARCÍA DE VINUESA | ROJAS | SOLEDAD | R3 | |
| GOICOECHEA | DIEZHANDINO | MARIAN | ~~R3~~ | |
| GONZÁLEZ | GUERRERO | CRISTIAN | | |
| GONZALEZ-NICOLAS | GONZALEZ | Mª ANGELES | R1 | |
| LAZARO | FERNANDEZ | ALBERTO | ~~R3~~ | |
| LÓPEZ | GÓMEZ | JUAN MANUEL | R3 | |
| LUÑO | FERNÁNDEZ | JOSÉ | R4 | |
| MACIAS | CARMONA | NICOLAS | R1 | |
| MARTÍN | SÁNCHEZ | BEATRIZ | | |
| MELERO | MARTÍN | ROSA | R1 | |
| PÉREZ | DE JOSÉ | ANA MARÍA | R2 | |
| PÉREZ | FERNÁNDEZ | VERÓNICA ASTRID | | |
| RENGEL | ARANDA | MANUEL ANTONIO | R3 | |
| RODRÍGUEZ | BENÍTEZ | PATROCINIO | R1 | |
| RODRÍGUEZ | FERRERO | MARÍA LUISA | R1 | |
| SANCHEZ | CAMARA | LUIS ALBERTO | R1 | |
| TEJEDOR | BRAVO | MARTA | ~~R1~~ | |
| VEGA | MARTINEZ | MARIA ALMUDENA | R2 | |
| VERDALLES | GUZMAN | URSULA | R2 | |
| VERDE | MORENO | EDUARDO | R2 | |

## *Research Projects – Competitive Calls*

TITLE: I**ntervenciones sobre las balsas de colesterol epiteliales derivadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/00276
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatias pigmentosas.paludismo y rabdomiolisis** SENEFRO18/01
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SENEFRO
START DATE: 01/01/2019
END DATE: 31/12/2020

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| RETICS | REDINREN | Collaborating group |
| Others (Scientific Societies Networks) | Consorcio para la Investigación del Fracaso Renal Agudo (CIFRA). Comunidad de Madrid | Collaborating group |

## *Industrial and intellectual property registrations*

*Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos** | PCT/ES2008/070137 (Familia con 22 patentes) | FIBHGM | Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas |
| **Método de diagnóstico de insuficiencia renal** | P201131506 | FIBHGM - Universidad de Alcalá de Henares - Fundació PUIGVERT | Ricardo Bosch, Arancha Ortega, Jordi Bover, Alberto Lázaro, Alberto Tejedor |
| **Cilastatin for use in the treatment of sepsis** | EP 16382299 | FIBHGM | Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| GOICOECHEA, VERDE, LUÑO | **GUIAS DE PRÁCTICA CLÍNICA EN EL MANEJO TERAPEUTICO DE LAS ENFERMEDADES GLOMERULARES** | LIBRO ISBN 978-84-1317-082-4, EDITORIAL CIRCULO ROJO |

## *Publications* *Total Impact Factor: **76.7***

| | Nº | FI |
|---|---|---|
| Own publications | 8 | 20.1 |
| Joint publications | 16 | 56.6 |
| First decile publications | 3 | 20.4 |
| First quartile publications | 12 | 56.1 |
| Second quartile publications | 2 | 6.4 |

| | | |
|---|---|---|
| Third quartile publications | 2 | 3.8 |
| Fourth quartile publications | 8 | 10.5 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **25** | **76.7** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Ortega, A; Olea-Herrero, N; Arenas, MI; Velez-Velez, E; Moreno-Gomez-Toledano, R; Munoz-Moreno, C; Lazaro, A; Esbrit, P; Tejedor, A; Bosch, RJ. Urinary excretion of parathyroid hormone-related protein correlates with renal function in control rats and rats with cisplatin nephrotoxicity. AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY. 2019; 317(4) 874-880. FI: 3.144. Cuartil: 2. (Article).*

- *Perez-Saez, MJ; Covarrubias, OL; Hernandez, D; Moreso, F; Melilli, E; de Sousa, E; Lopez-Sanchez, P; Rodriguez-Ferrero, ML; Maruri-Kareaga, N; Navarro, MD; Valero, R; Mazuecos, MA; Llamas, F; Martin-Moreno, P; Fernandez-Garcia, A; Espi, J; Jimenez, C; Ramos, A; Gavela, E; Pascual, J; Portoles, JM; Sanchez-Sobrino, B; de Hierro, P; Zapatero, A; Manonelles, A; Juega, J; Lauzurica, R; Diekmann, F; Zarraga, S; Rodriguez-Benot, A; Ruiz, JC; Alonso, A; Lopez-Oliva, M; Sancho-Calabuig, A; GEODAS Grp. Early outcomes of kidney transplantation from elderly donors after circulatory death (GEODAS study). BMC NEPHROLOGY. 2019; 20 -. FI: 1.913. Cuartil: 3. (Article).*

- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

- *Sevillano, AM; Diaz, M; Caravaca-Fontan, F; Barrios, C; Bernis, C; Cabrera, J; Calvino, J; Castillo, L; Cobelo, C; Delgado-Mallen, P; Espinosa, M; Fernandez-Juarez, G; Fernandez-Reyes, MJ; Garcia-Osuna, R; Garcia, P; Goicoechea, M; Gonzalez-Cabrera, F; Guzman, DA; Heras, M; Martin-Reyes, G; Martinez, A; Olea, T; Pena, JK; Quintana, LF; Rabasco, C; Lopez Revuelta, K; Rodas, L; Rodriguez-Mendiola, N; Rodriguez, E; San Miguel, L; Sanchez de la Nieta, MD; Shabaka, A; Sierra, M; Valera, A; Velo, M; Verde, E; Ballarin, J; Noboa, O; Moreno, JA; Gutierrez, E; Praga, M; Spanish Grp Study Glomerular Dis. IgA Nephropathy in Elderly Patients. CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY. 2019; 14(8) 1183-1192. FI: 6.628. Cuartil: 1. (Article).*

- *Barbieri D; Garcia-Prieto A; Torres E; Verde E; Goicoechea M; Luno J. Mixed cryoglobulinaemia vasculitis after sustained hepatitis C virological response with direct-acting antivirals. CLINICAL KIDNEY JOURNAL. 2019; 12(3) 362-364. FI: 3.388. Cuartil: 1. (Article).*

- *Barbieri D; Goicoechea M; Sanchez-Nino MD; Ortiz A; Verde E; Verdalles U; Perez de Jose A; Delgado A; Hurtado E; Sanchez-Camara L; Lopez-Lazareno N; Garcia-Prieto A; Luno J. Obesity and chronic kidney disease progression-the role of a new adipocytokine: C1q/tumour necrosis factor-related protein-1. CLINICAL KIDNEY JOURNAL. 2019; 12(3) 420-426. FI: 3.388. Cuartil: 1. (Article).*

- *Macias N; Vega A; Abad S; Aragoncillo I; Garcia-Prieto AM; Santos A; Torres E; Luno J. Middle molecule elimination in expanded haemodialysis: only convective transport?. CLINICAL KIDNEY JOURNAL. 2019; 12(3) 447-455. FI: 3.388. Cuartil: 1. (Article).*

- *Arminanzas, C; Farinas-Alvarez, C; Zarauza, J; Munoz, P; Ramallo, VG; Selles, MM; Meda, JMM; Pericas, JM; Goenaga, MA; Burgos, GO; Alvarez, RR; Corral, LC; Galvez-Acebal, J; Marcos, FJM; Farinas, MC; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Amado, C; Castillo, CA; Garcia, AA; Belaustegui, MC; Izquierdo, RG; Garcia, I; Gonzalez-Rico, C; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Sarralde, A; Teira, R; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Role of age and comorbidities in mortality of patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 63-71. FI: 4.329. Cuartil: 1. (Article).*

- *Garcia-Martin, E; Manrique-Rodriguez, S; Fernandez-Llamazares, CM; Goicoechea-Diezhondino, M; Alvarez-Blanco, O; Garcia-Morin, M; Sanjurjo-Saez, M. Variability in management and outcomes of therapy with eculizumab in atypical hemolytic uremic syndrome. EXPERT OPINION ON ORPHAN DRUGS. 2019; 7(12) 525-533. FI: 0.805. Cuartil: 4. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish*

*nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Garcia, AS; Carmona, NM; Martinez, AV; Estebanez, SA; Gravalos, TL; Sauco, IA; Guzman, UV; Gonzalez, NP; Vega, LC; Gomez, JML. Removal capacity of different high-flux dialyzers during postdilution online hemodiafiltration. HEMODIALYSIS INTERNATIONAL. 2019; 23(1) 50-57. FI: 1.839. Cuartil: 3. (Article).*

- *Galar, A; Munoz, P; Valerio, M; Cercenado, E; Garcia-Gonzalez, X; Burillo, A; Sanchez-Somolinos, M; Juarez, M; Verde, E; Bouza, E. Current use of daptomycin and systematic therapeutic drug monitoring: Clinical experience in a tertiary care institution. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(1) 40-48. FI: 4.621. Cuartil: 1. (Article).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

- *de Morales, AM; Goicoechea, M; Verde, E; Carbayo, J; Barbieri, D; Delgado, A; Verdalles, U; de Jose, AP; Luno, J. Pentoxifylline, progression of chronic kidney disease (CKD) and cardiovascular mortality: long-term follow-up of a randomized clinical trial. JOURNAL OF NEPHROLOGY. 2019; 32(4) 581-587. FI: 3.484. Cuartil: 1. (Article).*

- *Rivera-Juarez, A; Hernandez-Romero, I; Puertas, C; Zhang-Wang, S; Sanchez-Alamo, B; Martins, R; Figuera, C; Guillem, MS; Climent, AM; Fernandez-Aviles, F; Tejedor, A; Jalife, J; Atienza, F. Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(3) -. FI: 4.605. Cuartil: 1. (Article).*

- *Macias, N; Abad, S; Aragoncillo, I; Hernandez, A; Torres, E; Santos, A; Gomez, JML; Luno, J; Vega, A. Body composition infuences the elimination of protein-bound uremic toxins in online hemodiafiltration. NEFROLOGIA. 2019; 39(2) 168-176. FI: 1.544. Cuartil: 4. (Article).*

- *Macías N; Abad S; Vega A; Cedeño S; Santos A; Verdalles Ú; Linares T; Aragoncillo I; Galán I; García-Prieto A; Luño J; López Gómez JM. High convective volumes are associated with improvement in metabolic profile in diabetic patients on online haemodiafiltration. NEFROLOGIA. 2019; 39(1) 44-49. FI: 1.544. Cuartil: 4. (Article).*

- *Carbayo, J; Rodriguez-Benitez, P; Diaz-Crespo, F; de Morales, AM. IgA dominant postinfectious glomerulonephritis secondary to cutaneous infection by methicillin-resistant Staphylococcus aureus. NEFROLOGIA. 2019; 39(4) 446-448. FI: 1.544. Cuartil: 4. (Letter).*

- *Mencia, JA; Vega, A; Abad, S; Caro, CR; Verdalles, U; Gomez, JML. Influence of calcium concentration in haemodialysis fluid on blood pressure control. NEFROLOGIA. 2019; 39(2) 151-159. FI: 1.544. Cuartil: 4. (Article).*

- *Portoles, JM; Perez-Saez, MJ; Lopez-Sanchez, P; Lafuente-Covarrubias, O; Juega, J; Hernandez, D; Espi, J; Navarro, MD; Mazuecos, MA; Rodriguez-Ferrero, ML; Maruri-Kareaga, N; Moreso, F; Melilli, E; de Souza, E; Ruiz, JC; Llamas, F; Gutierrez-Dalmau, A; Guirado, L; Martin-Moreno, P; Flores, IP; Fernandez-Garcia, A; Jimenez, C; Gavela, E; Ramos, A; Pascual, J; Grp GEODAS. Kidney transplant from controlled donors following circulatory death: Results from the GEODAS-3 multicentre study. NEFROLOGIA. 2019; 39(4) 434-436. FI: 1.544. Cuartil: 4. (Letter).*

- *Varas, J; Perez-Saez, MJ; Ramos, R; Merello, JI; de Francisco, ALM; Luno, J; Praga, M; Aljama, P; Pascual, J; Canaud, B; Gauly, A; Maduell, F; Martin-Malo, A; Stuard, S; Zawada, A; Optimizing Results Dialysis ORD Gr. Returning to haemodialysis after kidney allograft failure: a survival study with propensity score matching. NEPHROLOGY DIALYSIS TRANSPLANTATION. 2019; 34(4) 667-672. FI: 4.531. Cuartil: 1. (Article).*

- *Matesanz, CM; de la Gala, F; Rancan, L; Pineiro, P; Simon, C; Tejedor, A; Vara, E; Gonzalez-Cantero, JL; Garutti, I. Predictive value of plasma cytokines for acute kidney injury following lung resection surgery: prospective observational study. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 242-252. FI: 0.867. Cuartil: 4. (Article).*

- *Ramos-Vivas, J; Chapartegui-Gonzalez, I; Fernandez-Martinez, M; Gonzalez-Rico, C; Fortun, J; Escudero, R; Marco, F; Linares, L; Montejo, M; Aranzamendi, M; Munoz, P; Valerio, M; Aguado, JM; Resino, E; Ahufinger, IG; Vega, AP; Martinez, L; Farinas, MC; San Millan, JCR; Rodrigo, E; Morencos, FC; Fabrega, E; Cuadrado, A; Farinas-Alvarez, C; Gozalo, M; Revillas, FA; Davila, PM; Martinez, A; Garbajosa, PR; Moreno, A; Bodro, M; Solano, MF; Blanco, MJ; Nieto, J; Machado, M; Olmedo, M; Fernandez, SR; Sanz, CR; Rangel, TV; Bento, CA; Recalde, AG; Eworo, A; Fernandez-Lomana, FA; Rodriguez-Ferrero, ML; Camara, LAS; Chaves, F; Cisneros, JD; ENTHERE Study Grp; Spanish Soc Infect Dis Clin Microb; Spanish Network Res Infect Dis REI. Biofilm formation by multidrug resistant Enterobacteriaceae strains isolated from solid organ transplant recipients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Galeano-Valle, F; Diaz-Crespo, FJ; Melero-Martin, R; Apaza-Chavez, JE; Del-Toro-Cervera, J; Demelo-Rodriguez, P. Massive generalized crystal-storing histiocytosis associated with extracellular crystalline nephropathy: clinical, immunohistochemical, and ultrastructural studies of a unique disorder and review of the literature. CEN CASE REPORTS. 2019; 8(3) 166-172. (Review).*

# 7.02 Pathophysiology and natural history of liver and digestive diseases

Group Director: **Rafael Bañares Cañizares**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

This is a translational, multidisciplinary research group with clinical and basic research lines aimed globally at understanding the natural history and physiopathology of liver and digestive diseases.
Specifically, the research lines focus, in the case of liver diseases in cirrhosis and its complications, especially those derived from portal hypertension, artificial liver support, liver transplantation and liver cancer. In the field of gastroenterology, the group focuses on inflammatory bowel disease and the study of intestinal permeability and its regulatory mechanisms.
The group includes several principal investigators with overlapping funding in competitive public and private calls, and also carries out a considerable number of phase II-III clinical trials. Among the latest projects, it is worth mentioning the inclusion of the first patients in a project H2020 (ALIVER Project) aimed at the clinical assessment of a new artificial liver support device.
The group also acts as the coordinating group for the EXOHEP-CM program, aimed at studying cellular communication by exosomes and other extracellular vesicles, granted for the creation of networks between Research Groups in Technology and Biomedicine of the Community of Madrid, and as the group responsible for the NanoLiver-CM program aimed at the application of nanotechnology and biomedical imaging in liver disease granted in the call for synergetic R&D projects of the Community of Madrid, both co-financed with FEDER and European Social Fund funds.
The group is part of the CIBER of hepatic and digestive diseases since its inception.
It also stands out for its marked teaching vocation, both undergraduate and graduate.

## Research lines

**L1**: Complications of cirrhosis: natural history of liver cirrhosis
**L2:** Regulatory mechanisms of the permeability of the intestinal barrier and effect on intestinal homeostasis and on the pathogenesis of inflammatory bowel disease
**L3**: Liver transplant in the 21st century
**L4:** Role of intercellular communication through exosomes in liver diseases

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| AHUMADA | | ADRIANA | R1 | First Stage Researcher |
| ALONSO | LOPEZ | SONIA | R2 | Recognised Researcher |
| ARANDA | HERNANDEZ | JAVIER | R1 | First Stage Researcher |
| ASENSIO | GARCIA | IRIS | R1 | First Stage Researcher |
| BALAREZO | SALDIVAR | ALEJANDRA ESTEFANIA | Other: | Lab Technician |
| BAÑARES | CAÑIZARES | RAFAEL | R4 | Leading Researcher |
| BLAZQUEZ | LOPEZ | ELENA | R1 | First Stage Researcher |
| BOROBIA | SANCHEZ | RODRIGO | R1 | First Stage Researcher |
| CABALLERO | MARCOS | ARANTXA | R1 | First Stage Researcher |
| CARBONELL | BLANCO | CARLOS | R1 | First Stage Researcher |
| CARRION | MARTIN | LAURA | R1 | First Stage Researcher |
| CATALINA | RODRÍGUEZ | MARÍA DE LA VEGA | R1 | First Stage Researcher |
| CLEMENTE | SANCHEZ | ANA | R1 | First Stage Researcher |
| DE GRACIA | FERNANDEZ | CELIA | R1 | First Stage Researcher |
| DIAZ | FONTENLA | FERNANDO | R1 | First Stage Researcher |
| DIAZ | GOMEZ | ARANTXA | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| DIAZ | RUIZ | RAQUEL | R1 | First Stage Researcher |
| FERNANDEZ | YUNQUERA | AINHOA | R1 | First Stage Researcher |
| FLORES | GARCIA | VIRGINIA | R1 | First Stage Researcher |
| FRANCO | HERRERA | CAROLINA | R1 | First Stage Researcher |
| GARCIA | MARTINEZ | RITA | R2 | Recognised Researcher |
| GARCIA | LLEDO | JAVIER | R1 | First Stage Researcher |
| HERNANDO | ALONSO | ANA ISABEL | R2 | Recognised Researcher |
| IBAÑEZ | SAMANIEGO | LUIS | R1 | First Stage Researcher |
| LOPEZ | IBAÑEZ | MARIA | R1 | First Stage Researcher |
| LÓPEZ | CAUCE | BEATRIZ | R1 | First Stage Researcher |
| MARIN | JIMENEZ | IGNACIO | R1 | First Stage Researcher |
| MARQUEZ | PEREZ | LAURA | R1 | First Stage Researcher |
| MARTIN | GUERRA | MARIA ROCIO | | |
| MARTINEZ | LOZANO | HELENA | R1 | First Stage Researcher |
| MARTOS | VIZCAINO | ESPERANZA | R1 | First Stage Researcher |
| MATILLA | PEÑA | ANA MARÍA | R2 | Recognised Researcher |
| MENCHEN | VISO | LUIS ALBERTO | R3 | Established Researcher |
| MERINO | RODRIGUEZ | BEATRIZ | R1 | First Stage Researcher |
| MIRANDA | BAUTISTA | JOSÉ | R1 | First Stage Researcher |
| NOGALES | RINCON | OSCAR | R1 | First Stage Researcher |
| PAJARES | DÍAZ | JOSE ANTONIO | R1 | First Stage Researcher |
| PEREZ | CARAZO | LETICIA | R1 | First Stage Researcher |
| PUERTO | CANTERO | MARTA | R2 | Recognised Researcher |
| RINCÓN | RODRÍGUEZ | DIEGO | R2 | Recognised Researcher |
| ROMERO | CRISTOBAL | MARIO | R1 | First Stage Researcher |
| RUBIO | CABALLERO | CARMEN | R1 | First Stage Researcher |
| RUIZ | MARTIN | CHRISTIAN | Other: | Research Support Technician |
| SALCEDO | PLAZA | MAGDALENA | R2 | Recognised Researcher |
| SECADAS | RINCÓN | LAURA | Other | Research Nurse |
| SIERRA | ROJAS | JOHANNA | Other: | Management |
| VAQUERO | MARTIN | JAVIER | R3 | Established Researcher |
| VAZQUEZ | OGANDO | ELENA | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Development of dialive, a novel Liver Dialysis Device for the treatment of patients with Acute on Chronic Liver Failure (ACLF)**. H2020 ALIVER
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN UNION
START DATE: 01/01/2017
END DATE: 31/12/2020

TITLE: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications**. PIE16/00055
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
COLABORATOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Integrated research project of excellence
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria sistemática.** PI18/01901
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Fusión celular y comunicación celular por exomas en la enfermedad y regeneración hepática.** PI18/01833
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatología de la barrera epitelial en la enfermedad inflamatoria intestinal.** PI16/02096
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Papel de la deficiencia de la vitamina D en los eventos claves de la cirrosis hepática e impacto de su suplementación.** PI16/00920
DIRECTOR: GARCIA MARTINEZ, RITA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Efectos de la hipotermia terapéutica en el fracaso hepático augdo (FHA) y en la regeneración hepática: Estudio preclínico en cerdos.** PI15/01083
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 30/11/2020

TITLE: **Desarrollo de terapias nutricionales para el tratamiento de colitis ulcerosa mediante el uso de formulaciones simbióticas.** RTC-2015-3584-1
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: Program RETOS. MICINN/MINECO
START DATE: 23/01/2015
END DATE: 23/01/2019

TITLE: **Impacto de la erradicación del vhc sobre el riesgo cardiovascular tras el trasplante hepático.** FISMT17/01
DIRECTOR: SALCEDO PLAZA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN GENERAL DE INVESTIGACIÓN DE LA SOCIEDAD MADRILEÑA DE TRANSPLANTE
START DATE: 01/01/2018
END DATE: 31/12/2019

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY:CONSEJERIA DE EDUCACIÓN. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Río Hortega Contract.** CM17/00255
DIRECTOR: CLEMENTE SANCHEZ, ANA

PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2021

TITLE: **Río Hortega Contract.** CM19/00247
DIRECTOR: CABALLERO MARCOS, ARANZAZU
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/12/2019
END DATE: 31/11/2021

TITLE: **Incorporación Estable de Doctores. Programa I3**. IEDI-2016-00804
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: MINECO
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement Contract :Laboratory Technician** PEJ-2018-TL/BMD-12024
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/03/2019
END DATE: 28/02/2021

TITLE: **La microbiota en la historia natural de la enfermedad hepática y la hipertensión portal** PEJ2018-003826-A
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement Predoctoral Contract** PEJD-2018-PRE/BMD-8807
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | CIBEREHD | Fully fledged group<br>Program Coordinator |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Bataller R, Cabezas J, Aller R, Ventura-Cots M, Abad J, Albillos A, Altamirano J, Arias-Loste MT, Bañares R, Caballería J, Caballería L, Carrión JA, Diago M, Fernández Rodríguez C, Gallego R, García-Cortes M, García-Monzón C, Genescà J, Ginés P, Hernandez-Guerra M, Jorquera F, Lligoña A, Molina E, Pareja MJ, Planas R, Tomé S, Salmerón J, Romero-Gómez M | **Alcohol-related liver disease. Clinical practice guidelines. Consensus document sponsored by AEEH** | Gastroenterol Hepatol. . 2019 Dec;42(10):657-676. |

## *Publications*

*Total Impact Factor:* ***337.5***

| Nº | FI |
|---|---|

| | | |
|---|---|---|
| Own publications | 14 | 42.4 |
| Joint publications | 32 | 295.1 |
| First decile publications | 15 | 240.1 |
| First quartile publications | 22 | 277.9 |
| Second quartile publications | 12 | 40.7 |
| Third quartile publications | 2 | 4.0 |
| Fourth quartile publications | 10 | 14.9 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **49** | **337.5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Iavarone, M; Invernizzi, F; Czauderna, C; Sanduzzi-Zamparelli, M; Bhoori, S; Amaddeo, G; Manini, MA; Lopez, MF; Anders, M; Pinter, M; Rodriguez, MJB; Cristobal, MR; Soteras, GA; Pinero, F; Villadsen, GE; Weinmann, A; Crespo, G; Mazzaferro, V; Regnault, H; De Giorgio, M; Gonzalez-Dieguez, ML; Donato, MF; Varela, M; Worns, MA; Bruix, J; Lampertico, P; Reig, M. Preliminary experience on safety of regorafenib after sorafenib failure in recurrent hepatocellular carcinoma after liver transplantation. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(11) 3176-3184. FI: 7.338. Cuartil: 1. (Article).*

- *Sternby H; Bolado F; Canaval-Zuleta HJ; Marra-Lopez C; Hernando-Alonso AI; Del-Val-Antonana A; Garcia-Rayado G; Rivera-Irigoin R; Grau-Garcia FJ; Oms L; Millastre-Bocos J; Pascual-Moreno I; Martinez-Ares D; Rodriguez-Oballe JA; Lopez-Serrano A; Ruiz-Rebollo ML; Viejo-Almanzor A; Gonzalez-de-la-Higuera B; Orive-Calzada A; Gomez-Anta I; Pamies-Guilabert J; Fernandez-Gutierrez-Del-Alamo F; Iranzo-Gonzalez-Cruz I; Perez-Munante ME; Esteba MD; Pardillos-Tome A; Zapater P; de-Madaria E. Determinants of Severity in Acute Pancreatitis: A Nation-wide Multicenter Prospective Cohort Study. ANNALS OF SURGERY. 2019; 270(2) 348-355. FI: 10.13. Cuartil: 1. (Article).*

- *Miranda-Bautista, J; Dieguez, L; Rodriguez-Rosales, G; Marin-Jimenez, I; Menchen, L. Cases report: severe colonic bleeding in ulcerative colitis is refractory to selective transcatheter arterial embolization. BMC GASTROENTEROLOGY. 2019; 19 -. FI: 2.489. Cuartil: 3. (Article).*

- *Laserna-Mendieta EJ; Salvador-Martín S; Arias-González L; Ruiz-Ponce M; Menchén LA; Sánchez C; López-Fernández LA; Lucendo AJ. Comparison of a new rapid method for the determination of adalimumab serum levels with two established ELISA kits. CLINICAL CHEMISTRY AND LABORATORY MEDICINE. 2019; 57(12) 1906-1914. FI: 3.595. Cuartil: 1. (Article).*

- *Cabre, E; Manosa, M; Marin, I; Martin-Mateos, R; Iglesias-Flores, E; Barreiro-de-Acosta, M; Nos, P; Busquets, D; Menchen, LA; Lopez-Sanroman, A; Domenech, E. Characteristics of inflammatory bowel disease in patients of Roma/Gypsy ethnicity. A case-control study. DIGESTIVE AND LIVER DISEASE. 2019; 51(4) 529-535. FI: 3.57. Cuartil: 2. (Article).*

- *Taxonera, C; Lopez-Sanroman, A; Vera-Mendoza, I; Domenech, E; Ruiz, VV; Marin-Jimenez, I; Guardiola, J; Castro, L; Esteve, M; Iglesias, E; Ceballos, D; Martinez-Montiel, P; Gisbert, JP; Minguez, M; Echarri, A; Calvet, X; Barrio, J; Hinojosa, J; Martin-Arranz, MD; Marquez-Mosquera, L; Bermejo, F; Rimola, J; Alba, C; Pons, V; Nos, P; Spanish GETECCU Grp APPRECIA Study. Quality of life during one year of postoperative prophylactic drug therapy after intestinal resection in Crohn's patients: Results of the APPRECIA trial. DIGESTIVE AND LIVER DISEASE. 2019; 51(5) 669-674. FI: 3.57. Cuartil: 2. (Article).*

- *Lozano, HM; Rincon, ON; Marin, CN; Alonso, AC; Lledo, JG; Viso, LM; Marin-Jimenez, I. Retrograde single-balloon enteroscopy for the removal of a mollusc shell retained in the ileum of a patient with active Crohn's disease. ENDOSCOPY. 2019; 51(1) 14-15. FI: 7.341. Cuartil: 1. (Article).*

- *Rincon, JO; Regi, AR; Leyte, MG; Martin, LC; Pascual, RP; Farto, JCA. Hepatic supraselective radioembolization, today and new horizons. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 2019; 46(12) 2412-2413. FI: 7.081. Cuartil: 1. (Letter).*

- *Barreiro-De Acosta, M; Domenech, E; Arranz, MDM; Sanchez, VG; Casbas, AG; Chaparro, M; Alcain, G; Iborra, M; Taxonera, C; Rodriguez-Lago, I; Menchen, L; Khorrami, S; Romero, C; Cea-Calvo, L; Julia, B. Endoscopic follow-up and therapeutic attitude after ileocolonic resection in a nationwide Spanish cohort of Crohn's disease patients: the Practicrohn study. EXPERT REVIEW OF GASTROENTEROLOGY & HEPATOLOGY. 2019; 13(8) 807-813. FI: 3.514. Cuartil: 2. (Article).*

- *Trebicka, J; Amoros, A; Pitarch, C; Titos, E; Alcaraz-Quiles, J; Schierwagen, R; Deulofeu, C; Fernandez-Gomez, J; Piano, S; Caraceni, P; Oettl, K; Sola, E; Laleman, W; McNaughtan, J; Mookerjee, RP; Coenraad, MJ; Welzel, T; Steib, C; Garcia, R; Gustot, T; Gandia, MAR; Banares, R; Albillos, A; Zeuzem, S; Vargas, V; Saliba, F; Nevens, F; Alessandria, C; de Gottardi, A; Zoller, H; Gines, P; Sauerbruch, T; Gerbes, A; Stauber, RE; Bernardi, M; Angeli, P; Pavesi, M; Moreau, R; Claria, J; Jalan, R; Arroyo, V; EASL-CLIF Consortium European Fdn. Addressing Profiles of Systemic Inflammation Across the Different Clinical Phenotypes of Acutely Decompensated Cirrhosis. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Article).*

- *Barreiro-de Acosta, M; Gutierrez, A; Rodriguez-Lago, I; Espin, E; Bradley, IF; Marin-Jimenez, I; Beltran, B; Chaparro, M; Gisbert, JP; Nos, P; GETECCU. Recommendations of the Spanish Working Group on Crohn's Disease and Ulcerative Colitis*

*(GETECCU) on pouchitis in ulcerative colitis. Part 1: Epidemiology, diagnosis and prognosis. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(1) 23-27. FI: 1.581. Cuartil: 4. (Article).*

- *Ortiz, JD; Mulas, SG; Alegria, JCA; Lledo, JG; Carazo, LP; Rodriguez, BM; Leyte, MG; Nogales, O. Subcapsular hepatic haematoma after endoscopic retrograde cholangiopancreatography. A rare complication with high morbidity and mortality. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(5) 306-307. FI: 1.581. Cuartil: 4. (Letter).*

- *Bataller, R; Cabezas, J; Aller, R; Ventura-Cots, M; Abad, J; Albillos, A; Altamirano, J; Arias-Loste, MT; Banares, R; Caballeria, J; Caballeria, L; Carrion, JA; Diago, M; Rodriguez, CF; Gallego, R; Garcia-Cortes, M; Garcia-Monzon, C; Genesca, J; Gines, P; Hernandez-Guerra, M; Jorquera, F; Lligona, A; Molina, E; Pareja, MJ; Planas, R; Tome, S; Salmeron, J; Romero-Gomez, M. Alcohol-related liver disease. Clinical practice guidelines. Consensus document sponsored by AEEH. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(9) 568-578. FI: 1.581. Cuartil: 4. (Editorial Material).*

- *Carrion-Martin, L; Lucendo-Jimenez, L; Ordieres-Ortega, L; Piqueras-Ruiz, S; Cano-Ballesteros, JC; Hernando-Alonso, AI; Banares, R. Pancreaticopleural fistula associated with choledocholithiasis: An infrequent complication of acute pancreatitis. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(2) 105-106. FI: 1.581. Cuartil: 4. (Letter).*

- *Miranda-Bautista, J; Menchen, L. Adalimumab-induced autoimmune hepatitis in a patient with Crohn's disease. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(10) 657-676. FI: 1.581. Cuartil: 4. (Article).*

- *Puig, I; Lopez-Ceron, M; Arnau, A; Rosinol, O; Cuatrecasas, M; Herreros-de-Tejada, A; Ferrandez, A; Serra-Burriel, M; Nogales, O; Vida, F; de Castro, L; Lopez-Vicente, J; Vega, P; Alvarez-Gonzalez, MA; Gonzalez-Santiago, J; Hernandez-Conde, M; Diez-Redondo, P; Rivero-Sanchez, L; Gimeno-Garcia, AZ; Burgos, A; Garcia-Alonso, FJ; Bustamante-Balen, M; Martinez-Bauer, E; Penas, B; Pellise, M; EndoCAR Grp; Spanish Gastroenterological Assoc; Spanish Digestive Endoscopy Soc. Accuracy of the Narrow-Band Imaging International Colorectal Endoscopic Classification System in Identification of Deep Invasion in Colorectal Polyps. GASTROENTEROLOGY. 2019; 157(1) 149-162. FI: 17.373. Cuartil: 1. (Article).*

- *Fernandez, J; Claria, J; Amoros, A; Aguilar, F; Castro, M; Casulleras, M; Acevedo, J; Duran-Guell, M; Nunez, L; Costa, M; Torres, M; Horrillo, R; Ruiz-del-Arbol, L; Villanueva, C; Prado, V; Arteaga, M; Trebicka, J; Angeli, P; Merli, M; Alessandria, C; Aagaard, NK; Soriano, G; Durand, F; Gerbes, A; Gustot, T; Welzel, TM; Salerno, F; Banares, R; Vargas, V; Albillos, A; Silva, A; Morales-Ruiz, M; Garcia-Pagan, JC; Pavesi, M; Jalan, R; Bernardi, M; Moreau, R; Paez, A; Arroyo, V. Effects of Albumin Treatment on Systemic and Portal Hemodynamics and Systemic Inflammation in Patients With Decompensated Cirrhosis. GASTROENTEROLOGY. 2019; 156(1) 75-87. FI: 17.373. Cuartil: 1. (Article).*

- *Albeniz, E; Alvarez, MA; Espinos, JC; Nogales, O; Guarner, C; Alonso, P; Rodriguez-Tellez, M; de Tejada, AH; Santiago, J; Bustamante-Balen, M; Sanchez, JR; Ramos-Zabala, F; Valdivielso, E; Martinez-Alcala, F; Fraile, M; Elosua, A; Veloz, MFG; Beroiz, BI; Capdevila, F; Enguita-German, M. Clip Closure After Resection of Large Colorectal Lesions With Substantial Risk of Bleeding. GASTROENTEROLOGY. 2019; 157(5) 1213-. FI: 17.373. Cuartil: 1. (Article).*

- *de Santiago, ER; Burgos-Santamaria, D; Perez-Carazo, L; Brullet, E; Ciriano, L; Pons, FR; Turrion, MAD; Prados, S; Perez-Corte, D; Becerro-Gonzalez, I; Martinez-Moneo, E; Barturen, A; Fernandez-Urien, I; Lopez-Serrano, A; Ferre-Aracil, C; Lopez-Ibanez, M; Carbonell, C; Nogales, O; Martinez-Bauer, E; Lantaron, AT; Pagano, G; Vazquez-Sequeiros, E; Albillos, A; Garcia, AG; Volpato, N; Rodriguez-Escaja, C; Garcia-Alonso, FJ; Sevilla-Ribota, S; Prieto, HMM; Chavarria-Herbozo, CM; Murcia, O; Aranda-Hernandez, J; Borobia, R; Lledo, JG; Santander, C; Coto, D; Oyon, D; Polo, IO; Ruiz, MGH; Torres, CF; Sanz, MD; Penas, B; Parejo, S; Juzgado, D; Ibanez, A; TC-325 Collaboration Project; Spanish Assoc Gastroenterology. Hemostatic spray powder TC-325 for GI bleeding in a nationwide study: survival and predictors of failure via competing risks analysis. GASTROINTESTINAL ENDOSCOPY. 2019; 90(4) 581-. FI: 6.89. Cuartil: 1. (Article).*

- *Hernandez-Gea, V; Procopet, B; Giraldez, A; Amitrano, L; Villanueva, C; Thabut, D; Ibanez-Samaniego, L; Silva-Junior, G; Martinez, J; Genesca, J; Bureau, C; Trebicka, J; Llop, E; Laleman, W; Palazon, JM; Castellote, J; Rodrigues, S; Gluud, LL; Ferreira, CN; Barcelo, R; Canete, N; Rodriguez, M; Ferlitsch, A; Mundi, JL; Gronbaek, H; Hernandez-Guerra, M; Sassatelli, R; Dell'Era, A; Senzolo, M; Abraldes, JG; Romero-Gomez, M; Zipprich, A; Casas, M; Masnou, H; Primignani, M; Krag, A; Nevens, F; Calleja, JL; Jansen, C; Robic, MA; Conejo, I; Catalina, MV; Albillos, A; Rudler, M; Alvarado, E; Guardascione, MA; Tantau, M; Bosch, J; Torres, F; Garcia-Pagan, JC; Fischer, P; Stefanescu, H; Pop, A; Laursen, SB; Turon, F; Baiges, A; Berbel, C; Cerda, E; Tellez, L; Allegretti, G; Macedo, G; Haldrup, D; Santos, P; Moura, M; Reis, D; Meireles, L; Sousa, P; Alexandrino, P; Navascues, C; Augustin, S; La Mura, V; Banares, R; Diaz, R; Gomez, ML; Ripoll, C; Int Variceal Bleeding. Preemptive-TIPS Improves Outcome in High-Risk Variceal Bleeding: An Observational Study. HEPATOLOGY. 2019; 69(1) 282-293. FI: 14.679. Cuartil: 1. (Article).*

- *Baiges, A; Turon, F; Simon-Talero, M; Tasayco, S; Bueno, J; Zekrini, K; Plessier, A; Franchi-Abella, S; Guerin, F; Mukund, A; Eapen, CE; Goel, A; Shyamkumar, NK; Coenen, S; De Gottardi, A; Majumdar, A; Onali, S; Shukla, A; Carrilho, FJ; Nacif, L; Primignani, M; Tosetti, G; La Mura, V; Nevens, F; Witters, P; Tripathi, D; Tellez, L; Martinez, J; Alvarez-Navascues, C; Fraile Lopez, ML; Procopet, B; Piscaglia, F; de Koning, B; Llop, E; Romero-Cristobal, M; Tjwa, E; Monescillo-Francia, A; Senzolo, M; Perez-LaFuente, M; Segarra, A; Sarin, SK; Hernandez-Gea, V; Patch, D; Laleman, W; Hartog, H; Valla, D; Genesca, J; Garcia-Pagan, JC; Garcia-Criado, A; Darnell, A; Belmonte, E; Ferrusquia-Acosta, J; Magaz, M; Vidal-Gonzalez, J; Horia, S; Nicoara-Farcau, O; Joseph, P; Zachariah, U; Moses, V; Mammen, S; Ahmed, M; Koshy, G; Eapen, A; Sajith, KG; Vyas, FL; Raju, RS; Rymbai, ML; Arulkumar, S; Ramachandran, J; Elias, E; REHEVASC VALDIG EASL Consortium; Abernethy Grp. Congenital Extrahepatic Portosystemic Shunts (Abernethy Malformation): An International Observational Study. HEPATOLOGY. 2019; 71(2) 658-669. FI: 14.679. Cuartil: 1. (Article).*

- *Motino O; Frances DE; Casanova N; Fuertes-Agudo M; Cucarella C; Flores JM; Vallejo-Cremades MT; Olmedilla L; Perez Pena J; Banares R; Bosca L; Casado M; Martin-Sanz P. Protective Role of Hepatocyte Cyclooxygenase-2 Expression Against Liver Ischemia-Reperfusion Injury in Mice. HEPATOLOGY. 2019; 70(2) 650-665. FI: 14.679. Cuartil: 1. (Article).*

- *Blazquez, ML; Hernani, MT; Calatayud, GA; Gonzalez-Pinto, LC; Menchen, L; Jimenez, IM; Garcia, BG; Calleja, AL; Sanchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).*

- *Chavarria, C; Casanova, MJ; Chaparro, M; Barreiro-de Acosta, M; Ezquiaga, E; Bujanda, L; Rivero, M; Arguelles-Arias, F; Martin-Arranz, MD; Martinez-Montiel, MP; Valls, M; Ferreiro-Iglesias, R; Llao, J; Moraleja-Yudego, I; Casellas, F; Antolin-Melero, B; Cortes, X; Plaza, R; Pineda, JR; Navarro-Llavat, M; Garcia-Lopez, S; Robledo-Andres, P; Marin-Jimenez, I; Garcia-Sanchez, V; Merino, O; Algaba, A; Arribas-Lopez, MR; Banales, JM; Castro, B; Castro-Laria, L; Honrubia, R; Almela, P; Gisbert, JP. Prevalence and Factors Associated With Fatigue in Patients With Inflammatory Bowel Disease: A Multicentre Study. JOURNAL OF CROHNS & COLITIS. 2019; 13(8) 996-1002. FI: 8.658. Cuartil: 1. (Article).*

- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*

- *Ripoll C; Banares R; Zipprich A. It takes two "eyes" to see in depth. JOURNAL OF HEPATOLOGY. 2019; 70(3) 398-411. FI: 20.582. Cuartil: 1. (Article).*

- *Fernandez, J; Prado, V; Trebicka, J; Amoros, A; Gustot, T; Wiest, R; Deulofeu, C; Garcia, E; Acevedo, J; Fuhrmann, V; Durand, F; Sanchez, C; Papp, M; Caraceni, P; Vargas, V; Banares, R; Piano, S; Janicko, M; Albillos, A; Alessandria, C; Soriano, G; Welzel, TM; Laleman, W; Gerbes, A; De Gottardi, A; Merli, M; Coenraad, M; Saliba, F; Pavesi, M; Jalan, R; Gines, P; Angeli, P; Arroyo, V; European Fdn Study Chronic Liver. Multidrug-resistant bacterial infections in patients with decompensated cirrhosis and with acute-on-chronic liver failure in Europe. JOURNAL OF HEPATOLOGY. 2019; 70(4) 790-791. FI: 20.582. Cuartil: 1. (Letter).*

- *Garcia-Gutierrez, I; Acevedo, M; Tornero, P; Matilla, A; Marquez, L; Sanchez-Herrero, A; Prieto-Garcia, A. Severe Maculopapular Exanthema Induced by Regorafenib: Successful Desensitization and Adaptation of a Dosage Regimen. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 300-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Villanueva, C; Albillos, A; Genesca, J; Garcia-Pagan, JC; Calleja, JL; Aracil, C; Banares, R; Morillas, RM; Poca, M; Penas, B; Augustin, S; Abraldes, JG; Alvarado, E; Torres, F; Bosch, J; Torras, X; Cadafalch, J; Ardevol, A; Graupera, I; Pavel, O; Diez, X; Vargas, H; Pernas, JC; Barcons, M; Gallego, A; Soriano, G; Gordillo, J; Santalo, M; Benito, S; Guarner, C; Tellez, L; Martinez, J; Rodriguez-Gandia, MA; Mesonero, F; Martin, C; Millan, L; Pons, M; Torrens, M; Berzigotti, A; Seijoo, S; Hernandez-Gea, V; Turon, F; Llach, J; Bru, C; Escorsell, A; Llop, E; Perello, C; Minana, JM; Zaragoza, N; Buenestado, J; Rene, JM; Ripoll, C; Garcia-Lledo, J; Catalina, MV; Rincon, D; Planas, R; PreDesCi Study Investigators. beta blockers to prevent decompensation of cirrhosis in patients with clinically significant portal hypertension (PREDESCI): a randomised, double-blind, placebo-controlled, multicentre trial. LANCET. 2019; 393(10181) 1597-1608. FI: 60.392. Cuartil: 1. (Article).*

- *Asensio, I; Vaquero, J. Growing muscle against cirrhosis: In the quest for models to revealing mechanisms. LIVER INTERNATIONAL. 2019; 39(1) 45-48. FI: 5.175. Cuartil: 1. (Editorial Material).*

- *Banares, R; Bernardi, M. Long-term albumin administration in patients with decompensated cirrhosis. It is time for a reappraisal. LIVER INTERNATIONAL. 2019; 39(4) 625-627. FI: 5.175. Cuartil: 1. (Editorial Material).*

- *Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*

- *Marin-Jimenez, I; Casellas, F; Cortes, X; Garcia-Sepulcre, MF; Julia, B; Cea-Calvo, L; Soto, N; Navarro-Correal, E; Saldana, R; de Toro, J; Galindo, MJ; Orozco-Beltran, D. The experience of inflammatory bowel disease patients with healthcare A survey with the IEXPAC instrument. MEDICINE. 2019; 98(14) -. FI: 1.552. Cuartil: 3. (Article).*

- *Berenguer, J; Calleja, JL; Montes, ML; Gil, A; Moreno, A; Banares, R; Aldamiz-Echevarria, T; Albillos, A; Tellez, MJ; Olveira, A; Dominguez, L; Fernandez, I; Garcia-Samaniego, J; Polo, BA; Alvarez, B; Ryan, P; Barrio, J; Devesa, MJ; Benitez, L; Santos, I; Buey, LG; Sanz, J; Poves, E; Losa, JE; Fernandez-Rodriguez, C; Jarrin, I; Calvo, MJ; Gonzalez-Garcia, J. HIV Coinfection Predicts Failure of Ledipasvir/Sofosbuvir in Treatment-Naive Noncirrhotic Patients With HCV Genotype 1. OPEN FORUM INFECTIOUS DISEASES. 2019; 6(5) -. FI: 3.656. Cuartil: 2. (Article).*

- *Orozco-Beltran, D; de Toro, J; Galindo, MJ; Marin-Jimenez, I; Casellas, F; Fuster-RuizdeApodaca, MJ; Garcia-Vivar, ML; Hormigo-Pozo, A; Guilabert, M; Sanchez-Vega, N; Fernandez, G; Cea-Calvo, L. Healthcare Experience and their Relationship with Demographic, Disease and Healthcare-Related Variables: A Cross-Sectional Survey of Patients with Chronic Diseases Using the IEXPAC Scale. PATIENT-PATIENT CENTERED OUTCOMES RESEARCH. 2019; 12(3) 307-317. FI: 3.226. Cuartil: 1. (Article).*

- *Salvador-Martin, S; Lopez-Cauce, B; Nunez, O; Laserna-Mendieta, EJ; Garcia, MI; Lobato, E; Abarca-Zabalia, J; Sanjurjo-Saez, M; Lucendo, AJ; Marin-Jimenez, I; Menchen, LA; Lopez-Fernandez, LA. Genetic predictors of long-term response and trough levels of infliximab in crohn's disease. PHARMACOLOGICAL RESEARCH. 2019; 149 -. FI: 5.893. Cuartil: 1. (Review).*

- *Londoño MC; Riveiro-Barciela M; Ahumada A; Muñoz-Gómez R; Roget M; Devesa-Medina MJ; Serra MÁ; Navascués CA; Baliellas C; Aldamiz-Echevarría T; Gutiérrez ML; Polo-Lorduy B; Carmona I; Benlloch S; Bonet L; García-Samaniego J; Jiménez-Pérez M; Morán-Sánchez S; Castro Á; Delgado M; Gea-Rodríguez F; Martín-Granizo I; Montes ML; Morano L; Castaño MA; de Los Santos I; Laguno M; Losa JE; Montero-Alonso M; Rivero A; de Álvaro C; Manzanares A; Mallolas J; Barril G; González-Parra E; García-Buey L. Effectiveness, safety/tolerability of OBV/PTV/r ± DSV in patients with HCV genotype 1 or 4 with/without HIV-1 co-infection, chronic kidney disease (CKD) stage IIIb-V and dialysis in Spanish clinical practice - Vie-KinD study. PLOS ONE. 2019; 14(9) -. FI: 2.74. Cuartil: 2. (Article).*

- *Manuel Sousa J; Vergara M; Pulido F; Sánchez Antolín G; Hijona L; Carnicer F; Rincón D; Salmerón J; Mateos-Muñoz B; Jou A; Polo-Lorduy B; Rubín Á; Escarda A; Aguilar P; Aldámiz-Echevarría T; García-Buey L; Carrión JA; Hernández-Guerra M; Chimeno-Hernández S; Espinosa N; Morillas RM; Andrade RJ; Delgado M; Gallego A; Magaz M; Moreno-Planas JM; Estébanez Á; Rico M; Menéndez F; Sampedro B; Morano L; Izquierdo S; Zozaya JM; Rodríguez M; Morán-Sánchez S; Lorente S; Martín-Granizo I; Von-Wichmann MÁ; Delgado M; Manzanares A. Real-world evidence of the effectiveness of ombitasvir-paritaprevir/r ± dasabuvir ± ribavirin in patients monoinfected with chronic hepatitis C or coinfected with human immunodeficiency virus-1 in Spain. PLOS ONE. 2019; 14(11) -. FI: 2.74. Cuartil: 2. (Article).*

- *Miranda-Bautista, J; Suarez-Gonzalez, J; Andres-Zayas, C; Buno, I; Banares, R. Familial low phospholipid-associated cholelithiasis resulting from an autosomal dominant ABCB4 mutation. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(10) 806-808. FI: 1.591. Cuartil: 4. (Article).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Conthe, A; Nogales, O; Martinez-Flores, C; Garcia-Lledo, J; Rayon, L; Perez-Carazo, L; Garcia-Mulas, S; Lopez-Ibanez, M; Aranda-Hernandez, J; Merino, B. Usefulness of fully covered self-expandable biliary metal stents for the treatment of post-sphyncterotomy ERCP bleeding. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(12) 931-934. FI: 1.591. Cuartil: 4. (Article).*

- *Carrion-Martin, L; Rincon, JO; Rotger, A; Gonzalez-Leyte, M; Perez, LM; Echenagusia, M; Matilla, A. Radioembolization in liver tumours. REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR. 2019; 38(6) 370-381. FI: 1.09. Cuartil: 4. (Article).*

- *Olmedo, M; Reigadas, E; Valerio, M; Vazquez-Cuesta, S; Pajares, JA; Matilla, A; Munoz, P; Bouza, E. Is it reasonable to perform Fecal Microbiota Transplantation for recurrent Clostridium difficile Infection in patients with liver cirrhosis?. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(2) 205-207. FI: 1.132. Cuartil: 4. (Letter).*

- *Miranda-Bautista, J; Verdejo, C; Diaz-Redondo, A; Breton, I; Bellon, JM; Perez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; Gonzalez-Rio, E; Garcia-Sanchez, C; Marin-Jimenez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

- *Chaparro, M; Aterido, A; Guerra, I; Iborra, M; Cabriada, JL; Bujanda, L; Taxonera, C; Garcia-Sanchez, V; Marin-Jimenez, I; Barreiro-de Acosta, M; Vera, I; Martin-Arranz, MD; Hernandez-Breijo, B; Mesonero, F; Sempere, L; Gomollon, F; Hinojosa, J; Bermejo, F; Beltran, B; Rodriguez-Pescador, A; Banales, JM; Olivares, D; Aguilar-Melero, P; Menchen, L; Ferreiro-Iglesias, R; Gomez, IB; Garcia, BB; Guijarro, LG; Marin, AC; Bernardo, D; Marsal, S; Julia, A; Gisbert, JP; PREDICROHN Study Grp GETECCU. Functional rare variants influence the clinical response to anti-TNF therapy in Crohn's disease. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

- *Banares, R; Ibanez-Samaniege, L; Torner, JM; Pavesi, M; Olmedo, C; Catalina, MV; Albillos, A; Larsen, FS; Nevens, F; Hassanein, T; Schmidt, H; Heeman, U; Jalan, R; Moreau, R; Arroyo, V. Meta-analysis of individual patient data of albumin dialysis in acute-on-chronic liver failure: focus on treatment intensity. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Colon, AL; Rodriguez-Bachiller, L; Velasco, E; Diaz-Zorita, B; Rincon, D; Lopez-Baena, JA; Ferreiroa, J. Sengstaken Tube Removal under Direct Hemodynamic Monitoring after Post Transplantation Venous Occlusion. CASE REPORTS IN SURGERY. 2019; 2019 -. (Article).*
- *Fuster-RuizdeApodaca, MJ; Sanchez-Vega, N; Galindo, MJ; Marin-Jimenez, I; de Toro, J; Orozco-Beltran, D; Cotarelo, M; Lopez, JC. The Influence of Patient Experience with Healthcare on the Health-Related Quality of Life of People Living with HIV: An Observational Cross-Sectional Survey. INFECTIOUS DISEASES AND THERAPY. 2019; 8(3) 369-382. (Article).*
- *Lominchar, PL; Orue-Echebarria, MI; Martin, L; Lisbona, CJ; Salcedo, MM; Olmedilla, L; Sharma, H; Asencio, JM; Lopez-Baena, JA. Hepatic flow is an intraoperative predictor of early allograft dysfunction in whole-graft deceased donor liver transplantation: An observational cohort study. WORLD JOURNAL OF HEPATOLOGY. 2019; 11(9) 689-700. (Article).*

# 7.04 Diseases of the critically ill child

Group Director: **Jesús López-Herce Cid**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

The Diseases of the Critically Ill Child research group of IiSGM is formed by a team of pediatricians who care for and treat critically ill children.
The group develops experimental, academic, and clinical research lines with projects that bring together translational animal experimentation, clinical research, and application of the results in teaching.
The basic research lines are cardiorespiratory arrest and cardiopulmonary resuscitation, invasive and noninvasive hemodynamic monitoring, nutrition in the critically ill child, kidney failure, continuous renal replacement therapy, and monitoring of analgesia and sedation in critically ill children.
The group's basic objective is to collaborate with other pediatric groups and groups from specialized areas to perform multicenter studies.
The Pediatric Intensive Care research group of HGUGM is a member of the only pediatric research network funded by the Instituto Carlos III—Red de Salud Maternoinfantil y del Desarrollo (Red Samid [*Mother and Child and Developmental Health Network*])—and coordinates the Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPCI [*Latin American Network for the Study of Cardiorespiratory Arrest in Infancy*]).

## Research lines

**Axis 1: Diseases of the critically ill child**

**L1**: Cardiorespiratory arrest and cardiopulmonary resuscitation in infancy.Leader: Jesús López-Herce Cid.
**L2**: Treatment of acute kidney failure in the critically ill child. Leader: María José Santiago Lozano.
**L3**: Hemodynamic monitoring, tissue perfusion, and treatment of shock. Leader: Javier Urbano Villaescusa.
L4: Nutrition and digestive diseases in the critically ill child. Leader: Jesús López-Herce Cid.
- L4.1: Enteral nutrition in the critically ill child. Leader: Javier Urbano Villaescusa.
- L4.2: Digestive complications: constipation. Leader: Jorge López González
- L4.3: Digestive hemorrhage in the critically ill child. Leader: María José Solana García

**L5**: Monitoring of sedation and analgesia in the critically ill child. Leader: Santiago Mencía Bartolomé.
**L6:** Respiratory care in the critically ill child. Leader: Jesús López-Herce Cid.
**L7**: Advanced medical simulation. Leader: Santiago Mencía Bartolomé

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| BUSTINZA | ARRIORTÚA | AMAYA | R1 | First Stage Researcher |
| BUTRAGUEÑO | LAISECA | LAURA | R1 | First Stage Researcher |
| CIEZA | ASENJO | RAQUEL | | |
| DEL CASTILLO | PERAL | JIMENA | R1 | First Stage Researcher |
| FERNANDEZ | LAFEVER | SARAH NICOLE | R1 | First Stage Researcher |
| GARCIA | SAN PRUDENCIO | MYRIAM | R1 | First Stage Researcher |
| GONZÁLEZ | CORTES | RAFAEL | R1 | First Stage Researcher |
| HERRERA | CASTILLO | LAURA | | |
| LOPEZ | GONZALEZ | JORGE | R1 | First Stage Researcher |
| LÓPEZ-HERCE | CID | JESÚS | R4 | Leading Researcher |
| MANRIQUE | MARTÍN | GEMA | R1 | First Stage Researcher |
| MENCÍA | BARTOLOMÉ | SANTIAGO | R3 | Established Researcher |
| SANCHEZ | SANCHEZ | CESAR | | |
| SÁNCHEZ | GALINDO | AMELIA | R1 | First Stage Researcher |
| SANTIAGO | LOZANO | MARÍA JOSÉ | R3 | Established Researcher |
| SANZ | ALVAREZ | DEBORA | | |
| SLÖCKER | BARRIO | MARÍA | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| SOLANA | GARCÍA | MARÍA JOSÉ | | |
| URBANO | VILLAESCUSA | JAVIER | R3 | Established Researcher |



## Research Projects – Competitive Calls

TITLE: **Estudio clínico y experimental de parada cardiaca y reanimación cardiopulmonar en pediatría**. PI18/01632
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248
DIRECTOR: SANTIAGO LOZANO, MARÍA JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Efecto de la calidad de la reanimación cardiopulmonar en la supervivencia y estado neurológico de los niños que sufren una parada cardiaca**. PI16/00666
DIRECTOR: MENCÍA BARTOLOMÉ, SANTIAGO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Efecto de la ventilación y el masaje cardíaco sobre la calidad de la reanimación cardiopulmonar: estudio experimental animal y en un modelo de simulación pediátrica**. PI15/00743
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Efectos de la resucitación mediante albúmina hipertónica o gelafundina sobre los parámetros hemodinámicos, de perfusión tisular y de función renal en niños críticamente enfermos**. PI14/02046
DIRECTOR: URBANO VILLAESCUSA, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 30/06/2019

TITLE: **Río Hortega Contract.** CM19/00203
DIRECTOR: MANRIQUE MARTÍN, GEMA
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/12/2019
END DATE: 31/11/2021

TITLE: **Río Hortega Contract.** CM17/00210
DIRECTOR: GARCIA SAN PRUDENCIO, MYRIAM
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2021

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|

| | | |
|---|---|---|
| RETICS | Red de salud Maternoinfantil y del Desarrollo III | Collaborating group |
| Others | Red de Salud Maternoinfantil y del Desarrollo (Red Samid [Mother and Child and Developmental Health Network]) | Collaborating group |
| Other | Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPCI [Latin American Network for the Study of Cardiorespiratory Arrest in Infancy]). | Collaborating group |

## *Industrial and intellectual property registrations*

### *Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua** | P201330340 | FIBHGM – SERGAS - Universidad de Santiago de Compostela | Jesús López-Herce, Santiago Mencía, Antonio Rodríguez |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

### *Intellectual property*

| *Title* | *Reference* | *Owner* | *Inventors* |
|---|---|---|---|
| **Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos** | Nº Asiento Registral: 16/2011/7360 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | **Jimena Perez Moreno** | Papel De Las Células T Reguladoras En La Alergía De Las Proteínas De La Leche De Vaca No Mediada Por IGE En La Infancia | Cesar Sanchez Sanchez<br>Rafael Correa Rocha | UCM | 06/09/2019 |

## *Publications* *Total Impact Factor: **66.1***

| | Nº | FI |
|---|---|---|
| Own publications | 16 | 40.5 |
| Joint publications | 12 | 25.6 |
| First decile publications | 2 | 6.4 |
| First quartile publications | 11 | 31.7 |
| Second quartile publications | 4 | 11.2 |
| Third quartile publications | 11 | 19.9 |
| Fourth quartile publications | 2 | 3.2 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **30** | **66.1** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Martinez, FG; Sanchez, MIG; del Castillo, BT; Moreno, JP; Munoz, MM; Jimenez, CR; Fernandez, RR. Treatment with high-flow oxygen therapy in asthma exacerbations in a paediatric hospital ward: Experience from 2012 to 2016. ANALES DE PEDIATRIA. 2019; 91(4) 228-236. FI: 1.313. Cuartil: 3. (Article).*

- *Tunas, MCA; Orive, FJP; Merino, ER; Cid, JLH; Martin, GM; Casas, PG; Gonzalez, AH; Fraga, CR; Galan, CR; Rodriguez, MRR; Rastrollo, RH; Carrion, FF; Nunez, AR; MOMUCIP RETROSPECTIVE Working Grp. Modes of dying of children in Intensive Care Units in Spain: MOMUCIP study. ANALES DE PEDIATRIA. 2019; 90(2) 72-78. FI: 1.313. Cuartil: 3. (Article).*

- *Mayordomo-Colunga, J; Cortes, R; Bravo, MC; Mas, RM; Martinez, JLV; Valdovinos, LR; Conlon, TW; Nishisaki, A; Cabanas, F; Sustacha, JAB; Erroz, IO. Point-of-care ultrasound: Is it time to include it in the paediatric specialist training programme?. ANALES DE PEDIATRIA. 2019; 91(3) -. FI: 1.313. Cuartil: 3. (Article).*

- *Rodriguez-Rey, R; Palacios, A; Alonso-Tapia, J; Perez, E; Alvarez, E; Coca, A; Mencia, S; Marcos, A; Mayordomo-Colunga, J; Fernandez, F; Gomez, F; Cruz, J; Ordonez, O; Llorente, A. Burnout and posttraumatic stress in paediatric critical care personnel: Prediction from resilience and coping styles. AUSTRALIAN CRITICAL CARE. 2019; 32(1) 46-53. FI: 2.214. Cuartil: 1. (Article).*

- *Smereka, J; Iskrzycki, L; Makomaska-Szaroszyk, E; Bielski, K; Frass, M; Robak, O; Ruetzler, K; Czekajlo, M; Rodriguez-Nunez, A; Lopez-Herce, J; Szarpak, L. The effect of chest compression frequency on the quality of resuscitation by lifeguards. A prospective randomized crossover multicenter simulation trial. CARDIOLOGY JOURNAL. 2019; 26(6) 769-776. FI: 1.669. Cuartil: 3. (Article).*

- *Gonzalez, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Perez, R; Alvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; Lopez-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).*

- *Vigil-V?zquez, S; Butrague?o-Laiseca, L; L?pez-Gonz?lez, J; Garc?a-San Prudencio, M; Rinc?n-L?pez, E. A Case of Kawasaki Disease Presenting as Severe Myositis. INDIAN JOURNAL OF PEDIATRICS. 2019; 86(11) 1066-1067. FI: 1.508. Cuartil: 3. (Letter).*

- *Blazquez, ML; Hernani, MT; Calatayud, GA; Gonzalez-Pinto, LC; Menchen, L; Jimenez, IM; Garcia, BG; Calleja, AL; Sanchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).*

- *Gonzalez R; Lopez-Herce J. Mortality of patients with chronic disease: an increasing problem. JORNAL DE PEDIATRIA. 2019; 95(6) 625-627. FI: 2.029. Cuartil: 2. (Article).*

- *Thakkar, RK; Weiss, SL; Fitzgerald, JC; Keele, L; Thomas, NJ; Nadkarni, VM; Muszynski, JA; Hall, MW; Fontela, P; Tucci, M; Dumistrascu, M; Skippen, P; Krahn, G; Bezares, E; Puig, G; Puig-Ramos, A; Garcia, R; Villar, M; Bigham, M; Polanski, T; Latifi, S; Giebner, D; Anthony, H; Hume, J; Galster, A; Linnerud, L; Sanders, R; Hefley, G; Madden, K; Thompson, A; Shein, S; Gertz, S; Han, Y; Williams, T; Hughes-Schalk, A; Chandler, H; Orioles, A; Zielinski, E; Doucette, A; Zebuhr, C; Wilson, T; Dimitriades, C; Ascani, J; Layburn, S; Valley, S; Markowitz, B; Terry, J; Morzov, R; Mcinnes, A; McArthur, J; Woods, K; Murkowski, K; Spaeder, M; Sharron, M; Wheeler, D; Beckman, E; Frank, E; Howard, K; Carroll, C; Nett, S; Jarvis, D; Patel, V; Higgerson, R; Christie, L; Typpo, K; Deschenes, J; Kirby, A; Uhl, T; Rehder, K; Cheifetz, I; Wrenn, S; Kypuros, K; Ackerman, K; Maffei, F; Bloomquist, G; Rizkalla, N; Kimura, D; Shah, S; Tigges, C; Su, F; Barlow, C; Michelson, K; Wolfe, K; Goodman, D; Campbell, L; Sorce, L; Bysani, K; Monjure, T; Evans, M; Totapally, B; Chegondi, M; Rodriguez, C; Frazier, J; Steele, L; Viteri, S; Costarino, A; Thomas, N; Spear, D; Hirshberg, E; Lilley, J; Rowan, C; Rider, C; Kane, J; Zimmerman, J; Greeley, C; Lin, J; Jacobs, R; Parker, M; Culver, K; Loftis, L; Jaimon, N; Goldsworthy, M; Fitzgerald, J; Weiss, S; Nadkarni, V; Bush, J; Diliberto, M; Allen, C; Gessouroun, M; Sapru, A; Lang, T; Alkhouli, M; Kamath, S; Friel, D; Daufeldt, J; Hsing, D; Carlo, C; Pon, S; Scimeme, J; Shaheen, A; Hassinger, A; Qiao, H; Giuliano, J; Tala, J; Vinciguerra, D; Fernandez, A; Carrero, R; Hoyos, P; Jaramillo, J; Posada, A; Izquiierdo, L; Olave, BEP; Donado, J; Dalmazzo, R; Rendich, S; Palma, L; Lapadula, M; Acuna, C; Cruces, P; De Clety, SC; Dujardin, M; Berghe, C; Renard, S; Zurek, J; Steinherr, H; Mougkou, K; Critselis, E; Di Nardo, M; Picardo, S; Tortora, F; Rossetti, E; Fragasso, T; Cogo, P; Netto, R; Dagys, A; Gurskis, V; Kevalas, R; Neeleman, C; Lemson, J; Luijten, C; Wojciech, K; Pagowska-Klimek, I; Szczepanska, M; Karpe, J; Nunes, P; Almeida, H; Rios, J; Vieira, M; Iniguez, JPG; Revilla, P; Urbano, J; Lopez-Herce, J; Bustinza, A; Palacios, A; Hofheinz, S; Rodriguez-Nunez, A; Sanagustin, S; Gonzalez, E; Riaza, M; Piaya, R; Soler, P; Esteban, E; Laraudogoitia, J; Monge, C; Herrera, V; Granados, J; Gonzalez, C; Koroglu, T; Ozcelik, E; Baines, P; Plunkett, A; Davis, P; George, S; Tibby, S; Harris, J; Agbeko, R; Lampitt, R; Brierley, J; Peters, M; Jones, A; Dominguez, T; Thiruchelvam, T; Deep, A; Ridley, L; Bowen, W; Levin, R; Macleod, I; Gray, M; Hemat, N; Alexander, J; Ali, S; Pappachan, J; McCorkell, J; Fortune, P; MacDonald, M; Hudnott, P; Suyun, Q; Singhi, S; Nallasamy, K; Lodha, R; Shime, N; Tabata, Y; Saito, O; Ikeyama, T; Kawasaki, T; Lum, L; Abidin, A; Kee, S; Tang, S; Jalil, R; Guan, Y; Yao, L; Lin, K; Ong, J; Salloo, A; Doedens, L; Mathivha, L; Reubenson, G; Moaisi, S; Pentz, A; Green, R; Schibler, A; Erickson, S; McEneiry, J; Long, D; Dorofaeff, T; Coulthard, M; Millar, J; Delzoppo, C; Williams, G; Morritt, M; Watts, N; Beca, J; Sherring, C; Bushell, T; SPROUT Investigators; Pediat Acute Lung Injury Sepsis In. Risk Factors for Mortality in Pediatric Postsurgical versus Medical Severe Sepsis. JOURNAL OF SURGICAL RESEARCH. 2019; 242 100-110. FI: 1.841. Cuartil: 3. (Article).*

- *Hufnagel, M; Versporten, A; Bielicki, J; Drapier, N; Sherland, M; Goossens, H; Calle, GM; Clark, J; Cooper, C; Blyth, CC; Francis, JR; Alsalman, J; Jansen, H; Mahieu, L; Van Rossom, P; Vandewal, W; Lepage, P; Blumental, S; Briquet, C; Robbrecht, D; Maton, P; Gabriels, P; Rubic, Z; Kovacevic, T; Nielsen, JP; Petersen, JR; Poorisrisak, P; Jensen, LH; Laan, M; Tamm, E; Matsinen, M; Rummukainen, ML; Gajdos, V; Olivier, R; Le Marechal, F; Martinot, A; Dubos, F; Lagree, M; Prot-Labarthe, S;*

*Lorrot, M; Orbach, D; Pagava, K; Knuf, M; Schlag, SAA; Liese, J; Renner, L; Enimil, A; Awunyo, M; Syridou, G; Spyridis, N; Critselis, E; Kouni, S; Mougkou, K; Ladomenou, F; Gkentzi, D; Iosifidis, E; Roilides, E; Sahu, S; Murki, S; Malviya, M; Kalavalapalli, DB; Singh, S; Singhal, T; Garg, G; Garg, P; Kler, N; Soltani, J; Jafarpour, Z; Pouladfar, G; Nicolini, G; Montagnani, C; Galli, L; Esposito, S; Tenconi, R; Lo Vecchio, A; Dona, D; Giaquinto, C; Borgia, E; D'Argenio, P; De Luca, M; Centenari, C; Raka, L; Raka, D; Omar, A; Al-Mousa, H; Mozgis, D; Sviestina, I; Burokiene, S; Usonis, V; Tavchioska, G; Hargadon-Lowe, A; Zarb, P; Borg, MA; Lozano, CAG; Castanon, PZ; Cancino, ME; McCullagh, B; McCorry, A; Gormley, C; Al Maskari, Z; Al-Jardani, A; Pluta, M; Rodrigues, F; Brett, A; Esteves, I; Marques, L; AlAjmi, JA; Cambrea, SC; Rashed, AN; Al Azmi, AAM; Chan, SM; Isa, MS; Najdenov, P; Cizman, M; Unuk, S; Finlayson, H; Dramowski, A; Mate-Cano, I; Soto, B; Calvo, C; Santiago, B; Saavedra-Lozano, J; Bustinza, A; Escosa-Garcia, L; Ureta, N; Lopez-Varela, E; Rojo, P; Tagarro, A; Barrero, PT; Rincon-Lopez, EM; Abubakar, I; Aston, J; Patel, M; Russell, AB; Heginbothom, M; Satodia, P; Garbash, M; Johnson, A; Sharpe, D; Barton, C; Menson, E; Arenas-Lopez, S; Luck, S; Doerholt, K; McMaster, P; Caldwell, NA; Lunn, A; Drysdale, SB; Howe, R; Scorrer, T; Gahleitner, F; Gupta, R; Nash, C; Alexander, J; Raman, M; Bell, E; Rajagopal, V; Kohlhoff, S; Cox, E; Nichols, K; Zaoutis, T; ARPEC Project Grp. High Rates of Prescribing Antimicrobials for Prophylaxis in Children and Neonates: Results From the Antibiotic Resistance and Prescribing in European Children Point Prevalence Survey. JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY. 2019; 8(2) 143-151. FI: 2.212. Cuartil: 2. (Article).*

- *Santiago, MJ; Gomez, C; Magana, I; Munoz, V; Saiz, P; Sanchez, A; Lopez-Herce, J. Hematological complications in children subjected to extracorporeal membrane oxygenation. MEDICINA INTENSIVA. 2019; 43(5) 281-289. FI: 2.363. Cuartil: 3. (Article).*

- *Lopez, J; Slocker, M; Heras, E; Rios, D; Barrio, L; Cebrian, R; Gomez, D; Lopez-Herce, J. Prognostic utility of the multiorgan failure scores and inotropic index in the postoperative of cardiac transplantation in children. MEDICINA INTENSIVA. 2019; 43(7) 441-443. FI: 2.363. Cuartil: 3. (Letter).*

- *Canete, P; Fernandez, A; Solis, A; del Castillo, J; Fernandez, S; Lopez-Herce, J; Grp Espanol Reanimacion. Incidence and Prognosis of Acute Kidney Injury After Cardiac Arrest in Children. NEPHRON. 2019; 141(1) 18-23. FI: 2.089. Cuartil: 3. (Article).*

- *Butragueño Laiseca L; Toledo Del Castillo B; Miranda Herrero MC. Energy drinks as a trigger factor for seizures in paediatric patients: A case report. NEUROLOGIA. 2019; 34(5) 343-345. FI: 2.283. Cuartil: 3. (Letter).*

- *Campos-Mino, S; Cid, JLH; Delgado, AF; Benavides, EM; Coss-Bu, JA; Villavicencio, PM; Iramain, R; Villaruel, SV; Nieva, A; Vargas, A; Lopez, PA; Fernandez, A; Silvestre, A; Botta, P; Torres, SF; Costa, CAD; Garcia, PCR; Piva, J; Cabedo, MTD; Luglio, M; Figueiredo, A; Zamberlan, P; Guzman, G; Loboguerrero, FG; Fernandez, M; Cassalett, G; Perez, G; Montes, MR; Velasquez, RP; Perez, V; Castro, SR; Villavicencio, PM; Wegner, A; Ordenes, N; Von Dessauer, B; Cors, C; Gonzales, M; Benavides, EM; Quiroz, MAS; Peralta, FV; Roque, J; Rosich, PD; Campos-Mino, S; Montalvo, E; Pesantes, XP; Barquin, LAM; Rivas, RAM; Roman, C; Ortiz, CAR; Monsreal, MIF; Villaruel, SV; Gonzalez, SV; Jimenez, HJ; Bracho, C; Samudio, L; Palpan, BA; Palomo, P; Escalante-Kanashiro, R; Arana, R; Nunez, AR; Cid, JLH; Fernandez, YL; Menchaca, A; Lopez, CM; Nutr Comm; Latin Amer Soc Pediat Intensive Ca. The Latin American and Spanish Survey on Nutrition in Pediatric Intensive Care (ELAN-CIP2). PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(7) 342-351. FI: 2.854. Cuartil: 1. (Article).*

- *Yunge, M; Cordero, J; Martinez, D; Bustos, R; Wegner, A; Castro, M; Arrau, L; Diaz, B; Dalmazzo, R; Hickmann, L; Lapadula, M; Yanez, L; Roque, J; Cecchetti, C; Bravo, P; Cruces, P; Acuna, C; Oyaguez, P; Miras, A; Morales, A; Nieto, M; Lopez, Y; Morales, G; Drago, M; Nalegach, ME; Sepulveda, G; Menchaca, A; Jerez, F; Glasinovic, M; Mallea, F; Lopez-Herce, J. Effectiveness of Two Targeted Temperature Management Methods After Pediatric Postcardiac Arrest: A Multicenter International Study. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(12) 1212-1213. FI: 2.854. Cuartil: 1. (Letter).*

- *Nellis, ME; Goel, R; Karam, O; Cushing, MM; Davis, PJ; Steiner, ME; Tucci, M; Stanworth, SJ; Spinella, PC; Butt, W; Delzoppo, C; Erickson, S; Croston, E; Barr, S; Cavazzoni, E; de Jaeger, A; Tucci, M; French, ME; Ropars, M; Clayton, L; Murthy, S; Krahn, G; Qu, D; Hui, Y; Johansen, M; Jensen, AMB; Jarnvig, IL; Strange, D; Jayashree, M; Reddy, M; Sankar, J; Kumar, UV; Lodha, R; Lerner, RK; Paret, G; Schiller, O; Shostak, E; Dagan, O; Cavari, Y; Chiusolo, F; Gillis, A; Camporesi, A; Kneyber, M; Cochius-den Otter, S; Van Hemeldonck, E; Beca, J; Sherring, C; Rea, M; Abadesso, C; Moniz, M; Alshehri, S; Lopez-Herce, J; Ortiz, I; Garcia, M; Jordan, I; Gonzalez, JCF; -Ferrer, AP; Pascual-Albitre, A; Grazioli, S; Doell, C; Davis, PJ; Curio, I; Jones, A; Peters, MJ; Lillie, J; Aramburo, A; Shabana, M; Ramachandran, P; Sampaio, H; Sampaio, H; Prince, NJ; Kanthimathinathan, HK; Branco, RG; Sykes, KL; Mellish, C; Sarfatti, A; Weitz, J; Sanders, RC; Hefley, G; Morzov, RSP; Markovitz, B; Ratiu, A; Sapru, A; Cowl, AS; Faustino, EVS; Mahadevaiah, S; Beltramo, F; Jeyapalan, AS; Cousins, MK; Stone, C; Fortenberry, J; Pinto, NP; Rodgers, C; Kniola, A; Porter, M; Owen, E; Lee, K; Thomas, LJ; Bembea, MM; Awojoodu, R; Kelly, D; Hughes, K; Mansoor, Z; Pineda, C; Yager, PH; Clark, M; Bateman, ST; Kuo, KW; Carlton, EF; Boville, B; Leimanis, M; Steiner, ME; Nerheim, D; Reniy, KE; Langford, L; Schicker, M; Singleton, MN; Jarvis, JD; Nett, ST; Getz, S; Killinger, JS; Sturhahn, M; Parker, MM; Harwayne-Gidansky, L; Watkins, LA; Cassel, G; Aran, A; Kaushik, S; Wen, AY; Hassinger, AB; Ozment, CP; Ray, CM; McCrory, MC; Bass, AL; Bigham, MT; Anthony, H; Muszynki, JA; Popelka, J; Fitzgerald, JC; Leonard, SD; Thomas, NJ; Spear, D; Marvin, WE; Saini, A; West, AN; McArthur, J; Norris, A; Ghafoor, S; Anderson, A; Monju, T; Bysani, K; Christie, LM; Loftis, LL; Meyer, AD; Tragus, R; Dibrell, H; Rupert, D; Delgado-Corcoran, C; Bodily, S; Willson, D; Dervan, LA; Hanson, SJ; Hagen, SA; Al-Subu, AM; Pediat Acute Lung Injury Sepsis In; Pediat Critical Care Blood Res Net; P3T Investigators. Effects of ABO Matching of Platelet Transfusions in Critically Ill Children. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(2) 77-82. FI: 2.854. Cuartil: 1. (Article).*

- *Sanavia, E; Mencia, S; Lafever, SN; Solana, MJ; Garcia, M; Lopez-Herce, J. Sedative and Analgesic Drug Rotation Protocol in Critically Ill Children With Prolonged Sedation: Evaluation of Implementation and Efficacy to Reduce Withdrawal Syndrome*. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(2) 61-69. FI: 2.854. Cuartil: 1. (Article).*

- *Sanavia, E; Mencia, S; Lopez-Herce, J. Rotating Analgosedation Reply. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(1) 23-29. FI: 2.854. Cuartil: 1. (Article).*

- *Rodriguez-Rey, R; Palacios, A; Alonso-Tapia, J; Perez, E; Alvarez, E; Coca, A; Mencia, S; Marcos, A; Mayordomo-Colunga, J; Fernandez, F; Gomez, F; Cruz, J; Ramos, V; Olmedilla, M. Are Pediatric Critical Personnel Satisfied With Their Lives? Prediction of Satisfaction With Life From Burnout, Posttraumatic Stress, and Posttraumatic Growth, and Comparison With Noncritical Pediatric Staff. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(12) 1111-1117. FI: 2.854. Cuartil: 1. (Article).*

- *Nellis, ME; Goel, R; Karam, O; Cushing, MM; Stanworth, SJ; Spinella, PC; Butt, W; Delzoppo, C; Erickson, S; Croston, E; Barr, S; Cavazzoni, E; de Jaeger, A; Tucci, M; French, ME; Ropars, M; Clayton, L; Murthy, S; Krahn, G; Qu, D; Hui, Y; Johansen, M; Jensen, AMB; Jarnvig, IL; Strange, D; Jayashree, M; Reddy, M; Sankar, J; Kumar, UV; Lodha, R; Lerner, RK; Paret, G; Schiller, O; Shostak, E; Dagan, O; Cavari, Y; Chiusolo, F; Cillis, A; Camporesi, A; Kneyber, M; Cochius-den Otter, S; Van Hemeldonck, E; Beca, J; Sherring, C; Rea, M; Abadesso, C; Moniz, M; Alshehri, S; Lopez-Herce, J; Ortiz, I; Garcia, M; Jordan, I; Gonzalez, JCF; Perez-Ferrer, A; Pascual-Albitre, A; Grazioli, S; Doell, C; Davis, PJ; Curro, I; Jones, A; Peters, MJ; Lillie, J; Wellman, PA; Aramburo, A; Shabana, M; Ramachandran, P; Sampaio, H; Sadasivam, K; Prince, NJ; Kanthimathinathan, HK; Branco, RG; Sykes, KL; Mellish, C; Sarfatti, A; Weitz, J; Sanders, RC; Hefley, G; Morzov, RSP; Markovitz, B; Ratiu, A; Sapru, A; Cowl, AS; Faustino, EVS; Mahadevaiah, S; Beltramo, F; Jeyapalan, AS; Cousins, MK; Stone, C; Fortenberry, J; Pinto, NP; Rodgers, C; Kniola, A; Porter, M; Owen, E; Lee, K; Thomas, LJ; Bembea, MM; Awojoodu, R; Kelly, D; Hughes, K; Mansoor, Z; Pineda, C; Yager, PH; Clark, M; Bateman, ST; Kuo, KW; Carlton, EF; Boville, B; Leimanis, M; Steiner, ME; Nerheim, D; Remy, KE; Langford, L; Schicker, M; Singleton, MN; Jarvis, JD; Nett, ST; Gertz, S; Killinger, JS; Sturhahn, M; Parker, MM; Harwayne-Gidansky, I; Watkins, LA; Cassel, G; Aran, A; Kaushik, S; Wen, AY; Hassinger, AB; Ozment, CP; Ray, CM; McCrory, MC; Bass, AL; Bigham, MT; Anthony, H; Muszynski, JA; Popelka, J; Fitzgerald, JC; Leonard, SD; Thomas, NJ; Spear, D; Marvin, WE; Saini, A; McArthur, J; Norris, A; Ghafoor, S; Anderson, A; Monjure, T; Bysani, K; Christie, LM; Loftis, LL; Meyer, AD; Tragus, R; Dibrell, H; Rupert, D; Delgado-Corcoran, C; Bodily, S; Willson, D; Dervan, LA; Hanson, SJ; Hagen, SA; Al-Subu, AM; Pediat Acute Lung Injury Sepsis In; Pediat Critical Care Blood Res Net; Point Prevalence Study Platelet Tr. International Study of the Epidemiology of Platelet Transfusions in Critically Ill Children With an Underlying Oncologic Diagnosis. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(3) 160-169. FI: 2.854. Cuartil: 1. (Article).*

- *Fernandez, S; Santiago, MJ; Gonzalez, R; Urbano, J; Lopez, J; Solana, MJ; Sanchez, A; del Castillo, J; Lopez-Herce, J. Hemodynamic impact of the connection to continuous renal replacement therapy in critically ill children. PEDIATRIC NEPHROLOGY. 2019; 34(1) 163-168. FI: 2.676. Cuartil: 1. (Article).*

- *Manrique, G; Garcia, M; Fernandez, SN; Gonzalez, R; Solana, MJ; Lopez, J; Urbano, J; Lopez-Herce, J. Comparison between synchronized and non-synchronized ventilation and between guided and non-guided chest compressions during resuscitation in a pediatric animal model after asphyxial cardiac arrest. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Manrique, G; Lopez-Herce, J; Lopez, J; Urbano, J. In a pediatric animal model of cardiac arrest: Is diastolic blood pressure associated with survival during resuscitation?. RESUSCITATION. 2019; 145 208-209. FI: 4.215. Cuartil: 1. (Letter).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 890-. FI: 1.591. Cuartil: 4. (Letter).*

- *Jimenez, CR; Hernani, MDT; Sanchez, CS. Endoscopic balloon dilation in duodenal stenosis secondary to intestinal lymphoma in a heart transplant patient. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Fernandez, R; Urbano, J; Carrillo, A; Vivanco, A; Solana, MJ; Rey, C; Lopez-Herce, J. Comparison of the effect of three different protein content enteral diets on serum levels of proteins, nitrogen balance, and energy expenditure in critically ill infants: study protocol for a randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Padial, JFC; Heras, E; Hernandez, B; Jimenez, AB; Martinez, A; Lopez-Herce, J; Mencia, S. Results after implementation of a sedoanalgesia protocol for procedures in hospital environment. REVISTA CHILENA DE PEDIATRIA-CHILE. 2019; 90(6) 649-656. (Article).*

***Other publications***

- *Tomatis Souverbielle C; González-Martínez F; González-Sánchez MI; Carrón M; Guerra Miguez L; Butragueño L; Gonzalo H; Villalba T; Perez Moreno J; Toledo B; Rodríguez-Fernández R. Strengthening the Chain of Survival: Cardiopulmonary Resuscitation Workshop for Caregivers of Children at Risk. PEDIATRIC QUALITY & SAFETY. 2019; 4(1) -. (Article).*

# 7.05B. Physiological and Therapeutic Medico-Surgical Aspects of Respiratory Diseases

Group Directors: **Luis Puente Maestu &Ignacio Garutti**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

It is a multidisciplinary group that includes anesthesiologists, thoracic surgeons, basic researchers and pulmonologists. Their different lines of research include the biology, physiopathology of the lung, airway and respiratory muscles as well as the effect of lung diseases on aerobic capacity and peripheral muscles. The group also has a vocation to develop and participate in clinical studies aimed at lung diseases and the prevention and management of perioratory complications -

## Research lines

**Axis 1: Prevention of respiratory complications of surgery**
- L1: Prevention of respiratory complications of thoracic surgery with prophylactic CPAP. Leader: Luis Puente Maestu.
- L2: Pharmacologic measures for the prevention of acute pulmonary lesions after lung resection surgery. Leader: Fco. Andrés de la Gala.
- L3: Optimization of one-lung ventilation. Leader: Ignacio Garutti.
- L4: Prevention of postoperative complications of mechanical ventilation in non-cardiothoracic surgery. Leader: Patricia Piñeiro.

**Axis 2: Epidemiology of respiratory diseases**
- L1: Outcome of patients admitted with respiratory disease. Leader: Javier de Miguel.
- L2: Characterization of patients with multiple admissions. Leader: Javier de Miguel.
- L3: Phenotypic characterization of patients with asthma and COPD (ARES, CHACOS, EPOCONSUL, PAGE, NOVELTY and y ENEAS studies). Leader: Luis Puente Maestu.

**Axis 3: Phisiopatology and biology of exercise and skeletal muscle in COPD**
- L1: Effects of pharmacological treatments for COPD and Asthma on aerobic capacity Regenerating and Non-Finalist Studies with GSK. Leader: Luis Puente Maestu.
- L2: Physical activity in COPD. Leader: Luis Puente Maestu.

**Axis 4: Bronchoscopy in the management and diagnosis of respiratory diseases**
- L1: Prospective registry of bronchial thermoplasty. Leader: Luis Puente Maestu.
- L2: Bacteriological diagnosis of nosocomial pneumonia. Leader: Javier García López.
- L3: Cytologic diagnosis of lymphoma using flow cytometry. Leader: Javier García López.
- L4: Recording the efficacy and safety of endobronchial valves in the treatment of persistent air leak. Leader: Javier García López.

**Axis 5: Development of new pharmacological treatments**
- L1: Clinical trials with the pharmaceutical industry for COPD. Leader: Luis Puente Maestu.
- L2: Clinical trials with the pharmaceutical industry for asthma. Leader: Luis Puente Maestu
- L2: Clinical trials with the pharmaceutical industry for chronic cough. Leader: Luis Puente Maestu.

**Axis 6: Experimental lung transplant model**
- L1: Organ preservation. Leader: Carlos Simón Adiego.

**Axis 7: Management of venous thromboembolic disease**
- L1: Pulmonary embolism and comorbidity. Leader: Javier de Miguel.
- L2: Studies on adaptation of treatment to CPG. Leader: Javier de Miguel.

**Axis 8: Respiratory disease and sleep**
- L1: Sleep disorders in persons aged >75 years. Leader: Soledad López Martín.
- L2: Optimization of the management of patients with obesity-hypoventilation with respiratory therapies. Leader: Daniel López Padilla

**Axis 9: Neuroanatomy of the larynx**
- L1: Anatomical variability of the larynx. Leader: Mª Teresa Vázquez Osorio.
- L2: Laryngeal reinnervation. Leader: Mª Teresa Vázquez Osorio.

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| BENEDETTI | | PAOLA ANTONELLA | R1 | First Stage Researcher |
| CASANOVA | BAREA | JAVIER | | |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CEREZO | LAJAS | ALICIA | R2 | Recognised Researcher |
| CRUZ | PARDOS | PATRICIA | | |
| DE LA GALA | GARCÍA | FRANCISCO ANDRÉS | R3 | Established Researcher |
| DE MIGUEL | DIEZ | JAVIER | R1 | First Stage Researcher |
| FUENTES | ALONSO | MARTA | R1 | First Stage Researcher |
| GALLARDO | BERMEJO | MARIA | Other | Nursing |
| GARCIA | DE PEDRO | JULIA | R3 | Established Researcher |
| GARCIA | LOPEZ | JOSE JAVIER | R3 | Established Researcher |
| GARCÍA | GARCÍA | MARIA CRUZ | | |
| GARUTTI | MARTÍNEZ | IGNACIO | R4 | Leading Researcher |
| GIRON | MATUTE | WALTHER IVAN | R2 | Recognised Researcher |
| GONZALEZ | MORAGA | FRANCISCO JOSE | R1 | First Stage Researcher |
| GONZÁLEZ | CASAURRÁN | GUILLERMO | R1 | First Stage Researcher |
| GONZÁLEZ | SACRISTAN | ANGELA | R1 | First Stage Researcher |
| HERNANDEZ | YAÑEZ | MARGARITA | Other | Nursing |
| HUERTA | MARTINEZ | LUIS JAVIER | R1 | First Stage Researcher |
| LOPEZ | PADILLA | DANIEL EDUARDO | R3 | Established Researcher |
| LÓPEZ | MARTÍN | SOLEDAD | R3 | Established Researcher |
| OJEDA | CASTILLEJO | ELENA | R2 | Recognised Researcher |
| OLIVA | RAMOS | ALICIA | R1 | First Stage Researcher |
| PAREDES | ROYANO | SERGIO | | |
| PEDRAZA | SERRANO | FERNANDO | R1 | First Stage Researcher |
| PIÑEIRO | OTERO | PATRICIA | | |
| PUENTE | MAESTU | LUIS | R4 | Leading Researcher |
| RANCAN | | LISA | | |
| ROJAS | MORENO-TOME | ROSA MARIA | Other | Nursing |
| SANCHEZ | MUÑOZ | GEMA | R2 | Recognised Researcher |
| SANCHEZ | PEDROSA | GUILLERMO | | |
| SANZ | SANZ | MARIA DEL PILAR | R1 | First Stage Researcher |
| SAÑUDO | TEJEDO | JOSE RAMÓN | | |
| SIMÓN | ADIEGO | CARLOS MARIA | R3 | Established Researcher |
| SOLANO | REINA | SEGISMUNDO | R3 | Established Researcher |
| TERAN TINEDO | TINEDO | | R2 | Recognised Researcher |
| VARA | AMEIGEIRAS | ELENA | | |
| VAZQUEZ | OSORIO | MARIA TERESA | R3 | Established Researcher |
| DE MIGUEL | DIEZ | JAVIER | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Impacto de la administración de lidocaina intravenosa o paravertebral durante el intraoperatorio de la cirugia de resección pulmonar.** PI18/01305
DIRECTOR: GARUTTI MARTÍNEZ, IGNACIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Reducción de complicaciones post-operatorias pulmonares mediante una estrategia ventilatoria perioperatoria de apertura pulmonar.** PI18/01611
DIRECTOR: PIÑEIRO OTERO, PATRICIA

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2019
END DATE: 31/12/2021

TITLE: **Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM)** S2017/BMD-3773
DIRECTOR: PUENTE MAESTU, LUIS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2020

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| RETICS | REDISEC Red de investigación en enfermedades crónicas | Associated group |
| Others (Red de la Comunidad de Madrid) | GENOBIA Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos con riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas. Aporte del análisis genético GENOBIA | Collaborating group<br>Coordinating group (Network training activities) |
| Others | EPOCONSUL Spanish clinical audit on the medical care for COPD patients | Associated group |
| Others | CHACOS Study Group. Grupo de estudio para la caracterización del fenotipo mixto asma-epoc | Associated group |
| Others | SPANISH SLEEP NETWORK | Collaborating group |
| Others (Red privada financiada por Sanofi) | Registro informatizado de pacientes con enfermedad tromboembolíca (RIETE) | Associated group |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Niven R, Aubier M, Bonta P, Puente-Maestu L, Facciolongo N, Ryan D. | **EUROPEAN CONSENSUS MEETING/STATEMENT ON BRONCHIAL THERMOPLASTY WHO? WHERE? HOW?** | Respir Med. 2019 Apr;150:161-164. doi: 10.1016/j.rmed.2019.02.020. Epub 2019 Mar 22. PubMed PMID: 30961945. |

## *Publications* *Total Impact Factor: 252.8*

| | Nº | FI |
|---|---|---|
| Own publications | 25 | 83.3 |
| Joint publications | 22 | 169.5 |
| First decile publications | 5 | 105.0 |
| First quartile publications | 24 | 199.7 |
| Second quartile publications | 13 | 36.4 |
| Third quartile publications | 9 | 15.9 |
| Fourth quartile publications | 1 | 0.9 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **48** | **252.8** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Garutti, I; Rancan, L; Abubakra, S; Simon, C; Paredes, SD; Ortega, J; Huerta, L; Ramos, S; Vara, E. Effects of Intraoperative Infusion of Esmolol on Systemic and Pulmonary Inflammation in a Porcine Experimental Model of Lung Resection Surgery. ANESTHESIA AND ANALGESIA. 2019; 128(1) 168-175. FI: 4.305. Cuartil: 1. (Article).*
- *Verde Z; Santiago C; Chicharro LM; Bandres F; Gomez-Gallego F; Rodriguez Gonzalez-Moro JM; de Lucas P. Association of HTR2A-1438G/A Genetic Polymorphism With Smoking and Chronic Obstructive Pulmonary Disease. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(12) 654-656. FI: 4.957. Cuartil: 1. (Letter).*
- *Puente-Maestu, L; Bermejo, MG; Giron-Matute, WI. Future Diagnostic Techniques in Pulmonology. A Change in Mindset. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 176-176. FI: 4.957. Cuartil: 1. (Letter).*
- *Cerezo Lajas A; Rodriguez Guzman MDC; de Miguel Diez J. Hemoptysis Associated With Therapeutic Doses of Acenocoumarol. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(10) 507-508. FI: 4.957. Cuartil: 1. (Editorial Material).*
- *Lajas, AC; Guzman, MDR; Diez, JD. Left Bronchial Artery Aneurysm. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 492-493. FI: 4.957. Cuartil: 1. (Letter).*
- *de Granda-Orive JI; Pascual-Lledo JF; Asensio-Sanchez S; Solano-Reina S; Garcia-Rueda M; Martinez-Muniz MA; Lazaro-Asegurado L; Bujulbasich D; Pendino R; Luhning S; Cienfuegos-Agustin I; Jimenez-Ruiz CA. Is There an Association Between the Degree of Nicotine Dependence and the Motivation to Stop Smoking?. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 139-145. FI: 4.957. Cuartil: 1. (Article).*
- *de Granda-Orive, JI; Pascual-Lledo, JF; Solano-Reina, S; Asensio-Sanchez, S; Garcia-Rueda, M; Martinez-Muniz, MA; Lazaro-Asegurado, L; Luhning, S; Bujulbasich, D; Pendino, R; Cienfuegos-Agustin, I; Jimenez-Ruiz, CA. When Should We Measure Self-Efficacy as an Aid to Smoking Cessation?. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(1) 38-47. FI: 4.957. Cuartil: 1. (Article).*
- *Matabuena, M; Hayes, PR; Puente-Maestu, L. Prediction of Maximal Oxygen Uptake From Submaximal Exercise Testing in Chronic Respiratory Patients. New Perspectives. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(5) 229-230. FI: 4.957. Cuartil: 1. (Editorial Material).*
- *de Miguel-Diez, J; Martinez, AG; Martinez, CM. Perioperative and Periprocedural Management of Antithrombotic Therapy. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(6) 341-342. FI: 4.957. Cuartil: 1. (Article).*
- *Amado Diago CA; Puente Maestu L. Regarding the Translation and Validation of the Multidimensional Dyspnea Questionnaire-12. Authors' Response. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 457-458. FI: 4.957. Cuartil: 1. (Editorial Material).*
- *Alfageme, I; de Lucas, P; Ancochea, J; Miravitlles, M; Soler-Cataluna, JJ; Garcia-Rio, F; Casanova, C; Gonzalez-Moro, JMR; Cosio, BG; Sanchez, G; Soriano, JB. 10 Years After EPISCAN: A New Study on the Prevalence of COPD in Spain -A Summary of the EPISCAN II Protocol. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 128-133. FI: 4.957. Cuartil: 1. (Article).*
- *Ramos, AO; Diez, JD; Maestu, LP; Fernandez, JD. Arterial Gas Embolism: A Rare Complication of Core Needle Biopsy in the Diagnosis of Solitary Pulmonary Nodule. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(4) 215-215. FI: 4.957. Cuartil: 1. (Editorial Material).*
- *Diez, JD; Lajas, AC; Maestu, LP. Differential Factors in Fume Fever. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 451-452. FI: 4.957. Cuartil: 1. (Editorial Material).*
- *Jimenez, D; Bikdeli, B; Quezada, A; Muriel, A; Lobo, JL; de Miguel-Diez, J; Jara-Palomares, L; Ruiz-Artacho, P; Yusen, RD; Monreal, M; RIETE Investigators. Hospital volume and outcomes for acute pulmonary embolism: multinational population based cohort study. BMJ-BRITISH MEDICAL JOURNAL. 2019; 366 -. FI: 30.223. Cuartil: 1. (Article).*
- *Spence, J; LeManach, Y; Chan, MTV; Wang, CY; Sigamani, A; Xavier, D; Pearse, R; Alonso-Coello, P; Garutti, I; Srinathan, SK; Duceppe, E; Walsh, M; Borges, FK; Malaga, G; Abraham, V; Faruqui, A; Berwanger, O; Biccard, BM; Villar, JC; Sessler, DI; Kurz, A; Chow, CK; Polanczyk, CA; Szczeklik, W; Ackland, G; Garg, AX; Jacka, M; Guyatt, GH; Sapsford, RJ; Williams, C; Cortes, OL; Coriat, P; Patel, A; Tiboni, M; Belley-Cote, EP; Yang, S; Heels-Ansdell, D; McGillion, M; Schunemann, HJ; Parlow, S; Patel, M; Pettit, S; Yusuf, S; Devereaux, PJ; Vascular Events Noncardiac Surg Pa. Association between complications and death within 30 days after noncardiac surgery. CANADIAN MEDICAL ASSOCIATION JOURNAL. 2019; 191(30) 830-837. FI: 7.744. Cuartil: 1. (Article).*
- *Lopez-de-Andres, A; de Miguel-Diez, J; Munoz-Rivas, N; Hernandez-Barrera, V; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Impact of type 2 diabetes mellitus in the utilization and in-hospital outcomes of surgical mitral valve replacement in Spain (2001-2015). CARDIOVASCULAR DIABETOLOGY. 2019; 18(1) -. FI: 7.332. Cuartil: 1. (Article).*
- *de Miguel-Yanes, JM; Jimenez-Garcia, R; Hernandez-Barrera, V; de Miguel-Diez, J; Mendez-Bailon, M; Munoz-Rivas, N; Perez-Farinos, N; Lopez-de-Andres, A. Infective endocarditis according to type 2 diabetes mellitus status: an observational study in Spain, 2001-2015. CARDIOVASCULAR DIABETOLOGY. 2019; 18 -. FI: 7.332. Cuartil: 1. (Article).*
- *de Miguel-Diez, J; Jimenez-Garcia, R; de Andres, AL; Arnaez, FZ. Effectiveness of an Intervention to Improve Management of COPD using the AUDIT Methodology: Results of the Neumo-Advance Study. CLINICAL DRUG INVESTIGATION. 2019; 39(7) 653-664. FI: 2.267. Cuartil: 3. (Article).*

- *Mendez-Bailon, M; Jimenez-Garcia, R; Hernandez-Barrera, V; Comin-Colet, J; Esteban-Hernandez, J; de Miguel-Diez, J; de Miguel-Yanes, JM; Munoz-Rivas, N; Lorenzo-Villalba, N; Lopez-de-Andres, A. Significant and constant increase in hospitalization due to heart failure in Spain over 15 year period. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 53-59. FI: 4.329. Cuartil: 1. (Article).*

- *Munoz-Rivas, N; Jimenez-Garcia, R; Mendez-Bailon, M; Hernandez-Barrera, V; de Miguel-Diez, J; Lorenzo-Villalba, N; de Miguel-Yanes, JM; Lopez-de-Andres, A. Type 2 diabetes increases the risk of hospital admission for heart failure and reduces the risk of in hospital mortality in Spain (2001-2015). EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 46-52. FI: 4.329. Cuartil: 1. (Article).*

- *de Miguel-Diez, J; Lopez-de-Andres, A; Jimenez-Trujillo, I; Hernandez-Barrera, V; Jimenez-Garcia, R; Lorenzo, A; Pedrajas, JM; Visona, A; Lopez-Miguel, P; Monreal, M; Adarraga, MD; Aibar, MA; Aibar, J; Alfonso, M; Amado, C; Aranda, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Carrasco, C; Cruz, AJ; de Miguel-Diez, J; del Toro, J; Diaz-Pedroche, MC; Diaz-Peromingo, JA; Falga, C; Fernandez-Capitan, C; Fidalgo, MA; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Morillo, M; Garcia-Ortega, A; Gavin, O; Gomez, V; Gonzalez-Martinez, J; Grau, E; Guijarro, R; Guirado, L; Gutierrez, J; Hernandez-Blasco, L; Isern, V; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Jimenez, J; Jou, I; Joya, MD; Lalueza, A; Lima, J; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Lumbierres, M; Madridano, O; Marchena, PJ; Martin-Martos; Monreal, M; Morales, MV; Nieto, JA; Nunez, A; Nunez, MJ; Olivares, MC; Otalora, S; Otero, R; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Perez-Jacoiste, A; Penis, ML; Pesce, ML; Porras, JA; Riesco, D; Rivas, A; Rodriguez-Davila, MA; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Sahuquillo, JC; Sala-Sainz, MC; Samperiz, A; Sanchez-Munoz-Torrero, JF; Sancho, T; Soler, S; Soto, MJ; Surinach, JM; Tolosa, C; Torrents, A; Torres, MI; Trujillo-Santos, J; Uresandi, F; Usandizaga, E; Valle, R; Vela, J; Vidal, G; Villalobos, A; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanasschc, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Farge-Bancel, D; Hij, A; Merah, A; Mahe, I; Moustafa, F; Braester, A; Brenner, B; Ellis, M; Tzoran, I; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Cattabiani, C; Ciammaichella, M; Dentali, F; Di Micco, P; Giorgi-Pierfranceschi, M; Grandone, E; Imbalzano, E; Maida, R; Mastroiacovo, D; Ngoc, V; Pace, F; Parisi, R; Pesavento, R; Prandoni, P; Quintavalla, R; Rocci, A; Siniscalchi, C; Sotgiu, P; Tiraferri, E; Tufano, A; Visona, A; Zalunardo, B; Kalejs, R; Skride, A; Vitola, B; Bosevski, M; Zdraveska, M; Ii, B; Fresa, M; Mazzolai, L; Caprini, J; Bui, HM; RIETE Investigators. Mortality after pulmonary embolism in patients with diabetes. Findings from the RIETE registry. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 48-56. FI: 4.329. Cuartil: 1. (Article).*

- *Lopez-de-Andres, A; Mendez-Bailon, M; Perez-Farinos, N; Hernandez-Barrera, V; de Miguel-Diez, J; Munoz-Rivas, N; Jimenez-Garcia, R. Gender differences in incidence and in-hospital outcomes of surgical aortic valve replacement in Spain, 2001-15. EUROPEAN JOURNAL OF PUBLIC HEALTH. 2019; 29(4) 674-680. FI: 2.391. Cuartil: 2. (Article).*

- *de Miguel-Diez, J; Jimenez-Garcia, R; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Lopez-de-Andres, A. National Trends In Kidney, Heart And Liver Transplants Among Patients With And Without Chronic Obstructive Pulmonary Disease In Spain (2001-2015). INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2019; 14 2235-2243. FI: 2.772. Cuartil: 2. (Article).*

- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Trends and hospital outcomes of lung transplantation among patients with and without chronic obstructive pulmonary disease in Spain: a national population-based study (2001-2015). INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2019; 14 729-737. FI: 2.772. Cuartil: 2. (Article).*

- *de Miguel-Yanes, JM; Jimenez-Garcia, R; de Miguel-Diez, J; Hernandez-Barrera, V; Mendez-Bailon, M; Munoz-Rivas, N; Lopez-de-Andres, A. In-hospital outcomes for solid organ transplants according to type 2 diabetes status: An observational, 15-year study in Spain. INTERNATIONAL JOURNAL OF CLINICAL PRACTICE. 2019; 73(3) -. FI: 2.444. Cuartil: 2. (Article).*

- *Carraminana, A; Ferrando, C; Unzueta, MC; Navarro, R; Suarez-Sipmann, F; Tusman, G; Garutti, I; Soro, M; Pozo, N; Librero, J; Gallego, L; Ramasco, F; Rabanal, JM; Rodriguez, A; Sastre, J; Martinez, J; Coves, S; Garcia, P; Aguirre-Puig, P; Yepes, J; Lluch, A; Lopez-Herrera, D; Leal, S; Vives, M; Bellas, S; Socorro, T; Trespalacios, R; Salazar, CJ; Mugarra, A; Cinnella, G; Spadaro, S; Futier, E; Ferrer, L; Cabrera, M; Ribeiro, H; Celestino, C; Kucur, E; Cervantes, O; Morocho, D; Delphy, D; Ramos, C; Villar, J; Belda, J; Monedero, P; Martinez, S; Comino, O; Coy, A; Armengol, L; Pineiro, P; Cruz, P; Duque, P; de la Gala, FA; Sanchez, G; Olmedilla, L; de la Fuente, E; Erquicia, I; Reyes, A; Lopez, E; Palencia, M; Bunger, B; Ramos, R; Terradillos, E; Almaraz, C; Lujan, LM; Lopez, A; Femenia, F; Botella, S; Cimadevilla, B; Pascual, R; Pardo, S; Gonzalez, M; Lopez, C; Trabanco, S; Zaldibar, E; Barolome, MJ; Pereira, D; Otero, T; Blanco, L; Reparaz, JR; Ceresuela, R; Castellano, P; Martinez, P; Martinez, O; Franco, J; Hernandez, J; Pastor, O; Solera, J; Guerra, E; Dib, ZH; Farina, R; Cabrera, S; Arribas, MP; Sastre, JA; de Celis, I; Pascual, MJ; Garcia-Barberena, B; Arango, E; Amaya, O; Madrid, G; Triana, C; Pabon, S; Diaz, DP; Ortells, F; Perez, B; Aracil, R; Sanchez, R; Acosta, J; de la Matta, M; Gonzalez, D; Mirabella, L; Rauseo, M; Lamanna, A; Volta, CA; Ragazzi, R; Cachapuz, M; Correia, I; Parera, A; Argilaga, M; Azparren, G; Bausili, M; Almajano, R; Aragon, C; Colas, A; Cotera, I; Embun, R; Forcada, P; Garces, C; Gil, F; Gracia, A; Herrero, M; Izquierdo, B; Martinez, P; Munoz, N; Puertolas, M; Quesada, N; Recuero, JL; Royo, I; Romero, B; Rubio, B; Sandin, F; Sanjuan-Villarreal, TA; Valles-Torres, J; Cordoba, J; Pintor, J; Planas, A; Nieves, JM; Garcia, E; Vallejo, C; Santidrian, S; Rofso, P; Arocas, B; Gutierrez, A; Charco, P; Parra, MJ; Carbonell, JA; Jurado, A; Serralta, F; Sancho, L; Barcena, E; Lascorz, L; Belmonte, L; Cuervo, J; Florea, R; Martinez, S; Monleon, B; Perez, S; Garcia, L; Hurtado, L; Pardo, P; Segura, N; Utrera, E; Martin, B; Mellado, P; Arcas, JJ; Martinez, N; Maric, M; Munoz, LE; Gonzalez, RC; Busquets, J; Homs, M; Jimenez, A; Pintanel, T; Martinez, E; Moret, E; Sercakacilar, G; Diaz, M; Souteiro, JT; Benito, A; Cebrian, A; Mestres, G; Mohamed, MI; Yousef, SA; Osman, YM; Moreno, A; Tutillo, A; Pilco, H; Pena, A; Llano, M; Carrillo, E; Salazar, C; Dominguez, D; Espinosa, E; iPROVE-OLV Network. Rationale and Study Design for an Individualized Perioperative Open Lung Ventilatory Strategy in Patients*

*on One-Lung Ventilation (iPROVE-OLV). JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA. 2019; 33(9) 2492-2502. FI: 2.258. Cuartil: 3. (Article).*

- *De Miguel-Diez, J; Lopez-De-Andres, A; Hernandez-Barrera, V; De Miguel-Yanes, JM; Mendez-Bailon, M; Munoz-Rivas, N; Jimenez-Garcia, R. Chronic obstructive pulmonary disease is not associated with worse in-hospital outcomes after surgical aortic valve replacement in Spain (2001-2015). JOURNAL OF CARDIOVASCULAR SURGERY. 2019; 60(3) 413-421. FI: 1.415. Cuartil: 3. (Article).*
- *de Miguel-Diez, J; Jimenez-Garcia, R; Hernandez-Barrera, V; Puente-Maestu, L; Giron-Matute, WI; de Miguel-Yanes, JM; Mendez-Bailon, M; Villanueva-Orbaiz, R; Albaladejo-Vicente, R; Lopez-de-Andres, A. Trends in the Use and Outcomes of Mechanical Ventilation among Patients Hospitalized with Acute Exacerbations of COPD in Spain, 2001 to 2015. JOURNAL OF CLINICAL MEDICINE. 2019; 8(10) -. FI: 3.303. Cuartil: 1. (Article).*
- *Lopez-de-Andres, A; Jimenez-Garcia, R; Esteban-Vasallo, MD; Hernandez-Barrera, V; Aragon-Sanchez, J; Jimenez-Trujillo, I; de Miguel-Diez, J; Palomar-Gallego, MA; Romero-Maroto, M; Perez-Farinos, N. Time Trends in the Incidence of Long-Term Mortality in T2DM Patients Who Have Undergone a Lower Extremity Amputation. Results of a Descriptive and Retrospective Cohort Study. JOURNAL OF CLINICAL MEDICINE. 2019; 8(10) -. FI: 3.303. Cuartil: 1. (Article).*
- *Garutti, I; De la Gala, F; Pineiro, P; Rancan, L; Vara, E; Reyes, A; Puente-Maestu, L; Bellon, JM; Simon, C. Usefulness of combining clinical and biochemical parameters for prediction of postoperative pulmonary complications after lung resection surgery. JOURNAL OF CLINICAL MONITORING AND COMPUTING. 2019; 33(6) 1043-1054. FI: 2.108. Cuartil: 3. (Article).*
- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*
- *Esteban-Vasallo, MD; de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Garcia, R. Clostridium difficile-related hospitalizations and risk factors for in-hospital mortality in Spain between 2001 and 2015. JOURNAL OF HOSPITAL INFECTION. 2019; 102(2) 148-156. FI: 3.271. Cuartil: 1. (Article).*
- *Diaz-Campos, RM; Bobolea, I; Giron-Matute, W; Guillen-Vera, D; De las Cuevas-Moreno, N; Melero-Moreno, C. Autoimmune Diseases and Asthma. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(3) 246-. FI: 3.488. Cuartil: 2. (Article).*
- *Masa, JF; Mokhlesi, B; Benitez, I; de Terreros, FJG; Sanchez-Quiroga, MA; Romero, A; Caballero-Eraso, C; Teran-Santos, J; Alonso-Alvarez, ML; Troncoso, MF; Gonzalez, M; Lopez-Martin, S; Marin, JM; Marti, S; Diaz-Cambriles, T; Chiner, E; Egea, C; Barca, J; Vazquez-Polo, FJ; Negrin, MA; Martel-Escobar, M; Barbe, F; Corral, J; Fernandez, G; Ordax-Carbajo, E; Gonzalez-Mangado, N; Gomez-Garcia, T; Martinez-Martinez, MA; Ojeda-Castillejo, E; Padilla, DL; Carrizo, PJ; Gallego, B; Pallero, M; Romero, O; Ramon, MA; Arias, E; Munoz-Mendez, J; Senent, C; Sancho-Chust, JN; Soriano, NBN; Barrot, E; Benitez, JM; Sanchez-Gomez, J; Golpe, R; Santiago-Recuerda, A; Gomez, S; Bengoa, M; Spanish Sleep Network. Long-term clinical effectiveness of continuous positive airway pressure therapy versus non-invasive ventilation therapy in patients with obesity hypoventilation syndrome: a multicentre, open-label, randomised controlled trial. LANCET. 2019; 393(10182) 1721-1732. FI: 60.392. Cuartil: 1. (Article).*
- *de-Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Munoz-Rivas, N; Romero-Maroto, M; Jimenez-Garcia, R. Retrospective observational analysis of hospital discharge database to characterize primary pulmonary hypertension and its outcomes in Spain from 2004 to 2015. MEDICINE. 2019; 98(18) -. FI: 1.552. Cuartil: 3. (Article).*
- *Pedraza-Serrano, F; Jimenez-Garcia, R; Lopez-de-Andres, A; Hernandez-Barrera, V; Sanchez-Munoz, G; Puente-Maestu, L; de-Miguel-Diez, J. Characteristics and outcomes of patients hospitalized with interstitial lung diseases in Spain, 2014 to 2015. MEDICINE. 2019; 98(21) -. FI: 1.552. Cuartil: 3. (Article).*
- *Sanchez-Munoz, G; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Garcia, R; Pedraza-Serrano, F; Puente-Maestu, L; de Miguel-Diez, J. Bronchiectasis in patients hospitalized with acute exacerbation of COPD in Spain: Influence on mortality, hospital stay, and hospital costs (2006-2014) according to gender. PLOS ONE. 2019; 14(1) -. FI: 2.74. Cuartil: 2. (Article).*
- *Lopez-de-Andres, A; Perez-Farinos, N; de Miguel-Diez, J; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Type 2 diabetes and postoperative pneumonia: An observational, population-based study using the Spanish Hospital Discharge Database, 2001-2015. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*
- *de Miguel-Diez, J; Hernandez-Vazquez, J; Lopez-De-Andres, A; Alvaro-Meca, A; Hernandez-Barrera, V; Jimenez-Garcia, R. Analysis of environmental risk factors for chronic obstructive pulmonary disease exacerbation: A case-crossover study (2004-2013). PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*
- *de-Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; De Miguel-Yanes, JM; Mendez-Bailon, M; Munoz-Rivas, N; Jimenez-Garcia, R. Trends, characteristics, in-hospital outcomes and mortality in surgical mitral valve replacement among patients with and without COPD in Spain (2001-2015). PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *de Granda-Orive, JI; Pascual-Lledo, JF; Asensio-Sanchez, S; Solano-Reina, S; Garcia-Rueda, M; Martinez-Muniz, MA; Lazaro-Asegurado, L; Bujulbasichg, D; Pendino, R; Luhning, S; Cienfuegos-Agustin, I; Jimenez-Ruiz, CA. Should tobacco interventions be different in men and women?. PULMONOLOGY. 2019; 25(1) 55-58. FI: 2.778. Cuartil: 2. (Letter).*

- *Niven, R; Aubier, M; Bonta, P; Puente-Maestu, L; Facciolongo, N; Ryan, D. European consensus meeting/statement on Bronchial Thermoplasty Who? Where? How?. RESPIRATORY MEDICINE. 2019; 150 161-164. FI: 3.095. Cuartil: 2. (Article).*

- *de Llano, LP; Martinez-Moragon, E; Moral, VP; Alonso, AT; Sanchez, CA; Callejas, FJ; Vera, E; Campos, JGS; Rivera, CM; Navarrete, BA; Landa, IU; Rivero, JLG; Galo, AP; Gutierrez, FA; Landete, P; Gonzalez, JR; Aracil, CF; Gracia, JAC; Lluch, I; Puente, L; Andujar-Espinosa, R; Cosio, BG. Unmet therapeutic goals and potential treatable traits in a population of patients with severe uncontrolled asthma in Spain. ENEAS study. RESPIRATORY MEDICINE. 2019; 151 49-54. FI: 3.095. Cuartil: 2. (Article).*

- *Matesanz, CM; de la Gala, F; Rancan, L; Pineiro, P; Simon, C; Tejedor, A; Vara, E; Gonzalez-Cantero, JL; Garutti, I. Predictive value of plasma cytokines for acute kidney injury following lung resection surgery: prospective observational study. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 242-252. FI: 0.867. Cuartil: 4. (Article).*

- *de Granda-Orive, JI; Pascual-Lledo, JF; Asensio-Sanchez, S; Solano-Reina, S; Garcia-Rueda, M; Martinez-Muniz, MA; Lazaro-Asegurado, L; Bujulbasich, D; Pendino, R; Luhning, S; Cienfuegos-Agustin, I; Jimenez-Ruiz, CA. Fagerstrom Test and Heaviness Smoking Index. Are they Interchangeable as a Dependence Test for Nicotine?. SUBSTANCE USE & MISUSE. 2019; 55(2) 200-208. FI: 1.497. Cuartil: 3. (Article).*

- *Duque, P; Garutti, I; Terradillos, E; Ledesma, B; Rancan, L; Simon, C; Vara, E. Modulation of CCL2 Expression by Laparoscopic Versus Open Surgery for Colorectal Cancer Surgery. SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES. 2019; 29(2) 101-108. FI: 1.382. Cuartil: 3. (Article).*

- *De la Gala, F; Pineiro, P; Reyes, A; Simon, C; Vara, E; Rancan, L; Huerta, LJ; Gonzalez, G; Benito, C; Munoz, M; Grande, P; Paredes, SD; Aznar, PT; Perez, A; Martinez, D; Higuero, F; Sanz, D; De Miguel, JP; Cruz, P; Olmedilla, L; Gil, EL; Duque, P; Sanchez-Pedrosa, G; Valle, M; Garutti, I. Effect of intraoperative paravertebral or intravenous lidocaine versus control during lung resection surgery on postoperative complications: A randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Rancan, L; Paredes, SD; Garcia, C; Asencio, JM; Garutti, I; Huerta, L; Maranon, G; Simon, C; Zueco, JA; Vara, E. A SURVEY STUDY EXPLORING OPINIONS OF SECOND-YEAR MEDICAL STUDENTS ON THEIR PARTICIPATION IN A FORMAL DEBATE WITH FLIPPED CLASSROOM ACTIVITY. INTED PROCEEDINGS. 2019; 7809-7812. (Proceedings Paper).*

# 7.06 Regenerative medicine in plastic surgery

Group Directors: **Rosa Pérez Cano & José María Lasso Vázquez**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

**P1: Regenerative medicine**
- L1: Breast reconstruction with stem cells from adipose tissue
- L2: Regeneration of peripheral nerves with stem cells
- L3: Regeneration in other diseases

**P2: Gene therapy with viral delivery vehicles**
- L1: VGEF in the axial nervous system
- L2: Peripheral nervous system
- L3: Vascular system

**P3: Hematopoietic chimerism methods**

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ARENAS | DOMINGO | LUIS JAVIER | R1 | First Stage Researcher |
| CORTINA | ACEVEDO | EDGAR ALFONSO | R1 | First Stage Researcher |
| LASSO | VAZQUEZ | JOSE MARIA | R4 | Leading Researcher |
| NAVA | PÉREZ | PAOLA | | |
| PEREZ | CANO | ROSA | R4l | Leading Researcher |

## Industrial and intellectual property registrations

### Industrial property

| Title | Reference* | Owner | Inventors |
|---|---|---|---|
| **Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos** | P200501182 (Familia con 5 patentes) | FIBHGM | José María Lasso, Paola Nava |

* ***Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## Publications

## Total Impact Factor: **4.9**

| | Nº | FI |
|---|---|---|
| Own publications | 2 | 3.3 |
| Joint publications | 1 | 1.6 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 1 | 2.0 |
| Third quartile publications | 2 | 3.0 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **3** | **4.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Pascual, PM; Maranillo E; Vazquez T; de Blas, CS; Lasso JM; Sanudo JR. Extracranial Course of the Facial Nerve Revisited. ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. 2019; 302(4) 599-608. FI: 1.634. Cuartil: 3. (Article).*
- *Lasso, JM; Deleyto la Cruz E; Gonzalez-Pozega, C. Supermicrosurgical lymphovenous anastomosis. CIRUGIA ESPANOLA. 2019; 97(5) 291-291. FI: 1.323. Cuartil: 3. (Editorial Material).*
- *Lasso, JM; Maranillo, E; Martinez-pascual, P; Goni, E; Vazquez, T; Sanudo, J; Pascual-Font, A. Anatomical study of the masseteric and obturator nerves: Application to face transplant and reanimation procedures. CLINICAL ANATOMY. 2019; 32(5) 612-617. FI: 1.967. Cuartil: 2. (Article).*

# 7.07 Experimental kidney transplant

Group Director**: Enrique Lledó García / Carlos Hernández Fernández**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

**Axis 1:** Reconstructive urogenital surgery: use of autologous tissue and grafts for the treatment of urethral stenosis and Peyronie disease. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández.
**Axis 2:** Use of pulsatile hypothermic perfusion in non-heart beating donor grafts (Maastricht type 3) and ECDK transplantation. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández.
**Axis 3:** Early recovery after laparoscopic surgery for the treatment of cancer of the lower urinary tract (cystectomy). Leaders: Dr. Hernández, Dr. Subira and Dr. Moralejo.
**Axis 4:** Multifactorial teaching program in prosthetic surgery of the genitourinary tract. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ESCRIBANO | PATIÑO | GREGORIO | | |
| HERNANDEZ | FERNANDEZ | CARLOS | R4 | Leading Researcher I |
| HERRANZ | AMO | FELIPE BERNARDO | R2 | Recognised Researcher |
| JARA | RASCON | JOSE | R2 | Recognised Researcher |
| LLEDÓ | GARCIA | ENRIQUE | R4 | Leading Researcher |
| OGAYA | PINIES | GABRIEL | | |
| SUBIRA | RIOS | DAVID | R1 | Recognised Researcher |

## Publications

*Total Impact Factor:* ***16.5***

| | Nº | FI |
|---|---|---|
| Own publications | 13 | 11.3 |
| Joint publications | 2 | 5.1 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 3 | 7.4 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 12 | 9.0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **16** | **16.5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Subira-Rios, D; Herranz-Amo, F; Moralejo-Garate, M; Cano-Velasco, J; Renedo-Villar, T; Barbas-Bernardos, G; Bueno-Chomon, G; Rodriguez-Fernandez, E; Hernandez-Fernandez, C. Post-surgical complications in patients with bladder cancer treated with cystectomy: Differences between open and laparoscopic approach. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 228-233. FI: 0.873. Cuartil: 4. (Article).*
- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernandez, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 241-247. FI: 0.873. Cuartil: 4. (Article).*
- *Barbas Bernardos G; Herranz Amo F; Cano Velasco J; Cancho Gil MJ; Mayor de Castro J; Aragon Chamizo J; Polanco Pujol L; Hernandez Fernandez C. Influence of venous tumour extension on local and remote recurrence of stage pT3a pN0 cM0 kidney tumours. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 91-98. FI: 0.873. Cuartil: 4. (Article).*

- *Cano-Velasco J; Herranz-Amo F; Barbas-Bernardos G; Polanco-Pujol L; Hernandez-Cavieres J; Lledo-Garcia E; Hernandez-Fernandez C. Differences in overall survival and cancer-specific survival in high-risk prostate cancer patients according to the primary treatment. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 18-25. FI: 0.873. Cuartil: 4. (Article).*

- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernandez, CH. Effectiveness of the "cognitive" biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Barbas-Bernardos, G; Polanco-Pujol, L; Verdu-Tartajo, F; Lledo-Garcia, E; Hernandez-Fernandez, C. Oncological control in high-risk prostate cancer after radical prostatectomy and salvage radiotherapy compared to radiotherapy plus primary hormone therapy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(4) 190-197. FI: 0.873. Cuartil: 4. (Article).*

- *Subira-Rios D; Herranz-Amo F; Moralejo-Garate M; Cano-Velasco J; Renedo-Villar T; Barbas-Bernardos G; Bueno-Chomon G; Rodriguez-Fernandez E; Hernandez-Fernandez C. Influence of the laparoscopic approach on cancer-specific mortality of patients with stage pt3-4 bladder cancer treated with cystectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 77-83. FI: 0.873. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Barbas-Bernardos, G; Polanco-Pujol, L; Lledo-Garcia, E; Hernandez-Fernandez, C. Incidence of second tumours in high risk prostate cancer patients according to the primary treatment applied. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(6) 305-313. FI: 0.873. Cuartil: 4. (Article).*

- *Subira-Rios, D; Herranz-Amo, F; Renedo-Villar, T; Moralejo-Garate, M; del Pozo-Jimenez, G; Bueno-Chomon, G; Rodriguez-Fernandez, E; Moncada-Iribarren, I; Hernandez-Fernandez, C. Influence of laparoscopic access in cancer-specific mortality of patients with pTa-2pN0R0 bladder cancer treated with radical cistectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 71-76. FI: 0.873. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Pujol, LP; Barbas-Bernardos, G; Morelejo-Garate, M; Subira-Rios, D; Hernandez-Fernandez, C. Port site and peritoneal metastasis following laparoscopic radical prostatectomy and salvage radiotherapy for prostate adenocarcinoma. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(9) 974-977. FI: 0.395. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Peligros-Gomez, I; Barbas-Bernardos, G; Sola-Vendrell, E; Hernandez-Fernandez, C. Mucin-producing urothelial type prostatic adenocarcinoma with signet ring cells and increased Ca 19.9 and CEA. Case report and literature review. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(7) 647-652. FI: 0.395. Cuartil: 4. (Review).*

- *Pujol, LP; Garcia, EL; Velasco, JC; Garcia, FJG; Rascon, JJ; Fernandez, CH. Prostate cryotherapy: General principles. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(8) 816-824. FI: 0.395. Cuartil: 4. (Article).*

- *Gonzalez, J; Angulo-Morales, FJ; Lledo-Garcia, E. Vascular Injury During Urologic Surgery: Somebody Call My Mother. CURRENT UROLOGY REPORTS. 2019; 20(1) -. FI: 2.307. Cuartil: 2. (Article).*

- *Krishnappa, P; Fernandez-Pascual, E; Carballido, J; Moncada, I; Lledo-Garcia, E; Martinez-Salamanca, JI. Surgical Management of Peyronie's Disease With Co-Existent Erectile Dysfunction. SEXUAL MEDICINE. 2019; 7(4) 361-370. FI: 1.923. Cuartil: 2. (Review).*

- *Angulo, JC; Arance, I; Ojea, A; Carballo, M; Rodriguez, A; Pereira, J; Rebassa, M; Teyrouz, A; Escribano, G; Teba, F; Madurga, B; Martins, FE; Cruz, F. Patient satisfaction with adjustable transobturator male system in the Iberian multicenter study. WORLD JOURNAL OF UROLOGY. 2019; 37(10) 2189-2197. FI: 3.217. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Hevia V; Hassan Zakri R; Fraser Taylor C; Bruins HM; Boissier R; Lledo E; Regele H; Budde K; Figueiredo A; Breda A; Yuan CY; Olsburgh J. Effectiveness and Harms of Using Kidneys with Small Renal Tumors from Deceased or Living Donors as a Source of Renal Transplantation: A Systematic Review. EUROPEAN UROLOGY FOCUS. 2019; 5(3) 508-517. (Article).*

# 7.08 Pediatric endocrinology

Group Director**: Mª Dolores Rodríguez Arnao**
Organisms involved: **HGUGM**
**Associated Group**

## Research lines

L1: Pediatric endocrinology. Hypothyroidism
L2: Gene therapy: polymorphisms and mutations
L3: Hormone therapy

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| MONTERO | GARCIA | VIRGINIA | R1 | First Stage Researcherl |
| MORILLAS | CANTERO | ISABEL | R1 | First Stage Researcherl |
| RODRIGUEZ | ARNAO | MARIA DOLORES | R4 | Leading Researcher |
| RODRIGUEZ | SANCHEZ | AMPARO | R1 | First Stage Researcher |
| ROLDÁN | MARTÍN | BELÉN | R1 | First Stage Researcher |

## Publications

## Total Impact Factor 3.9

| | Nº | IF |
|---|---|---|
| Own publications | 2 | 3.9 |
| Joint publications | 0 | 0.0 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 0 | 0.0 |
| Third quartile publications | 2 | 3.9 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **2** | **3.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor***

- *Sanchez, AR; Guindulain, MJC; Merillas, MA; Segura, SA; Navarro, JCM; Arnao, MDR; Jaume, MC; Sancho, C; Bolado, GG; Calvo, MTM; Rodriguez, JMR; Molina, CT; Soc Espanola Endocrinologia Pediat. Diagnosis and follow-up of patients with congenital hypothyroidism detected by neonatal screening. ANALES DE PEDIATRIA. 2019; 90(4) -. FI: 1.313. Cuartil: 3. (Article).*
- *Arnao, MDR; Sanchez, AR; Lopez, ID; Fernandez, JR; de la Vega, JAB; Fernandez, DY; Guindulain, MC; Collado, RC; Sanchez, JP; Gonzalez, AF; ECOS Spain Study Collaborative Inv. Adherence and long-term outcomes of growth hormone therapy with easypod (TM) in pediatric subjects: Spanish ECOS study. ENDOCRINE CONNECTIONS. 2019; 8(9) 1240-1249. FI: 2.592. Cuartil: 3. (Article).*

# 7.10 Regeneration and biomaterials in musculoskeletal diseases

Group Director**: Francisco Javier Vaquero Martín**
Organisms involved: **HGUGM**
**UCM**
**Associated Group**

## Description of the research group

The group is composed mainly (although not exclusively) of specialists in Orthopedic Surgery and Traumatology from our and other national and foreign hospitals with the support of at least three universities in various projects (San Pablo CEU, Universidad Juan Carlos I, and ICAI, all of which are in Madrid). In some of the mentioned lines of research (below), work had already begun, thus confirming the group's viability and its role in promoting projects and doctoral theses.
There are currently 14 active members participating in some of these lines.

## Research lines

**Axis 1: Musculoskeletal transplant**
Line 1: Meniscus transplant. Leader: Prof. Vaquero.
Line 2: Allogenic meniscus implants.
**Axis 2: Mesenchymal stromal cells**
Line 1: MSC infusion in hip necrosis. Leaders: Prof. Vaquero/Dr. Laguna.
Line 2: Influence of mechanical factors on culture of MSC in the infrapatellar fat pad. Leader: Prof. Forriol.
**Axis 3: 3D printing**
Line 1: Tibial and femoral osteotomy with templates. Leader: Prof. Vaquero.
Line 2: 3D printing and navigation in tumor culture. Leaders: Dr. Calvo/ Dr. Pérez-Mañanes.
**Axis 4: Bone cement**
Line 1: Mechanical properties after the addition of antibiotics. Leader: Dr. Sanz.
Line 2: Microencapsulation of antibiotics. Leader: Dr. Carbó.
Line 3: Septic arthritis treated with antibiotic cement. Leader: Dr. Carbó.
**Axis 5: Cytokines and biomarkers in osteoarthrosis**
Line 1: Comparison of biomarkers in arthrosis and ACL breaks. Leader: Dr. Guisasola.

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ABURTO | BERNARDO | MIKEL | R1 | First Stage Researcher |
| ARNAL | BURRO | JUAN | | |
| CALVO | HARO | JOSE ANTONIO | R1 | First Stage Researcher |
| CARBO | LASO | ESTHER | R2 | Recognised Researcher |
| CHANA | RODRÍGUEZ | FRANCISCO | R2 | Recognised Researcher |
| CUERVAS | MONS | MANUEL | | |
| FORRIOL | CAMPOS | FRANCISCO | R2 | Recognised Researcher |
| LOPEZ | TORRES | IRENE ISABEL | | |
| MATAS | DIAZ | JOSE ANTONIO | R1 | First Stage Researcher |
| NARBONA | CARCELES | FRANCISCO JAVIER | R2 | Recognised Researcher |
| OTEO | ALVARO | ANGEL | R1 | First Stage Researcher |
| PÉREZ | MAÑANES | RUBÉN | R3 | Established Researcher |
| ROJO | MANAUTE | JOSÉ MANUEL | R2 | Recognised Researcher |
| SANZ | RUIZ | PABLO | R2 | Recognised Researcher |
| VAQUERO | MARTÍN | FRANCISCO JAVIER | R4 | Leading Researcher |

## Cooperative Research Structures

| Type (RETIC, CIBER, others.)) | Name of Network | Role |
|---|---|---|
| Plataformas ISCIII | Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS) | Coordinating group |
| CIBER | CIBERSAM. CIBER Salud Mental | Collaborating group |

## *Publications* *Total Impact Factor:* ***17.8***

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 7.4 |
| Joint publications | 3 | 10.4 |
| First decile publications | 0 | - |
| First quartile publications | 2 | 9.5 |
| Second quartile publications | 3 | 6.4 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 2 | 1.9 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **10** | **17.8** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Sobron, FB; Benjumea, A; Alonso, MB; Parra, G; Perez-Mananes, R; Vaquero, J. 3D Printing Surgical Guide for Talocalcaneal Coalition Resection: Technique Tip. FOOT & ANKLE INTERNATIONAL. 2019; 40(6) 727-732. FI: 2.292. Cuartil: 2. (Editorial Material).*
- *Cuervas-Mons, M; Sanchez-Perez, C; Arnal-Burro, J; Vaquero-Martin, J; Chana-Rodriguez, F. Ultrasound-guided supra-acetabular pelvic external fixator (US-SA FIX). INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2019; 50 24-29. FI: 2.106. Cuartil: 2. (Article).*
- *Bravo, B; Guisasola, MC; Vaquero J; Tirado, I; Gortazar, AR; Forriol, F. Gene expression, protein profiling, and chemotactic activity of infrapatellar fat pad mesenchymal stem cells in pathologies of the knee joint. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(10) 18917-18927. FI: 5.546. Cuartil: 1. (Article).*
- *Villanueva, M; Iborra, A; Ruiz, MD; Sanz-Ruiz, P. Proximal Ultrasound-Guided Gastrocnemius Recession: A New Ultra-Minimally Invasive Surgical Technique. JOURNAL OF FOOT & ANKLE SURGERY. 2019; 58(5) 870-876. FI: 1.043. Cuartil: 4. (Article).*
- *Sanz-Ruiz P; Matas-Diez JA; Carbo-Laso E; Perez-Mañanes R; Vaquero-Martín J. Patient-Specific Instrument Can Improve Functional and Radiographic Results during Learning Curve for Oxford Unicompartmental Knee Arthroplasty. JOURNAL OF KNEE SURGERY. 2019; 32(2) 180-185. FI: 1.986. Cuartil: 2. (Article).*
- *Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodriguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).*
- *Garcia-Mato, D; Ochandiano, S; Garcia-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; Garcia-Leal, R; Calvo-Haro, JA; Perez-Mananes, R; Salmeron, JI; Pascau, J. Craniosynostosis surgery: workflow based on virtual surgical planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Berberich, C; Sanz-Ruiz, P. Risk assessment of antibiotic resistance development by antibiotic-loaded bone cements: is it a clinical concern?. EFORT OPEN REVIEWS. 2019; 4(10) 576-584. (Article).*

***Other publications***

- *López-Torres II; Sanz-Ruíz P; León-Román VE; Navarro-García F; Priego-Sánchez R; Vaquero-Martín J. 3D printing in experimental orthopaedic surgery: do it yourself. EUROPEAN JOURNAL OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY. 2019; 29(5) 967-973. (Article).*
- *Sanz-Ruiz P; Matas-Diez JA; Calvo-Haro JA; Solans MC; Vaquero-Martin J. Biarticular total femoral spacer for complete bone loss in periprosthetic joint infection. A technical modification. REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2019; 63(3) 192-201. (Article).*

# 7.11 Iron metabolism disorders

Group Director: **Rosa Peraita Adrados**
Organisms involved: **HGUGM**
**Associated Group**

## Description of the research group

Multidisciplinary team, focused on the study of the physiopathology of iron, and its involvement in systemic pathology, with special interest in sleep pathology.
During 2019 the studies have been mainly related to Restless Legs Syndrome, and Narcolepsy.
Since 2014 we are developing a prospective study on iron physiopathology and Restless Legs Syndrome in blood donors.
In 2019 the clinical data collection was completed and the database was completed.

## Research lines

**Axis 1: Genotype**
L1: Hemochromatosis.
2: Hyperferritinemia.
L3: Hereditary hyperferritinemia cataract syndrome.
L4: Dysmetabolic iron overload syndrome
**Axis 2: Phenotype**
L1: Determination of hormones involved: hepcidin and erythroferrone
L2: Imaging-based diagnosis of iron overload
L3: Iron deficiency and inflammatory anemia
**Axis 3: Therapy**
L1: Deficiency: treatment with oral or intravenous iron
L2: Overload: phlebotomy and chelating agents orales y/o parenterales
L3: Hormonal modifiers: hepcidin agonists and antagonists
**Axis 4: Regional siderosis**
L1: Restless leg syndrome.
L2: Sleep disorders.
L3: Neurodegenerative diseases.
L4: Endocrine diseases.
L5: Heart diseases.

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CLAVERO | OLMOS | MARTA | R1 | First Stage Researcher |
| GARCÍA-ESPONA | PANCORBO | ALEJANDRO | R1 | First Stage Researcher |
| GUILLEN | MESADO | AMPARO | | |
| LILLO | TRIGUERO | LAURA | | |
| LOPEZ | APARICIO | ANA | R1 | First Stage Researcher |
| MATSKIV | | NADIYA | | |
| PERAITA | ADRADOS | ROSA | R4 | Leading Researcher |
| SANCHEZ | PABLO | MIGUEL ANGEL | | |

## Doctoral theses, Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Pablo Medrano Martínez** | Alteraciones neuropsicológicas en la narcolepsia con cataplejia estudio de casos y controles | María Rosa Peraita Adrados<br>MJ Ramos Platon | UCM | 22/03/2019 |

## *Publications* *Total Impact Factor:* ***3.5***

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 1.6 |
| Joint publications | 1 | 1.9 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 0 | 0.0 |
| Third quartile publications | 2 | 3.5 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **2** | **3.5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Garcia-Garcia, A; Demelo-Rodriguez, P; Ordieres-Ortega, L; Cervilla-Munoz, E; Garcia-Fernandez-Bravo, I; Pulfer, MD; Lopez-Aparicio, A; Galeano-Valle, F; del Toro-Cervera, J. Idiopathic versus Provoked Renal Infarction: Characteristics and Long-Term Follow-Up of a Cohort of Patients in a Tertiary Hospital. KIDNEY & BLOOD PRESSURE RESEARCH. 2019; 44(6) 1432-1440. FI: 1.898. Cuartil: 3. (Article).*
- *Lopez-Aparicio A; Pulfer D; Lillo-Triguero L. Hepato-cerebral hereditary hemochromatosis in a patient with restless legs syndrome. MEDICINA CLINICA. 2019; 153(6) 260-261. FI: 1.635. Cuartil: 3. (Letter)*

# 7.12 Emergency medicine

Group Director: **Javier Muñoz González**
Organisms involved: **HGUGM**
**Associated Group**

## Research lines

**Axis 1:** ECMO in adults with acute respiratory insufficiency.
**Axis 2:** Meta-analysis of care provided to patients with critical neurological conditions.
**Axis 3:** Analysis of the national minimum basic dataset in patients undergoing mechanical ventilation.
**Axis 4:** Analysis of the national minimum basic dataset in the ICU.
**Axis 5:** Antifungal therapy. New approaches.
**Axis 6:** Multimodality neuromonitoring in the ICU.
**Axis 7:** Humanization of intensive care.
**Axis 8:** Mechanical ventilation.
**Axis 9:** Infections and sepsis in the ICU.
**Axis 10:** Intestinal failure in the critically ill patient.
**Axis 11:** Inhalation sedation in the ICU.

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| DE LA CALLE | REVIRIEGO | BRAULIO | R1 | First Stage Researcher I |
| GARCIA | OLIVARES | PABLO | R1 | First Stage Researcher I |
| GUERRERO | SANZ | JOSE EUGENIO | R2 | Recognised Researcher |
| MUÑOZ | GONZALEZ | JAVIER | R4 | Leading Researcher |
| SÁNCHEZ | FERNÁNDEZ | GUIOMAR | | |
| SANTA TERESA | ZAMARRO | PATRICIA | R2 | Recognised Researcher |
| SOTILLO | DÍAZ | JUAN CARLOS | R2 | Recognised Researcher |
| TOMEY | SORIA | MARÍA JESÚS | R1 | First Stage Researcher |

## Publications

*Total Impact Factor:* ***7.3***

| | Nº | FI |
|---|---|---|
| Own publications | 0 | 0,0 |
| Joint publications | 1 | 7,3 |
| First decile publications | 1 | 7,3 |
| First quartile publications | 1 | 7,3 |
| Second quartile publications | 0 | 0,0 |
| Third quartile publications | 0 | 0,0 |
| Fourth quartile publications | 0 | 0,0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **1** | **7,3** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Martin-Delgado, MC; Martinez-Soba, F; Masnou, N; Perez-Villares, JM; Pont, T; Carretero, MJS; Velasco, J; De la Calle, B; Escudero, D; Estebanez, B; Coll, E; Perez-Blanco, A; Perojo, L; Urunuela, D; Dominguez-Gil, B. Summary of Spanish recommendations on intensive care to facilitate organ donation. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(6) 1782-1791. FI: 7.338. Cuartil: 1. (Article).*

# 7.16 Regenerative medicine and system development: cardiovascular and osteochondral

Group Director: **Begoña Quintana Villamandos**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

**Axis 1: Ventricular remodeling: natural history, pathophysiology, and treatment**
- Line 1: Immunohistopathology and ultrastructure in ventricular remodeling.
- Line 2: Pathophysiology of ventricular remodeling.
- Line 3: Serum biomarkers in heart disease.
- Line 4: New therapies in the regression of ventricular remodeling.

**Axis 2: Anesthesia in cardiovascular surgery**
- Line 1: Optimization of anesthesia in heart surgery.
- Line 2: Optimization of anesthesia in mechanical circulatory assist devices.
- Line 3: Optimization of anesthesia in vascular surgery.

**Axis 3: Vascular remodelling: natural history, pathophysiology, and treatment**
- Line 1: Fetal origin of cardiovascular disease and nutrition.
- Line 2: Antioxidant and antihypertensive action of liver growth factor.
- Line 3: Structure and function of vascular remodeling.
- Line 4: Serum biomarkers of vascular disease.
- Line 5: New therapies in the regression of vascular remodeling.

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ARNALICH | MONTIEL | ANA | R2 | Recognised Researcher |
| ARRIBAS | RODRIGUEZ | SILVIA MAGDALENA | R2 | Recognised Researcher |
| DELGADO | BAEZA | EMILIO | R3 | Recognised Researcher |
| DELGADO | MARTOS | MARIA JESUS | R2 | Recognised Researcher |
| FERNANDEZ | RIVEIRA | CARMEN | R2 | Recognised Researcher |
| GARCIA | DIAZ | JESUS | | |
| GÓMEZ | DE DIEGO | JOSÉ JUAN | R2 | Recognised Researcher |
| GONZALEZ | GARCIA | MARIA CARMEN | R2 | Recognised Researcher |
| IGLESIAS | DE LA VEGA | MARIO | R2 | Recognised Researcher |
| MARTOS | RODRÍGUEZ | ANTONIA | R1 | First Stage Researcher |
| MORILLAS | SENDÍN | PALOMA | R2 | Recognised Researcher |
| PAZÓ | SAYÓS | LAIA | R2 | Recognised Researcher |
| QUINTANA | VILLAMANDOS | MARIA BEGOÑA | R4 | Leading Researcher |

## Research Projects – Competitive Calls

TITLE: **SHORT-TERM Esmolol confers cardioprotection persistent after treatment withdrawal. Future therapeutic targets in cardiac remodeling.** PI16/02069
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

**Not managed by FIBHGM**

TITLE: **Aeroevacuación en un escenario real: nueva herramienta de aprendizaje en las futuras generaciones de estudiantes de medicina.** PIMCD-245

DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Innovation project
FUNDING BODY: UCM
START DATE: 09/01/2018
END DATE: 31/12/2020

TITLE: **Innovación en la docencia del grado de medicina: aerotransporte de pacientes con alto riesgo de contaminacion por enfermedad infecciosa en un escenario real.** PIMCD-333
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Innovation project
FUNDING BODY: UCM
START DATE: 01/01/2019
END DATE: 31/12/2021

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | **Irene Gonzalez Del Pozo** | Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardiaca | Maria Begoña Quintana Villamandos Juan Francisco Del Cañizo López | UCM | *18/09/2019* |

## *Industrial and intellectual property registrations*

### *Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Use of esmolol for early regresion of left ventricular hypertrophy** | EP10382141 (Familia con 2 patentes) | FIBHGM | Emilio Delgado<br>Begoña Quintana |
| **Dispositivo protector bucal con depresor lingual** | P 201531508 | FIBHGM | Guillermo Juan Rodríguez<br>Javier Casanova |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## *Publilications* *Total Impact Factor:* ***13.6***

| | Nº | FI |
|---|---|---|
| Own publications | 6 | 13.6 |
| Joint publications | 0 | 0.0 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 4 | 11.2 |
| Third quartile publications | 1 | 2.3 |
| Fourth quartile publications | 1 | 0.2 |

| | | |
|---|---|---|
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **7** | **13.6** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Quintana-Villamandos, B; Delgado-Martos, MJ; Delgado-Baeza, E. Impact of a Multichannel Blocker in Attenuating Intramyocardial Artery Remodeling in Hypertensive Rats through Increased Nitric Oxide Bioavailability. BIOMED RESEARCH INTERNATIONAL. 2019; 2019 -. FI: 2.276. Cuartil: 3. (Article).*
- *Quintana-Villamandos, B; Pazo-Sayos, L; Arribas, SM; Rodriguez-Rodriguez, P; Boger, RH; Luneburg, N; Delgado-Baeza, E; Gonzalez, MC. Dronedarone induces regression of coronary artery remodeling related to better global antioxidant status. HYPERTENSION RESEARCH. 2019; 42(10) 1485-1494. FI: 2.941. Cuartil: 2. (Article).*
- *Morillas-Sendin, P; del Canizo, JF; Ruiz, M; Delgado-Baeza, E; Quintana-Villamandos, B. Randomized comparison of sevoflurane versus propofol on organ blood flow after partial thoracic aortic cross-clamping. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. 2019; 12(1) 1226-1233. FI: 0.166. Cuartil: 4. (Article).*
- *Quintana-Villamandos, B; Delgado-Martos, MJ; Delgado-Baeza, E. Early reversal cardiac with esmolol in hypertensive rats: The role of subcellular organelle phenotype. PHARMACOLOGICAL REPORTS. 2019; 71(6) 1125-1132. FI: 2.754. Cuartil: 2. (Article).*
- *Quintana-Villamandos, B; Gonzalez, MD; Delgado-Martos, MJ; Gutierrez-Arzapalo, PY; Boger, RH; Luneburg, N; Munoz, D; Delgado-Baeza, E. The protective effect of dronedarone on the structure and mechanical properties of the aorta in hypertensive rats by decreasing the concentration of symmetric dimethylarginine (SDMA). PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*
- *Quintana-Villamandos, B; del Pozo, IG; Pazo-Sayos, L; Bellon, JM; Pedraz-Prieto, A; Pinto, AG; Delgado-Baeza, E. Plasma protein thiolation index (PTI) as a potential biomarker for left ventricular hypertrophy in humans. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Fernande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).*

# 7.18 Peritransplant evaluation of the liver

Group Director: **José María Pérez Peña**
Organisms involved: **HGUGM**
**Associated Group**

## Description of the research group

The members of the research group are part of the Anesthesiology and Recovery Department of Hospital Gregorio Marañón. Their care activity is aimed at the field of anesthesia and postoperative recovery in major abdominal surgery. Since 1990, when we started the liver transplant (LT) program in HGU Gregorio Marañón, we have formed part of the anesthesia team responsible for LT and have developed various research lines in this field and in major liver surgery in close collaboration with the Hepatology and Surgery Services.
During the last few years, we have been developing the following research lines:
1. Methods for the rapid diagnosis of early graft failure in LT.
One of the challenges of LT is that of early diagnosis of graft failure in order to review potential factors involved (especially arterial thrombosis, which can be addressed using surgery) in order to treat them before they become irreversible. One of the methods proposed is indocyanine green clearance, which involves elimination of a dye from vascular circulation exclusively via hepatic uptake and biliary clearance. Our group has developed a research line on the predictive ability of hepatic clearance of indocyanine green in liver graft failure, morbidity and mortality, and early lesions of the biliary tract after LT.
2. Use of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients undergoing LT.
Our group had previously studied the preoperative evaluation of cardiomyopathy in cirrhotic patients and its influence on intraoperative behavior during LT. We are currently investigating the utility of cardiac biomarkers (troponin and proBNP) and intraoperative monitoring of cardiac and pulmonary hemodynamic parameters during LT with respect to perioperative morbidity and mortality after transplant.
3. Influence of anesthetic agents in major liver surgery and LT.
The various anesthetics induce variations in hepatic blood flow, systemic and portal hemodynamics, and modulation of the inflammatory response during liver surgery and LT. Our group is using an experimental porcine model to evaluate the effects of the anesthetics used in clinical practice (sevoflurane and propofol) on liver hemodynamics and function after extensive resection.
4. Our group forms part of a multidisciplinary clinical and experimental research team composed of hepatologists, surgeons, pathologists, biochemists, and anesthesiologists from HGU Gregorio Marañón. In recent years, the team has been developing a research line in a porcine experimental model of the
pathophysiological mechanisms that affect in the development of acute liver failure after extensive resection and "small for size" syndrome, as well as the effects of normothermic perfusion on marginal donor liver graft recovery and liver regeneration.

## Research lines

L1: Evaluation of early function of the liver graft. Leaders: Dr Luis Olmedilla Arnal and Dr Jose Mª Perez Peña
L2: Usefulness of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients during liver transplant. Leader: Jose Mª Perez Peña

L3: Infl uence of anesthetic agents during major liver surgery. Leader: Dr Luis Olmedilla Arnal

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| DUQUE | GONZÁLEZ | PATRICIA | R2 | Recognised Researcher |
| JIMENEZ | DE LA FUENTE | CONSOLACIÓN | R1 | First Stage Researcher |
| LISBONA | SAEZ | CRISTINA JULIA | R2 | Recognised Researcher |
| OLMEDILLA | ARNAL | LUÍS ENRIQUE | R2 | Recognised Researcher |
| PEREZ | PEÑA | JOSÉ MARÍA | R4 | Leading Researcher |
| VILCHEZ | MONGE | ALMUDENA LUCIA | R1 | First Stage Researcher |
| DUQUE | GONZÁLEZ | PATRICIA | R2 | Recognised Researcher |

## Doctoral theses, Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Juan Laso Perez** | Comparación del efecto de profol o sevoflurano sobre la lesión histológica, respuesta inflamatoria y hemodinámica hepática en un modelo porcino de "Small for flow Sydrome" | Luís Enrique Olmedilla Arnal<br>José Manuel Asencio Pascual<br>Maria Cruz García Martín | UCM | 27/11/2019 |

## *Publications* *Total Impact Factor: 33.2*

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 1.4 |
| Joint publications | 8 | 31.8 |
| First decile publications | 2 | 19.2 |
| First quartile publications | 3 | 22.4 |
| Second quartile publications | 1 | 2.6 |
| Third quartile publications | 4 | 7.4 |
| Fourth quartile publications | 1 | 0.8 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **12** | **33.2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Motino O; Frances DE; Casanova N; Fuertes-Agudo M; Cucarella C; Flores JM; Vallejo-Cremades MT; Olmedilla L; Perez Pena J; Banares R; Bosca L; Casado M; Martin-Sanz P. Protective Role of Hepatocyte Cyclooxygenase-2 Expression Against Liver Ischemia-Reperfusion Injury in Mice. HEPATOLOGY. 2019; 70(2) 650-665. FI: 14.679. Cuartil: 1. (Article).*

- *Carraminana, A; Ferrando, C; Unzueta, MC; Navarro, R; Suarez-Sipmann, F; Tusman, G; Garutti, I; Soro, M; Pozo, N; Librero, J; Gallego, L; Ramasco, F; Rabanal, JM; Rodriguez, A; Sastre, J; Martinez, J; Coves, S; Garcia, P; Aguirre-Puig, P; Yepes, J; Lluch, A; Lopez-Herrera, D; Leal, S; Vives, M; Bellas, S; Socorro, T; Trespalacios, R; Salazar, CJ; Mugarra, A; Cinnella, G; Spadaro, S; Futier, E; Ferrer, L; Cabrera, M; Ribeiro, H; Celestino, C; Kucur, E; Cervantes, O; Morocho, D; Delphy, D; Ramos, C; Villar, J; Belda, J; Monedero, P; Martinez, S; Comino, O; Coy, A; Armengol, L; Pineiro, P; Cruz, P; Duque, P; de la Gala, FA; Sanchez, G; Olmedilla, L; de la Fuente, E; Erquicia, I; Reyes, A; Lopez, E; Palencia, M; Bunger, B; Ramos, R; Terradillos, E; Almaraz, C; Lujan, LM; Lopez, A; Femenia, F; Botella, S; Cimadevilla, B; Pascual, R; Pardo, S; Gonzalez, M; Lopez, C; Trabanco, S; Zaldibar, E; Barolome, MJ; Pereira, D; Otero, T; Blanco, L; Reparaz, JR; Ceresuela, R; Castellano, P; Martinez, P; Martinez, O; Franco, J; Hernandez, J; Pastor, O; Solera, J; Guerra, E; Dib, ZH; Farina, R; Cabrera, S; Arribas, MP; Sastre, JA; de Celis, I; Pascual, MJ; Garcia-Barberena, B; Arango, E; Amaya, O; Madrid, G; Triana, C; Pabon, S; Diaz, DP; Ortells, F; Perez, B; Aracil, R; Sanchez, R; Acosta, J; de la Matta, M; Gonzalez, D; Mirabella, L; Rauseo, M; Lamanna, A; Volta, CA; Ragazzi, R; Cachapuz, M; Correia, I; Parera, A; Argilaga, M; Azparren, G; Bausili, M; Almajano, R; Aragon, C; Colas, A; Cotera, I; Embun, R; Forcada, P; Garces, C; Gil, F; Gracia, A; Herrero, M; Izquierdo, B; Martinez, P; Munoz, N; Puertolas, M; Quesada, N; Recuero, JL; Royo, I; Romero, B; Rubio, B; Sandin, F; Sanjuan-Villarreal, TA; Valles-Torres, J; Cordoba, J; Pintor, J; Planas, A; Nieves, JM; Garcia, E; Vallejo, C; Santidrian, S; Rofso, P; Arocas, B; Gutierrez, A; Charco, P; Parra, MJ; Carbonell, JA; Jurado, A; Serralta, F; Sancho, L; Barcena, E; Lascorz, L; Belmonte, L; Cuervo, J; Florea, R; Martinez, S; Monleon, B; Perez, S; Garcia, L; Hurtado, L; Pardo, P; Segura, N; Utrera, E; Martin, B; Mellado, P; Arcas, JJ; Martinez, N; Maric, M; Munoz, LE; Gonzalez, RC; Busquets, J; Homs, M; Jimenez, A; Pintanel, T; Martinez, E; Moret, E; Sercakacilar, G; Diaz, M; Souteiro, JT; Benito, A; Cebrian, A; Mestres, G; Mohamed, MI; Yousef, SA; Osman, YM; Moreno, A; Tutillo, A; Pilco, H; Pena, A; Llano, M; Carrillo, E; Salazar, C; Dominguez, D; Espinosa, E; iPROVE-OLV Network. Rationale and Study Design for an Individualized Perioperative Open Lung Ventilatory Strategy in Patients on One-Lung Ventilation (iPROVE-OLV). JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA. 2019; 33(9) 2492-2502. FI: 2.258. Cuartil: 3. (Article).*

- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*

- *Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-*

*Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*

- *Diaz-Cambronero, O; Lorente, BF; Mazzinari, G; Montanes, MV; Gregorio, NG; Hernandez, DR; Arnal, LEO; Navarro, MPA; Schultz, MJ; Errando, CL; Pous, S; Ballester, C; Frasson, M; Garcia-Granero, A; Santacruz, CC; Garcia-Granero, E; Guillen, LS; Mari, AM; Rodrigo, DC; Gerez, JG; Rodriguez, RC; Sanz, MDM; Martin, MR; Ortuzar, JZ; Perez-Pena, JM; Estelles, MJA; Montero, BA; Jaen, SM; Verdeguer, S; Warle, M; Frau, DC; IPPColLapSe Study Grp. A multifaceted individualized pneumoperitoneum strategy for laparoscopic colorectal surgery: a multicenter observational feasibility study. SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES. 2019; 33(1) 252-260. FI: 3.149. Cuartil: 1. (Article).*

- *Duque, P; Garutti, I; Terradillos, E; Ledesma, B; Rancan, L; Simon, C; Vara, E. Modulation of CCL2 Expression by Laparoscopic Versus Open Surgery for Colorectal Cancer Surgery. SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES. 2019; 29(2) 101-108. FI: 1.382. Cuartil: 3. (Article).*

- *Lozano, P; Orue-Echebarria, MI; Asencio, JM; Sharma, H; Lisbona, CJ; Olmedilla, L; Pena, JMP; Salcedo, MM; Skaro, A; Velasco, E; Colon, A; Diaz-Zorita, B; Rodriguez, L; Ferreiroa, J; Lopez-Baena, JA. Donor Risk Index Has an Impact in Intraoperative Measure of Hepatic Artery Flow and in Clearance of Indocyanine Green: An Observational Cohort Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(1) 50-55. FI: 0.784. Cuartil: 4. (Article).*

- *Diaz-Cambronero, O; Mazzinari, G; Errando, CL; Schultz, MJ; Lorente, BF; Garcia-Gregorio, N; Montanes, MV; Arnal, LEO; Martin-De-Pablos, A; Mari, AM; Navarro, MPA; Alberola-Estelles, MJ; Ayas-Montero, B; Matoses-Jaen, S; Verdeguer, S; Inigo, JMA; Domenech, JB; Velez, ME; Cuesta-Frau, D; Pous, S; Ballester, C; Frasson, M; Garcia-Granero, A; Cerdan-Santacruz, C; Garcia-Granero, E; Sanchez-Guillen, L; Robles-Hernandez, D; Boquera-Albert, D; Casado-Rodrigo, D; Cosa-Rodriguez, R; Oimedilla-Amai, LE; Rodriguez-Martin, M; Zorrilla-Ortuzar, J; Perez-Pena, JM; Martin-de-Pablos, A; Valdes-Hernandez, J; Gomez-Rosado, JC; Heredia-Perez, P; Cintas-Catena, J; Flor-Parra, F; Schultz, MJ; Oyonarte, CLE; IPPCollapse-II Study Grp. An individualised versus a conventional pneumoperitoneum pressure strategy during colorectal laparoscopic surgery: rationale and study protocol for a multicentre randomised clinical study. TRIALS. 2019; 20 -. FI: 1.883. Cuartil: 3. (Article).*

- *De la Gala, F; Pineiro, P; Reyes, A; Simon, C; Vara, E; Rancan, L; Huerta, LJ; Gonzalez, G; Benito, C; Munoz, M; Grande, P; Paredes, SD; Aznar, PT; Perez, A; Martinez, D; Higuero, F; Sanz, D; De Miguel, JP; Cruz, P; Olmedilla, L; Gil, EL; Duque, P; Sanchez-Pedrosa, G; Valle, M; Garutti, I. Effect of intraoperative paravertebral or intravenous lidocaine versus control during lung resection surgery on postoperative complications: A randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Duque, P; Quintilla, JM; Varela, JA; Garrido, P; Valencia, O; Maestre, JM. Emotional response to a high-fidelity trauma simulation: An observational study. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 521-527. (Article).*

- *Colomina, MJ; Olmedilla, L; Villanueva, MA; Bisbe, E; Grp MAPBM. Assessment of the knowledge level of the professional as regards Patient Blood Management in their organisation. Results of the MAPBM project survey. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(6) 315-323. (Article).*

- *Lominchar, PL; Orue-Echebarria, MI; Martin, L; Lisbona, CJ; Salcedo, MM; Olmedilla, L; Sharma, H; Asencio, JM; Lopez-Baena, JA. Hepatic flow is an intraoperative predictor of early allograft dysfunction in whole-graft deceased donor liver transplantation: An observational cohort study. WORLD JOURNAL OF HEPATOLOGY. 2019; 11(9) 689-700. (Article).*

# 7.19 Perianesthesia assessment

Group Director: **Mª Carmen Fernández Riveira**
Organisms involved: **HGUGM**
**Associated Group**

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| DEL CASTILLO | | TERESA | R1 | First Stage Researcher |
| DIAZ | RUANO | SUSANA | R1 | First Stage Researcher |
| FERNANDEZ | FERNANDEZ | ALEJANDRO | R1 | First Stage Researcher |
| FERNANDEZ | RIVEIRA | Mª CARMEN | R4 | Leading Researcher |
| MEMBRILLO | RUBALCABA | MARIA JOSE | R1 | First Stage Researcher |
| MIGUEL | GUIJARRO | Mª ANGELES | R1 | First Stage Researcher |
| OROZCO | GALEANO | HUGO DAVID | R1 | First Stage Researcher |
| PALENCIA | JORGE | MARIA | R1 | First Stage Researcher |
| REYES | OSORIO | IFDEL EDUARDO | R1 | First Stage Researcher |
| RIAÑO | MENDEZ | BIBIANA | R1 | First Stage Researcher |
| SAN JUAN | LÓPEZ | ERIKA | R1 | First Stage Researcher |
| SANZ | FERNANADEZ | JAVIER | R2 | Recognised Researcher |
| TORRE | OÑATE | Mª TERESA | R1 | First Stage Researcher |
| VALERA | CABO | JESUS ALBERTO | R1 | First Stage Researcher |

## Publications

Total Impact Factor: **4.8**

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 3.0 |
| Joint publications | 1 | 1.8 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 1 | 3.0 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 1 | 1.8 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **3** | **4.8** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *de Lorenzo-Pinto, A; Ortega-Navarro, C; Ribed, A; Gimenez-Manzorro, A; Ibanez-Garcia, S; de Miguel-Guijarro, A; Ginel-Feito, MD; Herranz, A; Sanjurjo-Saez, M. Cancellations of elective surgical procedures due to inadequate management of chronic medications. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2019; 44(4) 561-564. FI: 1.833. Cuartil: 4. (Article).*
- *Diaz-Ruano, S; Lopez-Perez, AE; Giron, R; Perez-Garcia, I; Martin-Fontelles, MI; Abalo, R. Fluoroscopic Characterization of Colonic Dysmotility Associated to Opioid and Cannabinoid Agonists in Conscious Rats. JOURNAL OF NEUROGASTROENTEROLOGY AND MOTILITY. 2019; 25(2) 300-. FI: 3.008. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Duque, P; Quintilla, JM; Varela, JA; Garrido, P; Valencia, O; Maestre, JM. Emotional response to a high-fidelity trauma simulation: An observational study. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 521-527. (Article).*

# 7.20 Anesthesia, toxins, and arrhythmias

Group Director: **Matilde Zeballos García**
Organisms involved: **HGUGM**
**Associated Group**

## Research lines

**Axis 1: Anesthetic agents and cardiac electrophysiology**

L1: Study of anesthetic agents in the electrical properties of the heart. Leader: Matilde Zaballos.
L2: Study of the cardiac toxicity of local anesthetics and reversion with antidotes. Leader: Matilde Zaballos.
L3. Study of the pharmacokinetics of local anesthetics in peripheral block in animal models and electrophysiological effects

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ALMENDRAL | GARROTE | JESUS | R3 | Established Researcher |
| ANADON | BASELGA | MARIA JOSE | R2 | Recognised Researcher |
| CALLEJO | CRESPO | DAVID | R1 | First Stage Researcher |
| QUINTELA | JORGE | OSCAR | R1 | First Stage Researcher |
| SEVILLA | BAYÓN | RAÚL | R2 | Recognised Researcher |
| VARELA | GARCÍA | OLALLA | R1 | First Stage Researcher I |
| ZABALLOS | GARCIA | MATILDE | R4 | Leading Researcher |

## Research Projects – Competitive Calls

TITLE: **Evaluación de la eficacia de dos antídotos: bicarbonato sódico versus intralipid en un modelo porcino de farmacotoxicidad cardiaca por ropivacaína. Análisis del impacto en los parámetros hemodinámicos, electroctrocardiográficos, electrofisiológicos y de las arritmias**. PI15/00695
DIRECTOR: ZABALLOS GARCÍA, MATILDE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

## Publications

*Total Impact Factor:* ***16.2***

| | Nº | FI |
|---|---|---|
| Own publications | 4 | 13.7 |
| Joint publications | 1 | 2.5 |
| First decile publications | 0 | - |
| First quartile publications | 2 | 10.0 |
| Second quartile publications | 1 | 1.4 |
| Third quartile publications | 2 | 4.8 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **6** | **16.2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Zaballos, M; Zaballos, J; Lopez, S; Fernandez-Diez, AI; Lluch-Oltra, A; Mexedo, C; Lopez, A. The LMA((R)) Protector(TM) in anaesthetised, non-paralysed patients: a multicentre prospective observational study. ANAESTHESIA. 2019; 74(3) 333-339. FI: 5.739. Cuartil: 1. (Article).*
- *Zaballos, M; Callejo, D; Sevilla, R; Quintela, O; Lopez-Menchaca, R; Melone, A; Varela, O; Anadón Baselga MJ; Almendral, J. Comparative Effects of Sodium Bicarbonate and Intravenous Lipid Emulsions on Reversing Bupivacaine-Induced Electrophysiological Toxicity in a Porcine Experimental Model. ANESTHESIA AND ANALGESIA. 2019; 129(1) 63-72. FI: 4.305. Cuartil: 1. (Article).*
- *De Diego C; Zaballos M; Quintela O; Sevilla R; Callejo D; González-Panizo J; Anadón MJ; Almendral J. Bupivacaine Toxicity Increases Transmural Dispersion of Repolarization, Developing of a Brugada-like Pattern and Ventricular Arrhythmias, Which is Reversed by Lipid Emulsion Administration. Study in an Experimental Porcine Model. CARDIOVASCULAR TOXICOLOGY. 2019; 19(5) 432-440. FI: 2.284. Cuartil: 3. (Article).*
- *Espinosa A; Ripolles-Melchor J; Brugada R; Campuzano O; Sarquella-Brugada G; Abad-Motos A; Zaballos-Garcia M; Abad-Torrent A; Prieto-Gundin A; Brugada J. Brugada Syndrome: anesthetic considerations and management algorithm. MINERVA ANESTESIOLOGICA. 2019; 85(2) 173-188. FI: 2.498. Cuartil: 3. (Review).*
- *Zaballos, M; Del Blanco, B; Sevilla, R; De Diego, C; Anadon, MJ; Jimeno, C; Almendral, J. Differential effects of sevoflurane and propofol on swine cardiac conduction system. VETERINARY ANAESTHESIA AND ANALGESIA. 2019; 46(3) 344-351. FI: 1.368. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Aviles-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).*

# 7.21 Biopathology of aging

Group Director: **José Antonio Serra Rexach**
Organisms involved: **HGUGM**
**Consolidated Group**

## Description of the research group

Our group develops its research activity in the clinical field with a clear vocation for translational research. The group is currently made up of three main clinical researchers (Vidán, Ortiz, Serra) capable of successfully participating in competitive calls for projects and human resources.
Our research field covers a wide range of pathology related to ageing, especially linked to fragility: cardiovascular pathology, hip fracture, physical activity, etc. In addition, we have designed interventions to improve the prognosis in hospitalized elderly people (prevention of functional impairment and confusional conditions). Likewise, we have valued the usefulness of ICTs in the care of the elderly. Our most relevant contributions have contributed to modify the clinical practice in such important pathologies as the management of the acute confusional picture or the hip fracture.
Recently we have participated in the design of an Integrated Project of Excellence "Athero-Brain: Heart to Head (H2H) Study", finally funded, in which our group (Dr. Vidán) participates together with the National Center of Cardiovascular Research and the Cardiology Service of the Hospital 12 de Octubre in Madrid.
This solid background has contributed to our group being included as one of the 20 recently created CIBER groups on "fragility and aging" (CIBERFES) that has started in 2017

## Research lines

**Axis 1: Frailty and cardiovascular disease**
**Axis 2: Frailty and cognition**
**Axis 3: Frailty and hip fracture**
**Axis 4: Physical exercise to prevent disability during hospitalization**
**Axis 5: Use of communication and information technologies (CIT) to help frailty patients with disability**

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| MAYORDOMO | CAVA | JENNIFER | R2 | Recognised Researcher |
| MONTERO | FERNANDEZ | NURIA | R1 | First Stage Researcher |
| ORTIZ | ALONSO | JAVIER | R3 | Established Researcher |
| SERRA | REXACH | JOSÉ ANTONIO | R4 | Leading Researcher |
| VIDAN | ASTIZ | MARÍA TERESA | R3 | Established Researcher |
| ZARRALANGA | LASOBRAS | TERESA | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

TITLE: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

## Cooperative Research Structures

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | CIBERFES. Fragilidad y envejecimiento saludable | Collaborating group |

## Publications

*Total Impact Factor:* ***54.0***

| | Nº | FI |
|---|---|---|
| Own publications | 1 | 11.6 |
| Joint publications | 11 | 42.4 |
| First decile publications | 4 | 28.2 |
| First quartile publications | 7 | 39.3 |
| Second quartile publications | 3 | 10.2 |
| Third quartile publications | 2 | 4.5 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **14** | **54.0** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Gual, M; Formiga, F; Ariza-Sole, A; Lopez-Palop, R; Sanchis, J; Marin, F; Vidan, MT; Martinez-Selles, M; Sionis, A; Sanchez-Salado, JC; Lorente, V; Diez-Villanueva, P; Vives-Borras, M; Cordero, A; Bueno, H; Alegre, O; Abu-Assi, E; Cequier, A; LONGEVO-SCA Registry Investigators. Diabetes mellitus, frailty and prognosis in very elderly patients with acute coronary syndromes. AGING CLINICAL AND EXPERIMENTAL RESEARCH. 2019; 31(11) 1635-1643. FI: 2.697. Cuartil: 3. (Article).*

- *Rossello, X; Miro, O; Llorens, P; Jacob, J; Herrero-Puente, P; Gil, V; Rizzi, MA; Perez-Dura, MJ; Espiga, FR; Romero, R; Sevillano, JA; Vidan, MT; Bueno, H; Pocock, SJ; Martin-Sanchez, FJ; Fuentes, M; Gil, C; Alonso, H; Garmila, P; Adrada, ER; Garcia, GL; Yanez-Palma, MC; Lopez, SI; Escoda, R; Xipell, C; Sanchez, C; Gaytan, JM; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Morales, JE; Mas, SM; Alonso, MI; Ruiz, F; Franco, JM; Diaz, E; Mecina, AB; Tost, J; Sanchez, S; Carbajosa, V; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Richard, F; Perez, JMA; Diez, MPL; Alvarez, JV; Morilla, AA; Irimia, A; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Ramos, S; Lopez, A; Andueza, JA; Sevillano, JA; Calvache, R; Lorca, MT; Calderon, L; Arriaga, BA; Sierra, B; Mojarro, EM; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Garcia, AB; Padial, SED; Ferrer, ES; Garrido, M; Lucas, FJ; Gaya, R; ICA-SEMES Res Grp. Effect of Barthel Index on the Risk of Thirty-Day Mortality in Patients With Acute Heart Failure Attending the Emergency Department: A Cohort Study of Nine Thousand Ninety-Eight Patients From the Epidemiology of Acute Heart Failure in Emergency Department. ANNALS OF EMERGENCY MEDICINE. 2019; 73(6) 589-598. FI: 5.799. Cuartil: 1. (Article).*

- *Vicent, L; Ariza-Sole, A; Diez-Villanueva, P; Alegre, O; Sanchis, J; Lopez-Palop, R; Formiga, F; Gonzalez-Salvado, V; Bueno, H; Marin, F; Llibre, C; Llao, I; Vidan, MT; Abu-Assi, E; Aboal, J; Martinez-Selles, M. Statin Treatment and Prognosis of Elderly Patients Discharged after Non-ST Segment Elevation Acute Coronary Syndrome. CARDIOLOGY. 2019; 143(1-2) 14-21. FI: 1.791. Cuartil: 3. (Article).*

- *Valenzuela, PL; Castillo-Garcia, A; Morales, JS; Izquierdo, M; Serra-Rexach, JA; Santos-Lozano, A; Lucia, A. Physical Exercise in the Oldest Old. COMPREHENSIVE PHYSIOLOGY. 2019; 9(4) 1281-1304. FI: 6.604. Cuartil: 1. (Article).*

- *Martin-Sanchez, FJ; Garcia, GL; Llorens, P; Jacob, J; Herrero, P; Gil, V; Pastor, AJ; Lopez-Picado, A; Ferrer, MF; Rossello, X; Gil, P; Villanueva, PD; Calvo, E; Bailon, MM; Cuesta-Triana, F; Armengol, JJG; del Castillo, JG; Runtkle, I; Vidan, MT; Comin-Colet, J; Jentoft, AC; Bueno, H; Miro, O; Perez, CF. Planning to reduce 30-day adverse events after discharge of frail elderly patients with acute heart failure: design and rationale for the DEED FRAIL-AHF trial. EMERGENCIAS. 2019; 31(1) 27-35. FI: 3.173. Cuartil: 1. (Article).*

- *Vicent, L; Ariza-Sole, A; Alegre, O; Sanchis, J; Lopez-Palop, R; Formiga, F; Gonzalez-Salvados, V; Bueno, H; Vidan, MT; Diez-Villanueva, P; Abu-assi, E; Martinez-Selles, M. Octogenarian women with acute coronary syndrome present frailty and readmissions more frequently than men. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(3) 252-263. FI: 3.813. Cuartil: 2. (Article).*

- *Vidan, MT; Sanchez, FJM; Sanchez, E; Ortiz, FJ; Serra-Rexach, JA; Martinez-Selles, M; Bueno, H. Most elderly patients hospitalized for heart failure lack the abilities needed to perform the tasks required for self-care: impact on outcomes. EUROPEAN JOURNAL OF HEART FAILURE. 2019; 21(11) 1434-1442. FI: 11.627. Cuartil: 1. (Article).*

- *Martin-Sanchez, FJ; Triana, FC; Bossello, X; Garcia, RP; Garcia, GL; Caimari, F; Vidan, MT; Artacho, PR; del Castillo, JG; Llorens, P; Herrero, P; Jacob, J; Gil, V; Perez, CF; Gil, P; Bueno, H; Miro, O; Martin, PM; Adrada, ER; Santos, MC; Salgado, L; Brizzi, BN; Docavo, ML; Suarez-Cadenas, MD; Xipell, C; Sanchez, C; Aguilo, S; Gaytan, JM; Jerez, A; Perez-Dura, MJ; Gil, PB; Lopez-Grima, ML; Valero, A; Aguirre, A; Pedragosa, MA; Pinera, P; LazaroAragues, P; Nicolas, JAS; Rizzi, MA; Mateo, SH; Alquezar, A; Roset, A; Ferrer, C; Llopis, F; Perez, JMA; Diez, MPL; Richard, F; Fernandez-Canadas, JM; Carratala, JM; Javaloyes, P; Andueza, JA; Fernandez, JAS; Romero, R; Loranca, MM; Rodriguez, VA; Lorca, MT; Calderon, L; Ferrer, ES; Garrido, JM; Mojarro, EM; OAK Register Investigators. Effect of risk of malnutrition on 30-day mortality among older patients with acute heart failure in Emergency Departments. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 65 69-77. FI: 4.329. Cuartil: 1. (Article).*

- *Vives-Borras, M; Martinez-Selles, M; Ariza-Sole, A; Vidan, MT; Formiga, F; Bueno, H; Sanchis, J; Alegre, O; Duran-Cambra, A; Lopez-Palop, R; Abu-Assi, E; Sionis, A; LONGEVO-SCA Investigators. Clinical and prognostic implications of delirium in elderly patients with non-ST-segment elevation acute coronary syndromes. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(2) 121-128. FI: 2.491. Cuartil: 2. (Article).*

- *Diez-Villanueva, P; Vera, A; Ariza-Sole, A; Alegre, O; Formiga, F; Lopez-Palop, R; Marin, F; Vidan, MT; Martinez-Selles, M; Salamanca, J; Sionis, A; Garcia-Pardo, H; Bueno, H; Sanchis, J; Abu-Assi, E; Gonzalez-Salvado, V; Llao, I; Alfonso, F; LONGEVO-SCA Registry Investigators. Mitral Regurgitation and Prognosis After Non-ST-Segment Elevation Myocardial Infarction in Very Old Patients. JOURNAL OF THE AMERICAN GERIATRICS SOCIETY. 2019; 67(8) 1641-1648. FI: 4.18. Cuartil: 1. (Article).*

- *Malafarina, V; Rexach, JAS; Masanes, F; Cruz-Jentoft, AJ. Effects of high-protein, high-calorie oral nutritional supplementation in malnourished older people in nursing homes: An observational, multi-center, prospective study (PROT-e-GER). Protocol and baseline population characteristics. MATURITAS. 2019; 126 73-79. FI: 3.63. Cuartil: 1. (Article).*

- *Ojeda-Thies, C; Saez-Lopez, P; Currie, CT; Tarazona-Santalbina, FJ; Alarcon, T; Munoz-Pascual, A; Pareja, T; Gomez-Campelo, P; Montero-Fernandez, N; Mora-Fernandez, J; Larrainzar-Garijo, R; Gil-Garay, E; Etxebarria-Foronda, I; Caeiro, JR; Diez-Perez, A; Prieto-Alhambra, D; Navarro-Castellanos, L; Otero-Puime, A; Gonzalez-Montalvo, JI; Participants RNFC. Spanish National Hip Fracture Registry (RNFC): analysis of its first annual report and international comparison with other established registries. OSTEOPOROSIS INTERNATIONAL. 2019; 30(6) 1243-1254. FI: 3.864. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Vasquez, J; Romero, V; Vilas, P; Serra-Rexach, JA; Vidan, MT. Progressive edemas and generalized telangiectasia: A presentation of Intravascular B-cell Lymphoma. CLINICAL CASE REPORTS. 2019; 7(12) 2429-2432. (Article).*

***Other publications***

- *Gonzalez Chavez SA; Romero Estarlich V; Munoz Yepez S; Ortiz Alonso FJ; Serra Rexach JA. Pileflebitis o trombosis septica portal persistente en paciente nonagenaria. REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2019; 54(1) 56-57. (Article).*

# 7.22 Neonatal and developmental physiology

Group Director: **Manuel Sánchez Luna**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

L1: Prevention and treatment of bronchopulmonary dysplasia
L2: Noninvasive respiratory support
L3: High-frequency oscillatory ventilation with very low volumes
L4: Noninvasive administration of pulmonary surfactants
L5: Neonatal neuroprotection
L6: Imaging in neonatology
L7: Development of an incubator for neonatal imaging with nonionizing radiation
L8: Neonatal nutrition and personalized neonatal nutrition

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ARRIAGA | REDONDO | MARÍA | R2 | Recognised Researcher |
| BERNARDO | ATIENZA | ANA BELÉN | R1 | First Stage Researcher |
| BLANCO | BRAVO | DOROTEA | R2 | Recognised Researcher |
| CABALLERO | MARTÍN | SYLVIA | R1 | First Stage Researcher |
| CHIMENTI | CAMACHO | PAZ | R1 | First Stage Researcher |
| FRANCO | FERNÁNDEZ | MARÍA LUISA | R1 | First Stage Researcher |
| GONZALEZ | PACHECO | NOELIA | R1 | First Stage Researcher |
| GREGORIO | HERNANDEZ | REBECA | | |
| MADERUELO | RODRÍGUEZ | ELENA | R1 | First Stage Researcher |
| MARSINYACH | ROS | MARÍA ITZIAR | R2 | Recognised Researcher |
| PEREZ | PEREZ | ALBA | R1 | First Stage Researcher |
| PESCADOR | CHAMORRO | MARIA ISABEL | R1 | First Stage Researcher |
| RAMOS | NAVARRO | MARIA CRISTINA | R1 | First Stage Researcher |
| RODRIGUEZ | SANCHEZ DE LA BLANCA | ANA | R1 | First Stage Researcher |
| SANCHEZ | LUNA | MANUEL | R4 | Leading Researcher |
| SÁNCHEZ | GÓMEZ DE ORGAZ | MARÍA DEL CARMEN | R1 | First Stage Researcher |
| SANZ | LÓPEZ | ESTHER | R1 | First Stage Researcher |
| VILLAR | CASTRO | SONIA | R1 | First Stage Researcher |
| ZAMORA | FLORES | ELENA | R1 | First Stage Researcher |
| ZEBALLOS | SARRATO | GONZALO | R1 | First Stage Researcher |
| ZEBALLOS | SARRATO | SUSANA ELENA | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

TITLE: **Ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** PI17/00838
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

## Cooperative Research Structures

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| CIBER | CIBERFES. Fragilidad y envejecimiento saludable | Collaborating group |
| ISCII Platform | Plataforma española de Ensayos clínicos (SCRen) | Collaborating group |

## Industrial and intellectual property registrations

*Industrial property*

| Title | Reference* | Owner | Inventors |
|---|---|---|---|
| **Incubadora para imagen con radiación no ionizante** | PCT/ES2007/070214 (Familia con 3 patentes) | FIBHGM | Juan José Vaquero, Manuel Desco, Manuel Sánchez-Luna |

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## Clinical Practice Guidelines

| Authors | Title | Journal / Reference |
|---|---|---|
| José Luis Leante Castellanos , Alejandro Pérez Muñuzuri , César W. Ruiz Campillo , Ester Sanz López , Isabel Benavente Fernández , María Dolores Sánchez Redondo , Segundo Rite Gracia, Manuel Sánchez Luna | **Recomendaciones para el cuidado del cordón umbilical en el recién nacido** | Anales de Pediatría |
| Manuel Sánchez Luna , Alejandro Pérez Muñuzuri , José Luis Leante Castellanos , César W. Ruiz Campillo , Ester Sanz López , Isabel Benavente Fernández , María Dolores Sánchez Redondo y Segundo Rite Gracia | **Recomendaciones de la Sociedad Española de Neonatología para la utilización de palivizumab como profilaxis de las infecciones graves por el virus respiratorio sincitial en lactantes de alto riesgo, actualización** | Anales de Pediatría |

## Publications

## Total Impact Factor: **18.2**

| | Nº | FI |
|---|---|---|
| Own publications | 6 | 8.6 |
| Joint publications | 4 | 9.7 |
| First decile publications | 1 | 3.7 |
| First quartile publications | 2 | 6.4 |
| Second quartile publications | 2 | 3.9 |
| Third quartile publications | 5 | 6.7 |
| Fourth quartile publications | 1 | 1.2 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **12** | **18.2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Sarrato, GZ; Luna, MS; Sarrato, SZ; Perez, AP; Chamorro, IP; Cano, JMB. New Strategies of Pulmonary Protection of Preterm Infants in the Delivery Room with the Respiratory Function Monitoring. AMERICAN JOURNAL OF PERINATOLOGY. 2019; 36(13) 1368-1376. FI: 1.474. Cuartil: 3. (Article).*
- *Castellanos, JLL; Munuzuri, AP; Campillo, CWR; Lopez, ES; Fernandez, IB; Redondo, MDS; Gracia, SR; Luna, MS. Recommendations for the care of the umbilical cord in the newborn. ANALES DE PEDIATRIA. 2019; 90(6) 408-409. FI: 1.313. Cuartil: 3. (Letter).*

- *Carmona, ML; Luna, RT; San Roman, LO; Ros, IM; Marchena, LN; Paredes, ABM; la Calle, MCV; Spanish Grp Study Pediat Pain. Positioning document of the Spanish Association of Paediatrics Group for the study of paediatric pain on the Registration of Pain as fifth vital sign. ANALES DE PEDIATRIA. 2019; 91(5) 348-350. FI: 1.313. Cuartil: 3. (Letter).*

- *Arteta, ELH; Rivero, PA; Ros, MIM; Dominguez, MC. Isolated skin lesions in a neonate: A caseof congenital Langerhans cell histiocytosis. ANALES DE PEDIATRIA. 2019; 90(6) -. FI: 1.313. Cuartil: 3. (Article).*

- *Luna, MS; Munuzuri, AP; Castellanos, JLL; Campillo, CWR; Lopez, ES; Fernandez, IB; Redondo, MDS; Gracia, SR; Soc Espanola Neonatologia. An update of the recommendations of the Spanish Neonatology Society for the use of palivizumab as prophylaxis for severe infections due to syncytial respiratory virus in high risk infants. ANALES DE PEDIATRIA. 2019; 91(1) -. FI: 1.313. Cuartil: 3. (Article).*

- *Benders, MJNL; Klebermass-Schrehof, K; Metsaranta, M; Rudiger, M; Poets, CF; Benders, M; Allegaert, K; Naulaers, G; Klebermass-Schrehof, K; Guimaraes, H; Stiris, T; Vanhatalo, S; Metsvaht, T; Engel, C; Maiwald, CA; von Oldershausen, G; Bergmann, I; Weiss, M; Wichera, CJBR; Eichhorn, A; Raubuch, M; Schuler, B; van Veldhuizen, CKW; Lameris, B; Jacobs, Y; van der Vlught-Meijer, R; Kliniken, T; Griesmaier, E; Salzburg, U; Brandner, J; Tackoen, M; Reibel, R; Cornette, L; Viellevoye, LR; Saik, P; Kaar, R; Andresson, P; Metsaranta, M; Franz, AR; Carus, CG; Winkler, S; Hoehn, T; Teig, N; Schroth, M; Fusch, C; Thome, UH; Ehrhardt, H; Cattarossi, L; Mauro, I; Baraldi, E; Carnielli, V; Paterlini, MG; Napolitano, M; Faldini, F; Lista, GL; Barbarini, M; Pagani, L; Anna, S; Mastretta, E; Vento, G; Fumagalli, MM; Binotti, NM; van Weissenbruch, MM; van Straaten, HLM; Annink, KV; van Bel, F; Dudink, J; Derks, JB; de Boer, IP; Meijssen, CB; de Haan, TR; van Rooij, LG; van Hillegersberg, JL; van Dongen, M; Dassel, ACM; Dijkman, KP; van Houten, MA; van der Schoor, SRD; Nestaas, E; Mazela, J; Karpinski, L; Vilan, AI; de Pinho, LF; Ferraz, C; Pereira, A; Barroso, R; da Graca, M; Tome, T; Pinto, F; Vento, M; Rodilla, JM; Luz, M; Pico, C; Camprubi, MC; Suazo, JAH; Valverde, E; Lorenzo, JRF; Orgado, JM; Boix, H; Parrilla, FJ; Blanco, D; Moral-Pumarega, MT; Bassler, D; Maletzki, J; Knoepfli, C; Hagmann, C; Kleber, M; Schulzke, S; Stocker, M; Birkenmaier, A; Riedel, T; ALBINO Study Grp. Effect of allopurinol in addition to hypothermia treatment in neonates for hypoxic-ischemic brain injury on neurocognitive outcome (ALBINO): study protocol of a blinded randomized placebo-controlled parallel group multicenter trial for superiority (phase. BMC PEDIATRICS. 2019; 19 -. FI: 1.909. Cuartil: 2. (Article).*

- *Lui, K; Lee, SK; Kusuda, S; Adams, M; Vento, M; Reichman, B; Darlow, BA; Lehtonen, L; Modi, N; Norman, M; Hakansson, S; Bassler, D; Rusconi, F; Lodha, A; Yang, JM; Shah, PS; Marshall, P; Schmidt, P; Dhawan, A; Craven, P; de Waal, K; Simmer, K; Gill, A; Pillow, J; Stack, J; Birch, P; Cooke, L; Casalaz, D; Holberton, J; Stewart, A; Downe, L; Stewart, M; Bajuk, B; Berry, A; Hunt, R; Kilburn, C; De Paoli, T; Bolisetty, S; Paradisis, M; Rieger, I; Koorts, P; Kuschel, C; Doyle, L; Numa, A; Carlisle, H; Badawi, N; Loughran-Fowlds, A; Koh, G; Davis, J; Luig, M; Andersen, C; Chambers, G; Austin, N; Lynn, A; Darlow, B; Edmonds, L; Mildenhall, L; Buksh, M; Battin, M; van den Boom, J; Bourchier, D; Richardson, V; Dineen, F; Rajadurai, VS; Lam, S; Fung, G; Harrison, A; Synnes, A; Cieslak, Z; Sherlock, R; Yee, W; Aziz, K; Fajardo, C; Kalapesi, Z; Sankaran, K; Daspal, S; Seshia, M; Alvaro, R; Mukerji, A; Da Silva, O; Nwaesei, C; Lee, KS; Dunn, M; Lemyre, B; Dow, K; Pelausa, E; Barrington, K; Drolet, C; Piedboeuf, B; Claveau, M; Beltempo, M; Bertelle, V; Masse, E; Canning, R; Makary, H; Ojah, C; Monterrosa, L; Deshpandey, A; Afifi, J; Kajetanowicz, A; Andersson, S; Tammela, O; Sankilampi, U; Saarela, T; Prazad, P; Noguchi, A; McWan, K; Button, B; Stratton, W; Hamvus, A; Raghaven, A; Derrick, M; Hadley, R; Covert, R; Lablanc, O; Weiss, M; Bell, A; Shareef, M; Silvestri, J; Heymann, E; Zangen, S; Smolkin, T; Mimouni, F; Bader, D; Rothschild, A; Strauss, Z; Felszer, C; Omari, H; Tov-Friedman, SE; Bar-Oz, B; Feldman, M; Saad, N; Flidel-Rimon, O; Weisbrod, M; Lubin, D; Litmanovitz, I; Kugelman, A; Shinwell, E; Klinger, G; Nijim, Y; Bin-Nun, A; Golan, A; Mandel, D; Fleisher-Sheffer, V; Kohelet, D; Bakhrakh, L; Hattori, S; Shirai, M; Ishioka, T; Mori, T; Amizuka, T; Huchimukai, T; Yoshida, H; Sasaki, A; Shimizu, J; Nakamura, T; Maruyama, M; Matsumoto, H; Hosokawa, S; Taki, A; Nakagawa, M; Ko, K; Uozumi, A; Nakata, S; Shimazaki, A; Yoda, T; Numata, O; Imamura, H; Kobayashi, A; Tokuriki, S; Uchida, Y; Arai, T; Ito, M; Ieda, K; Ono, T; Hayashi, M; Maki, K; Yamakawa, M; Kawai, M; Fujii, N; Shiomi, K; Nozaki, K; Wada, H; Kim, T; Tokunaga, Y; Takatera, A; Oshima, T; Sumida, H; Michinomae, Y; Kusumoto, Y; Yoshimoto, S; Morisawa, T; Ohashi, T; Takahashi, Y; Sugimoto, M; Ono, N; Miyagawa, S; Saijo, T; Yamagami, T; Koyano, K; Kobayashi, S; Kanda, T; Sakemi, Y; Aoki, M; Iida, K; Goshi, M; Maruyama, Y; Avila-Alvarez, A; Ting, J; Toye, J; Fernandez-Trisac, JL; Pico, MLC; Seara, MJF; Gutierrez, AM; Vizcaino, C; Iglesias, MS; Zaplana, HS; Colomer, BF; Lopez, JEG; Mozo, RG; Martinez, MTG; Sebastian, MDM; Carbonell, MB; Barnusell, JB; Puiggros, MD; Aloy, JF; Mussons, FB; Sanz, IA; Galiana, GG; Coroleu, W; Iriondo, M; Vilella, LC; Porta, R; Demestre, X; Nadal, SM; Martinez, CD; Cuesta, MJL; Mora, DE; Tardio, JO; Benavente, I; Alonso, A; Olmos, RA; Cabezas, MAG; Jimenez, MDM; Caballero, PJ; Diaz, MDO; Fagundo, AT; Canals, LM; Rodrigo, FGM; Marti, LU; Galdo, MFM; Suazo, JAH; Lopez, EN; Fernandez, JU; Altuna, MAC; Muga, O; Navarro, DM; Dominguez, MT; del Prado, MYR; Diez, IE; Benavides, MTP; Lapena, S; Prada, T; Mir, ES; Sanchez, AC; Vega, EC; del Prado, N; Fernandez, C; Vilaplana, LC; Perez, IC; Gomez, LL; Comeche, LD; Martin, IL; Armengod, CG; Labian, CM; Munoz, MJS; Bravo, DB; Perez, V; Fernandez, MDE; Gonzalez, CD; Segura, SA; Azorin, ML; Jimenez, AB; Sanchez-Tamayo, T; Moreno, ET; Gonzalez, M; Martinez, JES; Garcia, JML; Orayen, CG; Gonzalez, JV; Albo, MS; Colmenero, EG; Gonzalez, EPG; del Arco, BV; Fernandez, JM; Gordillo, LA; Asensio, MG; Diaz, CM; Albujar, R; Jorge, PF; Romero, S; Falero, MR; Izquierdo, ABE; Capell, JE; Vicente, MMM; Caballero, RI; Martinez, MM; Euba, A; Serna, AR; Goya, JMLD; Legorburu, AP; Amoros, AG; Isabel, VMM; Gonzalez, NH; Gracia, SR; Faci, PV; Villagrasa, MPS; Macian, MII; Kofron, J; Brodd, KS; Odlind, A; Alberg, L; Arwehed, S; Hafstrom, O; Kasemo, A; Nederman, K; Ahman, L; Ingemarsson, F; Petersson, H; Thurn, P; Albinsson, E; Selander, B; Abrahamsson, T; Heimdahl, I; Sveinsdottir, K; Wejryd, E; Hedlund, A; Soderberg, MK; Hallberg, B; Brune, T; Backstrom, J; Robinson, J; Farooqi, A; Normann, E; Fredriksson, M; Palm, A; Rosenqvist, U; Walde, B; Hagman, C; Ohlin, A; Florell, R; Smedsaas-Lofvenberg, A; Meyer, P; Anderegg, C; Schulzke, S; Nelle, M; Wagner, B; Riedel, T; Kaczala, G; Pfister, RE; Tolsa, JF; Roth, M; Stocker, M; Laubscher, B; Malzacher, A; Micallef, JP; Hegi, L; Arlettaz, R; Bernet, V; Fiorini, P; Boldrini, A; Tomasini, B; Kefas, J; Kamalanathan, A; Jayachandran; Yoxall, B; McBride, T; Webb, D; Garr, R; Hassan, A; Ambadkar, P; Dyke, M; McDevitt, K; Rewitzky, G; D'Amore, A; Panasa, N; Settle, P; Maddock, N; Edi-Osagie, N; Zipitis, C; Heal, C; Birch, J; Hasib, A; Soe, A; Kumar, N; Kisat, H; Vasu, V; Lama, M; Gupta, R; Rawlingson, C; Wickham, T; Theron, M; Kendall, G; Gupta, A; Aladangady, N; Ali, I; Alsford, L; Lopez, W; Murthy, V; Sullivan, C; Thomas, M; Bate, T; Godambe, S; Watts, T; Kuna, J; Chang, J; Pai, V;*

*Huddy, C; Yasin, S; Nicholl, R; Pandey, P; Cusack, J; Kairamkonda, V; Muogbo, D; Harry, L; Simmons, P; Nycyk, J; Gallagher, A; Pillay, T; Deshpande, S; Mahadevan; Moore, A; Clark, S; Garbash, M; Lal, M; Abu-Harb, M; Dani, C; Mittal, A; Allwood, A; Selter, M; Munyard, P; Bartle, D; Paul, S; Whincup, G; Mallik, A; Amess, P; Godden, C; Reynolds, P; Misra, I; De Halpert, P; Salgia, S; Sanghavi, R; Wigfield, R; Deketelaere, A; Khashu, M; Hall, M; Groves, C; Brown, N; Brennan, N; Vamvakiti, K; McIntyre, J; Pirie, S; Jones, S; Mannix, P; Cairns, P; Eaton, M; Schwarz, K; Gibson, D; Miall, L; Krishnamurthy; Int Network Evaluation Outcomes iN. Trends in Outcomes for Neonates Born Very Preterm and Very Low Birth Weight in 11 High-Income Countries. JOURNAL OF PEDIATRICS. 2019; 215 32-. FI: 3.7. Cuartil: 1. (Article).*

- *Gonzalez-Pacheco, N; Sanchez-Luna, M; Chimenti-Camacho, P; Santos-Gonzalez, M; Palau-Concejo, P; Tendillo-Cortijo, F. Use of very low tidal volumes during high-frequency ventilation reduces ventilator lung injury. JOURNAL OF PERINATOLOGY. 2019; 39(5) 730-736. FI: 1.967. Cuartil: 2. (Article).*

- *Nunez-Ramiro, A; Benavente-Fernandez, I; Valverde, E; Cordeiro, M; Blanco, D; Boix, H; Cabanas, F; Chaffanel, M; Fernandez-Colomer, B; Fernandez-Lorenzo, JR; Kuligowski, J; Loureiro, B; Moral-Pumarega, MT; Pavon, A; Sanchez-Illana, A; Tofe, I; Hervas, D; Garcia-Robles, A; Parra-Llorca, A; Cernada, M; Martinez-Rodilla, J; Lorente-Pozo, S; Llorens, R; Marques, R; Vento, M; Hypotop Study Grp. Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. NEONATOLOGY. 2019; 116(1) 76-84. FI: 2.742. Cuartil: 1. (Article).*

- *Arriaga-Redondo, M; Arnaez, J; Benavente-Fern?ndez, I; Lubi?n-L?pez, S; Hortig?ela, M; Vega-del-Val, C; Garcia-Alix, A. Lack of Variability in Cerebral Oximetry Tendency in Infants with Severe Hypoxic-Ischemic Encephalopathy Under Hypothermia. THERAPEUTIC HYPOTHERMIA AND TEMPERATURE MANAGEMENT. 2019; 9(4) 243-250. FI: 1.176. Cuartil: 4. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Aparicio, MV; Seidel, V; Clemente, MAO; Caballero, SM; Luna, MS. Mosaic trisomy 15 and prenatal genetic counselling: a case of Prader-Willi syndrome due to maternal uniparental disomy. CASE REPORTS IN PERINATAL MEDICINE. 2019; 8(1) -. (Article).*

- *Shah, PS; Lui, K; Reichman, B; Norman, M; Kusuda, S; Lehtonen, L; Adams, M; Vento, M; Darlow, BA; Modi, N; Rusconi, F; Hakansson, S; San Feliciano, L; Helenius, KK; Bassler, D; Hirano, S; Lee, SK; Marshall, P; Schmidt, P; Dhawan, A; Craven, P; de Waal, K; Simmer, K; Gill, A; Pillow, J; Stack, J; Birch, P; Cooke, L; Casalaz, D; Holberton, J; Stewart, A; Downe, L; Stewart, M; Bajuk, B; Berry, A; Hunt, R; Kilburn, C; De Paoli, T; Bolisetty, S; Paradisis, M; Rieger, I; Koorts, P; Kuschel, C; Numa, A; Carlisle, H; Badawi, N; Loughran-Fowlds, A; Koh, G; Davis, J; Luig, M; Andersen, C; Chambers, G; Austin, N; Lynn, A; Darlow, B; Edmonds, L; Mildenhall, L; Buksh, M; Battin, M; van den Boom, J; Bourchier, D; Richardson, V; Dineen, F; Rajadurai, VS; Fung, G; Harrison, A; Synnes, A; Ting, J; Cieslak, Z; Sherlock, R; Yee, W; Aziz, K; Toye, J; Fajardo, C; Kalapesi, Z; Sankaran, K; Daspal, S; Seshia, M; Alvaro, R; Mukerji, A; Da Silva, O; Nwaesei, C; Lee, KS; Dunn, M; Lemyre, B; Dow, K; Pelausa, E; Barrington, K; Drolet, C; Piedboeuf, B; Claveau, M; Beltempo, M; Bertelle, V; Masse, E; Canning, R; Mabry, H; Ojah, C; Monterrosa, L; Deshpandey, A; Afifi, J; Kajetanowicz, A; Andersson, S; Tammela, O; Sankilampi, U; Saarela, T; Prazad, P; Noguchi, A; McWan, K; Button, B; Stratton, W; Hamvus, A; Raghaven, A; Derrick, M; Hadley, R; Covert, R; Lablanc, O; Weiss, M; Bell, A; Shareef, M; Silvestri, J; Heymann, E; Zangen, S; Smolkin, T; Mimouni, F; Bader, D; Rothschild, A; Strauss, Z; Felszer, C; Oman, H; Toy-Friedman, SE; Bar-Oz, B; Feldman, M; Saad, N; Flidel-Rimon, O; Weisbrod, M; Lubin, D; Litmanovitz, I; Kngelman, A; Shinwell, E; Klinger, G; Nijim, Y; Bin-Nun, A; Golan, A; Mandel, D; Fleisher-Sheffer, V; Kohelet, D; Bakhrakh, L; Hattori, S; Shirai, M; Ishioka, T; Mori, T; Amiznka, T; Huchimukai, T; Yoshida, H; Sasaki, A; Shimizu, J; Nakamura, T; Maruyama, M; Matsumoto, H; Hosokawa, S; Taki, A; Nakagawa, M; Ko, K; Uozumi, A; Nakata, S; Shimazaki, A; Yoda, T; Numata, O; Imamura, H; Kobayashi, A; Tokuriki, S; Uchida, Y; Arai, T; Ito, M; Ieda, K; Ono, T; Hayashi, M; Maki, K; Yamakawa, M; Kawai, M; Fujii, N; Shiomi, K; Nozaki, K; Wada, H; Kim, T; Tokunaga, Y; Takatera, A; Oshima, T; Sumida, H; Michinomae, Y; Knsumoto, Y; Yoshimoto, S; Morisawa, T; Ohashi, T; Takahashi, Y; Sugimoto, M; Ono, N; Miyagawa, S; Saijo, T; Yamagami, T; Koyano, K; Kobayashi, S; Kanda, T; Sakemi, Y; Aoki, M; Iida, K; Goshi, M; Maruyama, Y; Avila-Alvarez, A; Fernandez-Trisac, JL; Pico, MLC; Seara, MJF; Gutierrez, AM; Vizcaino, C; Iglesias, MS; Zaplana, HS; Colomer, BF; Lopez, JEG; Mozo, RG; Martinez, MTG; Sebastian, MDM; Carbonell, MB; Bamnsell, JB; Puiggros, MD; Aloy, JF; Mussons, FB; Sanz, IA; Galiana, GG; Coroleu, W; Iriondo, M; Vilella, LC; Porta, R; Demestre, X; Nadal, SM; Martinez, CD; Cuesta, MJL; Mora, DE; Tardio, JO; Benavente, I; Alonso, A; Olmos, RA; Cabezas, MAG; Jimenez, MDM; Caballero, MFJ; Diaz, MDO; Fagundo, AT; Canals, LM; Rodrigo, FGM; Marti, LU; Galdo, MFM; Suazo, JAH; Lopez, EN; Fernandez, JU; Altana, MAC; Navarro, DM; Dominguez, MT; del Prado, MYR; Diez, IE; Benavides, MTP; Lapena, S; Prada, T; Mir, ES; Sanchez, AC; Vega, EC; del Prado, N; Fernandez, C; Vilaplana, LC; Perez, IC; Gomez, LL; Comeche, LD; Martin, IL; Armengod, CG; Labian, CM; Munoz, MJS; Bravo, DB; Perez, V; Fernandez, MDE; Gonzalez, CD; Segura, SA; Azorin, ML; Jimenez, AB; Sanchez-Tamayo, T; Moreno, ET; Gonzalez, M; Martinez, JES; Garcia, JML; Orayen, CG; Gonzalez, JV; Albo, MS; Colmenero, EG; Gonzalez, EPG; del Arco, BV; Fernandez, JM; Gordillo, LA; Asensio, MG; Diaz, CM; Albujar, M; Jorge, PF; Romero, S; Falero, MR; Izquierdo, ABE; Capell, JE; Macian, MII; Vicente, MMM; Caballero, RI; Martinez, MM; Euba, A; Serna, AR; Goya, JMLD; Legorburu, AP; Amoros, AG; Isabel, VMM; Gonzalez, NH; Gracia, SR; Faci, MPV; Villagrasa, MPS; Kofron, J; Brodd, KS; Odlind, A; Alberg, L; Arwehed, S; Hafstrom, O; Kasemo, A; Nederman, K; Ahman, L; Ingemarsson, F; Petersson, H; Thum, P; Albinsson, E; Selander, B; Abrahamsson, T; Heimdahl, I; Sveinsdottir, K; Wejryd, E; Hedlund, A; Soderberg, MK; Hallberg, B; Brune, T; Backstrom, J; Robinson, J; Farooqi, A; Normann, E; Fredriksson, M; Palm, A; Rosenqvist, U; Hagman, C; Ohlin, A; Floral, R; Smedsaas-Lofvenberg, A; Meyer, P; Anderegg, C; Schulzke, S; Nelle, M; Wagner, B; Riedel, T; Kaczala, G; Walde, B; Pfister, RE; Tolsa, JF; Roth, M; Stocker, M; Laubscher, B; Malzacher, A; Micallef, JP; Hegi, L; Arlettaz, R; Bernet, V; Dani, C; Fiorini, P; Boldrini, A; Tomasini, B; Mittal, A; Kefas, J; Kamalanathan, A; Jayachandran; Yoxall, B; McBride, T; Webb, D; Garr, R; Hassan, A; Ambadkar, P; Dyke, M; McDevitt, K; Rewitzky, G; D'Amore, A; Panasa, N; Settle, P; Maddock, N; Edi-Osagie, N; Zipitis, C; Heal, C; Birch, J; Hasib, A; Soe, A; Kumar, N; Kisat, H; Vasu, V; Lama, M; Gupta, R; Rawlingson, C; Wickham, T; Theron, M; Kendall, G; Gupta, A; Aladangady, N; Ali, I; Alsford, L; Lopez, W; Murthy, V; Sullivan, C; Thomas, M; Bate, T; Godambe, S; Watts, T; Kuna, J; Chang, J; Pai, V; Huddy, C; Yasin, S; Nicholl, R; Pandey, P; Kairamkonda, V; Muogbo, D; Harry, L; Simmons, P; Nycyk, J; Gallagher,*

*A; Pillay, T; Deshpande, S; Mahadevan; Moore, A; Clark, S; Garbash, M; Lal, M; Abu-Harb, M; Allwood, A; Selter, M; Munyard, P; Bartle, D; Paul, S; Whincup, G; Mallik, A; Amess, P; Godden, C; Reynolds, P; Misra, I; De Halpert, P; Salgia, S; Sanghavi, R; Wigfield, R; Deketelaere, A; Khashu, M; Hall, M; Groves, C; Brown, N; Brennan, N; Vamvakiti, K; McIntyre, J; Pirie, S; Jones, S; Mannix, P; Cairns, P; Eaton, M; Schwarz, K; Gibson, D; Miall, L; Krishnamurthy; Int Network Evaluating Outcomes iN. The International Network for Evaluating Outcomes (iNeo) of neonates: evolution, progress and opportunities. TRANSLATIONAL PEDIATRICS. 2019; 8(3) 170-. (Review).*

# 7.25 Artificial Circulation Laboratory

Group Director: **Juan Francisco del CañizoLópez**
Organisms involved: **HGUGM**
**Emerging group**

## Description of the research group

Experimental group in multidisciplinary animal research composed of professional specialists (cardiac surgery, general surgery, plastic surgery, anesthesia, veterinary, nursing and laboratory technician), which develops several lines of experimental surgical research in liver transplantation pathology, ventricular assistance, 3D organ printing and simulation models. Description of the research group

## Research lines

L 1: Circulatory support devices. Effects of the different types of flow (pulsatile and nonpulsatile) on perfusion of different organs. Leader: Manuel Ruiz Fernández
L 2: Normothermic perfusion of the isolated liver. Leader: Andrés Rivera Muñoz
L 3: Decellularization of the liver. Leader: Ignacio Fernández López
L 4: 3D printing of tissues. Leader: Juan Francisco del Cañizo
L 5: Simulation of various medical devices. Leader: Juan Francisco del Cañizo

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| BARRIO | GUTIÉRREZ | JOSÉ MARÍA | R2 | Recognised Researcher |
| BENEYTO | CRUZ | ROSARIO | OTROS | TÉCNICO |
| CUERPO | CABALLERO | GREGORIO PABLO | R2 | Recognised Researcher |
| DEL CAÑIZO | LÓPEZ | JUAN FRANCISCO | R4 | Leading Researcher |
| FERNANDEZ | LOPEZ | IGNACIO | R1 | First Stage Researcher |
| PÉREZ-CABALLERO | MARTINEZ | RAMÓN | R2 | Recognised Researcher |
| RIVERA | MUÑOZ | ANDRES | R1 | First Stage Researcher |
| RUIZ | FERNÁNDEZ | MANUEL | R3 | Established Researcher |
| SICILIA | ALONSO | JAVIER | R2 | Recognised Researcher |
| ZAMORANO | SERRANO | JOSE ANGEL | OTROS | ENFERMERO |

## Research Projects – Competitive Calls

TITLE: **Efectos del tipo de flujo sanguineo (continuo o pulsatil) sobre la microcirculación en un modelo animal de asistencia ventricular**. PI17/01319
DIRECTOR: RUIZ FERNÁNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Perfusión normotérmica de hígado para recuperación de hígados marginales. Isquemia ccaliente, esteatosis y discrepancia de tamaño**. PI15/01987
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016

END DATE: 30/09/2019

TITLE: **Nuevas Tecnologías de Fabricación y Optimización de Tejidos : La Piel como sistema Modelo**PEJ2018-004026-A
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: PROGRAMA DE ACTIVIDADES DE I+D EN BIOMEDICINA
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 06/03/2019
END DATE: 06/03/2023

TITLE: **Mejora de las prestaciones del area quirurgica del servicio de medicina y cirugia experimental para el apoyo a los investigadores del Instituto de Investigacion Sanitaria del Hospital Gregorio Marañón** S2018/BAA-4480
DIRECTOR: DEL CAÑIZO LÓPEZ, JUAN FRANCISCO
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2020

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| ISCIII Platform | ITEMAS Innovación en Tecnologías Médicas y Sanitarias PT13/0006/0001 | Collaborating group |

## *Industrial and intellectual property registrations*

***Industrial property***

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Equipo y simulación para control de hemorragias** | P201730568 | FIBHGM – Medical Simulator | Manuel Desco, Juan Francisco del Cañizo |
| **Método y aparato de hemodiafiltración** | PCT/ES2007/070081 (Familia con 3 patentes) | FIBHGM | Juan Francisco del Cañizo |
| **Dispositivo de asistencia ventricular** | P201331422 | FIBHGM | Juan Francisco del Cañizo, Manuel Ruiz |
| **Dispositivo para prevenir la neumonía asociada a ventilación mecánica** | U 2014 30814 | FIBHGM | Juan Francisco del Cañizo, Emilio Bouza, Mª Jesús Pérez |
| **Dispositivo para bombeo de sangre de forma tubular, con válvulas activas gobernado por vacío y aplicación del mismo** | P9501070 (Familia con 14 patentes) | SERMAS - HGUGM | Juan Francisco del Cañizo |

* ***Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

## *Doctoral theses, Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| Ph Thesis | **Irene Gonzalez Del Pozo** | Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes | Maria Begoña Quintana Villamandos; Juan Francisco Del Cañizo López | UCM | 18/09/2019 |

| | | | | | |
|---|---|---|---|---|---|
| | | pendientes de cirugía cardiaca | | | |



## *Publications* *Total Impact Factor: **55.3***

| | Nº | FI |
|---|---|---|
| Own publications | 2 | 4.4 |
| Joint publications | 10 | 50.8 |
| First decile publications | 3 | 34.3 |
| First quartile publications | 6 | 44.3 |
| Second quartile publications | 2 | 6.6 |
| Third quartile publications | 2 | 3.2 |
| Fourth quartile publications | 2 | 1.3 |
| Nonindexed publications / No IF | 9 | - |
| **Total publications (including those without IF)** | **21** | **55.3** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Gil-Jaurena, JM; Perez-Caballero, R; Pardo, C. Upper Ministernotomy for Pulmonary Valve Repair. ANNALS OF THORACIC SURGERY. 2019; 107(5) 305-306. FI: 3.639. Cuartil: 1. (Editorial Material).*
- *Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Pardo, C. Paracorporeal Connection to Heart-Lung Machine in Transplant Surgery With the Berlin Heart Ventricular Assist Device. ANNALS OF THORACIC SURGERY. 2019; 107(2) 151-152. FI: 3.639. Cuartil: 1. (Article).*
- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*
- *Gonzalez, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Perez, R; Alvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; Lopez-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Diaz, DM; Caballero, GC; Ortiz, AI; Pinto, AG. Inflammatory myofibroblastic tumour in the right ventricle of a 66-year-old man. INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY. 2019; 29(6) 967-968. FI: 1.675. Cuartil: 3. (Editorial Material).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Morillas-Sendin, P; del Canizo, JF; Ruiz, M; Delgado-Baeza, E; Quintana-Villamandos, B. Randomized comparison of sevoflurane versus propofol on organ blood flow after partial thoracic aortic cross-clamping. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. 2019; 12(1) 1226-1233. FI: 0.166. Cuartil: 4. (Article).*

- *Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

- *Irabien, A; Gil-Jaurena, JM; Pita, A; Perez-Caballero, R; Gonzalez-Pinto, A. Double-barrel endocarditis. JOURNAL OF CARDIAC SURGERY. 2019; 34(10) 1100-1102. FI: 1.49. Cuartil: 3. (Editorial Material).*

- *Riveiro, AS; Gonzalez, JCN; Barrio, JM. Systemic Sclerosis after Bone Marrow Transplantation: A Case with Evidence of Donor-related Disease Transfer. JOURNAL OF RHEUMATOLOGY. 2019; 46(9) 1246-1247. FI: 3.35. Cuartil: 2. (Letter).*

- *Prieto-Arevalo, R; Munoz, P; Cuerpo, G; Mari-Hualde, A; Castelo-Corral, L; Navas-Elorza, E; Cifuentes-Luna, C; Alonso-Socas, MD; Boix-Palop, L; Martinez-Selles, M; Spanish Collaboration Endocarditis. Pulmonary Infective Endocarditis. JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY. 2019; 73(21) 2782-2784. FI: 20.589. Cuartil: 1. (Letter).*

***Publications of the main WOS collection in journals without impact factor:***

- *Lopez, LP; Hernandez, TC; Menendez, JL; Caballero, GC; Perez, RS; Hernandez, VB; Guisasola, JS; Garcia-Verdugo, FG; Sos, FH; Grp Trabajo Cardiopatias Congenita; Soc Espanola Cirugia Toracica-Card. Spanish Society of Thoracic-Cardiovascular Surgery registry of interventions in patients with congenital heart disease: 2018, and retrospective of the last 7 years. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).*

- *Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Gonzalez-Lopez, MT; Pardo, C; Zamorano, JA; Ramirez, B; Perez, R; Gonzalez-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).*

- *Pita-Fernandez, A; Gil-Jaurena, JM; Perez-Caballero-Martinez, R; Pardo-Pardo, C; Gonzalez-Lopez, MT; Rodriguez-Abella-Gonzalez, H; Irabien-Ortiz, A; Perez-Perez, R; Ramirez-Gomez, B; Zamorano-Serrano, J; Gonzalez-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26(2) 104-123. (Review).*

- *Cuerpo, G; Carnero, M; Sos, FH; Lopez, LP; Hernandez, TC; Gascon, P; Pedraz, A; Cuenca, J; Silvaj, J; Menendezi, JL; Soc Espanola Cirugia Toracica Card. Cardiovascular surgery in Spain performed in 2018. National registry of interventions of the Spanish Society of Thoracic-Cardiovascular Surgery. CIRUGIA CARDIOVASCULAR. 2019; 26(1) 8-27. (Article).*

- *Sos, FH; Hernandez, TC; Lopez, LP; Menendez, JL; Lucio, CAM; Munguira, JB; Garcia-Puente, J; Sorli, MJD; Guisasola, JS; Nazar, BA; de Ibarra, JIS; Espin, GS; Leal, JMA; Martin, CP; Lecoq, RR; Aroca, JMB; Caballero, GPC; Hernandez, VB; Perez, RS; Legname, V; Garrido, JM; Castillo, JJC; Gonzalez, ALF; Garcia-Tornel, MJ. SECTCV recommendations document in cardiovascular surgery. 2019 updating of the standards in organization, professional activity, quality of health-care, and training in the specialty. CIRUGIA CARDIOVASCULAR. 2019; 26(6) 265-276. (Article).*

- *Menendez, JL; Caballero, GC; Hernandez, TC; Lopez, LP; Guisasola, JS; Garcia-Verdugo, PG; Sos, FH. Cardiovascular surgery in Spain performed in 2017. National registry of interventions of the Spanish Society of Thoracic-Cardiovascular Surgery. CIRUGIA CARDIOVASCULAR. 2019; 26(6) 248-264. (Article).*

- *Fernandez-Bautista, B; Mata, DP; Parente, A; Perez-Caballero, R; De Agustin, JC. First Experience with Fluorescence in Pediatric Laparoscopy. EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS. 2019; 7(1) -. (Article).*

- *Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Fernande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).*

***Other publications***

- *Velasquez-Rodriguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernandez M; Valerio M; Fernandez-Aviles F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).*

# 7.26 Evaluation of health services and clinical epidemiology

Group Director: **Rosa Plá Mestre**
Organisms involved: **HGUGM**
**Emerging group**



## Research lines

**Axis 1: Precision medicine, innovation, regenerative medicine, and big data**

Line 1: Evaluation of health services and public health programs. Leader: Rosa Plá Mestre.
Line 2: Patient safety and management of risks resulting from clinical practice. Leader: Alicia Díaz Redondo.
Line 3: Prevention of health care–related infections. Leader: Dolores Vigil Escribano.

**Axis 2: Boosting research in primary care and nursing**

Line 1: Evaluation of health services and public health services. Leader: Rosa Plá Mestre

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| DIAZ | REDONDO | ALICIA | R1 | First Stage Researcher |
| GRANDE | ARMESTO | MARTA BEATRIZ | R1 | First Stage Researcher |
| IZQUIERDO | MEMBRILLA | MARIA ISABEL | R1 | First Stage Researcher |
| LLORENTE | PARRADO | CESAR | R3 | Established Researcher |
| LOPEZ | FRESNEÑA | NIEVES | R3 | Established Researcher |
| MOLINA | VILLAVERDE | DIANA | | |
| NIETO | PEREDA | BEATRIZ | R1 | First Stage Researcher |
| PLA | MESTRE | ROSA | R4 | Leading Researcher |
| PUENTE | GONZÁLEZ | DOLORES | R1 | First Stage Researcher |
| VIGIL | ESCRIBANO | MARÍA DOLORES | | |
| ZONI | MATTA | ANA CLARA | R1 | First Stage Researcher |

## Publications

*Total Impact Factor:* ***4.4***

| | Nº | IF |
|---|---|---|
| Own publications | 0 | 0.0 |
| Joint publications | 2 | 4.4 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0.0 |
| Second quartile publications | 1 | 3.5 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 1 | 0.9 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (incluging those without IF)** | **3** | **4.4** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor***

- *Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodriguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).*

- *Miranda-Bautista, J; Verdejo, C; Diaz-Redondo, A; Breton, I; Bellon, JM; Perez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; Gonzalez-Rio, E; Garcia-Sanchez, C; Marin-Jimenez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Aviles-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).*

# 7.27 Hospital pharmacy and pharmacogenomics

Group Director: **María Sanjurjo Sáez**
Organisms involved: **HGUGM**
**Consolidated Group**

## Research lines

**Axis 1: Drug therapy and safety**. Leader: María Sanjurjo Sáez
Line 1: Pharmaceutical care and quality in drug therapy.
Line 2: Safety in the medication use process.
Line 3: Development and professional competence.
**Axix 2. Pharmacogenetics and pharmacogenomics**. Leader: Luis Andrés López Fernández
Line 1: Pharmacogenetics and pharmacogenomics.

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ABARCA | ZABALIA | JUDITH | R1 | First Stage Researcher |
| AIS | LARISGOITIA | MARÍA ARANZAZU | R1 | First Stage Researcher |
| AMOR | GARCIA | MIGUEL ANGEL | R1 | First Stage Researcher |
| ARAGONESES | DURAN | MARIA GUADALUPE | R1 | First Stage Researcher |
| CHAMORRO | DE VEGA | ESTHER | R2 | Recognised Researcher |
| COLLADO | BORRELL | ROBERTO | R2 | Recognised Researcher |
| DE LORENZO | PINTO | ANA | R2 | Recognised Researcher |
| DURÁN | GARCÍA | MARÍA ESTHER | R2 | Recognised Researcher |
| ESCUDERO | VILAPLANA | VICENTE | R2 | Recognised Researcher |
| GARCIA | MARTIN | ESTELA | R1 | First Stage Researcher |
| GARCIA | MORENO | FELIX JESUS | R1 | First Stage Researcher |
| GARCIA | SANCHEZ | SEBASTIAN | R2 | Recognised Researcher |
| GARCÍA | GONZÁLEZ | XANDRA | R1 | First Stage Researcher |
| GARCÍA | SÁNCHEZ | RAQUEL | R1 | First Stage Researcher |
| GIMENEZ | MANZORRO | ALVARO | R2 | Recognised Researcher |
| GOMEZ | MARTINEZ-SAGRERA | PATRICIA | R1 | First Stage Researcher |
| GONZALEZ | RUIZ | LUCIA | R1 | First Stage Researcher |
| GONZÁLEZ-HABA | PEÑA | EVA | R2 | Recognised Researcher |
| HERRANZ | ALONSO | ANA | R2 | Recognised Researcher |
| IBAÑEZ | GARCIA | SARA | R2 | Recognised Researcher |
| LOBATO | MATILLA | MARÍA ELENA | R1 | First Stage Researcher |
| LOPEZ | FERNANDEZ | LUIS ANDRES | R3 | Established Researcher |
| MANRIQUE | RODRIGUEZ | SILVIA | R2 | Recognised Researcher |
| MARTÍN | BARBERO | MARÍA LUISA | R1 | First Stage Researcher |
| MARTINEZ | ORTEGA | PILAR | R1 | First Stage Researcher |
| MARTÍNEZ | FERNÁNDEZ-LLAMAZARES | CECILIA | R2 | Recognised Researcher |
| MARZAL | ALFARO | MARIA BELEN | R2 | Recognised Researcher |
| MELGAREJO | ORTUÑO | ALEJANDRA | R1 | First Stage Researcher |
| MUR | MUR | ANA | R1 | First Stage Researcher |
| NARRILLOS | MORAZA | ALVARO | | |
| ORTEGA | NAVARRO | MARIA CRISTINA | R1 | First Stage Researcher |
| PERNIA | LÓPEZ | MARÍA SAGRARIO | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| REVUELTA | HERRERO | JOSE LUIS | R1 | First Stage Researcher |
| RIBED | SANCHEZ | ALMUDENA | R2 | Recognised Researcher |
| RODRÍGUEZ | GONZÁLEZ | CARMEN GUADALUPE | R2 | Recognised Researcher |
| ROMERO | JIMENEZ | ROSA MARIA | R2 | Recognised Researcher |
| RUIZ | BRIONES | PAULA | R1 | First Stage Researcher |
| SALVADOR | MARTIN | SARA | R1 | First Stage Researcher |
| SÁNCHEZ | FRESNEDA | MARÍA NORBERTA | R1 | First Stage Researcher |
| SANJURJO | SAEZ | MARÍA | R4 | Leading Researcher |
| SAROBE | GONZALEZ | CAMINO | R1 | First Stage Researcher |
| SEVILLA | FERNANDEZ | PAULA | R1 | First Stage Researcher |
| SOMOZA | FERNANDEZ | BEATRIZ | R1 | First Stage Researcher |
| TALADRIZ | SENDER | IRENE | R1 | First Stage Researcher |
| VICENTE | VALOR | JUAN | R1 | First Stage Researcher |
| VILLANUEVA | BUENO | CRISTINA | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Factores farmacogenómicos y monitorización terapeútica como predictores de respuesta a anti-TNFs en enfermedad inflamatoria intestinal en niños**. PI16/00559
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Young employement contract: Predoctoral.** PEJD-2018-PRE/BMD-8665
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| ISCIII Platform | SCReN: Spanish Clinical Research Network | Collaborating group |

## *Industrial and intellectual property registrations*

### *Intellectual property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas** | Nº Asiento Registral: 16/2013/5179 | FIBHGM | **Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez** |
| **Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)** | Nº Asiento Registral: 16/2014/5265 | FIBHGM | Patricia Muñoz<br>Emilio Bouza<br>**María Sanjurjo**<br>Carmen Rodríguez<br>Maricela Valerio |
| **Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal sanitaria** | Nº Asiento Registral: 16/2015/503 | FIBHGM | Elena Lobato<br>**María Sanjurjo**<br>Ana Herranz<br>Carmen Rodríguez |

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| **de Research in nursing de planta y evaluación de su competencia** | | | |
| **E-OncoSalud: Programa de Telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico** | Nº Asiento Registral: 16/2016/987 | FIBHGM | **María Sanjurjo**<br>Ana Mª Herranz<br>Vicente Escudero<br>Almudena Ribed<br>Roberto Collado<br>Sara Ibáñez |
| **NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal** | Nº Asiento Registral: 16/2016/989 | FIBHGM | Sara Ibáñez<br>**María Sanjurjo**<br>Ana Herranz<br>Carmen Rodríguez<br>Mª Luisa Martín<br>Mª Ángeles Goicoechea<br>Eduardo Verde<br>José Luño. |
| **Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes/antiagregados** | Nº Asiento Registral: 16/2017/507 | FIBHGM | Sara Ibáñez<br>Ana de Lorenzo<br>Ana Herranz<br>**María Sanjurjo**<br>Ana María Rodríguez |
| **Control-Sugar24: calculadora para la insulinización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria** | Nº asiento registro: 16/2017/6705 | FIBHGM | Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García |
| **PK-GUIDE: Guía para monitorización clínica de fármacos** | Nº asiento registro: 16/2017/6956 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| **PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética** | Nº asiento registro: 16/2017/6957 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| **Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos** | Nº Asiento Registral: 16/2011/7360 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |

| | Transferred Intellectual Property |
|---|---|

## *Doctoral theses, Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | **Bartosz Kaczmarczyk** | Identificación de polimorfismos en el gen DPYD en pacientes con toxicidad grave a fluoropirimidinas | Luis AndrésLópe z Fernandez<br>Eva Miedes Vicente | UPM | 11/07/2019 |
| Ph Thesis | **Maria Belen Marzal Alfaro;** | Modelo de excelencia en la atención farmacéutica al paciente oncohematológico en el ámbito hospitalario | Irene Iglesias Peinado<br>Vicente Escudero Vilaplana<br>Carmen Guadalupe Rodríguez González | UCM | 03/04/2019 |
| Ph Thesis | **Roberto Collado Borrell;** | Diseño e implantación de una aplicación móvil para el seguimiento farmacoterapéutico de pacientes en tratamiento con antineoplásicos orales | Vicente Escudero Vilaplana<br>Rosa Maria Romero Jimenez<br>Irene Iglesias Peinado | UCM | . 21/10/2019 |

## *Publications* *Total Impact Factor: 69.1*

| | Nº | FI |
|---|---|---|
| Own publications | 15 | 31,8 |

| | | |
|---|---|---|
| Joint publications | 12 | 37,3 |
| First decile publications | 3 | 18,1 |
| First quartile publications | 7 | 33,6 |
| Second quartile publications | 3 | 8,8 |
| Third quartile publications | 5 | 10,5 |
| Fourth quartile publications | 12 | 16,1 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **27** | **69,1** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Fernandez-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodriguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Perez-Lago, L; de Viedma, DG; Martin, JLD; Munoz, P. A Case-Control Study of Real-Life Experience with Ceftolozane-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).*
- *Ibanez-Garcia, S; Rodriguez-Gonzalez, C; Escudero-Vilaplana, V; Martin-Barbero, ML; Marzal-Alfaro, B; De la Rosa-Trivino, JL; Iglesias-Peinado, I; Herranz-Alonso, A; Saez, MS. Development and Evaluation of a Clinical Decision Support System to Improve Medication Safety. APPLIED CLINICAL INFORMATICS. 2019; 10(3) 513-520. FI: 2.147. Cuartil: 3. (Article).*
- *Mohedano, AMI; Pastor, AG; Pinto, AD; Nunez, ACG. Bolus-to-Infusion Time in Stroke Patients Treated with Alteplase on the CT Table: A Clinical Concern. CEREBROVASCULAR DISEASES. 2019; 48(1-2) 96-97. FI: 2.698. Cuartil: 2. (Editorial Material).*
- *Laserna-Mendieta EJ; Salvador-Martín S; Arias-González L; Ruiz-Ponce M; Menchén LA; Sánchez C; López-Fernández LA; Lucendo AJ. Comparison of a new rapid method for the determination of adalimumab serum levels with two established ELISA kits. CLINICAL CHEMISTRY AND LABORATORY MEDICINE. 2019; 57(12) 1906-1914. FI: 3.595. Cuartil: 1. (Article).*
- *Arhip, L; Garcia-Peris, P; Romero, RM; Frias, L; Breton, I; Camblor, M; Motilla, M; Velasco, C; Morales, A; Carrascal, ML; Herranz, A; Sanjurjo, M; Cuerda, C. Direct costs of a home parenteral nutrition programme. CLINICAL NUTRITION. 2019; 38(4) 1945-1951. FI: 6.36. Cuartil: 1. (Article).*
- *Higuera-Pulgar, I; Ribed, A; Carrascal-Fabian, ML; Romero-Jimenez, RM; Velasco-Gimeno, C; Breton-Lesmes, I; Camblor-Alvarez, M; Cuerda-Compes, C; Garcia-Peris, P. Evolution of nutritional status and survival in patients with cancer on tyrosine kinase inhibitors treatment. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(8) 472-479. FI: 1.18. Cuartil: 4. (Article).*
- *Montecatine-Alonso, E; Gil-Navarro, MV; Fernandez-Llamazares, CM; Fernandez-Polo, A; Soler-Palacin, P; Llorente-Gutierrez, J; Calvo, MTGT; Esquivel-Mora, MD; Perez-Rodrigo, I; Cisneros, JM; Goycochea-Valdiviai, WA; Neth, O; Benito, CAV; Chavarri-Gil, E; Gallego-Fernandez, C; Moreno-Perez, D; Dolz, E; Tagarro-Garcia, A; Rumbao-Aguirre, J; Gutierrez-Urbon, JM; Paediat Antimicrobial Defined. Antimicrobial defined daily dose adjusted by weight: a proposal for antibiotic consumption measurement in children. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(5) 301-306. FI: 1.654. Cuartil: 4. (Article).*
- *Delgado-Ortega L; Gonzalez-Dominguez A; Borras JM; Oliva-Moreno, J; Gonzalez-Haba, E; Menjon, S; Perez, P; Vicente, D; Cordero, L; Jimenez, M; Simon, S; Hidalgo-Vega, A; Moya-Alarcon, C. The economic burden of disease of epithelial ovarian cancer in Spain: the OvarCost study. EUROPEAN JOURNAL OF HEALTH ECONOMICS. 2019; 20(1) 135-147. FI: 2.367. Cuartil: 1. (Article).*
- *Garcia-Martin, E; Pernia-Lopez, S; Martinez-Ortega, PA; Monje, B; Ruiz-Martinez, C; Sanjurjo-Saez, M. Intranasal bevacizumab treatment on epistaxis in hereditary haemorrhagic telangiectasia: a case report. EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE. 2019; 26(6) 314-317. FI: 0.892. Cuartil: 4. (Article).*
- *Garcia-Martin, E; Pernia-Lopez, S; Jimenez, RMR; Garcia-Valcarcel, B; Martinez-Ortega, PA; Sanjurjo-Saez, M. The use of autologous serum eye drops for the treatment of ocular surface disorders. EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE. 2019; 26(4) 226-228. FI: 0.892. Cuartil: 4. (Article).*
- *Escudero-Vilaplana, V; Revuelta-Herrero, JL; Collado-Borrell, R; Marzal-Alfaro, B; Gimenez-Manzorro, A; Herranz-Alonso, A; Sanjurjo-Saez, M. Oral antineoplastic agents: assessment of safety and dose adjustments in clinical practice. EXPERT OPINION ON DRUG SAFETY. 2019; 18(9) 861-868. FI: 3.383. Cuartil: 2. (Article).*
- *Garcia-Martin, E; Manrique-Rodriguez, S; Fernandez-Llamazares, CM; Goicoechea-Diezhondino, M; Alvarez-Blanco, O; Garcia-Morin, M; Sanjurjo-Saez, M. Variability in management and outcomes of therapy with eculizumab in atypical hemolytic uremic syndrome. EXPERT OPINION ON ORPHAN DRUGS. 2019; 7(12) 525-533. FI: 0.805. Cuartil: 4. (Article).*
- *de la Fuente, JS; Campelo-Gutierrez, C; Izquierdo-Garcia, E; Esteban, A; Manuel, CJ; Gimenez-Manzorro, A; Diaz, BG; Becares, J. Detection of galactomannan content in generic piperacillin-tazobactam products. INFECTIOUS DISEASES. 2019; 51(2) 157-159. FI: 2.494. Cuartil: 3. (Letter).*

- *Galar, A; Munoz, P; Valerio, M; Cercenado, E; Garcia-Gonzalez, X; Burillo, A; Sanchez-Somolinos, M; Juarez, M; Verde, E; Bouza, E. Current use of daptomycin and systematic therapeutic drug monitoring: Clinical experience in a tertiary care institution. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(1) 40-48. FI: 4.621. Cuartil: 1. (Article).*
- *Revuelta-Herrero, JL; Garc?a-S?nchez, R; Anguita-Velasco, J; de Lorenzo-Pinto, A; Ortega-Navarro, C; Sanjurjo-S?ez, M. Drug safety surveillance within a strategy for the management of non-chemotherapy drug-induced neutropenia. INTERNATIONAL JOURNAL OF CLINICAL PHARMACY. 2019; 41(5) 1143-1147. FI: 1.616. Cuartil: 4. (Article).*
- *de Lorenzo-Pinto, A; Ortega-Navarro, C; Ribed, A; Gimenez-Manzorro, A; Ibanez-Garcia, S; de Miguel-Guijarro, A; Ginel-Feito, MD; Herranz, A; Sanjurjo-Saez, M. Cancellations of elective surgical procedures due to inadequate management of chronic medications. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2019; 44(4) 561-564. FI: 1.833. Cuartil: 4. (Article).*
- *Rodriguez-Gonzalez, CG; Herranz-Alonso, A; Escudero-Vilaplana, V; Ais-Larisgoitia, MA; Iglesias-Peinado, I; Sanjurjo-Saez, M. Robotic dispensing improves patient safety, inventory management, and staff satisfaction in an outpatient hospital pharmacy. JOURNAL OF EVALUATION IN CLINICAL PRACTICE. 2019; 25(1) 28-35. FI: 1.681. Cuartil: 3. (Article).*
- *Manes-Sevilla, M; Romero-Jimenez, R; Herranz-Alonso, A; Sanchez-Fresneda, M; Gonzalez-Haba, E; Collado-Borrel, R; Benedi-Gonzalez, J; Sanjurjo-Saez, M. Drug cost avoidance in clinical trials of breast cancer. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(2) 484-486. FI: 1.85. Cuartil: 4. (Article).*
- *Osorio, S; Escudero-Vilaplana, V; Reguilon-Gallego, L; Gomez-Centurion, I; Diez, JL; Ferrer-Marin, F. Severe liver toxicity in a chronic myeloid leukemia patient probably induced by a drug interaction between imatinib and sertraline. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(3) 694-698. FI: 1.85. Cuartil: 4. (Article).*
- *Osorio S; Escudero-Vilaplana V; Gómez-Centurión I; González-Arias E; García-González X; Díez JL. Inadequate response to imatinib treatment in chronic myeloid leukemia due to a drug interaction with phenytoin. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(5) 1099-1104. FI: 1.85. Cuartil: 4. (Article).*
- *Berlana, D; Almendral, MA; Abad, MR; Fernandez, A; Torralba, A; Cervera-Peris, M; Pineiro, G; Romero-Jimenez, R; Vazquez, A; Ramirez, E; Yebenes, M; Munoz, A. Cost, Time, and Error Assessment During Preparation of Parenteral Nutrition: Multichamber Bags Versus Hospital-Compounded Bags. JOURNAL OF PARENTERAL AND ENTERAL NUTRITION. 2019; 43(4) 557-565. FI: 2.853. Cuartil: 3. (Article).*
- *Salvador-Martiin, S; Garcia-Gonzalez, X; Garcia, MI; Blanco, C; Garcia-Alfonso, P; Robles, L; Gravalos, C; Pachon, V; Longo, F; Martinez, V; Sanjurjo-Saez, M; Lopez-Fernandez, LA. Comments on: "Clinical utility of ABCB1 genotyping for preventing toxicity in treatment with irinotecan". PHARMACOLOGICAL RESEARCH. 2019; 145 -. FI: 5.893. Cuartil: 1. (Letter).*
- *Salvador-Martin, S; Lopez-Cauce, B; Nunez, O; Laserna-Mendieta, EJ; Garcia, MI; Lobato, E; Abarca-Zabalia, J; Sanjurjo-Saez, M; Lucendo, AJ; Marin-Jimenez, I; Menchen, LA; Lopez-Fernandez, LA. Genetic predictors of long-term response and trough levels of infliximab in crohn's disease. PHARMACOLOGICAL RESEARCH. 2019; 149 -. FI: 5.893. Cuartil: 1. (Review).*
- *Alonso, B; Perez-Granda, MJ; Latorre, MC; Rodriguez, C; Sanchez-Carrillo, C; Munoz, P; Guembe, M. Is heparinized 40% ethanol lock solution efficient for reducing bacterial and fungal biofilms in an in vitro model?. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*
- *Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodriguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).*
- *Monje, B; Gimenez-Manzorro, A; Ortega-Navarro, C; Herranz-Alonso, A; Sanjurjo-Saez, M. Trends in hospital consumption of analgesics after the implementation of a pain performance improvement plan. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 259-265. FI: 0.867. Cuartil: 4. (Article).*
- *Sevilla, MG; Pinto, AD; Sanchez, RG; Navarro, CO. It is possible to mix insulins in the same syringe?. REVISTA CLINICA ESPANOLA. 2019; 219(4) 226-227. FI: 1.304. Cuartil: 3. (Letter).*

# 7.28 Clinical nutrition

Group Director: **Pilar García Peris / Cristina Velasco**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

L1: Diagnostic-therapeutic protocol of eosinophilic esophagitis
L2: Quality of life in patients receiving home enteral nutrition
L3. Outcome of a series of HGUGM patients receiving home parenteral nutrition
L4. Role of vitamin D deficiency in key events in cirrhosis of the liver and impact of supplements
L5. Translation into Spanish and validation of the VGS-GP questionnaire
L6. Nutritional screening
L7. Evaluation of nutritional status and energy use in patients with Parkinson's disease receiving duodopa
L8. Virtual reality
L9. Evolution of Energy Expenditure and blood levels of amino acids and Acylcarnitines in patients in the hematopoyetic precursors transplantation program
L10. Design and evaluation of a comprehensive program of docimiliary care in parenteral nutrition
L11. Study of the quality of life of Nutrihome patients
L12. Retrospective study of cost in patients with NPD and SIC
L13. Review of the long-term evolution of patients operated by vertical gastrectomy by morbid obesity

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| ARHIP | | LOREDANA | R1 | First Stage Researcher |
| BRETÓN | LESMES | IRENE | R1 | First Stage Researcher |
| CAMBLOR | ÁLVAREZ | MIGUEL | R1 | First Stage Researcher |
| CARRASCAL | FABIAN | Mª LUISA | Other | |
| DE LA CUERDA | COMPÉS | MARÍA CRISTINA | R4 | Leading Researcher |
| FRIAS | SORIANO | LAURA | R1 | First Stage Researcher |
| MORALES | CERCHIARO | ANGELA PATRICIA | R1 | First Stage Researcher |
| MOTILLA | DE LA CAMARA | MARTA LUISA | R1 | First Stage Researcher |
| SERRANO | MORENO | CLARA | R1 | First Stage Researcher |
| VELASCO | GIMENO | CRISTINA | R1 | First Stage Researcher |

## Publications

*Total Impact Factor:* ***54.9***

| | Nº | FI |
|---|---|---|
| Own publications | 7 | 21.8 |
| Joint publications | 11 | 33.0 |
| First decile publications | 5 | 28.7 |
| First quartile publications | 8 | 39.8 |
| Second quartile publications | 1 | 3.5 |
| Third quartile publications | 1 | 2.3 |
| Fourth quartile publications | 8 | 9.3 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **18** | **54.9** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Baxter JP; Fayers PM; Bozzetti F; Kelly D; Joly F; Wanten G; Jonkers C; Cuerda C; van Gossum A; Klek S; Boudreault MF; Gilbert A; Jobin M; Staun M; Gillanders L; Forbes A; O'Callaghan M; Faedo CM; Brunelli C; Mariani L; Pironi L; Home Artificial Nutrition and Chronic Intestinal Failure Special Interest Group. An international study of the quality of life of adult patients treated with home parenteral nutrition. CLINICAL NUTRITION. 2019; 38(4) 1788-1796. FI: 6.36. Cuartil: 1. (Article).*

- *Arhip, L; Garcia-Peris, P; Romero, RM; Frias, L; Breton, I; Camblor, M; Motilla, M; Velasco, C; Morales, A; Carrascal, ML; Herranz, A; Sanjurjo, M; Cuerda, C. Direct costs of a home parenteral nutrition programme. CLINICAL NUTRITION. 2019; 38(6) 2639-2644. FI: 6.36. Cuartil: 1. (Article).*

- *Gomez-Hoyos E; Buigues AO; Ballesteros Pomar MD; Casariego AV; Delgado YG; Ocon Breton MJ; Abad Gonzalez AL; Luengo Perez LM; Martin PM; Tapia Guerrero MJ; Del Olmo Garcia MD; Ruiz AH; Hernandez JA; Guerrero DB; Antolin SH; Tenorio-Jimenez C; Garcia Zafra MV; Romero FB; Pla MA; Martinez Olmos MA; Lemes IB; De la Vega IR; De Luis Roman D. Development of hyponatremia in non-critical patients receiving total parenteral nutrition: A prospective, multicenter study. CLINICAL NUTRITION. 2019; 38(3) 969-974. FI: 6.36. Cuartil: 1. (Article).*

- *Cuerda, C; Muscaritoli, M; Donini, LM; Baque, P; Barazzoni, R; Gaudio, E; Jezek, D; Krznaric, Z; Pirlich, M; Schetgen, M; Schneider, S; Vargas, JA; Van Gossum, A. Nutrition education in medical schools (NEMS). An ESPEN position paper. CLINICAL NUTRITION. 2019; 38(4) 1945-1951. FI: 6.36. Cuartil: 1. (Article).*

- *Garcia, RR; Sobrino, JLB; Perez, CF; Arino, CM; Mira, SA; Somoza, FJE; Lesmes, IB; Romero, FB. Trends on Diabetes Mellitus's healthcare management in Spain 2007-2015. DIABETES RESEARCH AND CLINICAL PRACTICE. 2019; 156 -. FI: 4.234. Cuartil: 1. (Article).*

- *Garcia-Peris, P; Gimeno, CV; Soriano, LF; Pulgar, IH; Lesmes, IB; Alvarez, MC; de la Camara, MM; Compes, CC. Protocol of implantation of screening for early detection of nutritional risk in a university hospital. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(6) 346-352. FI: 1.18. Cuartil: 4. (Article).*

- *Blasco, LG; Alvarez, MC; Garcia, JCF; Romero, FB. Quo vadis, Endocrinology and nutrition?. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(7) 425-433. FI: 1.18. Cuartil: 4. (Article).*

- *Higuera-Pulgar, I; Ribed, A; Carrascal-Fabian, ML; Romero-Jimenez, RM; Velasco-Gimeno, C; Breton-Lesmes, I; Camblor-Alvarez, M; Cuerda-Compes, C; Garcia-Peris, P. Evolution of nutritional status and survival in patients with cancer on tyrosine kinase inhibitors treatment. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(9) 555-562. FI: 1.18. Cuartil: 4. (Article).*

- *Pomar, MDB; Hernandez, JA; Lesmes, IB; Fuster, GO; Garcia, DD; Paris, AS; Breton, JO; Gomez, JJL; Perez, LML; Romero, FB; Olmos, MAM; Enterria, PG; Sanz, ML; Peris, PG; Guerrero, DB; Roman, DD; Luna, PPG; Virgili, N; Vazquez, C; Garcia, LC; Salgado, AC; Com Gestor Area Nutr SEEN. Training in nutrition for medical residents in endocrinology and nutrition: How have we changed?. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(8) 472-479. FI: 1.18. Cuartil: 4. (Article).*

- *Botella Romero F; Elola Somoza FJ; Navarro Gonzalez E; Fernandez Perez C; Bernal Sobrino JL; Lesmes, IB. Patient care in the Endocrinology and Nutrition Units of the National Health System. The RECALSEEN study. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(5) 291-296. FI: 1.18. Cuartil: 4. (Article).*

- *Cuerda, C; Vasiloglou, ME; Arhip, L. Nutritional Management and Outcomes in Malnourished Medical Inpatients: Anorexia Nervosa. JOURNAL OF CLINICAL MEDICINE. 2019; 8(7) -. FI: 3.303. Cuartil: 1. (Review).*

- *Perez-Sanchez, JR; Rodriguez, MA; Diaz-Otero, F; Lesmes, IB. Treatment of idiopathic intracranial hypertension with bariatric surgery. NEUROLOGIA. 2019; 34(7) 493-495. FI: 2.283. Cuartil: 3. (Letter).*

- *Blanco, AC; Fuster, FML; Garcia, MDD; Casas, NV; Wanden-Berghe, C; Aviles, V; Enguidanos, RA; Lopez, IF; Soria, JBM; Gonzalez, JCM; Lesmes, IB; Hernandez, JA; Villares, JMM; Grpo Trabajo Etica SENPE Soc. Nutritional management of advanced dementia: summary of recommendations of the SENPE Ethic Group. NUTRICION HOSPITALARIA. 2019; 36(4) 988-995. FI: 0.888. Cuartil: 4. (Article).*

- *Wanden-Berghe, C; Campos, C; Burgos, R; Alvarez, J; Frias, L; Matia, P; Lobo, G; Roman, DD; Gonzalo, M; Candela, CG; Olmos, MAM; Calleja, BP; Luengo, LM; Santacruz, N; Rocamora, JAI; Higuera, I; Padin, S; Leyes, P; Sanchez, R; Cardona, D; Martin, MA; Ballesta, C; Suarez, JP; Tejera, C; Bonada, A; Gardez, C; Penacho, MA; Martinez, MJ; Virgili, N; Martin, T; Canovas, B; Maiz, MI; del Olmo, D; Carabana, F; Pares, RM; Mauri, S; Romero, V; Garcia, I; Sanchez-Vilar, O; Garcia, Y; Miserachs, N; Tenorio, C; Apezetxea, A; Pereira, MA; Sanchez, EA; Ponce, MA; Grp NADYA-SENPE. Spanish home enteral nutrition registry of the year 2016 and 2017 from the NADYA-SENPE Group. NUTRICION HOSPITALARIA. 2019; 36(1) 233-237. FI: 0.888. Cuartil: 4. (Article).*

- *Vilallonga, R; Pereira-Cunill, JL; Morales-Conde, S; Alarc?n, I; Breton, I; Dom?nguez-Adame, E; Ferrer, J; Ruiz-de-Gordejuela, AG; Goday, A; Lecube, A; Garc?a-Almenta, EM; Rubio, M; Tinahones, F; Garc?a-Luna, P. A Spanish Society joint SECO and SEEDO approach to the Post-operative management of the patients undergoing surgery for obesity. OBESITY SURGERY. 2019; 29(12) 3842-3853. FI: 3.412. Cuartil: 1. (Article).*

- *Minambres, I; Rubio, MA; de Hollanda, A; Breton, I; Vilarrasa, N; Pellitero, S; Bueno, M; Lecube, A; Marcuello, C; Goday, A; Ballesteros, MD; Soriano, G; Caixas, A. Outcomes of Bariatric Surgery in Patients with Cirrhosis. OBESITY SURGERY. 2019; 29(2) 585-592. FI: 3.412. Cuartil: 1. (Article).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*
- *Miranda-Bautista, J; Verdejo, C; Diaz-Redondo, A; Breton, I; Bellon, JM; Perez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; Gonzalez-Rio, E; Garcia-Sanchez, C; Marin-Jimenez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

# 7.29 Pharmacology and vascular pathophysiology

Group Director: **Francisco Pérez Vizcaíno**
Organisms involved: **HGUGM**
**UCM**
**Consolidated Group**

## Description of the research group

Pulmonary hypertension is a condition characterized by an increase in pulmonary vascular resistance whose pathophysiology is complex and not yet well characterized. Our interest is mainly focused on the mechanisms involved in pulmonary vasodilation and in the inhibition of cell proliferation in order to identify and design new drugs that may be potentially useful in the treatment of pulmonary hypertension.
Acute lung damage (ALI) or its most severe form, acute respiratory distress syndrome (ARDS), is characterized by pulmonary edema and alveolar collapse leading to severe arterial hypoxemia. Although protective ventilatory support strategies have improved the prognosis of patients, the associated mortality remains unbearably high. Our interest is to characterize the pulmonary vascular inflammatory response associated with acute lung damage and the identification of therapeutic targets to improve the prognosis in these patients.
Our work focuses on analyzing the pathophysiological and therapeutic role of different signaling pathways in these pathologies: 1) Vitamin D and VDR signaling, 2) K + channels, 3) Endothelial progenitor cells

## Research lines

L1. Pulmonary vascular dysfunction in pulmonary hypertension (PH)
L2 Acute respiratory distress syndrome (ARDS)
L3 Pulmonary bronchodysplasia (BDP)

## Group members

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| BARREIRA | BARBA | BIANCA | Other | Research Support Technician |
| CALLEJO | ARRANZ | MARIA | R1 | First Stage Researcher |
| COGOLLUDO | TORRALBA | ÁNGEL | R3 | Established Researcher |
| ESQUIVEL | RUIZ | SERGIO ANTONIO | R1 | First Stage Researcher |
| MACÍAS | MONTERO | MIGUEL | R1 | First Stage Researcher |
| MONDEJAR | PARREÑO | GEMA | R1 | First Stage Researcher |
| MORENO | GUTIERREZ | LAURA | R3 | Established Researcher |
| OLIVENCIA | PLAZA | MIGUEL ÁNGEL | R1 | First Stage Researcher |
| PEREZ | VIZCAINO | FRANCISCO | R4 | Leading Researcher |

## Research Projects – Competitive Calls

- **Not managed by the FIBHGM**

TITLE: **Vitamina D en la hipertension pulmonar**. SAF2016-77222-R
DIRECTOR: PÉREZ VIZCAINO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: Plan Nacional de I+D (CICYT)
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Therapeutic potential of exosomes derived from mesenchymal stem cells and late endothelial progenitor cells in bronchopulmonary dysplasia and pulmonary hypertension**. PI15/01100
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2016
END DATE: 31/12/2019

TITLE: **Déficit de vitamina D en los pacientes con hipertensión pulmonar arterial y potencial valor terapéutico de la vitamina D como inhibidor de la proliferación de las células de músculo liso vascular arterial pulmonar.** Beca Actelion
PROJECT TYPE: Research project
FUNDING BODY: Fundación de Pacientes contra la Hipertensión
START DATE: 01/06/2017
END DATE: 31/05/2019

TITLE: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepáticas.** EXOHEP-CM S2017/BMD-3727
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2019

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others.)* | *Name of Network* | *Role* |
|---|---|---|
| CIBER | CIBERES (Enfermedades Respiratorias). CB06/06/1084 | Collaborating group |

## *Publications* *Total Impact Factor: **66.2***

| | Nº | FI |
|---|---|---|
| Own publications | 7 | 33.2 |
| Joint publications | 7 | 33.0 |
| First decile publications | 3 | 21.9 |
| First quartile publications | 11 | 57.8 |
| Second quartile publications | 3 | 8,. |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 0 | 0.0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **14** | **66.2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Mondejar-Parreno, G; Moral-Sanz, J; Barreira, B; De la Cruz, A; Gonzalez, T; Callejo, M; Esquivel-Ruiz, S; Morales-Cano, D; Moreno, L; Valenzuela, C; Perez-Vizcaino, F; Cogolludo, A. Activation of K(v)7 channels as a novel mechanism for NO/cGMP-induced pulmonary vasodilation. BRITISH JOURNAL OF PHARMACOLOGY. 2019; 176(13) 2131-2145. FI: 7.73. Cuartil: 1. (Article).*
- *Sanchez, M; Romero, M; Gomez-Guzman, M; Tamargo, J; Perez-Vizcaino, F; Duarte, J. Cardiovascular Effects of Flavonoids. CURRENT MEDICINAL CHEMISTRY. 2019; 26(39) 6991-7034. FI: 4.184. Cuartil: 1. (Review).*
- *Villamor, E; Moreno, L; Mohammed, R; Perez-Vizcaino, F; Cogolludo, A. Reactive oxygen species as mediators of oxygen signaling during fetal-to-neonatal circulatory transition. FREE RADICAL BIOLOGY AND MEDICINE. 2019; 142 82-96. FI: 6.17. Cuartil: 1. (Review).*
- *Cogolludo, A; Villamor, E; Perez-Vizcaino, F; Moreno, L. Ceramide and Regulation of Vascular Tone. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(2) -. FI: 4.556. Cuartil: 1. (Review).*
- *Mondejar-Parre?o, G; Callejo, M; Barreira, B; Morales-Cano, D; Esquivel-Ruiz, S; Filice, M; Moreno, L; Cogolludo, A; Perez-Vizcaino, F. miR-1 induces endothelial dysfunction in rat pulmonary arteries. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 2019; 75(4) 519-529. FI: 2.952. Cuartil: 2. (Article).*
- *Cunningham, KP; Holden, RG; Escribano-Subias, PM; Cogolludo, A; Veale, EL; Mathie, A. Characterization and regulation of wild-type and mutant TASK-1 two pore domain potassium channels indicated in pulmonary arterial hypertension. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(4) 1185-1197. FI: 4.547. Cuartil: 1. (Article).*

- *Mondejar-Parreno G; Callejo M; Barreira B; Morales-Cano D; Esquivel-Ruiz S; Moreno L; Cogolludo A; Perez-Vizcaino F. miR-1 is increased in pulmonary hypertension and downregulates Kv1.5 channels in rat pulmonary arteries. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(4) 1087-1101. FI: 4.547. Cuartil: 1. (Article).*
- *Kumar, R; Mickael, C; Kassa, B; Sanders, L; Koyanagi, D; Hemandez-Saavedra, D; Freeman, S; Morales-Cano, D; Cogolludo, A; McKee, AS; Fontenot, AP; Butrous, G; Tuder, RM; Graham, BB. Th2 CD4(+) T Cells Are Necessary and Sufficient for Schistosoma-Pulmonary Hypertension. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(15) -. FI: 4.605. Cuartil: 1. (Article).*
- *Alvarez-Cilleros, D; Lopez-Oliva, ME; Morales-Cano, D; Barreira, B; Perez-Vizcaino, F; Goya, L; Ramos, S; Martin, MA. Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. MOLECULAR NUTRITION & FOOD RESEARCH. 2019; 63(18) -. FI: 5.309. Cuartil: 1. (Article).*
- *Robles-Vera, I; Callejo, M; Ramos, R; Duarte, J; Perez-Vizcaino, F. Impact of Vitamin D Deficit on the Rat Gut Microbiome. NUTRIENTS. 2019; 11(11) -. FI: 4.546. Cuartil: 1. (Article).*
- *Alvarez-Fuente, M; Moreno, L; Mitchell, JA; Reiss, IK; Lopez, P; Elorza, D; Duijts, L; Avila-Alvarez, A; Arruza, L; Orellana, MR; Baraldi, E; Zaramella, P; Rueda, S; de Atauri, AGD; Guimaraes, H; Rocha, G; Proenca, E; Thebaud, B; del Cerro, MJ. Preventing bronchopulmonary dysplasia: new tools for an old challenge. PEDIATRIC RESEARCH. 2019; 85(4) 432-441. FI: 2.747. Cuartil: 1. (Review).*
- *Alvarez-Fuente, M; Moreno, L; Lopez-Ortego, P; Arruza, L; Avila-Alvarez, A; Muro, M; Gutierrez, E; Zozaya, C; Sanchez-Helguera, G; Elorza, D; Martinez-Ramas, A; Villar, G; Labrandero, C; Martinez, L; Casado, T; Cuadrado, I; del Cerro, MJ. Exploring clinical, echocardiographic and molecular biomarkers to predict bronchopulmonary dysplasia. PLOS ONE. 2019; 14(1) -. FI: 2.74. Cuartil: 2. (Article).*
- *Morales-Cano, D; Callejo, M; Barreira, B; Mondejar-Parreno, G; Esquivel-Ruiz, S; Ramos, S; Martin, MA; Cogolludo, A; Moreno, L; Perez-Vizcaino, F. Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*
- *Herrero, R; Prados, L; Ferruelo, A; Puig, F; Pandolfi, R; Guillamat-Prats, R; Moreno, L; Matute-Bello, G; Artigas, A; Esteban, A; Lorente, JA. Fas activation alters tight junction proteins in acute lung injury. THORAX. 2019; 74(1) 69-82. FI: 8.834. Cuartil: 1. (Article).*

# 7.31 Pathophysiology in women, pregnancy, labor, and puerperium

Group Director: **Santiago Lizarraga Bonelli and Juan Antonio de León Luis**
Organisms involved: **HGUGM**
**Emerging group**

## Research lines

L1: Role of the maternal, placental, and embryonic profile in maternal-perinatal morbidity and mortality
L2: Hemodynamic changes in adverse perinatal outcomes
L3: Cancer and pregnancy
L4: Algorithm for ultrasound examination of the extended fetal cardiovascular system
L5: Maternal-perinatal morbitidy and mortality in twin pregnancies
L6: Fetal surgery in the monochorionic pregnancy
L7: Care during labor and breastfeeding
L8: Maternal-neonatal morbidity and mortality during and after labor
L9: Role of female sex hormones on vaginal immunity
L10: Role of progesterone on development of melanoma
L11: Chemotherapy-induced ovarian failure
L12: Genomic predictors of response to therapy in breast cancer
L13: Prediction of response to taxane-based adjuvant chemotherapy in breast cancer
L14: Multimodal guidance and planning in breast cancer surgery
L15: Conservative and surgical treatment in gynecological disease

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| CABALLERO | CAMPO | MIGUEL | R2 | Recognised Researcher |
| CAMPOS | FERNANDEZ | RAUL | | |
| CEBALLOS | GARCÍA | ELENA | R1 | First Stage Researcher |
| COLLAZOS | BLANCO | ANA | | |
| DE LEÓN | LUIS | JUAN ANTONIO | R4 | Leading Researcher |
| GAMEZ | ALDERETE | FRANCISCO | R2 | Recognised Researcher |
| GARCÍA-TIZÓN | LARROCA | SANTIAGO | R1 | First Stage Researcher |
| LIZARRAGA | BONELLI | SANTIAGO | R4 | Leading Researcher |
| LLAMAS | SANTOS | LETICIA | R1 | First Stage Researcher I |
| MENDIZABAL | VICENTE | ELSA | R2 | Recognised Researcher |
| MERCADER | CIDONCHA | ENRIQUE | R1 | First Stage Researcher I |
| MORENO | MOLINERO | VERÓNICA | R1 | First Stage Researcher |
| MUÑOZ-CHAPULÍ | GUTIÉRREZ | MARIA MAR | R1 | First Stage Researcher |
| NAVARRO | GONZÁLEZ | TERESA | R1 | First Stage Researcher |
| PEREIRA | SÁNCHEZ | AUGUSTO | R2 | Recognised Researcher |
| PÉREZ | FERNÁNDEZ-PACHECO | RICARDO | R2 | Recognised Researcher a |
| PÉREZ | MILÁN | FEDERICO | R3 | Established Researcher |
| PINTADO | RECARTE | PILAR | R2 | Recognised Researcher |
| RELLOSO | CERECEDA | MIGUEL | R3 | Established Researcher |
| RUIZ | LABARTA | JAVIER | R1 | First Stage Researcher |
| TROBO | MARINA | DUNA | R1 | First Stage Researcher |
| VEIGA | FERNANDEZ | AMANDA | | |
| VIÑUELA | BENEITEZ | M DEL CARMEN | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Papel de la progesterona como inmunoactivador en la lucha contra las candidiasis vaginales y sistémicas: posible efecto antitumoral y sobre la implantación embrionaria**. PI16/00050
DIRECTOR: RELLOSO CERECEDA, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2019

TITLE: **Relación del fallo de implantacion embrionaria con la dosis de progesterona sérica** PEJ2018-003326-A
DIRECTOR: PÉREZ MILÁN, FEDERICO
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2019
END DATE: 31/12/2020

TITLE: **Young employement contract: Predoctoral** PEJD-2018-PRE/BMD-9513
DIRECTOR: PÉREZ MILÁN, FEDERICO
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERÍA DE EDUCACIÓN E INVESTIGACON. COMUNIDAD DE MADRID
START DATE: 01/01/2019
END DATE: 31/12/2020

## *Industrial and intellectual property registrations*

### *Industrial property*

| *Title* | *Reference** | *Owner* | *Inventors* |
|---|---|---|---|
| **Maqueta didáctica armable** | U201530218 | FIBHGM | Juan Antonio León |

Transferred patents

*** *Reference***: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trade mark)

### *Intellectual property*

| *Title* | *Reference* | *Owner* | *Inventors* |
|---|---|---|---|
| **Parto vaginal en 3D** | Nº Asiento Registral: 16 / 2019 / 2823 | FIBHGM | Juan Antonio de León |

## *Publications* — *Total Impact Factor: **23.2***

| | Nº | FI |
|---|---|---|
| Own publications | 5 | 10.3 |
| Joint publications | 3 | 12.9 |
| First decile publications | 2 | 8.4 |
| First quartile publications | 4 | 16.9 |
| Second quartile publications | 1 | 2.5 |
| Third quartile publications | 2 | 2.9 |
| Fourth quartile publications | 1 | 0,8 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **9** | **23.2** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Cidoncha, EM; Prats, IA; Cortes, JLE; Torrente, IG; Suh, H. Scarless neck thyroidectomy using bilateral axillo-breast approach: Initial impressions after introduction in a specialized unit and a review of the literature. CIRUGIA ESPANOLA. 2019; 97(2) 81-88. FI: 1.323. Cuartil: 3. (Review).*
- *Cuello, JP; Gines, MLM; Kuhle, J; Dominguez, JMG; Ros, AL; Delgado, FR; Higueras, Y; Rivera, AM; Briceno, HG; Larroca, SGT; De Leon-Luis, J; Michalak, Z; Barro, C; Lafuente, RA; Heras, SM; Velasco, JIF; Tejeda-Velarde, A; Dominguez-Mozo, MI; Muriel, A; de Andres, C; Villar, LM. Neurofilament light chain levels in pregnant multiple sclerosis patients: a prospective cohort study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(9) 1200-1204. FI: 4.516. Cuartil: 1. (Article).*
- *Prieto, LJ; Ruiz, Y; Perez, R; Luis, JD. Prenatal diagnosis of pericallosal lipoma: Systematic review. EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY. 2019; 23(6) 764-782. FI: 2.51. Cuartil: 2. (Review).*
- *Gomez-Hidalgo NR; Mendizabal E; Joigneau L; Pintado P; De Leon-Luis J. Breast cancer during pregnancy: results of maternal and perinatal outcomes in a single institution and systematic review of the literature. JOURNAL OF OBSTETRICS AND GYNAECOLOGY. 2019; 39(1) 27-35. FI: 0.807. Cuartil: 4. (Review).*
- *Trobo, D; Pintado, P; Ortega, V; Yllana, F; Hernandez, C; Mendizabal, R; De Leon-Luis, J. Maternal and perinatal outcomes in external cephalic version: prognostic factors for the success of the technique. JOURNAL OF PERINATAL MEDICINE. 2019; 47(7) 717-723. FI: 1.614. Cuartil: 3. (Article).*
- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*
- *Zvezdanova, ME; Escribano, P; Ruiz, A; Martinez-Jimenez, MC; Pelaez, T; Collazos, A; Guinea, J; Bouza, E; Rodriguez-Sanchez, B. Increased species-assignment of filamentous fungi using MALDI-TOF MS coupled with a simplified sample processing and an in-house library. MEDICAL MYCOLOGY. 2019; 57(1) 63-70. FI: 2.822. Cuartil: 1. (Article).*
- *Saccone, G; Berghella, V; Locci, M; Ghi, T; Frusca, T; Lanna, M; Faiola, S; Fichera, A; Prefumo, F; Rizzo, G; Bosi, C; Arduino, B; D'Alessandro, P; Borgo, M; Arduino, S; Cantanna, E; Simonazzi, G; Rizzo, N; Francesca, G; Seravalli, V; Miller, JL; Magro-Malosso, ER; Di Tommaso, M; Dall'Asta, A; Galli, L; Volpe, N; Visentin, S; Cosmi, E; Sarno, L; Caissutti, C; Driul, L; Anastasio, H; Di Mascio, D; Panici, PB; Vena, F; Brunelli, R; Ciardulli, A; D'Antonio, F; Schoen, C; Suhag, A; Maria, Z; Baz, MAA; Magoga, G; Busato, E; Filippi, E; Suarez, MJR; Alderete, FG; Ortuno, PA; Vitagliano, A; Mollo, A; Raffone, A; Vendola, M; Navaneethan, P; Wimalasundera, R; Napolitano, R; Aquino, CI; D'Agostino, S; Gallo, C; Maruotti, GM; Flacco, ME; Baschat, AA; Venturella, R; Guida, M; Martinelli, P; Zullo, F; Monomono Working Grp. Inpatient vs outpatient management and timing of delivery of uncomplicated monochorionic monoamniotic twin pregnancy: the MONOMONO study. ULTRASOUND IN OBSTETRICS & GYNECOLOGY. 2019; 53(2) 175-183. FI: 5.571. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Alfano, F; Fisac, JEO; Garcia-Sevilla, M; Conde, MH; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. PRONE TO SUPINE SURFACE BASED REGISTRATION WORKFLOW FOR BREAST TUMOR LOCALIZATION IN SURGICAL PLANNING. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).*

# 7.32 Physical medicine and rehabilitation

Group Director: **Pilar Crespo Cobo and Marta Supervía Pola**
Organisms involved: **HGUGM**
**Emerging group**



## Research lines

L1: Infant cardiac rehabilitation
L2: Infant spasticity
L3: Cerebral palsy
L4: Adult cardiac rehabilitation
L5: Exercise for cancer patients
L6: Exercise for children with cerebral palsy
L7: Exercise for patients with bronchiectasis
L8: Efficacy of microsurgical techniques in lymphedema
L9: Primary lymphedema
L10: Efficacy of Kinesio tape in lymphedema
L11: Speech therapy in patients undergoing intraoperative cortical mapping
L12: Efficacy of shock waves

## Group members

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| ARROYO | RIAÑO | Mª OLGA | R2 | Postdoctoral |
| CRESPO | COBO | PILAR | R4 | Senior researcher |
| GARCÍA | DELGADO | ISABEL | R2 | Postdoctoral |
| LÓPEZ | CHICHARRO | JOSÉ | R3 | Senior researcher |
| MORENO | PALACIOS | ANTONIO | R2 | Postdoctoral |
| PÉREZ | RUIZ | MARGARITA | R3 | Senior researcher |
| SUPERVIA | POLA | MARTA | R4 | Senior researcher |
| UBEDA | TIKKANEN | ANA | R4 | Senior researcher |

## Publications

Total Impact Factor: ***20.0***

| | Nº | IF |
|---|---|---|
| Own publications | 0 | 0.0 |
| Joint publications | 6 | 20.0 |
| First decile publications | 0 | - |
| First quartile publications | 2 | 11.1 |
| Second quartile publications | 2 | 6.5 |
| Third quartile publications | 0 | 0.0 |
| Fourth quartile publications | 2 | 2.5 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **9** | **20.0** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Heine, M; Turk-Adawi, K; Supervia, M; Derman, W; Lopez-Jimenez, F; Naidoo, P; Grace, SL. Cardiac rehabilitation delivery in Africa. CARDIOVASCULAR JOURNAL OF AFRICA. 2019; 30(3) 133-137. FI: 0.897. Cuartil: 4. (Editorial Material).*
- *Abreu, A; Pesah, E; Supervia, M; Turk-Adawi, K; Bjarnason-Wehrens, B; Lopez-Jimenez, F; Ambrosetti, M; Andersen, K; Giga, V; Vulic, D; Vataman, E; Gaita, D; Cliff, J; Kouidi, E; Yagci, I; Simon, A; Hautala, A; Tamuleviciute-Prasciene, E; Kemps, H; Eysymontt, Z; Farsky, S; Hayward, J; Prescott, E; Dawkes, S; Pavy, B; Kiessling, A; Sovova, E; Grace, SL; Global CR Program*

*Survey. Cardiac rehabilitation availability and delivery in Europe: How does it differ by region and compare with other high-income countries? Endorsed by the European Association of Preventive Cardiology. EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY. 2019; 26(11) 1131-1146. FI: 5.864. Cuartil: 1. (Article).*

- *Pesah, E; Turk-Adawi, K; Supervia, M; Lopez-Jimenez, F; Britto, R; Ding, RJ; Babu, A; Sadeghi, M; Sarrafzadegan, N; Cuenza, L; Santos, CA; Heine, M; Derman, W; Oh, P; Grace, SL. Cardiac rehabilitation delivery in low/middle-income countries. HEART. 2019; 105(23) 1806-1812. FI: 5.213. Cuartil: 1. (Article).*

- *Turk-Adawi, K; Supervia, M; Pesah, E; Lopez-Jimenez, F; Afaneh, J; El-Heneidy, A; Sadeghi, M; Sarrafzadegan, N; Alhashemi, M; Papasavvas, T; Grace, SL. Availability and delivery of cardiac rehabilitation in the Eastern Mediterranean Region: How does it compare globally?. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 285 147-153. FI: 3.229. Cuartil: 2. (Article).*

- *Moghei, M; Pesah, E; Turk-Adawi, K; Supervia, M; Jimenez, FL; Schraa, E; Grace, SL. Funding sources and costs to deliver cardiac rehabilitation around the globe: Drivers and barriers. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 276 278-286. FI: 3.229. Cuartil: 2. (Article).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*
-

***Publications of the main WOS collection in journals without impact factor:***

- *Roxburgh, BH; Supervia, M; Turk-Adawi, K; Benatar, JR; Jimenez, FL; Grace, SL. Nature and delivery of cardiac rehabilitation in New Zealand: are services equitable to other high-income countries?. NEW ZEALAND MEDICAL JOURNAL. 2019; 132(1496) 47-58. (Article).*

***Other publications***

- *Turk-Adawi K; Supervia M; Lopez-Jimenez F; Pesah E; Ding R; Britto RR; Bjarnason-Wehrens B; Derman W; Abreu A; Babu AS; Santos CA; Jong SK; Cuenza L; Yeo TJ; Scantlebury D; Andersen K; Gonzalez G; Giga V; Vulic D; Vataman E; Cliff J; Kouidi E; Yagci I; Kim C; Benaim B; Estany ER; Fernandez R; Radi B; Gaita D; Simon A; Chen SY; Roxburgh B; Martin JC; Maskhulia L; Burdiat G; Salmon R; Lomelí H; Sadeghi M; Sovova E; Hautala A; Tamuleviciute-Prasciene E; Ambrosetti M; Neubeck L; Asher E; Kemps H; Eysymontt Z; Farsky S; Hayward J; Prescott E; Dawkes S; Santibanez C; Zeballos C; Pavy B; Kiessling A; Sarrafzadegan N; Baer C; Thomas R; Hu D; Grace SL. Cardiac Rehabilitation Availability and Density around the Globe. ECLINICALMEDICINE. 2019; 13 31-45. (Article)*

- *. Supervia M; Turk-Adawi K; Lopez-Jimenez F; Pesah E; Ding R; Britto RR; Bjarnason-Wehrens B; Derman W; Abreu A; Babu AS; Santos CA; Jong SK; Cuenza L; Yeo TJ; Scantlebury D; Andersen K; Gonzalez G; Giga V; Vulic D; Vataman E; Cliff J; Kouidi E; Yagci I; Kim C; Benaim B; Estany ER; Fernandez R; Radi B; Gaita D; Simon A; Chen SY; Roxburgh B; Martin JC; Maskhulia L; Burdiat G; Salmon R; Lomelí H; Sadeghi M; Sovova E; Hautala A; Tamuleviciute-Prasciene E; Ambrosetti M; Neubeck L; Asher E; Kemps H; Eysymontt Z; Farsky S; Hayward J; Prescott E; Dawkes S; Santibanez C; Zeballos C; Pavy B; Kiessling A; Sarrafzadegan N; Baer C; Thomas R; Hu D; Grace SL. Nature of Cardiac Rehabilitation Around the Globe. ECLINICALMEDICINE. 2019; 13 46-56. (Article*

# NURSING CARE RESEARCH GROUP

Coordinator: **Ana García Pozo**

## *Description of the research group*

Research on the care provided by the nursing group is beginning to generate a large number of major, mainly joint projects. Some of these projects are funded with other nursing groups from other hospitals in the Comunidad de Madrid, the Universidad Complutense de Madrid (UCM), Universidad Rey Juan Carlos (URJC), and Universidad Autonoma de Madrid (UAM). These projects are integrated in the research line of health services and care.
The group is composed of nurses from all professional areas (care, teaching, and management), of whom a large number are lecturers at UCM, URJC and UAM.
Its organizational structure is unique in the Madrid health area, in that it provides support and advice and promotes research in nursing through the Unidad de Apoyo a la Investigación de Enfermería (UAIE [Nursing Research Support Unit]).
The group has a strong certified research training plan for nurses and nursing trainees. Similarly, the group runs a large number of activities to promote research, such as one-day courses, prizes for research, and access to documentary and research resources

## *Research lines*

Axis 1: Nursing care.
- Line 1: Care for chronically ill patients
- Line 2: Care for critically ill patients
- Line 3: Physiotherapy and rehabilitation
- Line 4: Patient Safety

Axis 2: Innovation in health care and services
- Line 1: Development of applications and patents
- Line 2: Advanced practice
- Line 3: Design and validation of measuring instruments

Axis 3: Management of human resources
- Line 1: Professional skills and competence
- Line 2: Evaluation and measurement of nursing care time
- Line 3: Occupational health and work environment

## *Group members*

| *Surname* | | *Name* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|
| CALDERARI | FERNÁNDEZ | ELENA | R2 | Recognised Researcher |
| CID | EXPOSITO | GEMA | R2 | Recognised Researcher |
| CORRAL | LIRIA | INMACULADA | R2 | Recognised Researcher |
| DE LAS POZAS | ABRIL | JULIA | R1 | First Stage Researcher |
| DURANGO | LIMÁRQUEZ | MARÍA ISABEL | R1 | First Stage Researcher |
| FERNANDEZ | ARRANZ | JULITA | R2 | Recognised Researcher |
| FERNANDEZ | BLANCO | RAQUEL | R2 | Recognised Researcher |
| GARCIA | PEREA | EVA | R2 | Recognised Researcher |
| GARCIA | POZO | ANA MARIA | R4 | Leading Researcher |
| GONZALEZ | BAZ | MARIA DOLORES | R1 | First Stage Researcher |
| GONZÁLEZ | LLUVA | CONCEPCIÓN | R1 | First Stage Researcher |
| GUERRA | SÁNCHEZ | LUIS | R2 | Recognised Researcher |
| GUERRERO | MARQUEZ | GLORIA | R1 | First Stage Researcher |
| GUIJARRO | JIMENEZ | ESTHER | R1 | First Stage Researcher |
| LOBO | RODRIGUEZ | CARMEN | R2 | Recognised Researcher |
| LOPEZ | SANCHEZ | RAQUEL | R2 | Recognised Researcher |
| LUENGO | GONZALEZ | RAQUEL | R2 | Recognised Researcher |
| MARTÍN | FERNÁNDEZ | MILAGROS | R1 | First Stage Researcher |

| Surname | | Name | Euraxess Profile | Role |
|---|---|---|---|---|
| MARTÍNEZ | CASTELLANOS | TERESA | R1 | First Stage Researcher |
| MEDINA | TORRES | MARGARITA | R1 | First Stage Researcher |
| MORO | TEJEDOR | MARÍA NIEVES | R2 | Recognised Researcher |
| OLTRA | RODRIGUEZ | ENRIQUE | R2 | Recognised Researcher |
| PALACIOS | CEÑA | DOMINGO | R3 | Established Researcher |
| PASCUAL | FERNÁNDEZ | CRISTINA | R2 | Recognised Researcher |
| PEÑA | GRANGER | MARIA DE LAS MERCEDES | R1 | First Stage Researcher |
| PEÑA | OTERO | DAVID | R2 | Recognised Researcher |
| RAMASCO | GUTIERREZ | MILAGROS | R2 | Recognised Researcher |
| RECIO | VIVAS | ANA MARIA | R2 | Recognised Researcher |
| ROBLEDO | MARTIN | JUANA | R2 | Recognised Researcher |
| SOTO | LUCIA | MARÍA CONSUELO | R1 | First Stage Researcher |
| SUAREZ | BUSTAMANTE | ROSA | R1 | First Stage Researcher |
| TORAÑO | OLIVERA | Mª JOSÉ | R1 | First Stage Researcher |
| TRUJILLO | GALLEGO | FERNANDO | R1 | First Stage Researcher |
| VAQUERO | LOZANO | MARIA PAZ | R1 | First Stage Researcher |
| VELARDE | GARCIA | JUAN FRANCISCO | R2 | Recognised Researcher |
| VISIERS | JIMENEZ | LAURA | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

TITLE: **Efectividad de una intervención precoz en el diagnóstico y tratamiento de la hiponatremia para la prevención de caidas en pacientes hospitalizados**. FMM14/09
DIRECTOR: CARMEN LOBO RODRIGUEZ
PROJECT TYPE: Research project
FUNDING BODY: MUTUA MADRILEÑA FOUNDATION
START DATE: 26/09/2014
END DATE: 24/07/2019

## *Cooperative Research Structures*

| Type (RETIC, CIBER, others.) | Name of Network | Role |
|---|---|---|
| Plataforma ISCIII | Plataforma Española de Ensayos clínicos SCReN | Collaborating group |

## *Industrial and intellectual property registrations*

### *Intellectual property*

| Title | Reference | Owner | Inventors |
|---|---|---|---|
| Nos vamos de excursión a las Urgencias del Gregorio Marañón | Nº Asiento Registral: 16/2016/3799 | FIBHGM | Laura Cervantes<br>Paula Vázquez<br>David García |

## *Doctoral theses, Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Master Thesis | SUSANA ARIAS RIVERA | Adaptación y validación de escalas de fragilidad en pacientes críticos ingresados en unidades de | MARÍA NIEVES MORO TEJEDOR | URJC | 15/07/2019 |

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| | | cuidados intensivos de España | | | |
| Master Thesis | | PERCEPCIÓN DEL AMBIENTE EDUCACIONAL DE LOS ESTUDIANTES DE ENFERMERÍA DURANTE SU PERIODO DE PRÁCTICAS ASISTENCIALES | MARIA DOLORES GONZALEZ BAZ | UCM | 10/06/2019 |
| Bachelor Thesis | | PLAN DE CUIDADOS ESTANDARIZADO: PACIENTE HOSPITALIZADO CON CRISIS MIASTÉNICA | MARIA DOLORES GONZALEZ BAZ | UCM | 03/06/2019 |
| Bachelor Thesis | | REVISIÓN BIBLIOGRÁFICA DE LA ATENCIÓN AL PACIENTE CON DELIRIUM | MARIA DOLORES GONZALEZ BAZ | UCM | 04/06/2019 |
| Bachelor Thesis | | La enfermera escolar: situación actual y necesidades de la población infantil | RAQUEL LOPEZ SANCHEZ | UNIVERSIDAD DE OVIEDO | 18/11/2019 |
| Bachelor Thesis | | Cuidados de enfermería en el paciente oncológico pediátrico y la integración de la terapia asistida con animales | RAQUEL LOPEZ SANCHEZ | UNIVERSIDAD DE OVIEDO | 17/07/2019 |
| Bachelor Thesis | | La función de la enfermera en el proceso de triaje | RAQUEL LOPEZ SANCHEZ | UNIVERSIDAD DE OVIEDO | 17/07/2019 |

## *Publications* *Total Impact Factor: **8.5***

| | Nº | FI |
|---|---|---|
| Own publications | 3 | 5.5 |
| Joint publications | 2 | 2.9 |
| First decile publications | 0 | - |
| First quartile publications | 1 | 2.8 |
| Second quartile publications | 0 | 0.0 |
| Third quartile publications | 1 | 1.3 |
| Fourth quartile publications | 3 | 4.3 |
| Nonindexed publications / No IF | 5 | - |
| **Total publications (including those without IF)** | **10** | **8.5** |

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Miguez Navarro C; Oikonomopoulou N; Rivas Garcia A; Mora Capin A; Guerrero Marquez G; en representación del Grupo de Analgesia y Sedación de la Sociedad Española de U. Efficacy, safety and satisfaction of sedation-analgesia in Spanish emergency departments. ANALES DE PEDIATRIA. 2019; 90(1) 32-41. FI: 1.313. Cuartil: 3. (Article).*
- *Sanchez-Camarero, C; Ortega-Santiago, R; Arias-Horcajadas, F; Madoz-Gurpide, A; Miangolarra-Page, JC; Palacios-Cena, D. Altered fine motor control and manual dexterity in people with cocaine dependence: An observational study. AUSTRALIAN OCCUPATIONAL THERAPY JOURNAL. 2019; 66(3) 304-312. FI: 1.055. Cuartil: 4. (Article).*
- *Alvarez-Villarreal, M; Velarde-Garcia, JF; Chocarro-Gonzalez, L; Perez-Corrales, J; Gueita-Rodriguez, J; Palacios-Cena, D. Body Changes and Decreased Sexual Drive after Dialysis: A Qualitative Study on the Experiences of Women at an Ambulatory Dialysis Unit in Spain. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2019; 16(17) -. FI: 2.849. Cuartil: 1. (Article).*
- *Bailen, R; Perez-Corral, AM; Pascual, C; Kwon, M; Serrano, D; Gayoso, J; Balsalobre, P; Muñoz C; Diez-Martin, JL; Anguita, J. Factors predicting peripheral blood progenitor cell mobilization in healthy donors in the era of related alternative donors: Experience from a single center. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 359-366. FI: 1.629. Cuartil: 4. (Article).*

- *Pascual, C; Gonzalez-Arias, E; Perez-Corral, AM; Bailen, R; Gayoso, J; Besson, N; Serrano, D; Kwon, M; Anguita, J; Diez-Martin, JL. Mononuclear cell collection for extracorporeal photopheresis by using the "off-line" system: A comparative study between COBE Spectra and Spectra Optia devices. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 373-380. FI: 1.629. Cuartil: 4. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Sanchez, LG; Flores, MF; Cirujano, ML; Castano, V; Rincon, M. Nutritional intervention in patients with heart failure. 3 month results of a clinical trial. NUTRICION CLINICA Y DIETETICA HOSPITALARIA. 2019; 39(1) 22-31. (Article).*

***Other publications***

- *Osorio Álvarez S; Riestra Rodríguez MDR; López Sánchez R; Alonso Pérez F; Oltra Rodríguez E. Type 1 diabetes mellitus prevalence and care in children under 15 years old in Asturias. ENDOCRINOLOGIA, DIABETES Y NUTRICION. 2019; 66(3) 188-194. (Article).*
- *Visiers Jimnénez, Laura; Peña Otero, David; Baeza Monedero, Isabel; Recio Vivas, Ana María; Kajander Unkuri, Satu; GARCIA, A. Evaluación de competencias entre los profesionales formados en España. Validación al castellano de la escala Nursing Competence Scale. INDEX DE ENFERMERIA. 2019; (25 (1)) -. (Article).*
- *MORO, M. Actualización Bibliográfica. REVISTA DE ENFERMERÍA Y SALUD MENTAL. 2019; 13 33-35. (Article).*
- *Peña-Otero D; Eguillor-Mutiloa M; Moro-Tejedor MN; Medina-Torres M; García-Pozo A. PREVENTION OF PRESSURE ULCERS IN NASAL BRIDGE DURING NON-INVASIVE MECHANICAL VENTILATION. DISCUSSION OF RESULTS. ULSTER MED J. 2019; 88(3) 183-183. (Letter).*

# 5. OTHER RESEARCH ACTIVITIES

## *Publications generated by **clinical researchers associated** with the IiSGM*



***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Mu?oz, M; Anton, A; Castany, M; Gil, A; Martinez, A; Mu?oz-Negrete, FJ; Urcelay, J; Moreno-Monta?es, J. The EX-PRESS glaucoma shunt versus nonpenetrating deep sclerectomy with Esnoper implant in combined surgery for open-angle glaucoma: a prospective randomized study. ACTA OPHTHALMOLOGICA. 2019; 97(7) 952-961. FI: 3.362. Cuartil: 1. (Article).*
- *Gonzalez, E; Arias, F; Szerman, N; Vega, P; Mesias, B; Basurte, I. Coexistence between personality disorders and substance use disorder. Madrid study about prevalence of dual pathology. ACTAS ESPANOLAS DE PSIQUIATRIA. 2019; 47(6) 218-228. FI: 1.681. Cuartil: 3. (Article).*
- *Lloret-Dura, MA; Panach-Navarrete, J; Martinez-Jabaloyas, JM; Valls-Gonzalez, L; Cozar-Olmo, JM; Minana-Lopez, B; Gomez-Veiga, F; Rodriguez-Antolin, A; Grp Espanol Canc Prostata. Factors related to early castration resistance in metastatic prostate cancer. Results from the National Prostate Cancer Registry in Spain. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(6) 305-313. FI: 0.873. Cuartil: 4. (Article).*
- *Subira-Rios, D; Herranz-Amo, F; Renedo-Villar, T; Moralejo-Garate, M; del Pozo-Jimenez, G; Bueno-Chomon, G; Rodriguez-Fernandez, E; Moncada-Iribarren, I; Hernandez-Fernandez, C. Influence of laparoscopic access in cancer-specific mortality of patients with pTa-2pN0R0 bladder cancer treated with radical cistectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).*
- *Subira-Rios, D; Herranz-Amo, F; Moralejo-Garate, M; Cano-Velasco, J; Renedo-Villar, T; Barbas-Bernardos, G; Bueno-Chomon, G; Rodriguez-Fernandez, E; Hernandez-Fernandez, C. Post-surgical complications in patients with bladder cancer treated with cystectomy: Differences between open and laparoscopic approach. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 228-233. FI: 0.873. Cuartil: 4. (Article).*
- *Garcia, LE; Gonzalez, J; Serena, G; Al-Nuss, MA; Morsi, M; DeFaria, W; Ciancio, G. Donor vascular patch for reconstruction of the aorta and inferior vena cava in pediatric en bloc kidney transplantation. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 241-247. FI: 0.873. Cuartil: 4. (Article).*
- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernandez, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(10) 562-567. FI: 0.873. Cuartil: 4. (Article).*
- *Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernandez, CH. Effectiveness of the "cognitive" biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(9-10) 515-516. FI: 0.873. Cuartil: 4. (Letter).*
- *Fernandez-Bautista B; Hernandez, AP; Rodriguez, RO; Lucena, LB; Madero, JMA. Endourological treatment of symptomatic ureteral stump posnephrectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 39-43. FI: 0.873. Cuartil: 4. (Article).*
- *Gonzalez-Alvarez, S; Madoz-Gurpide, A; Parro-Torres, C; Hernandez-Huerta, D; Mangado, EO. Relationship between alcohol consumption, whether linked to other substance use or not, and antiretroviral treatment adherence in HIV plus patients. ADICCIONES. 2019; 31(1) 8-17. FI: 3.167. Cuartil: 1. (Article).*
- *de Pablo, GS; Serrano, JDV; Vallejo, SG; Cerezo, JS; Ruiz, CM. Applications of Developmental Psychopathology. ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY. 2019; 1192 429-451. FI: 2.45. Cuartil: 2. (Article).*
- *Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; Lopez-Fernandez, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Diez-Martin, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).*
- *Oikonomopoulou, N; Miguez-Navarro, C; Rivas-Garcia, A; Gamiz, MG; Lopez-Lopez, R; Oliver-Saez, P; Riano-Mendez, B; Farfan-Orte, T; Lobato-Salinas, Z; Rubies-Olives, J; Llena-Isla, P; Lancho-Monreal, EM; Spanish Soc Pediat Emergencies RI. Assessment of proadrenomedullin as diagnostic or prognostic biomarker of acute appendicitis in children with acute abdominal pain. AMERICAN JOURNAL OF EMERGENCY MEDICINE. 2019; 37(7) 1289-1294. FI: 1.911. Cuartil: 2. (Article).*
- *Lopez-Abente, J; Bernaldo-de-Quiros, E; Camino, M; Gil, N; Panadero, E; Campos-Dominguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).*
- *Segovia, AC; Ledesma, CC; Blazquez, ML; Perez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 91(4) 228-236. FI: 1.313. Cuartil: 3. (Article).*

- *Perez-Moreno, J; Leal-Barcelo, AM; Isidro, EM; Toledo-del Castillo, B; Gonzalez-Martinez, F; Gonzalez-Sanchez, M; Rodriguez-Fernandez, R. Detection of risk factors for preventable paediatric hospital readmissions. ANALES DE PEDIATRIA. 2019; 91(3) 180-188. FI: 1.313. Cuartil: 3. (Article).*

- *Moreno, JP; Navazo, SD; Arteta, ELH; Hernani, MT; Martinez, FG; Sanchez, MIG; Fernandez, RR. Influence of nutritional status on clinical outcomes in hospitalised children. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).*

- *Tunas, MCA; Orive, FJP; Merino, ER; Cid, JLH; Martin, GM; Casas, PG; Gonzalez, AH; Fraga, CR; Galan, CR; Rodriguez, MRR; Rastrollo, RH; Carrion, FF; Nunez, AR; MOMUCIP RETROSPECTIVE Working Grp. Modes of dying of children in Intensive Care Units in Spain: MOMUCIP study. ANALES DE PEDIATRIA. 2019; 91(5) 328-335. FI: 1.313. Cuartil: 3. (Article).*

- *Arteta, ELH; Rivero, PA; Ros, MIM; Dominguez, MC. Isolated skin lesions in a neonate: A caseof congenital Langerhans cell histiocytosis. ANALES DE PEDIATRIA. 2019; 90(4) -. FI: 1.313. Cuartil: 3. (Article).*

- *Fernandez, LE; Gongora, AC; Lopez, MV; Arrondo, APP; Herrero, MCM; Valderrama, EB; de Castro, PC. Continuous spike-waves during slow-wave sleep: Experience during 20 years. ANALES DE PEDIATRIA. 2019; 90(6) 408-409. FI: 1.313. Cuartil: 3. (Letter).*

- *Gartner, S; Mondejar-Lopez, P; de la Cruz, OA; Alonso, MJ; Alvarez, M; Martin, AA; de Aguero, MIBG; Perez, MJC; Aguilera, PC; Roig, MC; Aznar-Perez, IC; Colomer, JC; Pecellin, ID; Montaner, AE; Mulet, JF; Hernandez, GG; Guayarte, P; Ortega, DG; Pastrana, DG; Ferreiro, AL; Soria, JLM; de Vicente, CM; Merino, MN; Hernandez, CO; Frias, JP; Ruiz, EP; Amigo, SR; Posadas, AS; Sanchez-Solis, M; Gomez, JS; Cordero, CV; Asensi, JRV; Soc Espanola Neumologia Pediat. Follow-up protocol of patients with cystic fibrosis diagnosed by newborn screening. ANALES DE PEDIATRIA. 2019; 91(6) 365-370. FI: 1.313. Cuartil: 3. (Article).*

- *Sanz, MJM; Mateo, CS; Lopez, BS; Huelva, PA; Perez, LA; Sardan, JB; Barca, OB; Pena, CC; Rivero, JC; Marin, RDB; Moreno, TDS; Forteza, OD; Jaen, AF; Semino, IF; Herraez, DF; Sanchez, FJG; Tellez, JMG; Sanchez, JAG; Vicente, BG; Martinez, MH; Paton, AH; Elvira, MLJ; Cabeza, FJL; Ibanez, MJL; Garrido, MM; Dieguez, IM; Spohring, CM; Moyano, SM; Castro, JAM; Toppi, RAM; Tamarit, LM; Romero, JJM; Garcia, EO; Aguirresarube, CODZ; Sanchez, TP; Puey, AP; Gonzalez, BP; Pelaez, JC; Eguiagaray, IP; Dieguez, BP; Arrebola, ER; Cascajo, ARS; Escobar, HR; Moya, JR; Lozano, MJR; Ruiz, MAS; del Castillo, CSG; Montserrat, JMS; Moreira, RV; Gomez, MV; Representacion Grp Invest Estudio. Assessment of comorbidity and social anxiety in adolescents with attention deficit hyperactivity disorder: the SELFIE study. ANALES DE PEDIATRIA. 2019; 91(5) 296-306. FI: 1.313. Cuartil: 3. (Article).*

- *Martinez, DM; Aguilera-Alonso, D; Mancebo, JG; Navarro, ML; Sampelayo, TH; Lopez, EMR; Santiago-Garcia, B; Saavedra-Lozano, J; Santos, M; Cercenado, E; Representation Grp Estudio Enferme. Invasive meningococcal disease in children and adults in a tertiary level hospital. Recent epidemiology and prognostic factors. ANALES DE PEDIATRIA. 2019; 90(6) 349-361. FI: 1.313. Cuartil: 3. (Article).*

- *Martin-Oviedo C; Maranillo E; Sanudo JR; Perez-Lloret P; Verdu E; Martinez-Guirado T; Alvarez-Montero O; Martin-Zarco, JMG; Vazquez T. The Human Laryngeal Innervation Revisited-The Role of the Neural Connections. ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. 2019; 302(4) 646-651. FI: 1.634. Cuartil: 3. (Article).*

- *Aristegui, M; Martin-Oviedo, C; Aristegui, I; Garcia-Leal, R; Ruiz-Juretschke, F. Anatomical Variations of the Intrapetrous Portion of the Facial Nerve. ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. 2019; 302(4) 639-645. FI: 1.634. Cuartil: 3. (Article).*

- *Ruiz-Juretschke F; Gonzalez-Quarante LH; Garcia-Leal R; de Vega, VM. Neurovascular Relations of the Trigeminal Nerve in Asymptomatic Individuals Studied with High-Resolution Three-Dimensional Magnetic Resonance Imaging. ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. 2019; 302(4) 588-598. FI: 1.634. Cuartil: 3. (Article).*

- *Garutti, I; Rancan, L; Abubakra, S; Simon, C; Paredes, SD; Ortega, J; Huerta, L; Ramos, S; Vara, E. Effects of Intraoperative Infusion of Esmolol on Systemic and Pulmonary Inflammation in a Porcine Experimental Model of Lung Resection Surgery. ANESTHESIA AND ANALGESIA. 2019; 129(1) 63-72. FI: 4.305. Cuartil: 1. (Article).*

- *Zaballos, M; Callejo, D; Sevilla, R; Quintela, O; Lopez-Menchaca, R; Melone, A; Varela, O; Anadón Baselga MJ; Almendral, J. Comparative Effects of Sodium Bicarbonate and Intravenous Lipid Emulsions on Reversing Bupivacaine-Induced Electrophysiological Toxicity in a Porcine Experimental Model. ANESTHESIA AND ANALGESIA. 2019; 128(1) 168-175. FI: 4.305. Cuartil: 1. (Article).*

- *Pham, T; Neto, AS; Pelosi, P; Laffey, JG; De Haro, C; Lorente, JA; Bellani, G; Fan, E; Brochard, LJ; Pesenti, A; Schultz, MJ; Artigas, A; Laffey, JG; Brochard, L; Esteban, A; Gattinoni, L; van Haren, F; Larsson, A; McAuley, DF; Ranieri, M; Rubenfeld, G; Thompson, BT; Wrigge, H; Slutsky, AS; Rios, F; Van Haren, F; Sottiaux, T; Depuydt, P; Lora, FS; Azevedo, LC; Bugedo, G; Qiu, HB; Gonzalez, M; Silesky, J; Cerny, V; Nielsen, J; Jibaja, M; Matamis, D; Ranero, JL; Amin, P; Hashemian, SM; Clarkson, K; Kurahashi, K; Villagomez, A; Zeggwagh, AA; Heunks, LM; Laake, JH; Palo, JE; Fernandes, AD; Sandesc, D; Arabi, Y; Bumbasierevic, V; Lorente, JA; Piquilloud, L; Abroug, F; McNamee, L; Hurtado, J; Bajwa, E; Dempaire, G; Sula, H; Nunci, L; Cani, A; Zazu, A; Dellera, C; Insaurralde, CS; Alejandro, RV; Daldin, J; Vinzio, M; Fernandez, RO; Cardonnet, LP; Bettini, LR; Bisso, MC; Osman, EM; Setten, MG; Lovazzano, P; Alvarez, J; Villar, V; Pozo, NC; Grubissich, N; Plotnikow, GA; Vasquez, DN; Ilutovich, S; Tiribelli, N; Chena, A; Pellegrini, CA; Saenz, MG; Estenssoro, E; Brizuela, M; Gianinetto, H; Gomez, PE; Cerrato, VI; Bezzi, MG; Borello, SA; Loiacono, FA; Fernandez, AM; Knowles, S; Reynolds, C; Inskip, DM; Miller, JJ; Kong, J; Whitehead, C; Bihari,*

S; Seven, A; Krstevski, A; Rodgers, HJ; Millar, RT; Mckenna, TE; Bailey, IM; Hanlon, GC; Aneman, A; Lynch, JM; Azad, R; Neal, J; Woods, PW; Roberts, BL; Kol, MR; Wong, HS; Riss, KC; Staudinger, T; Wittebole, X; Berghe, C; Bulpa, PA; Dive, AM; Verstraete, R; Lebbinck, H; Vermassen, J; Meersseman, P; Ceunen, H; Rosa, JI; Beraldo, DO; Piras, C; Rampinelli, AM; Nassar, AP; Mataloun, S; Moock, M; Thompson, MM; Goncalves, CH; Antonio, ACP; Ascoli, A; Biondi, RS; Fontenele, DC; Nobrega, D; Sales, VM; Abul Wahab, AYBJ; Ismail, M; Shindhe, S; Laffey, J; Beloncle, F; Davies, KG; Cirone, R; Manoharan, V; Ismail, M; Goligher, EC; Jassal, M; Nishikawa, E; Javeed, A; Curley, G; Rittayamai, N; Parotto, M; Ferguson, ND; Mehta, S; Knoll, J; Pronovost, A; Canestrini, S; Bruhn, AR; Garcia, PH; Aliaga, FA; Farias, PA; Yumha, JS; Ortiz, CA; Salas, JE; Saez, AA; Vega, LD; Labarca, EF; Martinez, FT; Carreno, NG; Lora, P; Liu, HT; Liu, L; Tang, R; Luo, XM; An, YZ; Zhao, HY; Gao, Y; Zhai, Z; Ye, ZL; Wang, W; Li, WW; Li, QD; Zheng, RQ; Yu, WK; Shen, JH; Li, XY; Yu, T; Lu, WH; Wu, YQ; Huang, XB; He, ZY; Lu, YH; Han, H; Zhang, F; Sun, RH; Wang, HX; Qin, SH; Zhu, BH; Zhao, J; Liu, J; Li, B; Liu, JL; Zhou, FC; Li, QJ; Zhang, XY; Zhou, LX; Qiang, XH; Jiang, LY; Gao, YN; Zhao, XY; Li, YY; Li, XL; Wang, CT; Yao, QC; Yu, RG; Chen, K; Shao, HZ; Qin, BY; Huang, QQ; Zhu, WH; Hang, AY; Hua, MX; Li, YM; Xu, YH; Di, YD; Ling, LL; Qin, TH; Wang, SH; Qin, JP; Han, Y; Zhou, SM; Vargas, MP; Jimenez, JIS; Rojas, MAG; Solis-Quesada, JE; Ramirez-Alfaro, CM; Maca, J; Sklienka, P; Gjedsted, J; Christiansen, A; Villamagua, BG; Llano, M; Burtin, P; Buzancais, G; Beuret, P; Pelletier, N; Mortaza, S; Mercat, A; Chelly, J; Jochmans, S; Terzi, N; Daubin, C; Carteaux, G; de Prost, N; Chiche, JD; Daviaud, F; Fartoukh, M; Barberet, G; Biehler, J; Dellamonica, J; Doyen, D; Arnal, JM; Briquet, A; Hraiech, S; Papazian, L; Follin, A; Roux, D; Messika, J; Kalaitzis, E; Dangers, L; Combes, A; Au, SM; Beduneau, G; Carpentier, D; Zogheib, EH; Dupont, H; Ricome, S; Santoli, FL; Besset, SL; Michel, P; Gelee, B; Danin, PE; Goubaux, B; Crova, PJ; Phan, NT; Berkelmans, F; Badie, JC; Tapponnier, R; Gally, J; Khebbeb, S; Herbrecht, JE; Schneider, F; Declercq, PLM; Rigaud, JP; Duranteau, J; Harrois, A; Chabanne, R; Marin, J; Bigot, C; Thibault, S; Ghazi, M; Boukhazna, M; Zein, SO; Richecoeur, JR; Combaux, DM; Grelon, F; Le Moal, C; Sauvadet, EP; Robine, A; Lemiale, V; Reuter, D; Dres, M; Demoule, A; Goldgran-Toledano, D; Baboi, L; Guerin, C; Lohner, R; Krassler, J; Schafer, S; Zacharowski, KD; Meybohm, P; Reske, AW; Simon, P; Hopf, HBF; Schuetz, M; Baltus, T; Papanikolaou, MN; Papavasilopoulou, TG; Zacharas, GA; Ourailogloy, V; Mouloudi, EK; Massa, EV; Nagy, EO; Stamou, EE; Kiourtzieva, EV; Oikonomou, MA; Avila, LE; Cortez, CA; Citalan, JE; Jog, SA; Sable, SD; Shah, B; Gurjar, M; Baronia, AK; Memon, M; Muthuchellappan, R; Ramesh, VJ; Shenoy, A; Unnikrishnan, R; Dixit, SB; Rhayakar, RV; Ramakrishnan, N; Bhardwaj, VK; Mahto, HL; Sagar, SV; Palaniswamy, V; Ganesan, D; Hashemian, SM; Jamaati, H; Heidari, F; Meaney, EA; Nichol, A; Knapman, KM; O'Croinin, D; Dunne, ES; Breen, DM; Clarkson, KP; Jaafar, RF; Dwyer, R; Amir, F; Ajetunmobi, OO; O'Muircheartaigh, AC; Black, CS; Treanor, N; Collins, DV; Altaf, W; Zani, G; Fusari, M; Spadaro, S; Volta, CA; Graziani, R; Brunettini, B; Palmese, S; Formenti, P; Umbrello, M; Lombardo, A; Pecci, E; Botteri, M; Savioli, M; Protti, A; Mattei, A; Schiavoni, L; Tinnirello, A; Todeschini, M; Giarratano, A; Cortegiani, A; Sher, S; Rossi, A; Antonelli, MM; Montini, LM; Casalena, P; Scafetti, S; Panarello, G; Occhipinti, G; Patroniti, N; Pozzi, M; Biscione, RR; Poli, MM; Raimondi, F; Albiero, D; Crapelli, G; Beck, E; Pota, V; Schiavone, V; Molin, A; Tarantino, F; Monti, G; Frati, E; Mirabella, L; Cinnella, G; Fossali, T; Colombo, R; Pattarino, PTI; Mojoli, F; Braschi, A; Borotto, EE; Cracchiolo, AN; Palma, DM; Raponi, F; Foti, G; Vascotto, ER; Coppadoro, A; Brazzi, L; Floris, L; Iotti, GA; Venti, A; Yamaguchi, O; Takagi, S; Maeyama, HN; Watanabe, E; Yamaji, Y; Shimizu, K; Shiozaki, K; Futami, S; Ryosuke, S; Saito, K; Kameyama, Y; Ueno, K; Izawa, M; Okuda, N; Suzuki, H; Harasawa, T; Nasu, M; Takada, T; Ito, F; Nunomiya, S; Koyama, K; Abe, T; Andoh, K; Kusumoto, K; Hirata, A; Takaba, A; Kimura, H; Matsumoto, S; Higashijima, U; Honda, H; Aoki, N; Imai, H; Ogino, Y; Mizuguchi, I; Ichikado, K; Nitta, K; Mochizuki, K; Hashida, T; Tanaka, H; Nakamura, T; Niimi, D; Ueda, T; Kashiwa, Y; Uchiyama, A; Sabelnikovs, O; Oss, P; Haddad, Y; Liew, KY; Namendys-Silva, SA; Jarquin-Badiola, YD; Sanchez-Hurtado, LA; Gomez-Flores, SS; Marin, MC; Villagomez, AJ; Lemus, JS; Fierro, JM; Cervantes, MR; Mejia, FJF; Dector, D; Rojas, A; Gonzalez, DR; Estrella, CR; Sanchez-Medina, JR; Ramirez-Gutierrez, A; George, FG; Aguirre, JS; Buensuseso, JA; Poblano, M; Dendane, T; Balkhi, H; Elkhayari, M; Samkaoui, N; Ezzouine, H; Benslama, A; Amor, M; Maazouzi, W; Cimic, N; Beck, O; Bruns, MM; Schouten, JA; Rinia, M; Raaijmakers, M; Van Wezel, HM; Heines, SJ; Strauch, U; Buise, MP; Simonis, FD; Schultz, MJ; Goodson, JC; Browne, TS; Navarra, L; Hunt, A; Hutchison, RA; Bailey, MB; Newby, L; McArthur, C; Kalkoff, M; Mcleod, A; Casement, J; Hacking, DJ; Andersen, FH; Dolva, MS; Laake, JH; Barratt-Due, A; Noremark, KAL; Soreide, E; Sjobo, BA; Guttormsen, AB; Yoshido, HHL; Aguilar, RZ; Oscanoa, FAM; Alisasis, AU; Robles, JB; Pasanting-Lim, RAB; Tan, BC; Andruszkiewicz, P; Jakubowska, K; Coxo, CM; Alvarez, AM; Oliveira, BS; Montanha, GM; Barros, NC; Pereira, CS; Messias, AM; Monteiro, JM; Araujo, AM; Catorze, NT; Marum, SM; Bouw, MJ; Gomes, RM; Brito, VA; Castro, S; Estilita, JM; Barros, FM; Serra, IM; Martinho, AM; Tomescu, DR; Marcu, A; Bedreag, OH; Papurica, M; Corneci, DE; Negoita, SI; Grigoriev, E; Gritsan, AI; Gazenkampf, AA; Almekhlafi, G; Albarrak, MM; Mustafa, GM; Maghrabi, KA; Salahuddin, N; Aisa, TM; Al Jabbary, AS; Tabhan, E; Arabi, YM; Trinidad, OA; Al Dorzi, HM; Tabhan, EE; Bolon, S; Smith, O; Mancebo, J; Aguirre-Bermeo, H; Lopez-Delgado, JC; Esteve, F; Rialp, G; Forteza, C; Albaiceta, GM; De Cima-Iglesias, S; Seoane-Quiroga, L; Ceniceros-Barros, A; Ruiz-Aguilar, AL; Claraco-Vega, LM; Soler, JA; Lorente, MD; Hermosa, C; Gordo, F; Prieto-Gonzalez, M; Lopez-Messa, JB; Perez, MP; Perez, CP; Allue, RM; Roche-Campo, F; Ibanez-Santacruz, M; Temprano, S; Pintado, MC; De Pablo, R; Gomez, PRA; Ruiz, SR; Moles, SI; Jurado, MT; Arizmendi, A; Piacentini, EA; Franco, N; Honrubia, T; Cheng, MP; Losada, EP; Blanco, J; Yuste, LJ; Carbayo-Gorriz, C; Cazorla-Barranquero, FG; Alonso, JG; Alda, RS; Algaba, A; Navarro, G; Cereijo, E; Diaz-Rodriguez, E; Marcos, DP; Montero, LA; Para, LH; Sanchez, RJ; Navalpotro, MAB; Abad, RD; Gonzalez, RM; Toribio, DP; Castro, AG; Artiga, MJD; Penuelas, O; Roser, TP; Olga, MF; Curto, EG; Sanchez, RM; Imma, VP; Elisabet, GM; Claverias, L; Magret, M; Pellicer, AM; Rodriguez, LL; Sanchez-Ballesteros, J; Gonzalez-Salamanca, A; Jimenez, AG; Huerta, FP; Diaz, JCJS; Lopez, EB; Moya, DDL; Alfonso, AAT; Luis, PSE; Cesar, PS; Rafael, SI; Virgilio, CG; Recio, NN; Adamsson, RO; Rylander, CC; Holzgraefe, B; Broman, LM; Wessbergh, J; Persson, L; Schioler, F; Kedelv, H; Tibblin, AO; Appelberg, H; Hedlund, L; Helleberg, J; Eriksson, KE; Glietsch, R; Larsson, N; Nygren, I; Nunes, SL; Morin, AK; Kander, T; Adolfsson, A; Zender, HO; Leemann-Refondini, C; Elatrous, S; Bouchoucha, S; Chouchene, I; Ouanes, I; Ben Souissi, A; Kamoun, S; Demirkiran, O; Aker, M; Erbabacan, E; Ceylan, I; Girgin, NK; Ozcelik, M; Unal, N; Meco, BC; Akyol, OO; Derman, SS; Kennedy, B; Parhar, K; Srinivasa, L; McAuley, D; Hopkins, P; Mellis, C; Kakar, V; Hadfield, D; Vercueil, A; Humphreys, SK; Ferguson, A; Mckee, R; Raj, AS; Fawkes, DA; Watt, P; Twohey, L; Jha, RR; Thomas, M; Morton, A; Kadaba, V; Smith, MJ; Hormis, AP; Kannan, SG; Namih, M; Reschreiter, H; Camsooksai, J; Kumar, A; Rugonfalvi, S; Nutt, C; Oneill, O; Seasman, C; Dempsey, G; Scott, CJ; Ellis, HE; Mckechnie, S; Hutton, PJ; Di Tomasso, NN; Vitale, MN; Griffin, RO; Dean, MN; Cranshaw, JH; Willett, EL; Ioannou, N; Gillis, S; Csabi, P; Macfadyen, R; Dawson, H; Preez, PD; Williams, AJ; Boyd, O; de Gordoa, LOR; Bramall, J; Symmonds, S; Chau, SK; Wenham, T; Szakmany, T; Toth-Tarsoly, P; Mccalman, KH; Alexander, P; Stephenson, L; Collyer, T; Chapman, R; Cooper, R; Allan, RM; Sim, M; Wrathall, DW; Irvine, DA; Zantua, KS; Adams, JC; Burtenshaw, AJ; Sellors, GP; Welters, ID; Williams, KE; Hessell, RJ; Oldroyd, MG; Battle, CE; Pillai,

*S; Kajtor, I; Sivashanmugavel, M; Okane, SC; Donnelly, A; Frigyik, AD; Careless, JP; May, MM; Stewart, R; Trinder, TJ; Hagan, SJ; Cole, JM; MacFie, CC; Dowling, AT; Bhowmick, K; Nunez, E; Pittini, G; Rodriguez, R; Imperio, MC; Santos, C; Franca, AG; Ebeid, A; Deicas, A; Serra, C; Nin, N; Uppalapati, A; Kamel, G; Banner-Goodspeed, VM; Beitler, JR; Mukkera, SR; Kulkarni, S; Lee, J; Mesar, T; Shinn, JO; Gomaa, D; Tainter, C; Yeatts, DJ; Warren, J; Lanspa, MJ; Miller, RR; Grissom, CK; Brown, SM; Bauer, PR; Gosselin, RJ; Kitch, BT; Cohen, JE; Beegle, SH; Choudry, S; Gueret, RM; Tulaimat, A; Stigler, W; Batra, H; Huff, NG; Lamb, KD; Oetting, TW; Mohr, NM; Judy, C; Saito, S; Kheir, FM; Kheir, F; Schlichting, AB; Delsing, A; Crouch, DR; Elmasri, M; Ismail, D; Dreyer, KR; Blakeman, TC; Baron, RM; Grijalba, CQ; Hou, PC; Seethala, R; Aisiku, I; Henderson, G; Frendl, G; Hou, SK; Owens, RL; Schomer, A; Bumbasirevic, V; Jovanovic, B; Surbatovic, M; Veljovic, M; LUNG SAFE Investigators; European Soc Intensive Care Med Tr. Outcomes of Patients Presenting with Mild Acute Respiratory Distress Syndrome Insights from the LUNG SAFE Study. ANESTHESIOLOGY. 2019; 130(2) 263-283. FI: 7.067. Cuartil: 1. (Article).*

- *Carrasco-Rozas, A; Fernandez-Simon, E; Lleixa, MC; Belmonte, I; Pedrosa-Hernandez, I; Montiel-Morillo, E; Nunez-Peralta, C; Rossello, JL; Segovia, S; De Luna, N; Suarez-Calvet, X; Illa, I; Diaz-Manera, J; Gallardo, E; Barba-Romero, MA; Barcena, J; Carzorla, MR; Creus, C; Coll-Canti, J; de Luna, N; Diaz, M; Dominguez, C; Torron, RF; Antelo, MJG; Grau, JM; Caravaca, MTG; Hernandez, JCL; de Munain, AL; Martinez-Garcia, FA; Morgado, Y; Moreno, A; Moris, G; Munoz-Blanco, MA; Nascimento, A; Paradas, C; Pozo, JLP; Querol, L; Robledo-Strauss, A; Garcia, RR; Rojas-Marcos, I; Salazar, JA; Uson, M; Pompe Spanish Study Grp. Identification of serum microRNAs as potential biomarkers in Pompe disease. ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY. 2019; 6(7) 1214-1224. FI: 3.66. Cuartil: 2. (Article).*

- *Miro, O; Rossello, X; Gil, V; Martin-Sanchez, FJ; Llorens, P; Herrero-Puente, P; Jacob, J; Pinera, P; Mojarro, EM; Lucas-Imbernon, FJ; Llauger, L; Aguera, C; Lopez-Diez, MP; Valero, A; Bueno, H; Pocock, SJ; Gil, MF; Salvo, E; Escoda, R; Aguilo, S; Xipell, C; Sanchez, C; Gaytan, JM; Noval, A; Torres, JM; Aguirre, A; Pedragosa, MA; Torres-Garate, R; Alonso, MI; Ruiz, F; Franco, JM; Sanchez, S; Alquezar, A; Rizzi, MA; Herrera, S; Cabello, I; Roset, A; Alonso, H; Adrada, ER; Garcia, GL; Perez, JMA; Mecina, AB; Alvarez, JV; Gonzalez, MS; Prieto, B; Garcia, MG; Marquina, V; Jimenez, I; Javaloyes, P; Hernandez, N; Brouzet, B; Lopez, A; Andueza, JA; Romero, R; Calvache, R; Lorca, MT; Calderon, L; Arriaga, BA; Sierra, B; Nicolas, JAS; Mojarra, EM; Becquer, LT; Garcia, LL; La Salle, GC; Urbano, CA; Ferrer, ES; ICA-SEMES Res Grp. Analysis of How Emergency Physicians' Decisions to Hospitalize or Discharge Patients With Acute Heart Failure Match the Clinical Risk Categories of the MEESSI-AHF Scale. ANNALS OF EMERGENCY MEDICINE. 2019; 74(2) 204-215. FI: 5.799. Cuartil: 1. (Article).*

- *Garcia-Sanz, R; Sureda, A; de la Cruz, F; Canales, M; Gonzalez, AP; Pinana, JL; Rodriguez, A; Gutierrez, A; Domingo-Domenech, E; Sanchez-Gonzalez, B; Rodriguez, G; Lopez, J; Moreno, M; Rodriguez-Salazar, MJ; Jimenez-Cabrera, S; Caballero, MD; Martinez, C. Brentuximab vedotin and ESHAP is highly effective as second-line therapy for Hodgkin lymphoma patients (long-term results of a trial by the Spanish GELTAMO Group). ANNALS OF ONCOLOGY. 2019; 30(4) 612-620. FI: 18.274. Cuartil: 1. (Article).*

- *Kelly, ME; Glynn, R; Aalbers, AGJ; Alberda, W; Antoniou, A; Austin, KK; Beets, GL; Beynon, J; Bosman, SJ; Brunner, M; Buchler, MW; Burger, JWA; Campain, N; Christensen, HK; Codd, M; Coscia, M; Colquhoun, A; Daniels, I; Davies, RJ; de Wilt, JHW; Deutsch, C; Dietz, D; Eglinton, T; Fearnhead, N; Frizelle, FA; Garcia-Sabrido, JL; George, M; Gentilini, L; Harris, DA; Harji, D; Herriot, AG; Hohenberger, W; Jenkins, JT; Kanemitsu, Y; Loen, CKK; Kim, H; Koh, CE; Kok, N; Kontovounisios, C; Kulu, Y; Law, WL; Laurberg, S; Le, GN; Lydrup, ML; Lynch, AC; Martling, A; Meijerink, J; Merkel, S; McDermott, FD; McGrath, J; Nielsen, MB; Nieuwenhuijzen, GAP; Nordling, MA; Northover, JMA; O'Connell, PR; Patsouras, D; Poggioli, G; Radwan, RW; Rasheed, S; Rasmussen, PC; Rutten, HJT; Sagar, PM; Schizas, A; Shida, D; Smart, N; Solomon, MJ; Stocchi, L; Tekkis, PP; Tsukamoto, S; Turner, W; Tuynman, J; Ulrich, A; van Leeuwenhoek, A; van Ramshorst, GH; Vasquez-Jimenez, W; Verhoef, C; Versteegen, M; Wakeman, C; Warrier, S; Yip, J; Winter, DC; PelvEx Collaborative. Surgical and Survival Outcomes Following Pelvic Exenteration for Locally Advanced Primary Rectal Cancer Results From an International Collaboration. ANNALS OF SURGERY. 2019; 269(2) 315-321. FI: 10.13. Cuartil: 1. (Article).*

- *Gonzalez, J; Ciancio, G. Renal cell carcinoma response to checkpoint inhibitors may be predicted by senescence activity in tumor microenvironment. ANNALS OF TRANSLATIONAL MEDICINE. 2019; 7 -. FI: 3.297. Cuartil: 2. (Editorial Material).*

- *Juarez-Salcedo, LM; Dalia, S. Use of check-point inhibitors in the treatment of progressive multifocal leukoencephalopathy. ANNALS OF TRANSLATIONAL MEDICINE. 2019; 7 -. FI: 3.297. Cuartil: 2. (Editorial Material).*

- *Yotti, R; Seidman, CE; Seidman, JG. Advances in the Genetic Basis and Pathogenesis of Sarcomere Cardiomyopathies. ANNUAL REVIEW OF GENOMICS AND HUMAN GENETICS. 2019; 20 129-153. FI: 7.243. Cuartil: 1. (Review).*

- *Bordallo-Cardona, MA; Agnelli, C; Gomez-Nunez, A; Sanchez-Carrillo, C; Bouza, E; Munoz, P; Escribano, P; Guinea, J. MSH2 Gene Point Mutations Are Not Antifungal Resistance Markers in Candida glabrata. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(1) -. FI: 4.904. Cuartil: 1. (Article).*

- *Fernandez-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodriguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Perez-Lago, L; de Viedma, DG; Martin, JLD; Munoz, P. A Case-Control Study of Real-Life Experience with Ceftolozane-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(3) -. FI: 4.904. Cuartil: 1. (Article).*

- *Bordallo-Cardona, MA; Sanchez-Carrillo, C; Bouza, E; Munoz, P; Escribano, P; Guinea, J. Detection of Echinocandin-Resistant Candida glabrata in Blood Cultures Spiked with Different Percentages of FKS2 Mutants. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).*

- *Burillo, A; de Egea, V; Onori, R; Martin-Rabadan, P; Cercenado, E; Jimenez-Navarro, L; Munoz, P; Bouza, E. Gradient diffusion antibiogram used directly on bronchial aspirates for a rapid diagnosis of ventilator-associated pneumonia. ANTIMICROBIAL RESISTANCE AND INFECTION CONTROL. 2019; 8(1) -. FI: 3.594. Cuartil: 1. (Article).*

- *Clavo, B; Rodriguez-Esparragon, F; Rodriguez-Abreu, D; Martinez-Sanchez, G; Llontop, P; Aguiar-Bujanda, D; Fernandez-Perez, L; Santana-Rodriguez, N. Modulation of Oxidative Stress by Ozone Therapy in the Prevention and Treatment of Chemotherapy-Induced Toxicity: Review and Prospects. ANTIOXIDANTS. 2019; 8(12) -. FI: 5.014. Cuartil: 1. (Review).*

- *Bressan, S; Titomanlio, L; Gomez, B; Mintegi, S; Gervaix, A; Parri, N; Da Dalt, L; Moll, HA; Waisman, Y; Maconochie, IK; Oostenbrink, R; Er, A; Anil, M; Bal, A; Manzano, S; Lacroix, L; Galetto, A; Beattie, T; Bidlingmaier, C; de Lucas, N; Maranon, R; Pucuka, Z; Latvia, R; Loellgen, R; Keitel, K; Hoeffe, J; Geurts, D; Dubos, F; Lyttle, M; Bognar, Z; Simon, G; Fodor, L; Romanengo, M; Gras-le-Guen, C; Greber-Platzer, S; Cubells, CL; Teksam, O; Turan, C; van de Voorde, P; Basmaci, R; Frassanito, A; Saz, U; Irfanos, I; Sotoca, J; Berant, R; Farrugia, R; Velasco, R; Nijman, R; Macao, P; REPEM. Research priorities for European paediatric emergency medicine. ARCHIVES OF DISEASE IN CHILDHOOD. 2019; 104(9) 869-873. FI: 3.041. Cuartil: 1. (Article).*

- *Lajas, AC; Guzman, MDR; Diez, JD. Left Bronchial Artery Aneurysm. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(12) 661-663. FI: 4.957. Cuartil: 1. (Letter).*

- *Ramos, AO; Diez, JD; Maestu, LP; Fernandez, JD. Arterial Gas Embolism: A Rare Complication of Core Needle Biopsy in the Diagnosis of Solitary Pulmonary Nodule. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 492-493. FI: 4.957. Cuartil: 1. (Letter).*

- *Garcia-Garcia, A; Parra-Virto, A; Galeano-Valle, F; Demelo-Rodriguez, P. Spontaneous Pneumomediastinum and Subcutaneous Emphysema: Hamman's Syndrome. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(4) 215-215. FI: 4.957. Cuartil: 1. (Editorial Material).*

- *Cerezo Lajas A; Rodriguez Guzman MDC; de Miguel Diez J. Hemoptysis Associated With Therapeutic Doses of Acenocoumarol. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 128-133. FI: 4.957. Cuartil: 1. (Article).*

- *Verde Z; Santiago C; Chicharro LM; Bandres F; Gomez-Gallego F; Rodriguez Gonzalez-Moro JM; de Lucas P. Association of HTR2A-1438G/A Genetic Polymorphism With Smoking and Chronic Obstructive Pulmonary Disease. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(6) 341-342. FI: 4.957. Cuartil: 1. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Peligros-Gomez, I; Barbas-Bernardos, G; Sola-Vendrell, E; Hernandez-Fernandez, C. Mucin-producing urothelial type prostatic adenocarcinoma with signet ring cells and increased Ca 19.9 and CEA. Case report and literature review. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(9) 974-977. FI: 0.395. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Pujol, LP; Barbas-Bernardos, G; Morelejo-Garate, M; Subira-Rios, D; Hernandez-Fernandez, C. Port site and peritoneal metastasis following laparoscopic radical prostatectomy and salvage radiotherapy for prostate adenocarcinoma. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(8) 816-824. FI: 0.395. Cuartil: 4. (Article).*

- *Pujol, LP; Garcia, EL; Velasco, JC; Garcia, FJG; Rascon, JJ; Fernandez, CH. Prostate cryotherapy: General principles. ARCHIVOS ESPANOLES DE UROLOGIA. 2019; 72(7) 647-652. FI: 0.395. Cuartil: 4. (Review).*

- *Sanmarti, R; Veale, DJ; Martin-Mola, E; Escudero-Contreras, A; Gonz?lez, C; Ercole, L; Alonso, R; Fonseca, JE; Alca?iz, C; Alvaro-Gracia, JM; Balsa, A; de Pablos, JL; Miguel, CD; Rodr?guez, JM; Alves, J; Aurrecoechea, E; Calvo, J; Belzunegui, J; Blanco, F; Caliz, R; Calvo, J; Ivorra, JR; Canhao, H; Santos, H; Chamizo, E; del Pino, J; Delgado, C; D?az, C; Nebro, AF; Fraser, A; Gomez, A; Hern?ndez, B; Navarro, F; Pov-Marras, J; Moreno, J; Venegas, JP; Pombo, M; Riera, E; Rosas, A; Ryan, J; Santos, J; Santos, M; Tornero, J; Tovar, JV; Ucar, E; Vasconcelos, C; Veiga, R; Vela, P; ToSpace Study Grp. Reducing or Maintaining the Dose of Subcutaneous Tocilizumab in Patients With Rheumatoid Arthritis in Clinical Remission: A Randomized, Open-Label Trial. ARTHRITIS & RHEUMATOLOGY. 2019; 71(10) 1616-1625. FI: 9.586. Cuartil: 1. (Article).*

- *Galeano-Valle, F; Donis-Sevillano, E. Right hypoglossal nerve palsy due to jugular paraganglioma. ATENCION PRIMARIA. 2019; 51(5) 320-321. FI: 1.087. Cuartil: 3. (Editorial Material).*

- *Alonso, CF; Mulet, JMA; Garcia, AR; Armengol, JJG; Grp Trabajo Paciente Fidelizado PI. Podemos llamar hiperfrecuentadores a los pacientes con mayor numero de atenciones en urgencias y atencion primaria. ATENCION PRIMARIA. 2019; 51(1) 50-51. FI: 1.087. Cuartil: 3. (Letter).*

- *Romero-Garcia, M; Delgado-Hito, P; de la Cueva-Ariza, L; Martinez-Momblan, MA; Lluch-Canut, MT; Trujols-Albet, J; Juve-Udina, ME; Benito, L. Level of satisfaction of critical care patients regarding the nursing care received: Correlation with sociodemographic and clinical variables. AUSTRALIAN CRITICAL CARE. 2019; 32(6) 486-493. FI: 2.214. Cuartil: 1. (Article).*

- *Smith, V; Vanhaecke, A; Herrick, AL; Distler, O; Guerra, MG; Denton, CP; Deschepper, E; Foeldvari, I; Gutierrez, M; Hachulla, E; Ingegnoli, F; Kubo, S; Muller-Ladner, U; Riccieri, V; Sulli, A; van Laar, JM; Vonk, MC; Walker, UA; Cutolo, M; Marijke, AW; Pandey, A; Beatrice, A; Sabrina, A; Diana, B; Alexandra, B; Anastasija, B; Fatemah, B; Sofia, B; Laura, BN; Joanna, B; Anna, BZ; Rikke, B; Ana, B; Dalila, B; Devis, B; Eugenia, B; Rens, B; Martin, B; Kenza, B; Vladimira, B; Luisa, B; Jasper, B; Charlotte, C; Victor, C; Radia, CB; Jakub, C; Jacopo, C; Mariateresa, C; Andreu-Fernandez, C; Bernard, C; Ines, C; Campochiaro, C; Francesca, C; Nemanja, D; Yordanova, D; Aleksandra, DP; Rossella, D; Meeke, D; Giacomo, D; Michael, D; Jeska, D; Francesco, D; Anais, D; Blerina, D; Balebail, D; Catarina, D; Monika, DJ; Emmanuela, EV; Nouran, E; Simon, WF; Eleonora, F; Isabelle, F; Miranda, FD; Tracy, F; Havard, F; Olga, G; Nikolaos, G; Carolina, G; Sara, GS; Onay, G; Gerlienke, V; Karina, G; Sami, G; Kasper, G; Joao, GM; Daniel, GBR; Katarzyna, G; Hamida, G; Karin, G; Viktoria, HTK; Yanti, HR; Issam, H; Tanja, H; Antonia, H; Lauren, H; Ariela,*

*H; Po-Hao, H; Claudia, I; Catherine, I; Sherif, I; Michal, J; Claudia, K; Brigit, K; Floor, K; Paula, K; Ali, KK; Nikita, K; Inge, KW; Angeliki, K; Eugene, K; Susanna, KM; Maria-Grazia, L; Jacqueline, L; Maria, L; Alain, L; Hsuan, L; Carina, L; Ana, LC; Fabian, L; Mariana, L; Marija, LA; Khue, L; Bernadette, L; Rita, MA; Nathalie, M; Ine, M; Jakubus, MM; Elena, MR; Patricia, M; Puneet, M; Daniela, M; Yimy, M; Mohsine, M; Karin, M; Valentina, M; Bartosz, M; Alexey, M; Florentin, M; Fanika, M; Agna, N; Tu, NTH; Tandrup, NC; Mohamed, O; Jaka, O; Greta, P; Massimo, P; Monica, P; Katja, PP; Giorgio, P; Johannes, P; Michael, P; Maude, P; Yves, P; Cristina, PD; Marco, P; Stefaan, P; Rita, PA; Andreea, P; Paula, PR; Marta, P; Mislav, R; Bea, R; Miriam, R; Elisabeth, RS; Valerie, R; Gabriela, RM; Katarzyna, RP; Vasco, R; Laura, R; Guido, R; Danilo, R; Barbara, R; Ioana, R; Silvana, SG; Narimene, S; Alper, S; Hasar, S; Leonard, S; Luca, S; Alkemi, S; Anindita, S; Mostafa, SMS; Qutab, S; Mariusz, S; Daniela, SF; Valeria, S; Theodora, S; Rajneet, S; Marijn, S; Marcus, S; Stefano, S; Lilian, S; Muhammad, SS; Julia, S; Alexia, S; Wendy, S; Nikolay, S; Georgiana, S; Manon, S; Marijana, S; Dasa, SS; Wibowo, SAK; Baidy, SK; Anna, T; Samuele, T; Yonit, T; Catarina, T; Anna, T; Michael, T; Amelia, T; Ana, V; Frank, V; Noortje, V; Aniek, V; Erwin, V; Michael, V; Elisa, V; Lucas, V; Nancy, V; Karen, V; Ine, V; Kristin, W; Anna, W; Ritsuko, Y; Guiseppe, Z; EULAR Study Grp Microcirculation R. Fast track algorithm: How to differentiate a "scleroderma pattern" from a "non-scleroderma pattern". AUTOIMMUNITY REVIEWS. 2019; 18(11) -. FI: 7.767. Cuartil: 1. (Review).*

- *Castrejon, I. Evaluation and monitoring of established rheumatoid arthritis. BEST PRACTICE & RESEARCH IN CLINICAL RHEUMATOLOGY. 2019; 33(5) -. FI: 2.727. Cuartil: 3. (Review).*

- *Aguilera-Montilla, N; Bailon, E; Ugarte-Berzal, E; Uceda-Castro, R; Prieto-Solano, M; Garcia-Martinez, E; Samaniego, R; Van den Steen, PE; Opdenakker, G; Garcia-Marco, JA; Garcia-Pardo, A. Matrix metalloproteinase-9 induces a pro-angiogenic profile in chronic lymphocytic leukemia cells. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 2019; 520(1) 198-204. FI: 2.985. Cuartil: 2. (Article).*

- *Miranda-Bautista, J; Dieguez, L; Rodriguez-Rosales, G; Marin-Jimenez, I; Menchen, L. Cases report: severe colonic bleeding in ulcerative colitis is refractory to selective transcatheter arterial embolization. BMC GASTROENTEROLOGY. 2019; 19 -. FI: 2.489. Cuartil: 3. (Article).*

- *Picornell, AC; Echavarria, I; Alvarez, E; Lopez-Tarruella, S; Jerez, Y; Hoadley, K; Parker, JS; del Monte-Millan, M; Ramos-Medina, R; Gayarre, J; Ocana, I; Cebollero, M; Massarrah, T; Moreno, F; Saenz, JAG; Moreno, HG; Ballesteros, A; Borrego, MR; Perou, CM; Martin, M. Breast cancer PAM50 signature: correlation and concordance between RNA-Seq and digital multiplexed gene expression technologies in a triple negative breast cancer series. BMC GENOMICS. 2019; 20 -. FI: 3.594. Cuartil: 2. (Article).*

- *Domingo-Gallego, A; Furlano, M; Pybus, M; Barraca, D; Martinez, AB; Munoz, EM; Torra, R; Ars, E. Novel homozygous OSGEP gene pathogenic variants in two unrelated patients with Galloway-Mowat syndrome: case report and review of the literature. BMC NEPHROLOGY. 2019; 20 -. FI: 1.913. Cuartil: 3. (Review).*

- *Berrouiguet, S; Barrigon, ML; Castroman, JL; Courtet, P; Ages-Rodriguez, A; Baca-Garcia, E. Combining mobile-health (mHealth) and artificial intelligence (AI) methods to avoid suicide attempts: the Smartcrises study protocol. BMC PSYCHIATRY. 2019; 19(1) -. FI: 2.704. Cuartil: 2. (Article).*

- *Luciana, T; Beatriz, F; Adriana, M. The study of pharmacodynamics for the treatment of pseudomonas infection. BOLETIN DE MALARIOLOGIA Y SALUD AMBIENTAL. 2019; 59(6) 344-349. FI: 0.433. Cuartil: 4. (Article).*

- *Gasca-Salas, C; Garcia-Lorenzo, D; Garcia-Garcia, D; Clavero, P; Obeso, JA; Lehericy, S; Rodriguez-Oroz, MC. Parkinson's disease with mild cognitive impairment: severe cortical thinning antedates dementia. BRAIN IMAGING AND BEHAVIOR. 2019; 13(1) 180-188. FI: 3.391. Cuartil: 2. (Article).*

- *Rojas, P; de Hoz, R; Ramirez, AI; Ferreras, A; Salobrar-Garcia, E; Munoz-Blanco, JL; Urcelay-Segura, JL; Salazar, JJ; Ramirez, JM. Changes in Retinal OCT and Their Correlations with Neurological Disability in Early ALS Patients, a Follow-Up Study. BRAIN SCIENCES. 2019; 9(12) -. FI: 3.332. Cuartil: 2. (Article).*

- *Redondo, AM; Valcarce, D; Gonzalez-Rodriguez, AP; Suarez-Lledo, M; Bello, JL; Canales, M; Gayoso, J; Colorado, M; Jarque, I; del Campo, R; Arranz, R; Terol, MJ; Rifon, JJ; Rodriguez, MJ; Ramirez, MJ; Castro, N; Sanchez, A; Lopez-Jimenez, J; Montes-Moreno, S; Briones, J; Lopez, A; Palomera, L; Lopez-Guillermo, A; Caballero, D; Martin, A; GEL-TAMO. Bendamustine as part of conditioning of autologous stem cell transplantation in patients with aggressive lymphoma: a phase 2 study from the GELTAMO group. BRITISH JOURNAL OF HAEMATOLOGY. 2019; 184(5) 797-807. FI: 5.518. Cuartil: 1. (Article).*

- *Mondejar-Parreno, G; Moral-Sanz, J; Barreira, B; De la Cruz, A; Gonzalez, T; Callejo, M; Esquivel-Ruiz, S; Morales-Cano, D; Moreno, L; Valenzuela, C; Perez-Vizcaino, F; Cogolludo, A. Activation of K(v)7 channels as a novel mechanism for NO/cGMP-induced pulmonary vasodilation. BRITISH JOURNAL OF PHARMACOLOGY. 2019; 176(13) 2131-2145. FI: 7.73. Cuartil: 1. (Article).*

- *Carbonell, D; Suarez-Gonzalez, J; Chicano, M; Andres-Zayas, C; Trivino, JC; Rodriguez-Macias, G; Bastos-Oreiro, M; Font, P; Ballesteros, M; Muniz, P; Balsalobre, P; Kwon, M; Anguita, J; Diez-Martin, JL; Buno, I; Martinez-Laperche, C. Next-Generation Sequencing Improves Diagnosis, Prognosis and Clinical Management of Myeloid Neoplasms. CANCERS. 2019; 11(9) -. FI: 6.126. Cuartil: 1. (Article).*

- *Pena-Zalbidea, S; Huang, AYT; Kavunja, HW; Salinas, B; Desco, M; Drake, C; Woodruff, PJ; Vaquero, JJ; Swarts, BM. Chemoenzymatic radiosynthesis of 2-deoxy-2-[(18)F]fluoro-d-trehalose ([(18)F]-2-FDTre): A PET radioprobe for in vivo tracing of trehalose metabolism. CARBOHYDRATE RESEARCH. 2019; 472 16-22. FI: 1.841. Cuartil: 2. (Article).*

- *Bruna, V; Velasquez-Rodriguez, J; Valero-Masa, MJ; Perez-Guillem, B; Vicent, L; Diez-Delhoyo, F; Devesa, C; Sousa-Casasnovas, I; Juarez, M; de Luna, AB; Bayes-Genis, A; Baranchuk, A; Fernandez-Aviles, F; Martiez-Selles, M. Prognostic of Interatrial Block after an Acute ST-Segment Elevation Myocardial Infarction. CARDIOLOGY. 2019; 142(2) 109-115. FI: 1.791. Cuartil: 3. (Article).*

- *Munoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; Lopez-Roa, P; Juarez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernandez-Aviles, F; Martinez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).*

- *Oarbeascoa, G; Dorado, N; Bailen, R; Serrano, D; Balsalobre, P; Pradillo, V; Guinea, J; Padilla, B; Sancho, M; Machado, M; Buno, I; Anguita, J; Diez-Martin, JL; Kwon, M. Successful Treatment of Severe Aspergillosis with Isavuconazole Therapy after Allogeneic Stem Cell Transplantation. CHEMOTHERAPY. 2019; 64(2) 57-61. FI: 1.641. Cuartil: 4. (Article).*

- *Diez-Delhoyo, F; Gutierrez-Ibanes, E; Sanz-Ruiz, R; Vazquez-Alvarez, ME; Saldivar, HG; Juarez, AR; Sarnago, F; Martinez-Selles, M; Bermejo, J; Soriano, J; Elizaga, J; Fernandez-Aviles, F. Prevalence of Microvascular and Endothelial Dysfunction in the Nonculprit Territory in Patients With Acute Myocardial Infarction The FISIOIAM Study. CIRCULATION-CARDIOVASCULAR INTERVENTIONS. 2019; 12(2) -. FI: 5.493. Cuartil: 1. (Article).*

- *Cidoncha, EM; Prats, IA; Cortes, JLE; Torrente, IG; Suh, H. Scarless neck thyroidectomy using bilateral axillo-breast approach: Initial impressions after introduction in a specialized unit and a review of the literature. CIRUGIA ESPANOLA. 2019; 97(5) 291-291. FI: 1.323. Cuartil: 3. (Editorial Material).*

- *Hernandez, PC; Torrente, IG; Martinez, EV; Fuentes, FT. Boerhaave syndrome presenting as gastric emphysema. CIRUGIA ESPANOLA. 2019; 97(2) 81-88. FI: 1.323. Cuartil: 3. (Review).*

- *Hernandez, PC; Hidalgo, AM; Torrente, IG; Moreno, CR; Rodrigez, LS; Mata, SK; Boyra, MJE; Leyte, MG; Diaz, MDP; Fuentes, FT. Pelvic fractures with associated retroperitoneal hematoma: time until angioembolization and results. CIRUGIA ESPANOLA. 2019; 97(5) 261-267. FI: 1.323. Cuartil: 3. (Article).*

- *Lasso, JM; Deleyto la Cruz E; Gonzalez-Pozega, C. Supermicrosurgical lymphovenous anastomosis. CIRUGIA ESPANOLA. 2019; 97(10) 560-567. FI: 1.323. Cuartil: 3. (Article).*

- *Ramia, JM; Martin-Perez, E; Poves, I; Fabregat-Prous, J; Olea, JLY; Sanchez-Bueno, F; Botello-Martinez, F; Briceno, J; Miyar-de Leon, A; Serradilla, M; Moya-Herraiz, A; Secanella, L; Bueno, FS; Serrablo, A; Fabrega, JF; Cabus, SS; Bravo, MAG; Padillo, J; Blanco, L; Balcells, J; Cugat, E; Domingo, MG; Bellvis, LM; Diaz, MDP; Santoyo, JS; Sanchez, B; Georgiev, T; Villegas, T; Pacho, S; Valladares, LD; Rebollar, J; Munoz, MAS; Dominguez, E; Falgueras, L; Artigas, V; Sabater, L; Gil, AG; de Llama, JIM; Manzanet, G; Pino, JC; Sanjuan, JCR; Lluis, F; Ausania, F; Zuloaga, MA; Escartin, J; Salas, M; Domingo, C; de Rojas, EAS; Mateos, JAB; Cebrian, JMF; Cabrera, BP; Valverde, DP; Sanjuanbenito, A; Belmonte, II; Bejarano, N; Borobia, FG; Guinea, PT; Marcano, AL; Arana, FA; Varo, E; Esteban, R; Blas, JL; Navalon, JMJ; Martinez, CF; Collado, ED; Duran, AC; Vicens, JC; Romero, J; Badia, JM; Sanchez, R; Ibanez, RD; Pardo, F; von Hunefeld, CF; Pereira, F; Molina, FG; Prieto, IR; Poza, AA; Gilsanz, C; Albert, JMM; Morcillo, MA; Cortijo, SM; Fernandez, JM; Baquedano, J; Castell, J; Aguilo, J; Bernal, JC; Grp Hosp Participantes. Multicentric study on total pancreatectomies. CIRUGIA ESPANOLA. 2019; 97(4) 231-231. FI: 1.323. Cuartil: 3. (Editorial Material).*

- *Fernandez, GB; Bravo, MAG; Delgado, JB; Lopez, AV; Lopez-Guerra, D; Rodriguez-Laiz, G; Villar-del-Moral, J; Sanchez, FP; Santoyo, J; Andujar, RL; Nuno, J; Turrion, VS; Pinto, IG; Jimenez, C; Baena, JAL; Gutierrez, MG; Prous, JF; Sanchez, DP; Barrera, M; Garcia-Gil, A; Ramirez, P; Varo, E; Bilbao, I; Fondevila, C; Rodriguez-Sanjuan, JC; Grp Espanol Trabajo Trasplante Hep. A survey of Heads of Surgery and Residents on accessibility and employment in liver transplant teams in Spain. CIRUGIA ESPANOLA. 2019; 97(7) 377-384. FI: 1.323. Cuartil: 3. (Article).*

- *Simo, V; Arredondo, J; Hernan, C; Jimenez, LM; Ielpo, B; Fernandez, J; Villafane, A; Pastor, E. Rectal cancer treatment by transanal total mesorectal excision: Results in 100 consecutive patients. CIRUGIA ESPANOLA. 2019; 97(1) 3-10. FI: 1.323. Cuartil: 3. (Article).*

- *Aranda-Narvaez, JM; Tallon-Aguilar, L; Lopez-Ruiz, JA; Pareja-Ciuro, F; Jover-Navalon, JM; Turegano-Fuentes, F; Navarro-Soto, S; Ceballos-Esparragon, J; Perez-Diaz, L. The Acute Care Surgery model in the world, and the need for and implementation of trauma and emergency surgery units in Spain. CIRUGIA ESPANOLA. 2019; 97(9) 510-516. FI: 1.323. Cuartil: 3. (Article).*

- *Plaza, AM; Martinez, EB; Tara, MPD; Fernandez, ABM; Iglesias, FM; Lopez, AE. Impact of Virtual Planning on Surgical Reposition of the Premaxilla Using an Endonasal Approach and Simultaneous Alveoloplasty. CLEFT PALATE-CRANIOFACIAL JOURNAL. 2019; 56(4) 548-551. FI: 1.347. Cuartil: 3. (Article).*

- *Samper Ots P; Luis Cardo A; Vallejo Ocana C; Cabeza Rodriguez MA; Glaria Enriquez LA; Couselo Paniagua ML; Olivera Vegas J. Diagnostic performance of F-18-choline PET-CT in prostate cancer. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(6) 766-773. FI: 2.737. Cuartil: 3. (Article).*

- *Galeano-Valle, F; Perez-Rus, G; Demelo-Rodriguez, P; Ordieres-Ortega, L; Ortega-Moran, L; Munoz-Martin, A J; Medina-Molina, S; Alvarez-Sala-Walther, L A; Del-Toro-Cervera, J. Monitoring anti-Xa levels in patients with cancer-associated venous thromboembolism treated with bemiparin. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(7) 900-909. FI: 2.737. Cuartil: 3. (Article).*

- *Delgado-Lopez, PD; Corrales-Garcia, EM; Alonso-Garcia, E; Garcia-Leal, R; Gonzalez-Rodrigalvarez, R; Araus-Galdos, E; Martin-Alonso, J. Central nervous system ependymoma: clinical implications of the new molecular classification, treatment guidelines and controversial issues. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; -. FI: 2.737. Cuartil: 3. (Article).*

- *Hervas, A; Pastor, J; Gonzalez, C; Jove, J; Gomez, A; Casana, M; Villafranca, E; Mengual, JL; Munoz, V; Henriquez, I; Munoz, J; Collado, E; Clemente, J. Outcomes and prognostic factors in intermediate-risk prostate cancer: multi-institutional analysis of the Spanish RECAP database. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; 21(11) 1450-1463. FI: 2.737. Cuartil: 3. (Review).*

- *Lasso, JM; Maranillo, E; Martinez-pascual, P; Goni, E; Vazquez, T; Sanudo, J; Pascual-Font, A. Anatomical study of the masseteric and obturator nerves: Application to face transplant and reanimation procedures. CLINICAL ANATOMY. 2019; 32(5) 612-617. FI: 1.967. Cuartil: 2. (Article).*

- *Gonzalez-Cantero, A; Gonzalez-Cantero, J; Sanchez-Moya, AI; Schoendorff-Ortega, C; Barderas, MG; Perez-Hortet, C. Psoriasin (S100A7) and koebserisin (S100A15) as potential markers of atherosclerosis in patients with psoriasis. CLINICAL AND EXPERIMENTAL DERMATOLOGY. 2019; 44(2) 234-234. FI: 1.977. Cuartil: 3. (Letter).*

- *Garcia-Gomez, C; Martin-Martinez, MA; Fernandez-Carballido, C; Castaneda, S; Gonzalez-Juanatey, C; Sanchez-Alonso, F; Gonzalez-Fernandez, MJ; Sanmarti, R; Garcia-Vadillo, JA; Fernandez-Gutierrez, B; Garcia-Arias, M; Manero, FJ; Senabre, JM; Rueda-Cid, A; Ros-Exposito, S; Pina-Salvador, JM; Erra-Duran, A; Moller-Parera, I; Llorca, J; Gonzalez-Gay, MA; de Rabago, EG; Morales, EAB; Lopez, JCF; Villar, NO; Sandoval, AA; Garcia, FJB; De Miquel, CA; Fernandez, MJG; Codina, RH; Yoldi, B; Ramentol, M; Avila, G; Barril, SM; Steiner, M; Munoz, S; Gamero, F; Toron, JG; Gil, MPM; Mas, AJ; Espino, P; Ros, I; Ibanez, M; Murillo, C; Piqueras, JA; Sanmarti, R; Berman, H; Cabrera, S; Ruiz, V; Paton, OF; Gutierrez, BF; Abasolo, L; Fabregas, MD; Baures, MR; Nolla, JM; Gonzalez-Alvaro, I; Muriel, EGT; de Vicuna, RG; Nebro, AF; Lopez, MAB; Urena, I; Irigoyen, MV; Cagigal, VC; Gonzalez, RL; Garrido, DP; Alvarez, JS; Aparicio, AMG; Gomez, RB; Bautista, PG; Sanz, AH; Gonzalez, COS; Bachiller, J; Zea, A; Manero, FJ; Zorzo, FJ; Ubeda, EG; Gracia, JM; Audera, CB; Medrano, M; Pecondon, A; Erausquin, C; Ojeda, S; Quevedo, JC; Francisco, F; Lozano, CR; Herraez, JB; Longo, FJL; Gerona, D; Fernandez, CG; Carreno, L; Monteagudo, I; del Pino, J; Gonzalez, MDS; Corrales, A; Peiro, ME; Senabre, JM; Rosas, JC; Rotes, I; Moreno, E; Erra, A; Grado, D; Calvo, J; Rueda, A; Moller, I; Rodriguez, I; Barbadillo, C; Raya, E; Morales, P; Nieto, A; Jimenez, I; Magro, C; Escribano, AR; Exposito, SR; Nievas, GS; Navarro, EJ; Fernandez, MS; Morales, MAG; Bastero, IL; Consuegra, G; Palmou, N; Pardo, SM; Pujol, M; Alonso, ER; Salvador, G; Alvarez, BG; Cantabrana, A; Bustabad, S; Delgado, E; Munoz, A; Montero, SR; Jimenez, LM; Redondo, JR; Hernandez, TG; Polo, FJG; Almagro, RM; Moreno, JM; Serret, EG; Barroso, CL; Mendez, LC; Navio, MT; Carballido, CF; Pagan, E; del Castillo, PM; Naredo, E; Cruz, A; Turrion, A; Mateo, I; Sanchez, J; Galindo, M; Gonzalez, JG; Collantes, E; Ruiz, D; Font, P; Bonilla, G; Meseguer, AL; Moreno, MJ; Martinez, MJM; Fernandez, MDB; Linares, LF; Morcillo, M; Gomez, MLG; Aramburu, JM; Rivera, NA; Berrizbeitia, OF; Vivar, MLG; Riera, M; Leon, YM; Maymo, J; Amirall, M; Escolano, SI; Serrano, SS; Bona, MPL; Fiter, J; Melon, JF; Espadaler, L; Maiz, O; Belzunegui, J; Banegil, I; Diaz, C; Valls, R; Castellvi, I; Bonet, M; Ruzafa, EM; Alen, JC; Sandoval, TP; Evrard, ER; Godo, JR; Espartero, CF; Blasco, FJN; Gonzalez, JA; Miranda-Filloy, JA; CARMA Project Collaborative Grp. Hyperlipoproteinaemia(a) in patients with spondyloarthritis: results of the Cardiovascular in Rheumatology (CARMA) project. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2019; 37(5) 774-782. FI: 3.319. Cuartil: 2. (Article).*

- *Martin-Martinez, MA; Castaneda, S; Gonzalez-Juanatey, C; Sanchez-Alonso, F; Garcia-Gomez, C; Lopez-Gonzalez, R; Babio-Herraiz, J; Juan-Mas, A; Moreno-Gil, MP; Sanchez-Gonzalez, CO; Romera-Baures, M; Pinto-Tasende, JA; Tornero-Molina, J; Fabregas-Canales, D; Llorca, J; Gonzalez-Gay, MA; de Rabago, EG; Morales, EAB; Lopez, JCF; Villar, NO; Sandoval, AA; Garcia, FJB; De Miquel, CA; Fernandez, MJG; Codina, RH; Yoldi, B; Ramentol, M; Avila, G; Barril, SM; Quesada, E; Steiner, M; Munoz, S; Cobo, T; Gamero, F; Toron, JG; Espino, P; Ros, I; Ibanez, M; Murillo, C; Sanmarti, R; Berman, H; Cabrera, S; Ruiz, V; Paton, OF; Gutierrez, BF; Abasolo, L; Pina, JM; Nolla, JM; Arias, MG; Vadillo, JAG; de Vicuna, RG; Nebro, AF; Arija, SM; Lopez, MAB; Urena, I; Irigoyen, MV; Cagigal, VC; Garrido, DP; Aparicio, AMG; Gomez, RB; Bautista, PG; Sanz, AH; Bachiller, J; Manero, FJ; Zorzo, FJ; Ubeda, EG; Garcia, JM; Audera, CB; Medrano, M; Pecondon, A; Erausquin, C; Ojeda, S; Quevedo, JC; Francisco, F; Lozano, CR; Longo, FJL; Gerona, D; Fernandez, CG; Monteagudo, I; del Pino, J; Gonzalez, MDS; Corrales, A; Peiro, ME; Senabre, JM; Rosas, JC; Rotes, I; Moreno, E; Erra, A; Grado, D; Calvo, J; Rueda, A; Moller, I; Rodriguez, I; Barbadillo, C; Raya, E; Morales, P; Nieto, A; Jimenez, I; Magro, C; Escribano, AR; Exposito, SR; Nievas, GS; Navarro, EJ; Fernandez, MS; Morales, MAG; Bastero, IL; Consuegra, GG; Palmou, N; Pardo, SM; Pujol, M; Alonso, ER; Salvador, G; Alvarez, BG; Cantabrana, A; Bustabad, S; Delgado, E; Munoz, A; Montero, SR; Jimenez, LM; Redondo, JR; Hernandez, TG; Polo, FJG; Almagro, RM; Moreno, JM; Serret, EG; Barroso, CL; Mendez, LC; Navio, MT; Carballido, CF; Pagan, E; del Castillo, PM; Naredo, E; Cruz, A; Turrion, A; Sanchez, J; Galindo, M; Gonzalez, JG; Collantes, E; Ruiz, D; Font, P; Bonilla, G; Meseguer, AL; Moreno, MJ; Martinez, MJM; Fernandez, MDB; Linares, LF; Morcillo, M; Gomez, MLG; Rivera, NA; Berrizbeitia, OF; Vivar, MLG; Riera, M; Leon, YM; Maymo, J; Amirall, M; Escolano, SI; Serrano, SS; Bona, MPL; Fiter, J; Melon, JF; Espadaler, L; Maiz, O; Belzunegui, J; Banegil, I; Diaz, C; Valls, R; Castellvi, I; Bonet, M; Ruzafa, EM; Alen, JC; Sandoval, TP; Evrard, ER; Godo, JR; Espartero, CF; Blasco, FJN; Gonzalez, JA; Miranda-Filloy, JA; CARMA Project Collaborative Grp. Incidence of first cardiovascular event in Spanish patients with inflammatory rheumatic diseases: prospective data from the CARMA Project. CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2019; 37(5) 731-739. FI: 3.319. Cuartil: 2. (Article).*

- *de Bono, JS; De Giorgi, U; Rodrigues, DN; Massard, C; Bracarda, S; Font, A; Arija, JAA; Shih, KC; Radavoi, GD; Xu, N; Chan, WY; Ma, H; Gendreau, S; Riisnaes, R; Patel, PH; Maslyar, DJ; Jinga, V. Randomized Phase II Study Evaluating Akt Blockade with Ipatasertib, in Combination with Abiraterone, in Patients with Metastatic Prostate Cancer with and without PTEN Loss. CLINICAL CANCER RESEARCH. 2019; 25(3) 928-936. FI: 10.107. Cuartil: 1. (Article).*

- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces,*

*R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

- *Bartoletti, M; Giannella, M; Lewis, RE; Caraceni, P; Tedeschi, S; Paul, M; Schramm, C; Bruns, T; Merli, M; Cobos-Trigueros, N; Seminari, E; Retamar, P; Munoz, P; Tumbarello, M; Burra, P; Cerenzia, MT; Barsic, B; Calbo, E; Maraolo, AE; Petrosillo, N; Galan-Ladero, MA; D'Offizi, G; Zak-Doron, Y; Rodriguez-Bano, J; Baldassarre, M; Verucchi, G; Domenicali, M; Bernardi, M; Viale, P; Campoli, C; Pascale, R; Stallmach, A; Venditti, M; Lucidi, C; Ludovisi, S; de Cueto, M; Dolores, NM; Eduardo, LC; Bouza, E; Valerio, M; Eworo, A; Losito, R; Senzolo, M; Nadal, E; Ottobrelli, A; Varguvic, M; Badia, C; Guglielmo, B; Gentile, I; Buonomo, AR; Boumis, E; Beteta-Lopez, A; Rianda, A; Taliani, G; Grieco, S; ESGBIS BICHROME Study Grp. Extended Infusion of beta-Lactams for Bloodstream Infection in Patients With Liver Cirrhosis: An Observational Multicenter Study. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1731-1739. FI: 8.313. Cuartil: 1. (Article).*

- *Fernandez-de-las-Penas, C; Ambite-Quesada, S; Palacios-Cena, M; Guillem-Mesado, A; Guerrero-Peral, A; Pareja, JA; Arendt-Nielsen, L. Catechol-O-Methyltransferase (COMT) rs4680 Val158Met Polymorphism is Associated With Widespread Pressure Pain Sensitivity and Depression in Women With Chronic, but not Episodic, Tension-Type Headache. CLINICAL JOURNAL OF PAIN. 2019; 35(4) 345-352. FI: 2.893. Cuartil: 2. (Article).*

- *Macias N; Vega A; Abad S; Aragoncillo I; Garcia-Prieto AM; Santos A; Torres E; Luno J. Middle molecule elimination in expanded haemodialysis: only convective transport?. CLINICAL KIDNEY JOURNAL. 2019; 12(3) 447-455. FI: 3.388. Cuartil: 1. (Article).*

- *Garcia-Prieto A; Torres E; Hernandez A; Barbieri D; Vega A. Persistent pruritus as a rare and potentially serious manifestation of liver involvement in autosomal dominant polycystic kidney disease. CLINICAL KIDNEY JOURNAL. 2019; 12(3) 380-381. FI: 3.388. Cuartil: 1. (Article).*

- *Collazos-Blanco, A; Perez-Garcia, F; Sanchez-Carrillo, C; de Egea, V; Munoz, P; Bouza, E. Estimation of missed bloodstream infections without the third blood culture set: a retrospective observational single-centre study. CLINICAL MICROBIOLOGY AND INFECTION. 2019; 25(4) 469-473. FI: 7.117. Cuartil: 1. (Article).*

- *Calvo-Henriquez, C; Martins-Neves, S; Martinez-Capoccioni, G; Neves-Leal, D; Ruano-Ravina, A; Faraldo-Garcia, A; Lowy-Benoliel, A; Martin-Martin, C. Validation of the Vertical Facial Growth Screening Test. CLINICAL PEDIATRICS. 2019; 58(11-12) 1187-1193. FI: 1.026. Cuartil: 4. (Article).*

- *Gaytan, JM; Herrero, P; Martin-Sanchez, FJ; Perez-Dura, MJ; Lopez, ML; Peacock, WF; Hollander, JE; Coll-Vinent, B; Miro, O; Fuentes, M; Gil, C; Alonso, H; Garmila, P; Martin-Sanchez, FJ; Garcia, GL; Yanez-Palma, MC; Lopez, SI; Gil, V; Escoda, R; Xipell, C; Sanchez, C; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AH; Tost, J; Sanchez, S; Carbajosa, V; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar, A; Rizzi, MA; Herrera, S; Jacob, J; Roset, A; Cabello, I; Richard, F; Perez, JMA; Diez, MPL; Herrero-Puente, P; Alvarez, JV; Garcia, HP; Garcia, MG; Gonzalez, MS; Llorens, P; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Ramos, S; Lopez, A; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Lorca, MT; Calderon, L; Arriaga, BA; Sierra, B; Mojarro, EM; Becquer, LT; Burillo, G; Garcia, LL; La Salle, GC; Urbano, CA; Soto, AHG; Padial, ED; Ferrer, ES; Garrido, M; Lucas, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Sanchez, N; Carballo, JL; Rodriguez-Adrada, E; Rodriguez, B; ICA-SEMES Res Grp. The role of atrial fibrillation in the short-term outcomes of patients with acute heart failure. CLINICAL RESEARCH IN CARDIOLOGY. 2019; 108(6) 622-633. FI: 5.268. Cuartil: 1. (Article).*

- *Bykerk, VP; Ostor, AJK; Alvaro-Gracia, J; Pavelka, K; Ivorra, JAR; Nurmohamed, MT; Luder, Y; Sidiropoulos, PNM; Devenport, J; Sibilia, J. Long-term safety and effectiveness of tocilizumab in patients with rheumatoid arthritis and inadequate responses to*

*csDMARDs and/or TNF inhibitors: an open-label study close to clinical practice. CLINICAL RHEUMATOLOGY. 2019; 38(9) 2411-2421. FI: 2.394. Cuartil: 3. (Article).*

- *Ayesta, A; Urrutia, G; Madrid, E; Vernooij, RWM; Vicent, L; Martinez-Selles, M. Sex-mismatch influence on survival after heart transplantation: A systematic review and meta-analysis of observational studies. CLINICAL TRANSPLANTATION. 2019; 33(12) -. FI: 1.665. Cuartil: 3. (Review).*
- *Martinez, A; Garcia-Santos, A; Ballesteros, N; Desco, M; Abella, M. XAP-Lab: A software tool for designing flexible X-ray acquisition protocols. COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE. 2019; 177 243-252. FI: 3.632. Cuartil: 1. (Article).*
- *Sanchez-Herrero, A; Vergara-de Caso, E; Vera-Alvarez, S; Espinosa-Hidalgo, I; Salvador, JFS. Burning mouth syndrome triggered by cinnamal present in a denture fixative cream. CONTACT DERMATITIS. 2019; 81(2) 147-. FI: 3.952. Cuartil: 1. (Editorial Material).*
- *Valera-Perez, A; Tyrkalska, SD; Viana, C; Rojas-Fernandez, A; Pelegrin, P; Garcia-Moreno, D; Perez-Oliva, AB; Mulero, V. WDR90 is a new component of the NLRC4 inflammasome involved in Salmonella Typhimurium resistance. DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. 2019; 100 -. FI: 3.192. Cuartil: 1. (Article).*
- *Martin-Rodriguez, JL; Gonzalez-Cantero, J; Gonzalez-Cantero, A; Marti-Bonmati, L; Alberich-Bayarri, A; Gonzalez-Cejudo, T; Gonzalez-Calvin, JL. Insulin resistance and NAFLD: Relationship with intrahepatic iron and serum TNF-alpha using 1H MR spectroscopy and MRI. DIABETES & METABOLISM. 2019; 45(5) 473-479. FI: 4.731. Cuartil: 1. (Article).*
- *Pacciardi, B; Calcedo, A; Messer, T. Inhaled Loxapine for the Management of Acute Agitation in Bipolar Disorder and Schizophrenia: Expert Review and Commentary in an Era of Change. DRUGS IN R&D. 2019; 19(1) 15-25. FI: 2.277. Cuartil: 3. (Review).*
- *Gonzalez, J; Gaynor, JJ; Martinez-Salamanca, JI; Capitanio, U; Tilki, D; Carballido, JA; Chantada, V; Daneshmand, S; Evans, CP; Gasch, C; Gontero, P; Haferkamp, A; Huang, WC; Espinos, EL; Master, VA; McKiernan, JM; Montorsi, F; Pahernik, S; Palou, J; Pruthi, RS; Rodriguez-Faba, O; Russo, P; Scherr, DS; Shariat, SF; Spahn, M; Terrone, C; Vera-Donoso, C; Zigeuner, R; Hohenfellner, M; Libertino, JA; Ciancio, G. Association of an organ transplant-based approach with a dramatic reduction in postoperative complications following radical nephrectomy and tumor thrombectomy in renal cell carcinoma. EJSO. 2019; 45(10) 1983-1992. FI: 3.959. Cuartil: 1. (Article).*
- *Llorens, P; Javaloyes, P; Masip, J; Gil, V; Herrero-Puente, P; Martin-Sanchez, FJ; Jacob, J; Garrido, JM; Herrera-Mateo, S; Diez, MPL; Concepcion-Aramendia, L; Miro, O; Fuentes, M; Gil, C; Alonso, H; Perez-Llantada, E; Garcia, GL; Cadenas, MS; Escoda, R; Xipell, C; Sanchez, C; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Tost, J; Berenguer, M; Donea, R; Ramon, SS; Rodriguez, VC; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar-Arbe, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Haro, A; Richard, F; Perez, JMA; Puente, PH; Alvarez, JV; Garcia, BP; Garcia, MG; Gonzalez, MS; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Gil, A; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Serralta, MTL; Jave, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, CC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Munoz, MA; Lucas-Imbernon, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Carballo, JL; Rodriguez-Adrada, E; Miranda, BR; Martin, MV; Grp ICA-SEMES. Prognostic value of chest radiographs in patients with acute heart failure: the Radiology in Acute Heart Failure (RAD-ICA) study. EMERGENCIAS. 2019; 31(5) 360-361. FI: 3.173. Cuartil: 1. (Editorial Material).*
- *Miro, O; Gil, V; Rossello, X; Martin-Sanchez, FJ; Llorens, P; Jacob, J; Herrero, P; Mateo, SH; Richard, F; Escoda, R; Fuentes, M; Mojarro, EM; Llauger, L; Bueno, H; Pocock, S; Gil, C; Garmila, P; Adrada, ER; Perdigones, J; Escobar, L; Xipell, C; Sanchez, C; Gaytan, JM; Perez-Dura, MJ; Pavon, J; Alvarez, AB; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MAE; Aguirre, A; Pedragosa, MA; Alonso, MI; Ruiz, F; Franco, JM; Diaz, E; Mecina, AB; Tost, J; Sanchez, S; Pinera, P; Garate, RT; Rizzi, MA; Herrera, S; Cabello, I; Perez, JMA; Diez, MPL; Alvarez, JV; Morilla, AA; Irimia, A; Marquina, V; Jimenez, I; Hernandez, N; Ramos, S; Lopez, A; Andueza, JA; Romero, R; Calvache, R; Lorca, MT; Calderon, L; Arriaga, BA; Sierra, B; Becquer, LT; La Salle, GC; Urbano, CA; Ferrer, ES; Grp ICA-SEMES. Patients with acute heart failure discharged from the emergency department and classified as low risk by the MEESSI score (multiple risk estimate based on the Spanish emergency department scale): prevalence of adverse events and predictability. EMERGENCIAS. 2019; 31(6) 407-412. FI: 3.173. Cuartil: 1. (Article).*
- *Blanco, IM. A thousand deaths from gender-based violence. EMERGENCIAS. 2019; 31(5) 318-326. FI: 3.173. Cuartil: 1. (Article).*
- *Miro, O; Martin-Sanchez, FJ; Jacob, J; Herrero-Puente, P; Gil, V; Llorens, P; Fuentes, M; Gil, C; Alonso, H; Perez-Llantada, E; Garcia, GL; Cadenas, MS; Escoda, R; Xipell, C; Sanchez, C; Jerez, A; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Tost, J; Berenguer, M; Donea, R; Ramon, SS; Rodriguez, VC; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar-Arbe, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Haro, A; Richard, F; Perez, JMA; Diez, MPL; Puente, PH; Alvarez, JV; Garcia, BP; Garcia, MG; Gonzalez, MS; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Gil, A; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Serralta, MTL; Jave, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; La-Salle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Garrido, JM; Lucas-Imbernon, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Carballo, JL; Rodriguez-Adrada, E; Miranda, BR; Martin, MV; Casanova, PC; Alvaos, JE; Grp Invest ICA-SEMES. Sacubitril/valsartan-treated patients with exacerbated acute heart failure: approaches to care in the emergency department and on the ward. EMERGENCIAS. 2019; 31(1) 5-14. FI: 3.173. Cuartil: 1. (Article).*
- *Craig, SS; Auerbach, M; Cheek, JA; Babl, FE; Oakley, E; Nguyen, L; Lyttle, MD; Mistry, RD; Dixon, A; Rino, P; Kohn-Loncarica, G; Dalziel, SR; Tzimenatos, L; Mistry, R; Brown, K; Powell, E; Nagler, J; Cortis, A; Zamarripa, A; Schnadower, D; Jamal, N;*

*Stanley, R; Weiss, A; Hickey, RW; Nelson, D; Pearce, J; Pruitt, C; Bulloch, B; Carstairs, K; Aronson, P; Fishe, J; Krause, E; Louie, J; Randell, K; Sivitz, A; Fein, D; Krief, W; Waseem, M; Vazquez, H; Arnold, D; Hennes, H; Wilkinson, M; Klein, E; Millar, K; Grewal, S; Reid, S; Fitzpatrick, E; Kids, S; Principi, T; Sawyer, S; Mackenzie, L; Messahel, S; Parikh, A; Hartshorn, S; Lavigne-Smith, H; Taylor, F; Cowton, A; Dougherty, T; Criddle, J; Cantle, F; Darby, D; Hoyle, A; Roland, D; Owens, S; Gough, C; Bevan, C; Robinson, G; Florey, E; Potier, K; Burke, D; Mullen, N; Bayreuther, J; Jacobs, M; Anderson, M; Blackburn, C; Bolger, T; Mc Namara, R; Maney, JA; Patton, G; Mulligan, J; Alcock, R; Foster, S; Browning, J; Powell, C; Roberts, Z; Dickson-Jardine, K; Neutze, J; Dalziel, S; Zhang, M; Rao, A; Dalton, S; Phillips, N; George, S; Furyk, J; Kochar, A; Craig, S; Babl, F; Borland, M; Van de Voorde, P; Enfants, N; Malades, H; Cheron, G; Mintegi, S; de Pedro, J; Velasco, R; Maranon, R; PERN. Preferred learning modalities and practice for critical skills: a global survey of paediatric emergency medicine clinicians. EMERGENCY MEDICINE JOURNAL. 2019; 36(5) 273-. FI: 2.491. Cuartil: 1. (Article).*

- *Díez JJ; Anda E; Sastre J; Pérez Corral B; Álvarez-Escolá C; Manjón L; Paja M; Sambo M; Santiago Fernández P; Blanco Carrera C; Galofré JC; Navarro E; Zafón C; Sanz E; Oleaga A; Bandrés O; Donnay S; Megía A; Picallo M; Sánchez Ragnarsson C; Baena-Nieto G; Fernández García JC; Lecumberri B; Sahún de la Vega M; Romero-Lluch AR; Iglesias P. Correction to: Prevalence and risk factors for hypoparathyroidism following total thyroidectomy in Spain: a multicentric and nation-wide retrospective analysis. ENDOCRINE. 2019; 66(2) 405-415. FI: 3.235. Cuartil: 3. (Article).*

- *D?ez, JJ; Anda, E; Sastre, J; Corral, BP; Alvarez-Escol?, C; Manj?n, L; Paja, M; Sambo, M; Fern?ndez, PS; Carrera, CB; Galofr?, JC; Navarro, E; Zaf?n, C; Sanz, E; Oleaga, A; Bandr?s, O; Donnay, S; Meg?a, A; Picallo, M; Ragnarsson, CS; Baena-Nieto, G; Garc?a, JCF; Lecumberri, B; de la Vega, MS; Romero-Lluch, AR; Iglesias, P. Prevalence and risk factors for hypoparathyroidism following total thyroidectomy in Spain: a multicentric and nation-wide retrospective analysis. ENDOCRINE. 2019; 66(2) 416-416. FI: 3.235. Cuartil: 3. (Article).*

- *Civantos, S; Duran, M; Flandez, B; Merino, M; Navea, C; Guijarro, G; Martell, N; Monereo, S. Predictors of postpartum diabetes mellitus in patients with gestational diabetes. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(2) 83-89. FI: 1.18. Cuartil: 4. (Article).*

- *Garcia-Peris, P; Gimeno, CV; Soriano, LF; Pulgar, IH; Lesmes, IB; Alvarez, MC; de la Camara, MM; Compes, CC. Protocol of implantation of screening for early detection of nutritional risk in a university hospital. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(8) 472-479. FI: 1.18. Cuartil: 4. (Article).*

- *Higuera-Pulgar, I; Ribed, A; Carrascal-Fabian, ML; Romero-Jimenez, RM; Velasco-Gimeno, C; Breton-Lesmes, I; Camblor-Alvarez, M; Cuerda-Compes, C; Garcia-Peris, P. Evolution of nutritional status and survival in patients with cancer on tyrosine kinase inhibitors treatment. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(9) 555-562. FI: 1.18. Cuartil: 4. (Article).*

- *Lozano, HM; Rincon, ON; Marin, CN; Alonso, AC; Lledo, JG; Viso, LM; Marin-Jimenez, I. Retrograde single-balloon enteroscopy for the removal of a mollusc shell retained in the ileum of a patient with active Crohn's disease. ENDOSCOPY. 2019; 51(1) 14-15. FI: 7.341. Cuartil: 1. (Article).*

- *Cortes, LEL; Martinez, AM; de Mandojana, MFM; Martin, N; Bermejo, MG; Aznar, JS; Bruguera, EV; Cantero, MJP; Gentil, PR; Vicente, MD; Gonzalez-Ramallo, VJ; Gonzalez, MAP; de Mendarozqueta, MMGR; Sanchez, MAG; Mendizabal, PS; Mejia, ED; Guerrero, MP; Orbaiz, CG; Lezcano, MG; Ozamiz, AB; Navarro, MVG; Roig, SO; Barberi, EL; Martinez, FS; Rubio, MM; Vizoso, MD; Soc Espanola Enfermedades; Soc Espanola Hospitalizacion. Executive summary of outpatient parenteral antimicrobial therapy: Guidelines of the Spanish Society of Clinical Microbiology and Infectious Diseases and the Spanish Domiciliary Hospitalisation Society. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Pulido-Perez, A; Nieto-Benito, LM; Sanchez-Herrero, A; Suarez-Fernandez, R. Response to oral ivermectin in three cases of follicular cutaneous larva migrans. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(6) 405-409. FI: 1.654. Cuartil: 4. (Article).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J;*

*Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(6) 415-416. FI: 1.654. Cuartil: 4. (Letter).*

- *Villanueva, V; Bermejo, P; Montoya, J; Massot-Tarrus, A; Galiano, ML; Toledo, M; Rodriguez-Uranga, JJ; Bertol, V; Mauri, JA; Poza, JJ; Bonet, M; Castro-Vilanova, MD; Ruiz-Gimenez, J; Lopez-Gonzalez, FJ; Rodriguez-Osorio, X; Tortosa-Conesa, D; Ojeda, J; Giner, P; Garces, M; Alvarez, BM; Quiroga-Subirana, P; Esteve, P; Baiges, JJ; Hampel, K. MONOZEB: Long-term observational study of eslicarbazepine acetate monotherapy. EPILEPSY & BEHAVIOR. 2019; 97 51-59. FI: 2.508. Cuartil: 2. (Article).*

- *Lopez-Azor, JC; Vicent, L; Valero-Masa, MJ; Esteban-Fernandez, A; Gomez-Bueno, M; Perez, A; Diez-Villanueva, P; De-Juan, J; Manuel-Iniesta, A; Bover, R; del Prado, S; Martinez-Selles, M. Safety of sacubitril/valsartan initiated during hospitalization: data from a non-selected cohort. ESC HEART FAILURE. 2019; 6(6) 1161-1166. FI: 3.902. Cuartil: 2. (Article).*

- *Flores, CH; Ortiz-Bautista, C; Calvo, JC; Fernandez-Aviles, F. When winter comes with all itsmight, so does the fright. EUROPEAN HEART JOURNAL. 2019; 40(32) 2740-2740. FI: 22.673. Cuartil: 1. (Editorial Material).*

- *Fosbol, EL; Park, LP; Rizk, H; Clara, L; Sanchez, M; Casabe, JP; Nacinovich, F; Oses, PF; Ronderos, R; Sucari, A; Thierer, J; Altclas, J; Kogan, S; Spelman, D; Athan, E; Harris, O; Kennedy, K; Tan, R; Gordon, D; Papanicolas, L; Korman, T; Kotsanas, D; Dever, R; Konecny, P; Lawrence, R; Rees, D; Feneley, MP; Harkness, J; Jones, P; Post, J; Reinbott, P; Ryan, S; Gattringer, R; Wiesbauer, F; Andrade, AR; de Brito, ACP; Guimaraes, AC; Grinberg, M; Mansur, AJ; Siciliano, RF; Strabelli, TMV; Vieira, MLC; Tranchesi, RAD; Paiva, MG; Fortes, CQ; Ramos, AD; Weksler, C; Ferraiuoli, G; Golebiovski, W; Lamas, C; Karlowsky, CJA; Keynan, Y; Morris, AM; Jones, SB; Garcia, P; Cereceda, M; Fica, A; Mella, RM; Fernandez, R; Franco, L; Gonzalez, J; Jaramillo, AN; Barsic, B; Bukovski, S; Krajinovic, V; Pangercic, A; Rudez, I; Vincelj, J; Freiberger, T; Pol, J; Zaloudikova, B; Ashour, Z; El Kholy, A; Mishaal, M; Osama, D; Rizk, H; Aissa, N; Alauzet, C; Alla, F; Campagnac, C; Doco-Lecompte, T; Selton-Suty, C; Casalta, JP; Fournier, PE; Habib, G; Raoult, D; Thuny, F; Delahaye, F; Delahaye, A; Vandenesch, F; Donal, E; Donnio, PY; Flecher, E; Michelet, C; Revest, M; Tattevin, P; Chevalier, F; Jeu, A; Remadi, JP; Rusinaru, D; Tribouilloy, C; Bernard, Y; Chirouze, C; Hoen, B; Leroy, J; Plesiat, P; Neuerburg, C; Mazaheri, B; Naber, C; Athanasia, S; Deliolanis, I; Giamarellou, H; Thomas, T; Giannitsioti, E; Papanicolaou, K; Mylona, E; Paniara, O; Papanikolaou, K; Pyros, J; Skoutelis, A; Sharma, G; Francis, J; Nair, L; Thomas, V; Venugopal, K; Hannan, MM; Hurley, JP; Cahan, A; Gilon, D; Israel, S; Korem, M; Rubinstein, E; Strahilevitz, J; Durante-Mangoni, E; Mattucci, I; Pinto, D; Agrusta, F; Senese, A; Ragone, E; Utili, R; Cecchi, E; De Rosa, F; Forno, D; Imazio, M; Trinchero, R; Grossi, P; Lattanzio, M; Toniolo, A; Goglio, A; Raglio, A; Ravasio, V; Rizzi, M; Suter, F; Carosi, G; Magri, S; Signorini, L; Kanafani, Z; Kanj, SS; Sharif-Yakan, A; Abidin, I; Tamin, SS; Martinez, ER; Nieto, GIS; van der Meer, JTM; Chambers, S; Holland, D; Morris, A; Raymond, N; Read, K; Murdoch, DR; Dragulescu, S; Ionac, A; Mornos, C; Butkevich, OM; Chipigina, N; Kirill, O; Vadim, K; Vinogradova, T; Edathodu, J; Halim, M; Liew, YY; Tan, RS; Lejko-Zupanc, T; Logar, M; Mueller-Premru, M; Commerford, P; Commerford, A; Deetlefs, E; Hansa, C; Ntsekhe, M; Almela, M; Armero, Y; Azqueta, M; Castaneda, X; Cervera, C; Falces, C; de-la-Maria, CG; Fita, G; Gatell, JM; Heras, M; Llopis, J; Marco, F; Mestres, CA; Miro, JM; Moreno, A; Ninot, S; Pare, C; Pericas, JM; Ramirez, J; Rovira, I; Sitges, M; Anguera, I; Font, B; Guma, JR; Bermejo, J; Bouza, E; Fernandez, MAG; Gonzalez-Ramallo, V; Marin, M; Munoz, P; Pedromingo, M; Roda, J; Rodriguez-Creixems, M; Solis, J; Almirante, B; Fernandez-Hidalgo, N; Tornos, P; de Alarcon, A; Parra, R; Alestig, E; Johansson, M; Olaison, L; Snygg-Martin, U; Pachirat, O; Pachirat, P; Pussadhamma, B; Senthong, V; Casey, A; Elliott, T; Lambert, P; Watkin, R; Eyton, C; Klein, JL; Bradley, S; Kauffman, C; Bedimo, R; Chu, VH; Corey, GR; Crowley, AL; Douglas, P; Drew, L; Fowler, VG; Holland, T; Lalani, T; Mudrick, D; Samad, Z; Sexton, D; Stryjewski, M; Wang, A; Woods, CW; Lerakis, S; Cantey, R; Steed, L; Wray, D; Dickerman, SA; Bonilla, H; DiPersio, J; Salstrom, SJ; Baddley, J; Patel, M; Peterson, G; Stancoven, A; Levine, D; Riddle, J; Rybak, M; ICE-PLUS Investigators. The association between vegetation size and surgical treatment on 6-month mortality in left-sided infective endocarditis. EUROPEAN HEART JOURNAL. 2019; 40(27) 2243-2251. FI: 22.673. Cuartil: 1. (Article).*

- *Perez-Castellanos, A; Atienza, F; Bueno, H; Sousa, L; Fernandez-Aviles, F. Tako-tsubo cardiomyopathy triggered by multiple shocks in electrical storm. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(7) 667-680. FI: 3.813. Cuartil: 2. (Article).*

- *Rossello, X; Gil, V; Escoda, R; Jacob, J; Aguirre, A; Martin-Sanchez, FJ; Llorens, P; Puente, PH; Rizzi, M; Raposeiras-Roubin, S; Wussler, D; Muller, CE; Gayat, E; Mebazaa, A; Miro, O; Fuentes, M; Gil, C; Alonso, H; Perez-Llantada, E; Martin-Sanchez, FJ; Garcia, GL; Cadenas, MS; Xipell, C; Sanchez, C; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Tones, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Tost, J; Berenguer, M; Donea, R; Ramon, SS; Rodriguez, VC; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar-Arbe, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Haro, A; Richard, F; Perez, JMA; Diez, MPL; Alvarez, JV; Garcia, BP; Garcia, MG; Gonzalez, MS; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Serralta, MTL; Jave, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Garrido, JM; Lucas-Imbernon, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Carballo, JL; Rodriguez-*

*Adrada, E; Miranda, BR; ICA-SEMES Res Grp. Impact of identifying precipitating factors on 30-day mortality in acute heart failure patients. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(8) 771-774. FI: 3.813. Cuartil: 2. (Article).*

- *Wijers, IGM; Ayala, A; Rodriguez-Blazquez, C; Rodriguez-Laso, A; Rodriguez-Garcia, P; Prados-Torres, A; Rodriguez-Rodriguez, V; Forjaz, MJ. The Disease Burden Morbidity Assessment in older adults and its association with mortality and other health outcomes. EUROPEAN JOURNAL OF AGEING. 2019; 16(2) 193-203. FI: 2.413. Cuartil: 2. (Article).*
- *Argiles, G; Andre, T; Hollebecque, A; Calvo, A; Dahan, L; Cervantes, A; Leger, C; Amellal, N; Fougeray, R; Tabernero, J. Phase I dose-escalation of trifluridine/tipiracil in combination with oxaliplatin in patients with metastatic colorectal cancer. EUROPEAN JOURNAL OF CANCER. 2019; 116 158-168. FI: 7.275. Cuartil: 1. (Article).*
- *Conteduca, V; Castro, E; Wetterskog, D; Scarpi, E; Jayaram, A; Romero-Laorden, N; Olmos, D; Gurioli, G; Lolli, C; Sacz, MI; Puente, J; Schepisi, G; Salvi, S; Wingate, A; Medina, A; Querol-Ninerola, R; Marin-Aguilera, M; Arranz, JA; Fornarini, G; Basso, U; Mellado, B; Gonzalez-Billalabeitia, E; Attard, G; De Giorgi, U. Plasma AR status and cabazitaxel in heavily treated metastatic castration-resistant prostate cancer. EUROPEAN JOURNAL OF CANCER. 2019; 112 12-19. FI: 7.275. Cuartil: 1. (Article).*
- *Alonso, B; Latorre, MC; Cruces, R; Ampuero, D; Haces, L; Martin-Rabadan, P; Sanchez-Carrillo, C; Rodriguez, B; Bouza, E; Muñoz P; Guembe, M. Evaluation of the Alfred turbidity monitoring system (Alifax) following sonication in the diagnosis of central venous catheter colonization. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(3) 607-614. FI: 2.837. Cuartil: 2. (Article).*
- *Agnelli, C; Valerio, M; Bouza, E; Vena, A; Guinea, J; Martinez-Jimenez, MD; Marcos-Zambrano, LJ; Escribano, P; Munoz, P; COMIC Study Grp; Collaborative Grp Mycosis. Persistent Candidemia in adults: underlying causes and clinical significance in the antifungal stewardship era. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(9) 1665-1670. FI: 2.837. Cuartil: 2. (Article).*
- *Sanchez-Carrillo, C; Pescador, P; Ricote, R; Fuentes, J; Losada, C; Candela, A; Cercenado, E. Evaluation of the Alfred AST (R) system for rapid antimicrobial susceptibility testing directly from positive blood cultures. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(9) 1737-1742. FI: 2.837. Cuartil: 2. (Article).*
- *Machado, ACD; Boas, PV; Arianayagam, S; Gran, F; Lesort, C; Frings, V. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(2) 238-239. FI: 2.782. Cuartil: 2. (Article).*
- *Rosell-Diaz, AM; Nieto-Benito, LM; Hernandez-Aragues, I; Bergon-Sendin, M; Boas, PV. Dermpath & Clinic: Cutaneous angioleiomyoma. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(4) 447-448. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Frings, VG; Arianayagam, S; Boas, PV; Gran, F; Lesort, C; Machado, A. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(4) 446-447. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Boas PV; Arianayagam S; Machado ÁCDS; Gran F; Lesort C; Frings V. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(1) 106-107. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Gran, F; Arianayagam, S; Lesort, C; Machado, A; Boas, PV; Frings, VG. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(3) 345-346. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Lesort, C; Gran, F; Arianayagam, S; Machado, A; Vilas Boas, P; Frings, VG. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(1) 105-106. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Arianayagam, S; Gran, F; Lesort, C; Machado, A; Boas, PV; Frings, V. What's new this month?. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(6) 673-674. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Sanchez-Herrero, A; Hernandez-Aragues, I; Perez-Martinez, A; Parra-Blanco, V; Boas, PV. Dermpath and Clinic: Chronic scaly papules on the back and lower extremities. EUROPEAN JOURNAL OF DERMATOLOGY. 2019; 29(5) 568-569. FI: 2.782. Cuartil: 2. (Editorial Material).*
- *Olabarri, M; Gonzalez-Peris, S; Vazquez, P; Gonzalez-Posada, A; Sanz, N; Vinuesa, A; Diez, N; Benito, J; Mintegi, S. Management of anaphylaxis in Spain: pediatric emergency care providers' knowledge. EUROPEAN JOURNAL OF EMERGENCY MEDICINE. 2019; 26(3) 163-167. FI: 2.17. Cuartil: 2. (Article).*
- *Miro, O; Sarasola, AG; Fuenzalida, C; Calderon, S; Jacob, J; Aguirre, A; Wu, D; Rizzi, MA; Malchair, P; Haro, A; Herrera, S; Gil, V; Martin-Sanchez, FJ; Llorens, P; Puente, PH; Bueno, H; Rodriguez, AD; Muller, CE; Mebazaa, A; Chioncel, O; Alquezar-Arbe, A; Fuentes, M; Gil, C; Alonso, H; Perez-Llantada, E; Martin-Sanchez, FJ; Garcia, GL; Cadenas, MS; Escoda, R; Xipell, C; Sanchez, C; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Tost, J; Berenguer, M; Donea, R; Ramon, SS; Rodriguez, VC; Pinera, P; Nicolas, JAS; Garate, RT; Rizzi, MA; Roset, A; Cabello, I; Richard, F; Perez, JMA; Diez, MPL; Alvarez, JV; Garcia, BP; Garcia, MG; Gonzalez, MS; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Serralta, MTL; Jave, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Garrido, JM; Lucas-Imbernon, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Carballo, JL; Rodriguez-Adrada, E; Miranda, BR; ICA-SEMES Res Grp. Departments involved during the first episode of acute heart failure and analysis of emergency department revisits and rehospitalisations: an outlook through the NOVICA cohort. EUROPEAN JOURNAL OF HEART FAILURE. 2019; 21(11) 1353-1365. FI: 11.627. Cuartil: 1. (Article).*

- *Javaloyes, P; Miro, O; Gil, V; Martin-Sanchez, FJ; Jacob, J; Herrero, P; Takagi, K; Alquezar-Arbe, A; Martin, E; Bibiano, C; Escoda, R; Gil, C; Fuentes, M; Garcia, GL; Perez, JMA; Jerez, A; Tost, J; Llauger, L; Romero, R; Garrido, JM; Rodriguez-Adrada, E; Sanchez, C; Rossello, X; Parissis, J; Mebazaa, A; Chioncel, O; Llorens, P; Alonso, H; Perez-Llantada, E; Cadenas, MS; Xipell, C; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Pedragosa, MA; Maso, SM; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Berenguer, M; Donea, R; Ramon, SS; Rodriguez, VC; Pinera, P; Nicolas, JAS; Garate, RT; Rizzi, MA; Herrera, S; Cabello, I; Haro, A; Richard, F; Diez, MPL; Alvarez, JV; Garcia, BP; Garcia, MG; Gonzalez, MS; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Andueza, JA; Ruiz, M; Calvache, R; Serralta, MTL; Jave, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Lucas-Imbernon, FJ; Gaya, R; Mir, M; Rodriguez, B; Carballo, JL; Miranda, BR; ICA-SEMES Res Grp. Clinical phenotypes of acute heart failure based on signs and symptoms of perfusion and congestion at emergency department presentation and their relationship with patient management and outcomes. EUROPEAN JOURNAL OF HEART FAILURE. 2019; 21(10) 1231-1244. FI: 11.627. Cuartil: 1. (Article).*

- *Garcia-Martin, E; Pernia-Lopez, S; Martinez-Ortega, PA; Monje, B; Ruiz-Martinez, C; Sanjurjo-Saez, M. Intranasal bevacizumab treatment on epistaxis in hereditary haemorrhagic telangiectasia: a case report. EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE. 2019; 26(4) 226-228. FI: 0.892. Cuartil: 4. (Article).*

- *Miro, O; Padrosa, J; Takagi, K; Gayat, E; Gil, V; Llorens, P; Martin-Sanchez, FJ; Herrero-Puente, P; Jacob, J; Montero, MM; Tost, J; Diez, MPL; Traveria, L; Torres-Garate, R; Alonso, MI; Aguera, C; Valero, A; Javaloyes, P; Peacock, WF; Bueno, H; Mebazaa, A; Fuentes, M; Gil, C; Alonso, H; Garmila, P; Garcia, GL; Yanez-Palma, MC; Lopez, SI; Escoda, R; Xipell, C; Sanchez, C; Gaytan, JM; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Juan, MA; Aguirre, A; Morales, JE; Maso, SM; Ruiz, F; Franco, JM; Mecina, AB; Sanchez, S; Carbajosa, V; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Richard, F; Perez, JMA; Alvarez, JV; Garcia, BP; Gonzalez, MGGYS; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Ramos, S; Lopez, A; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Lorca, MT; Calderon, L; Arriaga, BA; Sierra, B; Mojarro, EM; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Garrido, M; Lucas, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Sanchez, N; Carballo, JL; Rodriguez-Adrada, E; Rodriguez, B; ICA-SEMES Res Grp. Influence of the length of hospitalisation in post-discharge outcomes in patients with acute heart failure: Results of the LOHRCA study. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 64 63-71. FI: 4.329. Cuartil: 1. (Article).*

- *de Miguel-Diez, J; Lopez-de-Andres, A; Jimenez-Trujillo, I; Hernandez-Barrera, V; Jimenez-Garcia, R; Lorenzo, A; Pedrajas, JM; Visona, A; Lopez-Miguel, P; Monreal, M; Adarraga, MD; Aibar, MA; Aibar, J; Alfonso, M; Amado, C; Aranda, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Carrasco, C; Cruz, AJ; de Miguel-Diez, J; del Toro, J; Diaz-Pedroche, MC; Diaz-Peromingo, JA; Falga, C; Fernandez-Capitan, C; Fidalgo, MA; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Morillo, M; Garcia-Ortega, A; Gavin, O; Gomez, V; Gonzalez-Martinez, J; Grau, E; Guijarro, R; Guirado, L; Gutierrez, J; Hernandez-Blasco, L; Isern, V; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Jimenez, J; Jou, I; Joya, MD; Lalueza, A; Lima, J; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Lumbierres, M; Madridano, O; Marchena, PJ; Martin-Martos; Monreal, M; Morales, MV; Nieto, JA; Nunez, A; Nunez, MJ; Olivares, MC; Otalora, S; Otero, R; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Perez-Jacoiste, A; Penis, ML; Pesce, ML; Porras, JA; Riesco, D; Rivas, A; Rodriguez-Davila, MA; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Sahuquillo, JC; Sala-Sainz, MC; Samperiz, A; Sanchez-Munoz-Torrero, JF; Sancho, T; Soler, S; Soto, MJ; Surinach, JM; Tolosa, C; Torrents, A; Torres, MI; Trujillo-Santos, J; Uresandi, F; Usandizaga, E; Valle, R; Vela, J; Vidal, G; Villalobos, A; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanasschc, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Farge-Bancel, D; Hij, A; Merah, A; Mahe, I; Moustafa, F; Braester, A; Brenner, B; Ellis, M; Tzoran, I; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Cattabiani, C; Ciammaichella, M; Dentali, F; Di Micco, P; Giorgi-Pierfranceschi, M; Grandone, E; Imbalzano, E; Maida, R; Mastroiacovo, D; Ngoc, V; Pace, F; Parisi, R; Pesavento, R; Prandoni, P; Quintavalla, R; Rocci, A; Siniscalchi, C; Sotgiu, P; Tiraferri, E; Tufano, A; Visona, A; Zalunardo, B; Kalejs, R; Skride, A; Vitola, B; Bosevski, M; Zdraveska, M; Ii, B; Fresa, M; Mazzolai, L; Caprini, J; Bui, HM; RIETE Investigators. Mortality after pulmonary embolism in patients with diabetes. Findings from the RIETE registry. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 70 24-32. FI: 4.329. Cuartil: 1. (Article).*

- *Perez-Alvarez, R; Brito-Zeron, P; Kostov, B; Feijoo-Masso, C; Fraile, G; Gomez-de-la-Torre, R; De-Escalante, B; Lopez-Dupla, M; Alguacil, A; Chara-Cervantes, J; Perez-Conesa, M; Rascon, J; Garcia-Morillo, JS; Perez-Guerrero, P; Fonseca-Aizpuru, E; Akasbi, M; Bonet, M; Callejas, JL; Pallares, L; Ramos-Casals, M; De-la-Red, G; Calvo, E; Soler, C; Peral-Gutierrez, E; Gomez-Cerezo, JF; Cruz-Caparros, G; Rodriguez-Fernandez, S; Pinilla, B; Gato, A; Chamorro, AJ; Morcillo, C; Robles, A; Ojeda, I; Vives, MJ; de Miguel-Campo, B; Penades, M; De-Vicente, M; Bosch, X; Perez-de-Lis, M; Gonzalez-Garcia, A; Yllera, C; Gracia-Tello, B; Perez-Gonzalez, A; Pedrosa-Aragon, M; Tolosa, C; Siso-Almirall, A; SarcoGEAS-SEMI Registry. Systemic phenotype of sarcoidosis associated with radiological stages. Analysis of 1230 patients. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 67 89-96. FI: 4.329. Cuartil: 1. (Article).*

- *Jacob, J; Llauger, L; Herrero-Puente, P; Martin-Sanchez, FJ; Llorens, P; Gil, V; Fuentes, M; Miro, O; Gil, C; Alonso, H; Perez-Llantada, E; Llopis-Garcia, G; Santos-Matallana, MC; Barrenechea-Moxo, MLD; Salgado-Perez, L; Escoda, R; Xipell, C; Sanchez, C; Gaytan, JM; Perez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; Lopez-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Pedragosa, MA; Minguez-Maso, S; Alonso, MI; Ruiz, F; Franco, JM; Mecina, AB; Tost, J; Berenguer, M; Donea, R; Sanchez-Ramon, S; Carbajosa-Rodriguez, V; Pinera, P; Sanchez-Nicolas, JA; Garate, RT; Alquezar-Arbe, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Haro, A; Richard, F; Alvarez-Perez, JM; Lopez-Diez, MP; Vazquez-Alvarez, J; Prieto-Garcia, B; Garcia, MG; Gonzalez, MS; Javaloyes, P; Marquina, V; Jimenez, I; Hernandez, N; Brouzet, B; Espinosa, B; Andueza, JA; Romero, R; Ruiz, M; Calvache, R; Serralta, MTL; Javez, LEC; Arriaga, BA; Bergua, BS; Mojarro, EM; Jimenez, BSA; Becquer, LT; Burillo, G; Garcia, LL; LaSalle, GC; Urbano, CA; Soto, ABG; Padial, ED; Ferrer, ES; Garrido, JM; Lucas-Imbernon, FJ; Gaya, R; Bibiano, C; Mir, M; Rodriguez, B; Carballo, JL; Rodriguez-Adrada, E; Miranda, BR; ICASEMES-Res Grp. Acute heart failure and adverse events*

*associated with the presence of renal dysfunction and hyperkalaemia. EAHFE- renal dysfunction and hyperkalaemia. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 69 77-85. FI: 4.329. Cuartil: 1. (Article).*

- *Arminanzas, C; Farinas-Alvarez, C; Zarauza, J; Munoz, P; Ramallo, VG; Selles, MM; Meda, JMM; Pericas, JM; Goenaga, MA; Burgos, GO; Alvarez, RR; Corral, LC; Galvez-Acebal, J; Marcos, FJM; Farinas, MC; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Amado, C; Castillo, CA; Garcia, AA; Belaustegui, MC; Izquierdo, RG; Garcia, I; Gonzalez-Rico, C; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Sarralde, A; Teira, R; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Role of age and comorbidities in mortality of patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 46-52. FI: 4.329. Cuartil: 1. (Article).*

- *Cuello, JP; Gines, MLM; Kuhle, J; Dominguez, JMG; Ros, AL; Delgado, FR; Higueras, Y; Rivera, AM; Briceno, HG; Larroca, SGT; De Leon-Luis, J; Michalak, Z; Barro, C; Lafuente, RA; Heras, SM; Velasco, JIF; Tejeda-Velarde, A; Dominguez-Mozo, MI; Muriel, A; de Andres, C; Villar, LM. Neurofilament light chain levels in pregnant multiple sclerosis patients: a prospective cohort study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(9) 1200-1204. FI: 4.516. Cuartil: 1. (Article).*

- *Rincon, JO; Regi, AR; Leyte, MG; Martin, LC; Pascual, RP; Farto, JCA. Hepatic supraselective radioembolization, today and new horizons. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 2019; 46(12) 2412-2413. FI: 7.081. Cuartil: 1. (Letter).*

- *Prieto, LJ; Ruiz, Y; Perez, R; Luis, JD. Prenatal diagnosis of pericallosal lipoma: Systematic review. EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY. 2019; 23(6) 764-782. FI: 2.51. Cuartil: 2. (Review).*

- *Ashkenazi I; Sevi R; Turegano-Fuentes F; Walsh MS; Olsha O; Schecter WP; Alfici R. Hemodynamic consequences of extremity injuries following a terrorist bombing attack: retrospective cohort study. EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY. 2019; 45(5) 865-870. FI: 2.139. Cuartil: 2. (Article).*

- *Garcia-Martin, E; Manrique-Rodriguez, S; Fernandez-Llamazares, CM; Goicoechea-Diezhondino, M; Alvarez-Blanco, O; Garcia-Morin, M; Sanjurjo-Saez, M. Variability in management and outcomes of therapy with eculizumab in atypical hemolytic uremic syndrome. EXPERT OPINION ON ORPHAN DRUGS. 2019; 7(12) 525-533. FI: 0.805. Cuartil: 4. (Article).*

- *Tirelli, G; Gardenal, N; Gatto, A; Bonini, P; Tofanelli, M; Fernandez-Fernandez, MM. Is there a role for ultrasonic surgery in transoral laryngeal cancer resections?. EXPERT REVIEW OF MEDICAL DEVICES. 2019; 16(4) 275-279. FI: 2.2. Cuartil: 3. (Article).*

- *Solan, L; Kwon, M; Carbonell, D; Dorado, N; Balsalobre, P; Serrano, D; Chicano-Lavilla, M; Anguita, J; Gayoso, J; Diez-Martin, JL; Martinez-Laperche, C; Buno, I. ST2 and REG3 alpha as Predictive Biomarkers After Haploidentical Stem Cell Transplantation Using Post-transplantation High-Dose Cyclophosphamide. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Article).*

- *Gonzalez, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Perez, R; Alvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; Lopez-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).*

- *Benito, Y; Martinez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodriguez-Perez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).*

- *Penzol, MJ; de Pablo, GS; Llorente, C; Moreno, C; Hernandez, P; Dorado, ML; Parellada, M. Functional Gastrointestinal Disease in Autism Spectrum Disorder: A Retrospective Descriptive Study in a Clinical Sample. FRONTIERS IN PSYCHIATRY. 2019; 10 - . FI: 2.849. Cuartil: 2. (Article).*

- *Guerrero-Beltran, C; Prieto, A; Leal, M; Jimenez, JL; Munoz-Fernandez, MA. Combination of G2-S16 dendrimer/dapivirine antiretroviral as a new HIV-1 microbicide. FUTURE MEDICINAL CHEMISTRY. 2019; 11(23) 3005-3013. FI: 3.607. Cuartil: 2. (Article).*

- *Ortiz, JD; Mulas, SG; Alegria, JCA; Lledo, JG; Carazo, LP; Rodriguez, BM; Leyte, MG; Nogales, O. Subcapsular hepatic haematoma after endoscopic retrograde cholangiopancreatography. A rare complication with high morbidity and mortality. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(1) 23-27. FI: 1.581. Cuartil: 4. (Article).*

- *Carrion-Martin, L; Lucendo-Jimenez, L; Ordieres-Ortega, L; Piqueras-Ruiz, S; Cano-Ballesteros, JC; Hernando-Alonso, AI; Banares, R. Pancreaticopleural fistula associated with choledocholithiasis: An infrequent complication of acute pancreatitis. GASTROENTEROLOGIA Y HEPATOLOGIA. 2019; 42(2) 105-106. FI: 1.581. Cuartil: 4. (Letter).*

- *de Santiago, ER; Burgos-Santamaria, D; Perez-Carazo, L; Brullet, E; Ciriano, L; Pons, FR; Turrion, MAD; Prados, S; Perez-Corte, D; Becerro-Gonzalez, I; Martinez-Moneo, E; Barturen, A; Fernandez-Urien, I; Lopez-Serrano, A; Ferre-Aracil, C; Lopez-Ibanez, M; Carbonell, C; Nogales, O; Martinez-Bauer, E; Lantaron, AT; Pagano, G; Vazquez-Sequeiros, E; Albillos, A; Garcia, AG; Volpato, N; Rodriguez-Escaja, C; Garcia-Alonso, FJ; Sevilla-Ribota, S; Prieto, HMM; Chavarria-Herbozo, CM; Murcia, O; Aranda-Hernandez, J; Borobia, R; Lledo, JG; Santander, C; Coto, D; Oyon, D; Polo, IO; Ruiz, MGH; Torres, CF; Sanz, MD; Penas, B; Parejo, S; Juzgado, D; Ibanez, A; TC-325 Collaboration Project; Spanish Assoc Gastroenterology. Hemostatic spray powder TC-325 for GI bleeding in a nationwide study: survival and predictors of failure via competing risks analysis. GASTROINTESTINAL ENDOSCOPY. 2019; 90(4) 581-. FI: 6.89. Cuartil: 1. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *de Barrios, O; Sanchez-Moral, L; Cortes, M; Ninfali, C; Profitos-Peleja, N; Martinez-Campanario, MC; Siles, L; del Campo, R; Jesus Fernandez-Acenero, M; Darling, DS; Castells, A; Maurel, J; Salas, A; Dean, DC; Postigo, A. ZEB1 promotes inflammation and progression towards inflammation-driven carcinoma through repression of the DNA repair glycosylase MPG in epithelial cells. GUT. 2019; 68(12) 2129-. FI: 19.819. Cuartil: 1. (Article).*

- *Borras, N; Orriols, G; Batlle, J; Perez-Rodriguez, A; Fidalgo, T; Martinho, P; Lopez-Fernandez, MF; Rodriguez-Trillo, A; Loures, E; Parra, R; Altisent, C; Cid, AR; Bonanad, S; Cabrera, N; Moret, A; Mingot-Castellano, ME; Navarro, N; Perez-Montes, R; Marcellin, S; Moreto, A; Herrero, S; Soto, I; Fernandez-Mosteirin, N; Jimenez-Yuste, V; Alonso, N; de Andres-Jacob, A; Fontanes, E; Campos, R; Paloma, MJ; Bermejo, N; Berrueco, R; Mateo, J; Arribalzaga, K; Marco, P; Palomo, A; Quismondo, NC; Inigo, B; Nieto, MD; Vidal, R; Martinez, MP; Aguinaco, R; Tenorio, JM; Ferreiro, M; Garcia-Frade, J; Rodriguez-Huerta, AM; Cuesta, J; Rodriguez-Gonzalez, R; Garcia-Candel, F; Dobon, M; Aguilar, C; Vidal, F; Corrales, I. Unraveling the effect of silent, intronic and missense mutations on VWF splicing: contribution of next generation sequencing in the study of mRNA. HAEMATOLOGICA. 2019; 104(3) 587-598. FI: 7.116. Cuartil: 1. (Article).*

- *Bernardo-Castineira, C; Saenz-de-Santa-Maria, I; Valdes, N; Astudillo, A; Balbin, M; Pitiot, AS; Jimenez-Fonseca, P; Scola, B; Tena, I; Molina-Garrido, MJ; Sevilla, MA; Beristein, E; Forga, L; Villabona, C; Oriola, J; Halperin, I; Suarez, C; Chiara, MD. Clinical significance and peculiarities of succinate dehydrogenase B and hypoxia inducible factor 1alpha expression in parasympathetic versus sympathetic paragangliomas. HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK. 2019; 41(1) 79-91. FI: 2.538. Cuartil: 1. (Article).*

- *Gonzalez-Mansilla, A; Martinez-Legazpi, P; Prieto, A; Goma, E; Haurigot, P; del Villar, CP; Cuadrado, V; Delgado-Montero, A; Prieto, R; Mombiela, T; Perez-David, E; Gonzalez, ER; Benito, Y; Yotti, R; Perez-Vallina, M; Fernandez-Aviles, F; Bermejo, J. Valve area and the risk of overestimating aortic stenosis. HEART. 2019; 105(12) 911-. FI: 5.213. Cuartil: 1. (Article).*

- *Juarez-Salcedo, LM; Castillo, JJ. Lymphoplasmacytic Lymphoma and Marginal Zone Lymphoma. HEMATOLOGY-ONCOLOGY CLINICS OF NORTH AMERICA. 2019; 33(4) 639-. FI: 3.107. Cuartil: 2. (Article).*

- *Garcia, AS; Carmona, NM; Martinez, AV; Estebanez, SA; Gravalos, TL; Sauco, IA; Guzman, UV; Gonzalez, NP; Vega, LC; Gomez, JML. Removal capacity of different high-flux dialyzers during postdilution online hemodiafiltration. HEMODIALYSIS INTERNATIONAL. 2019; 23(1) 50-57. FI: 1.839. Cuartil: 3. (Article).*

- *Hernandez-Gea, V; Procopet, B; Giraldez, A; Amitrano, L; Villanueva, C; Thabut, D; Ibanez-Samaniego, L; Silva-Junior, G; Martinez, J; Genesca, J; Bureau, C; Trebicka, J; Llop, E; Laleman, W; Palazon, JM; Castellote, J; Rodrigues, S; Gluud, LL; Ferreira, CN; Barcelo, R; Canete, N; Rodriguez, M; Ferlitsch, A; Mundi, JL; Gronbaek, H; Hernandez-Guerra, M; Sassatelli, R; Dell'Era, A; Senzolo, M; Abraldes, JG; Romero-Gomez, M; Zipprich, A; Casas, M; Masnou, H; Primignani, M; Krag, A; Nevens, F; Calleja, JL; Jansen, C; Robic, MA; Conejo, I; Catalina, MV; Albillos, A; Rudler, M; Alvarado, E; Guardascione, MA; Tantau, M; Bosch, J; Torres, F; Garcia-Pagan, JC; Fischer, P; Stefanescu, H; Pop, A; Laursen, SB; Turon, F; Baiges, A; Berbel, C; Cerda, E; Tellez, L; Allegretti, G; Macedo, G; Haldrup, D; Santos, P; Moura, M; Reis, D; Meireles, L; Sousa, P; Alexandrino, P; Navascues, C; Augustin, S; La Mura, V; Banares, R; Diaz, R; Gomez, ML; Ripoll, C; Int Variceal Bleeding. Preemptive-TIPS Improves Outcome in High-Risk Variceal Bleeding: An Observational Study. HEPATOLOGY. 2019; 69(1) 282-293. FI: 14.679. Cuartil: 1. (Article).*

- *Carmona, S; Martinez-Garcia, M; Paternina-Die, M; Barba-Muller, E; Wierenga, LM; Aleman-Gomez, Y; Pretus, C; Marcos-Vidal, L; Beumala, L; Cortizo, R; Pozzobon, C; Picado, M; Lucco, F; Garcia-Garcia, D; Soliva, JC; Tobena, A; Peper, JS; Crone, EA; Ballesteros, A; Vilarroya, O; Desco, M; Hoekzema, E. Pregnancy and adolescence entail similar neuroanatomical adaptations: A comparative analysis of cerebral morphometric changes. HUMAN BRAIN MAPPING. 2019; 40(7) 2143-2152. FI: 4.421. Cuartil: 1. (Article).*

- *Quintana-Villamandos, B; Pazo-Sayos, L; Arribas, SM; Rodriguez-Rodriguez, P; Boger, RH; Luneburg, N; Delgado-Baeza, E; Gonzalez, MC. Dronedarone induces regression of coronary artery remodeling related to better global antioxidant status. HYPERTENSION RESEARCH. 2019; 42(10) 1485-1494. FI: 2.941. Cuartil: 2. (Article).*

- *Bardon-Cancho, EJ; Garrido-Colino, C; Hernandez-Garcia, B; Parra-Blanco, V; Garcia-Morin, M; Cela, E; Dominguez, MC. Overlap between Angiolymphoid Hyperplasia with Eosinophilia and Kimura's Disease in a Child with Immune Thrombocytopenic Purpura. INDIAN JOURNAL OF DERMATOLOGY. 2019; 64(2) 159-161. FI: 1.523. Cuartil: 3. (Letter).*

- *Vigil-V?zquez, S; Butrague?o-Laiseca, L; L?pez-Gonz?lez, J; Garc?a-San Prudencio, M; Rinc?n-L?pez, E. A Case of Kawasaki Disease Presenting as Severe Myositis. INDIAN JOURNAL OF PEDIATRICS. 2019; 86(11) 1066-1067. FI: 1.508. Cuartil: 3. (Letter).*

- *de la Fuente, JS; Campelo-Gutierrez, C; Izquierdo-Garcia, E; Esteban, A; Manuel, CJ; Gimenez-Manzorro, A; Diaz, BG; Becares, J. Detection of galactomannan content in generic piperacillin-tazobactam products. INFECTIOUS DISEASES. 2019; 51(2) 157-159. FI: 2.494. Cuartil: 3. (Letter).*

- *Blazquez, ML; Hernani, MT; Calatayud, GA; Gonzalez-Pinto, LC; Menchen, L; Jimenez, IM; Garcia, BG; Calleja, AL; Sanchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).*

- *Cuervas-Mons, M; Sanchez-Perez, C; Arnal-Burro, J; Vaquero-Martin, J; Chana-Rodriguez, F. Ultrasound-guided supra-acetabular pelvic external fixator (US-SA FIX). INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2019; 50 24-29. FI: 2.106. Cuartil: 2. (Article).*

- *Diaz, DM; Caballero, GC; Ortiz, AI; Pinto, AG. Inflammatory myofibroblastic tumour in the right ventricle of a 66-year-old man. INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY. 2019; 29(6) 967-968. FI: 1.675. Cuartil: 3. (Editorial Material).*

- *Infante, S; Marco-Martin, G; Zubeldia, JM; Fuentes-Aparicio, V; Alvarez-Perea, A; Cabrera-Freitag, P; Morales-Cabeza, C; Zapatero, L. Oral Food Challenge in Food Protein-Induced Enterocolitis Syndrome by Fish: Is There Any Room for Improvement?. INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. 2019; 179(3) 215-220. FI: 2.917. Cuartil: 3. (Article).*

- *Perea, J; Garcia, JL; Corchete, L; Lumbreras, E; Arriba, M; Rueda, D; Tapial, S; Perez, J; Vieiro, V; Rodriguez, Y; Brandariz, L; Garcia-Arranz, M; Garcia-Olmo, D; Goel, A; Urioste, M; Sarmiento, RG. Redefining synchronous colorectal cancers based on tumor clonality. INTERNATIONAL JOURNAL OF CANCER. 2019; 144(7) 1596-1608. FI: 5.145. Cuartil: 1. (Article).*

- *Murgier, M; Darmon, M; Zeni, F; Valle, R; Del Toro, J; Llamas, P; Mazzolai, L; Villalobos, A; Monreal, M; Brenner, B; Farge-Bancel, D; Barba, R; Di Micco, P; Bertoletti, L; Tzoran, I; Reis, A; Bounameaux, H; Maly, R; Verhamme, P; Bosevski, M; Caprini, JA; Adarraga, MD; Aibar, MA; Aibar, J; Alfonso, M; Amado, C; Aranda, C; Arcelus, JI; Ballaz, A; Barba, R; Barron, M; Barron-Andres, B; Bascunana, J; Blanco-Molina, A; Camon, AM; Carrasco, C; Cruz, AJ; del Pozo, R; del Toro, J; Diaz-Pedroche, MC;*

*Diaz-Peromingo, JA; Encabo, M; Falga, C; Fernandez-Capitan, C; Fidalgo, MA; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Morillo, M; Garcia-Raso, A; Gavin, O; Gomez, V; Gonzalez-Martinez, J; Grau, E; Guijarro, R; Gutierrez, J; Isern, V; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Jimenez, J; Jou, I; Joya, MD; Lalueza, A; Lima, J; Llamas, P; Lobo, JL; Lopez-Jimenez, L; Lopez-Miguel, P; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Lorenzo, A; Loring, M; Lumbierres, M; Madridano, O; Marchena, PJ; Martin-Martos, F; Martin-Romero, M; Monreal, M; Morales, MV; Nieto, JA; Nunez, A; Nunez, MJ; Olivares, MC; Otalora, S; Otero, R; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Peris, ML; Pesce, ML; Porras, JA; Riesco, D; Rivas, A; Rodriguez-Davila, MA; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Sahuquillo, JC; Sala-Sainz, MC; Samperiz, A; Sanchez-Munoz-Torrero, JF; Sancho, T; Soler, S; Soto, MJ; Surinach, JM; Tolosa, C; Torres, MI; Trujillo-Santos, J; Uresandi, F; Usandizaga, E; Valle, R; Vela, J; Vidal, G; Villalobos, A; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanassche, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Farge-Bancel, D; Hij, A; Merah, A; Mahe, I; Moustafa, F; Braester, A; Brenner, B; EllisM; Tzoran, I; Bilora, F; Bortoluzzi, C; Brandolin, B; Bucherini, E; Cattabiani, C; Ciammaichella, M; Dentali, F; DiMicco, P; Giorgi-Pierfranceschi, M; Grandone, E; Imbalzano, E; Maida, R; Mastroiacovo, D; Ngoc, V; Pace, F; Pallotti, G; Parisi, R; Pesavento, R; Prandoni, P; Quintavalla, R; Rocci, A; Romualdi, R; Siniscalchi, C; Sotgiu, P; Tiraferri, E; Tonello, D; Tufano, A; Visona, A; Skride, A; Bosevski, M; Krstevski, G; Zdraveska, M; Bounameaux, H; Mazzolai, L; Caprini, J; RIETE Investigators. Frequency and prognostic impact of acute kidney injury in patients with acute pulmonary embolism. Data from the RIETE registry. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 291 121-126. FI: 3.229. Cuartil: 2. (Article).*

- *Morillas-Sendin, P; del Canizo, JF; Ruiz, M; Delgado-Baeza, E; Quintana-Villamandos, B. Randomized comparison of sevoflurane versus propofol on organ blood flow after partial thoracic aortic cross-clamping. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. 2019; 12(1) 1226-1233. FI: 0.166. Cuartil: 4. (Article).*

- *Rodriguez-Lomba, E; Molina-Lopez, I; Vilas-Boas, PT; Suarez-Fernandez, R. IgA deposition in a vegetating plaque on the glans penis: a diagnostic dilemma. INTERNATIONAL JOURNAL OF DERMATOLOGY. 2019; 58(3) 64-66. FI: 2.067. Cuartil: 3. (Letter).*

- *Plans, E; Gullon, P; Cebrecos, A; Fontan, M; Diez, J; Nieuwenhuijsen, M; Franco, M. Density of Green Spaces and Cardiovascular Risk Factors in the City of Madrid: The Heart Healthy Hoods Study. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2019; 16(24) -. FI: 2.849. Cuartil: 1. (Article).*

- *Alvaro, E; Cano, JM; Garcia, JL; Brandariz, L; Olmedillas-Lopez, S; Arriba, M; Rueda, D; Rodriguez, Y; Canete, A; Arribas, J; Inglada-Perez, L; Perez, J; Gomez, C; Garcia-Arranz, M; Garcia-Olmo, D; Goel, A; Urioste, M; Gonzalez-Sarmiento, R; Perea, J. Clinical and Molecular Comparative Study of Colorectal Cancer Based on Age-of-Onset and Tumor Location: Two Main Criteria for Subclassifying Colorectal Cancer. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(23) -. FI: 4.556. Cuartil: 1. (Review).*

- *Fernandez, AI; Yotti, R; Gonzalez-Mansilla, A; Mombiela, T; Gutierrez-Ibanes, E; del Villar, CP; Navas-Tejedor, P; Chazo, C; Martinez-Legazpi, P; Fernandez-Aviles, F; Bermejo, J. The Biological Bases of Group 2 Pulmonary Hypertension. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(4) -. FI: 4.556. Cuartil: 1. (Article).*

- *Cena-Diez, R; Martin-Moreno, A; de la Mata, FJ; Gomez-Ramirez, R; Munoz, E; Ardoys, M; Munoz-Fernandez, MA. G1-S4 or G2-S16 carbosilane dendrimer in combination with Platycodin D as a promising vaginal microbicide candidate with contraceptive activity. INTERNATIONAL JOURNAL OF NANOMEDICINE. 2019; 14 2371-2380. FI: 5.115. Cuartil: 1. (Article).*

- *Subira, C; Hernandez, G; Vazquez, A; Rodriguez-Garcia, R; Gonzalez-Castro, A; Garcia, C; Rubio, O; Ventura, L; Lopez, A; de la Torre, MC; Keough, E; Arauzo, V; Hermosa, C; Sanchez, C; Tizon, A; Tenza, E; Laborda, C; Cabanes, S; Lacueva, V; Fernandez, MD; Arnau, A; Fernandez, R. Effect of Pressure Support vs T-Piece Ventilation Strategies During Spontaneous Breathing Trials on Successful Extubation Among Patients Receiving Mechanical Ventilation A Randomized Clinical Trial. JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. 2019; 321(22) 2175-2182. FI: 45.54. Cuartil: 1. (Article).*

- *Gastaminza, G; Ruiz-Canela, M; Andres-Lopez, B; Villarejo, MJB; Cabanas, R; Garcia-Nunez, I; Goikoetxea, MJ; Laguna, JJ; Lobera, T; Lopez-San Martin, M; Martin-Lazaro, J; Mielgo-Ballesteros, R; Moreno, E; Moya-Quesada, MD; Ortega-Rodriguez, N; Rojas-Perez-Ezquerra, P; Rosado, A; Salas, M; Sanchez-Morillas, L; Vila-Albelda, C; Corominas, M. Quality of Life in Patients with Allergic Reactions to Medications: Influence of a Drug Allergy Evaluation. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2019; 7(8) 2714-2721. FI: 7.574. Cuartil: 1. (Article).*

- *Pagani, M; Bavbek, S; Dursun, AB; Bonadonna, P; Caralli, M; Cernadas, J; Cortellini, G; Costantino, MT; Gelincik, A; Lucchini, G; Castells, M. Role of Skin Tests in the Diagnosis of Immediate Hypersensitivity Reactions to Taxanes: Results of a Multicenter Study. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2019; 7(3) 990-997. FI: 7.574. Cuartil: 1. (Article).*

- *Bouza, E; Vena, A; Munoz, P; Bouza, E; Machado, M; Martinez-Jimenez, C; Munoz, P; Navarro, R; Perez-Granda, MJ; Sanchez, C; Vena, A; Fortun, J; Gioia, F; Gomez, E; Soriano, C; Pestana, D; Gonzalez-Romo, F; Merino, P; Aguado, JM; Fernandez-Ruiz, M; Lopez-Medrano, F; Orellana, MA; Origuen, J; T2MadRid Study Grp. T2Candida MR as a predictor of outcome in patients with suspected invasive candidiasis starting empirical antifungal treatment: a prospective pilot study-authors' response. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

- *Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(2) 533-534. FI: 5.439. Cuartil: 1. (Letter).*

- *Serena, G; Gonzalez, J; Gaynor, JJ; Salerno, T; Verzaro, R; Ciancio, G. Pulmonary tumor embolization as early manifestation in patients with renal cell carcinoma and tumor thrombus: Perioperative management and outcomes. JOURNAL OF CARDIAC SURGERY. 2019; 34(10) 1018-1023. FI: 1.49. Cuartil: 3. (Article).*

- *Vicent, L; Esteban-Fernandez, A; Gomez-Bueno, M; De-Juan, J; Diez-Villanueva, P; Iniesta, AM; Ayesta, A; Gonzalez-Saldivar, H; Rojas-Gonzalez, A; Bover-Freire, R; Iglesias, D; Garcia-Aguado, M; Perea-Egido, JA; Martinez-Selles, M. Sacubitril/Valsartan in Daily Clinical Practice: Data From a Prospective Registry. JOURNAL OF CARDIOVASCULAR PHARMACOLOGY. 2019; 73(2) 118-124. FI: 2.598. Cuartil: 2. (Article).*

- *Martinez-Bonet, M; Munoz-Fernandez, MA; Alvarez, S. HIV-1 increases extracellular amyloid-beta levels through neprilysin regulation in primary cultures of human astrocytes. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(5) 5880-5887. FI: 5.546. Cuartil: 1. (Article).*

- *Jose, P; Alvarez-Lerma, F; Maseda, E; Olaechea, P; Peman, J; Soriano, C; Zaragoza, R. Invasive fungal infection in crtically ill patients: hurdles and next challenges. JOURNAL OF CHEMOTHERAPY. 2019; 31(2) 64-73. FI: 1.661. Cuartil: 4. (Article).*

- *Pascual, C; Gonzalez-Arias, E; Perez-Corral, AM; Bailen, R; Gayoso, J; Besson, N; Serrano, D; Kwon, M; Anguita, J; Diez-Martin, JL. Mononuclear cell collection for extracorporeal photopheresis by using the "off-line" system: A comparative study between COBE Spectra and Spectra Optia devices. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 373-380. FI: 1.629. Cuartil: 4. (Article).*

- *Bailen, R; Perez-Corral, AM; Pascual, C; Kwon, M; Serrano, D; Gayoso, J; Balsalobre, P; Muñoz C; Diez-Martin, JL; Anguita, J. Factors predicting peripheral blood progenitor cell mobilization in healthy donors in the era of related alternative donors: Experience from a single center. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 359-366. FI: 1.629. Cuartil: 4. (Article).*

- *Bernardo-Castineira, C; Valdes, N; Celada, L; Martinez, ASJ; Saenz-de-Santa-Maria, I; Bayon, GF; Fernandez, AF; Sierra, MI; Fraga, MF; Astudillo, A; Jimenez-Fonseca, P; Ria, JC; Hevia, MA; Turienzo, E; Bernardo, C; Forga, L; Tena, I; Molina-Garrido, MJ; Cacho, L; Villabona, C; Serrano, T; Scola, B; Chirivella, I; del Olmo, M; Menendez, CL; Navarro, E; Tous, M; Vallejo, A; Athimulam, S; Bancos, I; Suarez, C; Chiara, MD. Epigenetic Deregulation of Protocadherin PCDHGC3 in Pheochromocytomas/Paragangliomas Associated With SDHB Mutations. JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM. 2019; 104(11) 5673-5692. FI: 5.399. Cuartil: 1. (Article).*

- *Li, WY; Martinez-Useros, J; Garcia-Carbonero, N; Fernandez-Acenero, MJ; Ortega-Medina, L; Garcia-Botella, S; Perez-Aguirre, E; Diez-Valladares, L; Garcia-Foncillas, J. The Prognosis Value of PIWIL1 and PIWIL2 Expression in Pancreatic Cancer. JOURNAL OF CLINICAL MEDICINE. 2019; 8(9) -. FI: 3.303. Cuartil: 1. (Article).*

- *Brochado-Kith, O; Sanz, AG; Real, LM; Garcia, JC; Murua, PR; Macias, J; Gonzalez, JC; Troya, J; Pineda, JA; Loste, MTA; Vinas, VD; Jimenez-Sousa, MA; de Dios, LMM; De la Plaza, IC; Fernandez, SM; Garcia, SR; Fernandez-Rodriguez, A. MicroRNA Profile of HCV Spontaneous Clarified Individuals, Denotes Previous HCV Infection. JOURNAL OF CLINICAL MEDICINE. 2019; 8(6) -. FI: 3.303. Cuartil: 1. (Article).*

- *Garutti, I; De la Gala, F; Pineiro, P; Rancan, L; Vara, E; Reyes, A; Puente-Maestu, L; Bellon, JM; Simon, C. Usefulness of combining clinical and biochemical parameters for prediction of postoperative pulmonary complications after lung resection surgery. JOURNAL OF CLINICAL MONITORING AND COMPUTING. 2019; 33(6) 1043-1054. FI: 2.108. Cuartil: 3. (Article).*

- *Lopez, AJV; Vendrell, ES; Carballal, CF. Late recurrence of medulloblastoma after 17 years of complete. JOURNAL OF CLINICAL NEUROSCIENCE. 2019; 64 33-35. FI: 1.76. Cuartil: 3. (Article).*

- *Carmona-Bayonas, A; Jimenez-Fonseca, P; Lamarca, A; Barriuso, J; Castano, A; Benavent, M; Alonso, V; Riesco-Martinez, MD; Alonso-Gordoa, T; Custodio, A; Canovas, MS; Cubero, JH; Lopez, C; Lacasta, A; Montes, AF; Marazuela, M; Crespo, G; Escudero, P; Diaz, JA; Feliciangeli, E; Gallego, J; Llanos, M; Segura, A; Vilardell, F; Percovich, JC; Grande, E; Capdevila, J; Valle, JW; Garcia-Carbonero, R. Prediction of Progression-Free Survival in Patients With Advanced, Well-Differentiated, Neuroendocrine Tumors Being Treated With a Somatostatin Analog: The GETNE-TRASGU Study. JOURNAL OF CLINICAL ONCOLOGY. 2019; 37(28) 2571-. FI: 32.956. Cuartil: 1. (Article).*

- *de Lorenzo-Pinto, A; Ortega-Navarro, C; Ribed, A; Gimenez-Manzorro, A; Ibanez-Garcia, S; de Miguel-Guijarro, A; Ginel-Feito, MD; Herranz, A; Sanjurjo-Saez, M. Cancellations of elective surgical procedures due to inadequate management of chronic medications. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2019; 44(4) 561-564. FI: 1.833. Cuartil: 4. (Article).*

- *Plaza, AM; Martinez, EB; Cariati, P; Gamez, RFV; Lopez, AE; Valades, RF. Transversal Maxillary Distraction in Patients with Cleft Lip and Palate. JOURNAL OF CRANIOFACIAL SURGERY. 2019; 30(4) 1149-1153. FI: 0.953. Cuartil: 4. (Article).*

- *Kotfis, K; Wittebole, X; Jaschinski, U; Sole-Violan, J; Kashyap, R; Leone, M; Nanchal, R; Fontes, LE; Sakr, Y; Vincent, JL; Tomas, E; Bibonge, EA; Charra, B; Faroudy, M; Doedens, L; Farina, Z; Adler, D; Balkema, C; Kok, A; Alaya, S; Gharsallah, H; Muzha, D; Temelkov, A; Georgiev, G; Simeonov, G; Tsaryanski, G; Georgiev, S; Seliman, A; Vrankovic, S; Vucicevic, Z; Gornik, I; Barsic, B; Husedzinovic, I; Pavlik, P; Manak, J; Kieslichova, E; Turek, R; Fischer, M; Valkova, R; Dadak, L; Dostal, P; Malaska, J; Hajek, R; Zidkova, A; Lavicka, P; Starkopf, J; Kheladze, Z; Chkhaidze, M; Kaloiani, V; Medve, L; Sarkany, A; Kremer, I; Marjanek, Z; Tamasi, P; Krupnova, I; Vanags, I; Liguts, V; Pilvinis, V; Vosylius, S; Kekstas, G; Balciunas, M; Kolbusz, A; Kubler, A; Mielczarek, B; Mikaszewska-Sokolewicz, M; Kotfis, K; Tamowicz, B; Sulkowski, W; Smuszkiewicz, P; Pihowicz, A; Trejnowska, E; Hagau, N; Filipescu, D; Droc, G; Lupu, M; Nica, A; Stoica, R; Tomescu, D; Constantinescu, D; Zbaganu, GV; Slavcovici, A; Bagin, V; Belsky, D; Palyutin, S; Shlyapnikov, S; Bikkulova, D; Gritsan, A; Natalia, G; Makarenko, E; Kokhno, V; Tolkach, A; Kokarev, E; Belotserkovskiy, B; Zolotukhin, K; Kulabukhov, V; Soskic, L; Palibrk, I; Jankovic, R; Jovanovic, B; Pandurovic, M; Bumbasirevic, V; Uljarevic, B; Surbatovic, M; Ladjevic, N; Slobodianiuk, G; Sobona, V; Cikova, A; Gebhardtova, A; Jun, C; Yunbo, S; Dong, U; Feng, S; Duan, M; Xu, Y; Xue, X; Gao, T; Xing, X; Zhao, X; Gengxihua, G; Tan, H; Xu, J; Jiang, L; Tiehe, Q; Bingyu, Q; Shi, Q; Lv, Z; Zhang, L; Jingtao, L; Zhen, Z; Wang, Z; Wang, T; Yuhong, L; Zhai, Q; Wang, C; Jiang, W; Ruilan, W; Chen, Y; Xiaobo, H; Ge, H; Yan, T; Yuhui, C; Zhang, J; Jian-Hong, F; Zhu, H; Huo, F; Wang, Y; Li, C; Zhuang, M; Ma, Z; Sun, J; Liuqingyue, L; Yang, M; Meng, J; Ma, S; Kang, Y; Yu, L; Peng, Q; Wei, Y; Zhang, W; Sun, R; Yeung, A; Wan, W; Sin, K; Lee, K; Wijanti, M; Widodo, U; Samsirun, H; Sugiman, T; Wisudarti, C; Maskoen, T; Hata, N; Kobe, Y; Nishida, O; Miyazaki, D; Nunomiya, S; Uchino, S; Kitamura, N; Yamashita, K; Hashimoto, S; Fukushima, H; Adib, NN; Tai, L; Tony, B; Bigornia, R; Palo, J; Chatterjee, S; Tan, B; Kong, A; Goh, S; Lee, C; Pothirat, C; Khwannimit, B; Theerawit, P; Pornsuriyasak, P; Piriyapatsom, A; Mukhtar, A; Dsicu; Hamdy, AN; Hosny, H; Ashraf, A; Mokhtari, M; Nowruzinia, S; Lotfi, A; Zand, F; Nikandish, R; Moghaddam, OM; Cohen, J; Sold, O; Sfeir, T; Hasan, A; Abugaber, D; Ahmad, H; Tantawy, T; Baharoom, S; Algethamy, H; Amr, A; Almekhlafi, G; Coskun, R; Sungur, M; Cosar, A; Gucyetmez, B; Demirkiran, O; Senturk, E; Ulusoy, H; Atalan, H; Serin, S; Kati, I; Alnassrawi, Z; Almemari, A; Krishnareddy, K; Kashef, S; Alsabbah, A; Poirier, G; Marshall, J; Herridge, M; Fernandez-Medero, R; Fulda, G; Banschbach, S; Quintero, J; Schroeder, E; Sicoutris, C; Gueret, R; Kashyap, R; Bauer, P; Nanchal, R; Wunderink, R; Jimenez, E; Ryan, A; Prince, D; Edington, J; Van Haren, F; Bersten, A; Hawkins, DJ; Kilminster, M; Sturgess, D; Ziegenfuss, M; O'Connor, S; Lipman, J; Campbell, L; Mcallister, R; Roberts, B; Williams, P; Parke, R; Seigne, P; Freebairn, R; Nistor, D; Oxley, C; Young, P; Valentini, R;*

*Wainsztein, N; Comignani, P; Casaretto, M; Sutton, G; Villegas, P; Galletti, C; Neira, J; Rovira, D; Hidalgo, J; Sandi, F; Caser, E; Thompson, M; Dias, MD; Fontes, L; Lunardi, M; Youssef, N; Lobo, S; Silva, R; Sales, J; Melo, LMC; Oliveira, M; Fonte, M; Feijo, C; Rezende, V; Assuncao, M; Neves, A; Gusman, P; Dalcomune, D; Teixeira, C; Kaefer, K; Maia, I; Dantas, VS; Filho, RC; Amorim, F; Assef, M; Schiavetto, P; Houly, J; Bianchi, F; Dias, F; Avila, C; Gomez, J; Rego, L; Castro, P; Passos, J; Mendes, C; Grion, C; Mecatti, GC; Ferrreira, M; Irineu, V; Guerreiro, M; Ugarte, S; Tomicic, V; Godoy, C; Samaniego, W; Escamilla, I; Castro, LC; Duque, GL; Diaz-Guio, D; Benitez, F; Urrego, AG; Buitrago, R; Ortiz, G; Gaviria, MV; Salas, D; Ramirez-Arce, J; Salgado, E; Morocho, D; Vergara, J; Sang, MC; Orellana-Jimenez, C; Garrido, L; Diaz, O; Resiere, D; Osorio, C; De La Vega, A; Carrillo, R; Sanchez, V; Villagomez, A; Zubieta, RM; Sandia, M; Zalatiel, M; Poblano, M; Gonzalez, DR; Arrazola, F; Francisco, LJ; Liamendys-Silva, SA; Hernandez, M; Cadena, DR; Islas, IL; Zarzavilla, CB; Matos, A; Oyanguren, I; Cerna, J; Sierra, RQ; Jimenez, R; Castillo, L; Ocal, R; Sencan, A; Gianoni, SM; Deicas, A; Hurtado, J; Burghi, G; Martinelli, A; Von der Osten, I; Du Maine, C; Bhattacharyya, M; Bandyopadhyay, S; Yanamala, S; Gopal, P; Sahu, S; Ibrahim, M; Rathod, D; Mukundan, N; Dewan, A; Amin, P; Samavedam, S; Shah, B; Gurupal, D; Lahkar, B; Mandal, A; Sircar, M; Ghosh, S; Balasubramani, V; Kapadia, F; Vadi, S; Nair, K; Tripathy, S; Nandakumar, S; Sharma, J; Kar, A; Jha, S; Gurav, KZ; Patel, M; Bhaysar, A; Samaddar, D; Kulkarni, A; Hashmi, M; Ali, W; Nadeem, S; Indraratna, K; Margarit, A; Urbanek, P; Schlieber, J; Reisinger, J; Auer, U; Hartjes, A; Lerche, A; Janous, T; Kink, E; Krahulec, W; Smolle, K; Van der Schueren, M; Thibo, P; Vanhoof, M; Ahmet, I; Gadisseux, P; Dufaye, P; Jacobs, O; Fraipont, V; Biston, P; Dive, A; Bouckaert, Y; Gilbert, E; Gressens, B; Pinck, E; Collin, V; Vincent, JL; De Waele, J; Rimachi, R; Gusu, D; De Decker, K; Mandianga, K; Heytens, L; Wittebole, X; Spapen, H; Olivier, V; Vandenheede, W; Rogiers, P; Kolodzeike, P; Kruse, M; Andersen, T; Harjola, V; Saarinen, K; Leone, M; Durocher, A; Moulront, S; Lepape, A; Losser, M; Cabaret, P; Kalaitzis, E; Zogheib, E; Charve, P; Francois, B; Lefrant, JY; Beilouny, B; Forceville, X; Misset, B; Jacobs, F; Floccard, B; Payen, D; Wynckel, A; Castelain, V; Faure, A; Lavagne, P; Thierry, I; Moussa, M; Vieillard-Baron, A; Durand, M; Gainnier, M; Ichai, C; Arens, S; Hoffmann, C; Kaffarnik, M; Scharnofske, C; Voigt, I; Peckelsen, C; Weber, M; Gille, J; Lange, A; Schoser, G; Sablotzki, A; Jaschinski, U; Bluethgen, A; Vogel, F; Tscheu, A; Fuchs, T; Wattenberg, M; Helmes, T; Scieszka, S; Heintz, M; Sakka, S; Kohler, J; Fiedler, F; Danz, M; Sakr, Y; Riessen, R; Kerz, T; Kersten, A; Tacke, F; Marx, G; Volkert, T; Schmutz, A; Nierhaus, A; Kluge, S; Abel, P; Janosi, R; Utzolino, S; Bracht, H; Toussaint, S; Peftoulidou, MG; Myrianthefs, P; Armaganidis, A; Routsi, C; Xini, A; Mouloudi, E; Kokoris, I; Kyriazopoulos, G; Vlachos, S; Lavrentieva, A; Partala, P; Nakos, G; Moller, A; Stefansson, S; Barry, J; O'Leary, R; Motherway, C; Faheem, M; Dunne, E; Donnelly, M; Konrad, T; Bonora, E; Achilli, C; Rossi, S; Castiglione, G; Penis, A; Albanese, D; Stocchetti, N; Citerio, G; Mozzoni, L; Sisillo, E; De Negri, P; Savioli, M; Vecchiarelli, P; Puflea, F; Stankovic, V; Minoja, G; Montibeller, S; Calligaro, P; Sorrentino, R; Feri, M; Zambon, M; Colombaroli, E; Giarratano, A; Pellis, T; Capra, C; Antonelli, M; Gullo, A; Chelazzi, C; De Capraris, A; Patroniti, N; Girardis, M; Franchi, F; Berlot, G; Buttigieg, M; Ponssen, H; Cate, JT; Bormans, L; Husada, S; Buise, M; Van Der Hoven, B; Reidinga, A; Kuiper, M; Pickkers, P; Kluge, G; Den Boer, S; Kesecioglu, J; Van Leeuwen, H; Flaatten, H; Mo, S; Branco, V; Rua, F; Lafuente, E; Sousa, M; Catorze, N; Barros, M; Pereira, L; De Oliveira, AV; Gomes, J; Gaspar, I; Pereira, M; Cymbron, M; Dias, A; Almeida, E; Beirao, S; Serra, I; Ribeiro, R; Povoa, P; Faria, F; Costa-E-Silva, Z; Nobrega, A; Fernandes, F; Gabriel, J; Voga, G; Rupnik, E; Kosec, L; Povsic, MK; Osojnik, I; Tomic, V; Sinkovic, A; Gonzalez, J; Zavala, E; Valenzuela, AP; Marina, L; Vidal-Cortes, P; Posada, I; Martin-Loeches, AI; Guillen, NM; Palomar, M; Sole-Violan, U; Torres, A; Gallego, MG; Aguilar, G; Allue, RM; Argueso, M; Parejo, M; Navarro, MP; Jose, A; Nin, N; Lerma, FA; Martinez, O; Lozano, ET; Lopez, SA; Granda, MP; Moreno, S; Llubia, C; Martos, CD; Gonzalez-Arenas, P; Fernandez, NL; Rueda, BG; Pons, IE; Cruza, N; Maroto, F; Estella, A; Ferrer, A; Fraile, LI; Quindos, B; Quintano, A; Tebar, M; Cardinal, I; Reyes, A; Rodriguez, A; Abella, A; Del Valle, SG; Yus, S; Maseda, E; Berezo, U; Pedregosa, AT; Laplaza, C; Ferrer, R; Rico-Feijoo, U; Rodriguez, M; Monedero, P; Eriksson, K; Lind, D; Chabanel, D; Zender, H; Heer, K; Frankenberger, B; Jakob, S; Mathew, S; Downes, R; Groba, CB; Johnston, A; Meacher, R; Keays, R; Haji-Michael, P; Tyler, C; Ferguson, A; Jones, S; Tyl, D; Ball, A; Vogel, U; Booth, M; Downie, P; Watters, M; Brett, S; Garfield, M; Everett, L; Heenen, S; Dhir, S; Beardow, Z; Mostert, M; Brosnan, S; Pinto, N; Harris, S; Summors, A; Andrew, N; Rose, A; Appelboam, R; Davies, O; Vickers, E; Agarwal, B; Szakmany, T; Wimbush, S; Welters, I; Pearse, R; Hollands, R; Kirk-Bayley, U; Fletcher, N; Bray, B; Brealey, D; ICON Investigators. A worldwide perspective of sepsis epidemiology and survival according to age: Observational data from the ICON audit. JOURNAL OF CRITICAL CARE. 2019; 51 122-132. FI: 2.685. Cuartil: 3. (Article).*

- *Aviles-Izquierdo, JA; Ciudad-Blanco, C; Sanchez-Herrero, A; Mateos-Mayo, A; Nieto-Benito, LM; Rodriguez-Lomba, E. Dermoscopy of cutaneous melanoma metastases: A color-based pattern classification. JOURNAL OF DERMATOLOGY. 2019; 46(7) 564-569. FI: 3.072. Cuartil: 2. (Article).*

- *Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; Lopez-Baena, JA; Laso, J; Hernandez, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).*

- *Ardoino, I; Mannucci, PM; Nobili, A; Franchi, C; Mannucci, PM; Nobili, A; Tettamanti, M; Pasina, L; Franchi, C; Licata, G; Corazza, GR; Prisco, D; Silvestri, E; Emmi, G; Bettiol, A; Caterina, C; Biolo, G; Zanetti, M; Guadagni, M; Chiuch, M; Zaccari, M; Vanoli, M; Grignani, G; Pulixi, EA; Bernardi, M; Bassi, SL; Santi, L; Zaccherini, G; Lupattelli, G; Mannarino, E; Bianconi, V; Paciullo, F; Alcidi, R; Nuti, R; Valenti, R; Ruvio, M; Cappelli, S; Palazzuoli, A; Girelli, D; Busti, F; Marchi, G; Barbagallo, M; Dominguez, L; Cocita, F; Beneduce, V; Plances, L; Corrao, S; Natoli, G; Mularo, S; Raspanti, M; Cavallaro, F; Zoli, M; Lazzari, I; Brunori, M; Fabbri, E; Magalotti, D; Arn?, R; Pasini, FL; Capecchi, PL; Palasciano, G; Modeo, ME; Di Gennaro, C; Cappellini, MD; Maira, D; Di Stefano, V; Fabio, G; Seghezzi, S; Mancarella, M; De Amicis, MM; De Luca, G; Scaramellini, N; Cesari, M; Rossi, PD; Damanti, S; Clerici, M; Conti, F; Bonini, G; Ottolini, BB; Di Sabatino, A; Miceli, E; Lenti, MV; Pisati, M; Dominioni, CC; Murialdo, G; Marra, A; Cattaneo, F; Pontremoli, R; Beccati, V; Nobili, G; Secchi, MB; Ghelfi, D; Anastasio, L; Sofia, L; Carbone, M; Cipollone, F; Guagnano, MT; Valeriani, E; Rossi, I; Mancuso, G; Calipari, D; Bartone, M; Delitala, G; Berria, M; Pes, C; Delitala, A; Muscaritoli, M; Molfino, A; Petrillo, E; Zuccal?, G; D'Aurizio, G; Romanelli, G; Marengoni, A; Zucchelli, A; Manzoni, F; Volpini, A; Picardi, A; Gentilucci, UV; Gallo, P; Dell'Unto, C; Annoni, G; Corsi, M; Bellelli, G; Zazzetta, S; Mazzola, P; Szabo, H; Bonfanti, A; Arturi, F; Succurro, E; Rubino, M; Tassone, B; Sesti, G; Serra, MG; Bleve, MA; Gasbarrone, L; Sajeva, MR; Brucato, A; Ghidoni, S; Fabris, F; Bertozzi, I; Bogoni, G; Rabuini, MV; Cosi, E; Scarinzi, P; Amabile, A; Omenetto, E; Prandini, T; Manfredini, R; Fabbian, F; Boari, B; De*

*Giorgi, A; Tiseo, R; De Giorgio, R; Paolisso, G; Rizzo, MR; Borghi, C; Strocchi, E; Ianniello, E; Soldati, M; Sabb?, C; Vella, FS; Suppressa, P; Agosti, P; Schilardi, A; Loparco, F; De Vincenzo, GM; Comitangelo, A; Amoruso, E; Fenoglio, L; Falcetta, A; Bracco, C; Fracanzani, AL; Fargion, S; Tiraboschi, S; Cespiati, A; Oberti, G; Sigon, G; Peyvandi, F; Rossio, R; Ferrari, B; Colombo, G; Monzani, V; Savojardo, V; Folli, C; Ceriani, G; Salerno, F; Pallini, G; Dallegri, F; Ottonello, L; Liberale, L; Caserza, L; Salam, K; Liberato, NL; Tognin, T; Bianchi, GB; Giaquinto, S; Purrello, F; Di Pino, A; Piro, S; Rozzini, R; Falanga, L; Spazzini, E; Ferrandina, C; Montrucchio, G; Petitti, P; Peasso, P; Favale, E; Poletto, C; Salmi, R; Gaudenzi, P; Violi, F; Perri, L; Landolfi, R; Montalto, M; Mirijello, A; Guasti, L; Castiglioni, L; Maresca, A; Squizzato, A; Campiotti, L; Grossi, A; Bertolotti, M; Mussi, C; Lancellotti, G; Libbra, MV; Dondi, G; Pellegrini, E; Carulli, L; Galassi, M; Grassi, Y; Perticone, F; Perticone, M; Battaglia, R; FIlice, M; Maio, R; Stanghellini, V; Ruggeri, E; del Vecchio, S; Salvi, A; Leonardi, R; Damiani, G; Capeci, W; Gabrielli, A; Mattioli, M; Martino, GP; Biondi, L; Pettinari, P; Ghio, R; Dal Col, A; Minisola, S; Colangelo, L; Cilli, M; Labbadia, G; Afeltra, A; Marigliano, B; Pipita, ME; Castellino, P; Zanoli, L; Pignataro, S; Gennaro, A; Blanco, J; Saracco, V; Fogliati, M; Bussolino, C; Mete, F; Gino, M; Cittadini, A; Vigorito, C; Arcopinto, M; Salzano, A; Bobbio, E; Marra, AM; Sirico, D; Moreo, G; Gasparini, F; Prolo, S; Pina, G; Ballestrero, A; Ferrando, F; Berra, S; Dassi, S; Nava, MC; Graziella, B; Baldassarre, S; Fragapani, S; Gruden, G; Galanti, G; Mascherini, G; Petri, C; Stefani, L; Girino, M; Piccinelli, V; Nasso, F; Gioffr?, V; Pasquale, M; Scattolin, G; Martinelli, S; Turrin, M; Sechi, L; Catena, C; Colussi, G; Passariello, N; Rinaldi, L; Berti, F; Famularo, G; Tarsitani, P; Castello, R; Pasino, M; Ceda, GP; Maggio, MG; Morganti, S; Artoni, A; Del Giacco, S; Firinu, D; Losa, F; Paoletti, G; Costanzo, G; Montalto, G; Licata, A; Malerba, V; Montalto, FA; Lasco, A; Basile, G; Catalano, A; Malatino, L; Stancanelli, B; Terranova, V; Di Marca, S; Di Quattro, R; La Malfa, L; Caruso, R; Mecocci, P; Ruggiero, C; Boccardi, V; Meschi, T; Lauretani, F; Ticinesi, A; Nouvenne, A; Minuz, P; Fondrieschi, L; Pirisi, M; Fra, GP; Sola, D; Porta, M; Riva, P; Quadri, R; Larovere, E; Novelli, M; Scanzi, G; Mengoli, C; Provini, S; Ricevuti, L; Simeone, E; Scurti, R; Tolloso, F; Tarquini, R; Valoriani, A; Dolenti, S; Vannini, G; Tedeschi, A; Trotta, L; Volpi, R; Bocchi, P; Vignali, A; Harari, S; Lonati, C; Cattaneo, M; Nieves, RD; Alberto, MM; Pedro, AR; Vanessa, LP; Lara, T; Xavier, CV; Francesc, F; Jesus, DM; Esperanza, BT; Esther, DCB; Maria, SP; Romero, M; Blanca, PL; Cristina, LGC; Victoria, VGM; Saez, L; Bosco, J; Susana, SB; Marta, AG; Concepcion, GB; Antonio, FM; Hernandez, MG; Borrego, MP; Raquel, PC; Florencia, PR; Beatriz, GO; Sara, CG; Alfonso, GCC; Marta, PM; Alberto, RC; Antonio, AA; Montserrat, GG; Angel, BRM; Manuel, MJ; Ignacio, NV; Lucia, AS; Alfonso, L; David, RB; Iniguez, VI; Monica, RP; REPOSI Collaborators. Antibiotic use and associated factors in a large sample of hospitalised older people. JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE. 2019; 19 167-172. FI: 2.706. Cuartil: 2. (Article).*

- *Hessheimer, AJ; Coll, E; Ruiz, P; Gastaca, M; Rivas, JI; Gomez, M; Sanchez, B; Santoyo, J; Ramirez, P; Parrilla, P; Marin, LM; Gomez-Bravo, MA; Garcia-Valdecasas, JC; Lopez-Monclus, J; Bosca, A; Lopez-Andujar, R; Fundora-Suarez, Y; Villar, J; Garcia-Sesma, A; Jimenez, C; Rodriguez-Laiz, G; Llado, L; Rodriguez, JC; Barrera, M; Charco, R; Lopez-Baena, JA; Briceno, J; Pardo, F; Blanco, G; Pacheco, D; Dominguez-Gil, B; Turrion, VS; Fondevila, C. Reply to: "ormothermic regional perfusion - What is the benefit?". JOURNAL OF HEPATOLOGY. 2019; 71(2) 443-445. FI: 20.582. Cuartil: 1. (Letter).*

- *Hessheimer, AJ; Coll, E; Ruiz, P; Gastaca, M; Rivas, JI; Gamez, M; Sanchez, B; Santoyo, J; Ramirez, P; Parrilla, P; Marin, LM; Gomez-Bravo, MA; Garcia-Valdecasas, JC; Lopez-Monclus, J; Bosca, A; Lopez-Andujar, R; Fundora-Suarez, J; Villar, J; Garcia-Sesma, A; Jimenez, C; Rodriguez-Laiz, G; Llado, L; Rodriguez, JC; Barrera, M; Charco, R; Lopez-Baena, JA; Briceno, J; Pardo, F; Blanco, G; Pacheco, D; Dominguez-Gil, B; Turrion, VS; Fondevila, C. The UK DCD Risk Score: Still no consensus on futility in DCD liver transplantation. JOURNAL OF HEPATOLOGY. 2019; 70(5) 1034-1035. FI: 20.582. Cuartil: 1. (Letter).*

- *Hessheimer AJ; Coll E; Torres F; Ruiz P; Gastaca M; Rivas JI; Gomez M; Sanchez B; Santoyo J; Ramirez P; Parrilla P; Marin LM; Gomez-Bravo MA; Garcia-Valdecasas JC; Lopez-Monclus J; Bosca A; Lopez-Andujar R; Fundora-Suarez J; Villar J; Garcia-Sesma A; Jimenez C; Rodriguez-Laiz G; Llado L; Rodriguez JC; Barrera M; Charco R; Lopez-Baena JA; Briceno J; Pardo F; Blanco G; Pacheco D; Dominguez-Gil B; Sanchez Turrion V; Fondevila C. Normothermic regional perfusion vs. super-rapid recovery in controlled donation after circulatory death liver transplantation. JOURNAL OF HEPATOLOGY. 2019; 70(4) 658-665. FI: 20.582. Cuartil: 1. (Article).*

- *Pintado, V; Pazos, R; Jimenez-Mejias, ME; Rodriguez-Guardado, A; Diaz-Pollan, B; Cabellos, C; Garcia-Lechuz, JM; Lora-Tamayo, J; Domingo, P; Munez, E; Domingo, D; Gonzalez-Romo, F; Lepe-Jimenez, JA; Rodriguez-Lucas, C; Gil, A; Pelegrin, I; Chaves, F; Pomar, V; Ramos, A; Alarcon, T; Perez-Cecilia, E. Staphylococcus aureus meningitis in adults: A comparative cohort study of infections caused by meticillin-resistant and meticillin-susceptible strains. JOURNAL OF HOSPITAL INFECTION. 2019; 102(1) 108-115. FI: 3.271. Cuartil: 1. (Article).*

- *Keller, R; Chrastina, P; Pavlikova, M; Gouveia, S; Ribes, A; Kolker, S; Blom, HJ; Baumgartner, MR; Bartl, J; Dionisi-Vici, C; Gleich, F; Morris, AA; Kozich, V; Huemer, M; Baric, I; Ben-Omran, T; Blasco-Alonso, J; Delgado, MA; Carducci, C; Cassanello, M; Cerone, R; Couce, ML; Crushell, E; Pecellin, CD; Dulin, E; Espada, M; Ferino, G; Fingerhut, R; Jimenez, IG; Gallego, IG; Gonzalez-Irazabal, Y; Gramer, G; Fita, MJJ; Karg, E; Klein, J; Konstantopoulou, V; la Marca, G; Teles, EL; Leuzzi, V; Lilliu, F; Lopez, RM; Lund, AM; Mayne, P; Meavilla, S; Moat, SJ; Okun, JG; Pasquini, E; Pedron-Giner, CC; Racz, GZ; Gomez, MAR; Vilarinho, L; Yahyaoui, R; Tansek, MZ; Zetterstrom, RH; Zeyda, M; Individual Contributors European N. Newborn screening for homocystinurias: Recent recommendations versus current practice. JOURNAL OF INHERITED METABOLIC DISEASE. 2019; 42(1) 128-139. FI: 4.036. Cuartil: 2. (Article).*

- *Rodriguez-Fernandez, A; Sanchez-Dominguez, M; Torrado-Espanol, I; Noguerado-Mellado, B; Rojas-Perez-Ezquerra, P. Clinical Patterns of Heparin Allergy: Cross-reactivity Between Low-Molecular-Weight Heparins and Unfractionated Heparins. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 298-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Garcia-Gutierrez, I; Acevedo, M; Tornero, P; Matilla, A; Marquez, L; Sanchez-Herrero, A; Prieto-Garcia, A. Severe Maculopapular Exanthema Induced by Regorafenib: Successful Desensitization and Adaptation of a Dosage Regimen. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(6) 461-. FI: 3.488. Cuartil: 2. (Editorial Material).*

- *Noguerado-Mellado B; Rojas-Pérez-Ezquerra PD; Tornero Molina P; Ballesteros M; Zubeldia Ortuño JM. Delayed Hypersensitivity Reaction to Lenalidomide: 2 Different Clinical Patterns in the Same Patient. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 300-. FI: 3.488. Cuartil: 2. (Editorial Material).*
- *Alvarez-Perea, A; Fuentes-Aparicio, V; Cabrera-Freitag, P; Infante, S; Zapatero, L; Zubeldia, JM; Baeza, ML. Is Self-injectable Epinephrine Being Used by Children With Food Allergy?. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(4) 309-311. FI: 3.488. Cuartil: 2. (Article).*
- *Cabrera-Freitag, P; Infante, S; Bartolome, B; Alvarez-Perea, A; Fuentes-Aparicio, V; Remon, LZ. Anaphylaxis Related to Passive Second-Hand Exposure to Cannabis sativa Cigarette Smoke in Adolescents. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2019; 29(2) 132-. FI: 3.488. Cuartil: 2. (Article).*
- *Sanz-Ruiz P; Matas-Diez JA; Carbo-Laso E; Perez-Mañanes R; Vaquero-Martín J. Patient-Specific Instrument Can Improve Functional and Radiographic Results during Learning Curve for Oxford Unicompartmental Knee Arthroplasty. JOURNAL OF KNEE SURGERY. 2019; 32(2) 180-185. FI: 1.986. Cuartil: 2. (Article).*
- *Ruiz-de-Leon, MJ; Jimenez-Sousa, MA; Moreno, S; Garcia, M; Gutierrez-Rivas, M; Leon, A; Montero-Alonso, M; Gonzalez-Garcia, J; Resino, S; Rallon, N; Benito, JM; Vallejo, A; Benito, JM; Ratlon, N; Restrepo, C; Rodriguez, N; Garcia, M; Cabello, A; Gorgolas, M; Resino, S; Briz, V; Jimenez, MA; Vazquez, MS; Fernandez, A; Garcia, P; Munoz, MA; Sanchez, J; Jimenez, JL; Sepulveda, D; Garcia, I; Consuegra, I; Leon, A; Arnedo, M; Plana, M; Climent, N; Garcia, F; Ruiz-Mateos, E; Dominguez, B; Tarancon, L; Rafii-Elddrissi, M; Polaino, MJ; Genebat, M; Viciana, P; Leal, M; Vidal, F; Rodriguez, E; Vilades, C; Peraire, J; Romero, J; Rodriguez, C; Vera, M; Este, J; Ballana, E; Martinez, MA; Franco, S; Nevot, M; Vallejo, A; Moreno, S; Pernas, M; Casado, C; Lopez, C; Capa, L; Perez, M; Alcami, J; Sanjuan, R; Cuevas, JM; Delgado, R; Sierra, O; ECRIS Network Integrated Spanish A. Lower expression of plasma-derived exosome miR-21 levels in HIV-1 elite controllers with decreasing CD4 T cell count. JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. 2019; 52(4) 667-671. FI: 3.493. Cuartil: 2. (Article).*
- *Relano-Rodriguez, I; Juarez-Sanchez, R; Pavicic, C; Munoz, E; Munoz-Fernandez, MA. Polyanionic carbosilane dendrimers as a new adjuvant in combination with latency reversal agents for HIV treatment. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*
- *Diaz-Ruano, S; Lopez-Perez, AE; Giron, R; Perez-Garcia, I; Martin-Fontelles, MI; Abalo, R. Fluoroscopic Characterization of Colonic Dysmotility Associated to Opioid and Cannabinoid Agonists in Conscious Rats. JOURNAL OF NEUROGASTROENTEROLOGY AND MOTILITY. 2019; 25(2) 300-. FI: 3.008. Cuartil: 2. (Article).*
- *Osorio S; Escudero-Vilaplana V; Gómez-Centurión I; González-Arias E; García-González X; Díez JL. Inadequate response to imatinib treatment in chronic myeloid leukemia due to a drug interaction with phenytoin. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(2) 484-486. FI: 1.85. Cuartil: 4. (Article).*
- *Manes-Sevilla, M; Romero-Jimenez, R; Herranz-Alonso, A; Sanchez-Fresneda, M; Gonzalez-Haba, E; Collado-Borrel, R; Benedi-Gonzalez, J; Sanjurjo-Saez, M. Drug cost avoidance in clinical trials of breast cancer. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(3) 694-698. FI: 1.85. Cuartil: 4. (Article).*
- *Osorio, S; Escudero-Vilaplana, V; Reguilon-Gallego, L; Gomez-Centurion, I; Diez, JL; Ferrer-Marin, F. Severe liver toxicity in a chronic myeloid leukemia patient probably induced by a drug interaction between imatinib and sertraline. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(5) 1099-1104. FI: 1.85. Cuartil: 4. (Article).*
- *Pareja, J; Coronado, A; Contreras, I. Epiretinal Membrane Surgery in Daily Clinical Practice: Results of a Proposed Management Scheme. JOURNAL OF OPHTHALMOLOGY. 2019; 2019 -. FI: 1.447. Cuartil: 3. (Article).*
- *Perez-Egido, L; Garcia-Casillas, MA; Simal, I; Fanjul, M; Canizo, A; Cerda, JA; Fernandez, B; de la Torre, M; Ordonez, J; de Agustin, JC. Digital thoracic drainage: a new system to monitor air leaks in pediatric population. JOURNAL OF PEDIATRIC SURGERY. 2019; 54(8) 1595-1600. FI: 1.919. Cuartil: 2. (Article).*
- *van Der Steeg, HJJ; van Rooij, IALM; Iacobelli, BD; Sloots, CEJ; Leva, E; Broens, P; Leon, FF; Makedonsky, I; Schmiedeke, E; Vazquez, AG; Midrio, P; Lisi, G; Amerstorfer, E; Miserez, M; Fanjul, M; Ludwiczek, J; Stenstrom, P; Giuliani, S; van Der Steeg, AFW; de Blaauw, I; Aminoff, D; Bagolan, P; Gamba, P; Gine, C; Grano, C; Grasshoff-Derr, S; Haanen, M; Jenetzky, E; Lacher, M; Marcelis, C; Ozen, O; Percin, F; Prato, AP; Burneo, CR; Reutter, H; Rohleder, S; Samuk, I; Schwarzer, N; Till, H; Volk, P; Zwink, N; ARM-Net Consortium. The impact of perioperative care on complications and short term outcome in ARM type rectovestibular fistula: An ARM-Net consortium study. JOURNAL OF PEDIATRIC SURGERY. 2019; 54(4) 693-695. FI: 1.919. Cuartil: 2. (Article).*
- *Trobo, D; Pintado, P; Ortega, V; Yllana, F; Hernandez, C; Mendizabal, R; De Leon-Luis, J. Maternal and perinatal outcomes in external cephalic version: prognostic factors for the success of the technique. JOURNAL OF PERINATAL MEDICINE. 2019; 47(7) 717-723. FI: 1.614. Cuartil: 3. (Article).*
- *Mondejar-Parre?o, G; Callejo, M; Barreira, B; Morales-Cano, D; Esquivel-Ruiz, S; Filice, M; Moreno, L; Cogolludo, A; Perez-Vizcaino, F. miR-1 induces endothelial dysfunction in rat pulmonary arteries. JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. 2019; 75(4) 519-529. FI: 2.952. Cuartil: 2. (Article).*
- *del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*

- *Concepcion, LG; Beatriz, B; Elena, D. Use of innovative negative pressure therapy for cartilage exposure in microtia reconstruction. JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY. 2019; 72(2) 3-4. FI: 2.39. Cuartil: 2. (Letter).*

- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*

- *Riveiro, AS; Gonzalez, JCN; Barrio, JM. Systemic Sclerosis after Bone Marrow Transplantation: A Case with Evidence of Donor-related Disease Transfer. JOURNAL OF RHEUMATOLOGY. 2019; 46(9) 1246-1247. FI: 3.35. Cuartil: 2. (Letter).*

- *Lope, V; Toribio, MJ; Perez-Gomez, B; Castello, A; Mena-Bravo, A; Sierra, MA; Lucas, P; Herran-Vidaurrazaga, MD; Gonzalez-Vizcayno, C; Pino, MN; Cruz-Campos, I; Roca-Navarro, MJ; Aragones, N; Romieu, I; Martinez-Cortes, M; de Castro, MDL; Pollan, M. Serum 25-hydroxyvitamin D and mammographic density in premenopausal Spanish women. JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY. 2019; 189 101-107. FI: 3.813. Cuartil: 2. (Article).*

- *Plaza, AM; Tara, MPD; Fernandez, ABM; Martinez, EB; Ramos, MR; Valades, RF; Lopez, AE. Bilateral auricular reconstruction with osseointegrated implant-retained prostheses. Optimization of aesthetic outcomes using virtual planning. JOURNAL OF STOMATOLOGY ORAL AND MAXILLOFACIAL SURGERY. 2019; 120(6) 579-583. FI: 1.152. Cuartil: 4. (Editorial Material).*

- *Gonzalez-Cantero, A; Gonzalez-Cantero, J; Sanchez-Moya, AI; Perez-Hortet, C; Arias-Santiago, S; Martin-Rodriguez, JL; Schoendorff-Ortega, C; Gonzalez-Calvin, JL. Femoral artery ultrasound for improving the detection of atherosclerosis in psoriasis. JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY. 2019; 80(3) 784-786. FI: 8.277. Cuartil: 1. (Letter).*

- *Kumar, R; Mickael, C; Kassa, B; Sanders, L; Koyanagi, D; Hernandez-Saavedra, D; Freeman, S; Morales-Cano, D; Cogolludo, A; McKee, AS; Fontenot, AP; Butrous, G; Tuder, RM; Graham, BB. Th2 CD4(+) T Cells Are Necessary and Sufficient for Schistosoma-Pulmonary Hypertension. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(3) -. FI: 4.605. Cuartil: 1. (Article).*

- *Rivera-Juarez, A; Hernandez-Romero, I; Puertas, C; Zhang-Wang, S; Sanchez-Alamo, B; Martins, R; Figuera, C; Guillem, MS; Climent, AM; Fernandez-Aviles, F; Tejedor, A; Jalife, J; Atienza, F. Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(15) -. FI: 4.605. Cuartil: 1. (Article).*

- *Gimenez-Roldan, S; Morales-Asin, F; Ferrer, I; Spencer, PS. Historical setting and neuropathology of lathyrism: Insights from the neglected 1944 report by Oliveras de la Riva. JOURNAL OF THE HISTORY OF THE NEUROSCIENCES. 2019; 28(4) 361-386. FI: 0.347. Cuartil: 4. (Article).*

- *Vales-Montero, M; Garcia-Pastor, A; Iglesias-Mohedano, AM; Esteban-de Antonio, E; Salgado-Camara, P; Garcia-Dominguez, JM; Vazquez-Alen, P; Diaz-Otero, F; Fernandez-Bullido, Y; Gil-Nunez, A. Cerebral amyloid angiopathy-related transient focal neurological episodes: A transient ischemic attack mimic with an increased risk of intracranial hemorrhage. JOURNAL OF THE NEUROLOGICAL SCIENCES. 2019; 406 -. FI: 3.115. Cuartil: 2. (Article).*

- *Aldamiz-Echevarria, T; Resino, S; Bellon, JM; Jimenez-Sousa, MA; Miralles, P; Medrano, LM; Carrero, A; Diez, C; Perez-Latorre, L; Fanciulli, C; Garcia-Broncano, P; Berenguer, J. European mitochondrial haplogroups predict liver-related outcomes in patients coinfected with HIV and HCV: a retrospective study. JOURNAL OF TRANSLATIONAL MEDICINE. 2019; 17 -. FI: 4.124. Cuartil: 2. (Article).*

- *Garcia-Garcia, A; Demelo-Rodriguez, P; Ordieres-Ortega, L; Cervilla-Munoz, E; Garcia-Fernandez-Bravo, I; Pulfer, MD; Lopez-Aparicio, A; Galeano-Valle, F; del Toro-Cervera, J. Idiopathic versus Provoked Renal Infarction: Characteristics and Long-Term Follow-Up of a Cohort of Patients in a Tertiary Hospital. KIDNEY & BLOOD PRESSURE RESEARCH. 2019; 44(6) 1432-1440. FI: 1.898. Cuartil: 3. (Article).*

- *Cavero, T; Arjona, E; Soto, K; Caravaca-Fontan, F; Rabasco, C; Bravo, L; de la Cerda, F; Martin, N; Blasco, M; Avila, A; Huerta, A; Cabello, V; Jarque, A; Alcazar, C; Fulladosa, X; Carbayo, J; Anaya, S; Cobelo, C; Ramos, N; Iglesias, E; Baltar, J; Martinez-Gallardo, R; Perez, L; Morales, E; Gonzalez, R; Macia, M; Draibe, J; Pallardo, L; Quintana, LF; Espinosa, M; Barros, X; Pereira, F; Cao, M; Moreno, JA; de Cordoba, SR; Praga, M; Spanish Grp Study Glomerular Dis. Severe and malignant hypertension are common in primary atypical hemolytic uremic syndrome. KIDNEY INTERNATIONAL. 2019; 96(4) 995-1004. FI: 8.945. Cuartil: 1. (Article).*

- *Villanueva, C; Albillos, A; Genesca, J; Garcia-Pagan, JC; Calleja, JL; Aracil, C; Banares, R; Morillas, RM; Poca, M; Penas, B; Augustin, S; Abraldes, JG; Alvarado, E; Torres, F; Bosch, J; Torras, X; Cadafalch, J; Ardevol, A; Graupera, I; Pavel, O; Diez, X; Vargas, H; Pernas, JC; Barcons, M; Gallego, A; Soriano, G; Gordillo, J; Santalo, M; Benito, S; Guarner, C; Tellez, L; Martinez, J; Rodriguez-Gandia, MA; Mesonero, F; Martin, C; Millan, L; Pons, M; Torrens, M; Berzigotti, A; Seijoo, S; Hernandez-Gea, V; Turon, F; Llach, J; Bru, C; Escorsell, A; Llop, E; Perello, C; Minana, JM; Zaragoza, N; Buenestado, J; Rene, JM; Ripoll, C; Garcia-Lledo, J; Catalina, MV; Rincon, D; Planas, R; PreDesCi Study Investigators. beta blockers to prevent decompensation of cirrhosis in patients with clinically significant portal hypertension (PREDESCI): a randomised, double-blind, placebo-controlled, multicentre trial. LANCET. 2019; 393(10181) 1597-1608. FI: 60.392. Cuartil: 1. (Article).*

- *Gonzalez-Cantero, A; Gonzalez-Cantero, J; Sanchez-Moya, AI; Rodriguez-Padial, L; Perez-Hortet, C; Gonzalez-Calvin, JL. Is intima-media thickness a predictor for cardiovascular risk?. LANCET. 2019; 394(10196) 380-381. FI: 60.392. Cuartil: 1. (Letter).*

- *Dagnew, AF; Ilhan, O; Lee, WS; Woszczyk, D; Kwak, JY; Bowcock, S; Sohn, SK; Macias, GR; Chiou, TJ; Quiel, D; Aoun, M; Matilla, MBN; de la Serna, J; Milliken, S; Murphy, J; McNeil, SA; Salaun, B; Di Paolo, E; Campora, L; Lopez-Fauqued, M; El Idrissi, M; Schuind, A; Heineman, TC; Van den Steen, P; Oostvogels, L; Zoster-039 Study Grp. Immunogenicity and safety of the adjuvanted recombinant zoster vaccine in adults with haematological malignancies: a phase 3, randomised, clinical trial and post-hoc efficacy analysis. LANCET INFECTIOUS DISEASES. 2019; 19(9) 988-1000. FI: 24.446. Cuartil: 1. (Article).*

- *Martinez-Cuadron, D; Gil, C; Serrano, J; Rodriguez, G; Perez-Oteyza, J; Garcia-Boyero, R; Jimenez-Bravo, S; Vives, S; Vidriales, MB; Lavilla, E; Perez-Simon, JA; Tormo, M; Colorado, M; Bergua, J; Lopez, JA; Herrera, P; Hernandez-Campo, P; Gorrochategui, J; Primo, D; Rojas, JL; Villoria, J; Moscardo, F; Troconiz, I; Gomez, ML; Martinez-Lopez, J; Ballesteros, J; Sanz, M; Montesinos, P; Spanish PETHEMA Grp. A precision medicine test predicts clinical response after idarubicin and cytarabine induction therapy in AML patients. LEUKEMIA RESEARCH. 2019; 76 1-10. FI: 2.214. Cuartil: 3. (Article).*

- *Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*

- *Herrador, Z; Fernandez-Martinez, B; Quesada-Cubo, V; Diaz-Garcia, O; Cano, R; Benito, A; Gomez-Barroso, D. Imported cases of malaria in Spain: observational study using nationally reported statistics and surveillance data, 2002-2015. MALARIA JOURNAL. 2019; 18 -. FI: 2.631. Cuartil: 1. (Article).*

- *Fradejas, I; Rubio, JM; Martin-Diaz, A; Herrero-Martinez, JM; Ruiz-Giardin, JM; Rojo-Marcos, G; Velasco, M; Calderon-Moreno, M; Azcona-Gutierrez, JM; Merino, FJ; Olmo, BA; Espinosa, M; Cuadrado, M; Gonzalez-Monte, E; Jaqueti, J; Cuadros, J; Campelo, C; Delgado-Iribarren, A; Martin-Rabadan, P; Garcia-Garcia, C; Martin-Laso, MA; Valle-Borrego, B; Garcia, MC; Lizasoain, M; Perez-Ayala, A. Prevalence of submicroscopic malaria infection in immigrants living in Spain. MALARIA JOURNAL. 2019; 18 -. FI: 2.631. Cuartil: 1. (Article).*

- *Zvezdanova, ME; Escribano, P; Ruiz, A; Martinez-Jimenez, MC; Pelaez, T; Collazos, A; Guinea, J; Bouza, E; Rodriguez-Sanchez, B. Increased species-assignment of filamentous fungi using MALDI-TOF MS coupled with a simplified sample processing and an in-house library. MEDICAL MYCOLOGY. 2019; 57(6) 659-667. FI: 2.822. Cuartil: 1. (Article).*

- *Diaz-Garcia, Judith; Marcos-Zambrano, Laura Judith; Munoz, Patricia; Guinea, Jesus; Escribano, Pilar. Does the composition of polystyrene trays affect Candida spp. biofilm formation?. MEDICAL MYCOLOGY. 2019; 57(4) 504-509. FI: 2.822. Cuartil: 1. (Article).*

- *Cuervo G; Garcia-Vidal C; Puig-Asensio M; Merino P; Vena A; Martin-Pena A; Montejo JM; Ruiz A; Lazaro-Perona F; Fortun J; Fernandez-Ruiz M; Suarez AI; Castro C; Cardozo C; Gudiol C; Aguado JM; Pano JR; Peman J; Salavert M; Garnacho-Montero J; Cisneros JM; Soriano A; Munoz P; Almirante B; Carratala J; REIPI, the GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group. Usefulness of guideline recommendations for prognosis in patients with candidemia. MEDICAL MYCOLOGY. 2019; 57(1) 63-70. FI: 2.822. Cuartil: 1. (Article).*

- *Jimenez-Morillas, F; Gil-Mosquera, M; Garcia-Lamberechts, EJ; Miguens-Blanco, I; Alvarez-Manzanares, J; Portillo-Cano, MM; del Rio-Navarro, R; Representacion Seccion Enfermedade. Fever in travellers returning from the tropics. MEDICINA CLINICA. 2019; 153(4) 182-182. FI: 1.635. Cuartil: 3. (Editorial Material).*

- *Benite, LMN; Diaz, AMR; Blanco, VP; Perez, AP. Cutaneous crust as a key sign in the diagnosis of a patient with fever. MEDICINA CLINICA. 2019; 153(5) 205-212. FI: 1.635. Cuartil: 3. (Article).*

- *Montero, MV; Sierra, OM; Martinez, JR; Gil, FF; Carballal, CF; Cuello, JP. Spinal epidural abscess caused by Streptococcus agalactiae in an immunocompetent patient. MEDICINA CLINICA. 2019; 153(7) 290-292. FI: 1.635. Cuartil: 3. (Editorial Material).*

- *Lopez, J; Slocker, M; Heras, E; Rios, D; Barrio, L; Cebrian, R; Gomez, D; Lopez-Herce, J. Prognostic utility of the multiorgan failure scores and inotropic index in the postoperative of cardiac transplantation in children. MEDICINA INTENSIVA. 2019; 43(7) 441-443. FI: 2.363. Cuartil: 3. (Letter).*

- *Demelo-Rodriguez, P; Galeano-Valle, F; Garcia-Fernandez-Bravo, I; Piqueras-Ruiz, S; Alvarez-Sala-Walther, L; del Toro-Cervera, J. Rivaroxaban for the treatment of venous thromboembolism in real life A single-center prospective study. MEDICINE. 2019; 98(3) -. FI: 1.552. Cuartil: 3. (Article).*

- *Callejas, R; Panadero, A; Vives, M; Duque, P; Echarri, G; Monedero, P; Acedo, G; Agudo, O; Aguilar, G; Albacete, CL; Alonso, S; Alvarez, E; Alvarez, F; Alvarez-Fuente, E; Amaya, JF; Angulo, JM; Arocas, B; Arribas, P; Arteta, M; Avila, E; Badenes, R; Ballester, JA; Banos, G; Barado, J; Barrios, JM; Barrios, R; Belda, FJ; Belda, I; Berastegui, E; Bixquert, D; Burgos, V; Bustamante, C; Calderon, E; Campos, A; Candela, A; Canteli, A; Carbonell, JA; Carnero, D; Carrasco, MD; Casas, R; Castano, B; Cobo, M; Cordon, S; De Pablo, A; Dominguez, MJ; Elias, E; Esteva, C; Fernandez, F; Fernandez, FE; Fernandez, L; Fernando, C; Flores, JB; Gajate, L; Galan, M; Garcia, A; Garcia, C; Garcia, M; Garcia-Fernandez, N; Garcia-Marquez, C; Garciperez, JF; Gomez, A; Gomez, A; Gomez, A; Gonzalez, FJ; Gonzalez, R; Gragera, I; Guerrero, J; Herrador, P; Ibanez, S; Iglesias, L; Jara, R; Just, S; Llano, MF; Lopez, A; Mancino, JM; Martinez, M; Mateos, B; Matute, P; Misis, MT; Navarro, I; Novoa, E; Nunez, M; Olmos, M; Paredes, I; Parise, D; Pastor, E; Pereira, J; Pereira, MA; Peris, X; Pita-Romero, R; Porro, J; Prada, B; Puerto, LM; Puig, J; Ricart, P; Roma, F; Roman, A; Roux, C; Royuela, N; Ruiz, M; Rubio, M; Ruiz-Granado, P; Salcedo, AG; Sanchez, S; Tamayo, E; Tomasa,*

*T; Torrents, MA; Torres, MJ; Varela, MA; Vazquez, M; Vilanova, V; Ysasi, A; Renal Dysfunction Cardiac Surg Spa. Preoperative predictive model for acute kidney injury after elective cardiac surgery: a prospective multicenter cohort study. MINERVA ANESTESIOLOGICA. 2019; 85(1) 34-44. FI: 2.498. Cuartil: 3. (Article).*

- *Pérez-Grijalba V; García-Oguiza A; López M; Armstrong J; García-Miñaur S; Mesa-Latorre JM; O'Callaghan M; Pineda Marfa M; Ramos-Arroyo MA; Santos-Simarro F; Seidel V; Domínguez-Garrido E. New insights into genetic variant spectrum and genotype-phenotype correlations of Rubinstein-Taybi syndrome in 39 CREBBP-positive patients. MOLECULAR GENETICS & GENOMIC MEDICINE. 2019; 7(11) -. FI: 1.995. Cuartil: 3. (Article).*

- *Fernandez-Simon, E; Carrasco-Rozas, A; Gallardo, E; Gonzalez-Quereda, L; Alonso-Perez, J; Belmonte, I; Pedrosa-Hernandez, I; Montiel, E; Segovia, S; Suarez-Calvet, X; Llauger, J; Mayos, M; Illa, I; Barba-Romero, MA; Barcena, J; Paradas, C; Carzorla, MR; Creus, C; Coll-Canti, J; Diaz, M; Dominguez, C; Fernandez-Torron, R; Garcia-Antelo, MJ; Grau, JM; de Munain, AL; Martinez-Garcia, FA; Morgado, Y; Moreno, A; Moris, G; Munoz-Blanco, MA; Nascimento, A; Parajua-Pozo, JL; Querol, L; Rojas, R; Robledo-Strauss, A; Rojas-Marcos, I; Salazar, JA; Uson, M; Diaz-Manera, J. Study of the effect of anti-rhGAA antibodies at low and intermediate titers in late onset Pompe patients treated with ERT. MOLECULAR GENETICS AND METABOLISM. 2019; 128(1-2) 129-136. FI: 4.17. Cuartil: 1. (Article).*

- *Cussó L; Musteanu M; Mulero F; Barbacid M; Desco M. Effects of a Ketogenic Diet on [F-18]FDG-PET Imaging in a Mouse Model of Lung Cancer. MOLECULAR IMAGING AND BIOLOGY. 2019; 21(2) 279-285. FI: 2.925. Cuartil: 2. (Article).*

- *Alvarez-Cilleros, D; Lopez-Oliva, ME; Morales-Cano, D; Barreira, B; Perez-Vizcaino, F; Goya, L; Ramos, S; Martin, MA. Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. MOLECULAR NUTRITION & FOOD RESEARCH. 2019; 63(18) -. FI: 5.309. Cuartil: 1. (Article).*

- *De la Casa-Fages, B; Fernandez-Eulate, G; Gamez, J; Barahona-Hernando, R; Moris, G; Garcia-Barcina, M; Infante, J; Zulaica, M; Fernandez-Pelayo, U; Munoz-Oreja, M; Urtasun, M; Olaskoaga, A; Zelaya, V; Jerico, I; Saez-Villaverde, R; Catalina, I; Sola, E; Martinez-Saez, E; Pujol, A; Ruiz, M; Schluter, A; Spinazzola, A; Munoz-Blanco, JL; Grandas, F; Holt, I; Alvarez, V; de Munain, AL. Reply to: "Mitochondrial Parkinsonism due to SPG7/Paraplegin Variants with Secondary mtDNA Depletion". MOVEMENT DISORDERS. 2019; 34(12) 1932-1933. FI: 8.679. Cuartil: 1. (Letter).*

- *Vena, A; Munoz, P; Guinea, J; Escribano, P; Pelaez, T; Valerio, M; Bonache, F; Gago, S; Alvarez-Uria, A; Bouza, E. Fluconazole resistance is not a predictor of poor outcome in patients with cryptococcosis. MYCOSES. 2019; 62(5) 441-449. FI: 3.575. Cuartil: 1. (Article).*

- *Maciel, D; Guerrero-Beltran, C; Cena-Diez, R; Tomas, H; Munoz-Fernandez, MA; Rodrigues, J. New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. NANOSCALE. 2019; 11(19) 9679-9690. FI: 6.895. Cuartil: 1. (Article).*

- *Macías N; Abad S; Vega A; Cedeño S; Santos A; Verdalles Ú; Linares T; Aragoncillo I; Galán I; García-Prieto A; Luño J; López Gómez JM. High convective volumes are associated with improvement in metabolic profile in diabetic patients on online haemodiafiltration. NEFROLOGIA. 2019; 39(2) 168-176. FI: 1.544. Cuartil: 4. (Article).*

- *Ibeas J; Roca-Tey R; Vallespin J; Moreno T; Monux G; Marti-Monros A; Del Pozo JL; Gruss E; Ramirez de Arellano M; Fontsere N; Arenas MD; Merino JL; Garcia-Revillo J; Caro P; Lopez-Espada C; Gimenez-Gaibar A; Fernandez-Lucas M; Valdes P; Fernandez-Quesada F; de la Fuente N; Hernan D; Arribas P; Sanchez de la Nieta MD; Martinez MT; Barba A; por el Grupo Espanol Multidisciplinar del Acceso Vascular (GEMAV). Erratum to <<Spanish Clinical Guidelines on Vascular Access for Haemodialysis>>. NEFROLOGIA. 2019; 39(1) 100-102. FI: 1.544. Cuartil: 4. (Letter).*

- *Fernandez, MP; Bermejo, ABP; Esparragoza, JKP; Martinez, AB; Moreno, IA; Ramos, JM; Barrio, FM. Nephrotic syndrome in relation to treatment with ustekinumab. NEFROLOGIA. 2019; 39(1) 1-2. FI: 1.544. Cuartil: 4. (Article).*

- *Macias, N; Abad, S; Aragoncillo, I; Hernandez, A; Torres, E; Santos, A; Gomez, JML; Luno, J; Vega, A. Body composition infuences the elimination of protein-bound uremic toxins in online hemodiafiltration. NEFROLOGIA. 2019; 39(4) 434-436. FI: 1.544. Cuartil: 4. (Letter).*

- *Valera-Mele, M; Sierra, OM; Vendrell, ES; de Villoria, JAG; Diaz, LC; del Corral, OLGD; Leal, RG. Assessment of the impact of glioma diagnostic reclassification following the new 2016 WHO classification on a series of cases. NEUROCIRUGIA. 2019; 30(1) 19-27. FI: 0.597. Cuartil: 4. (Article).*

- *Ruiz-Juretschke, F; Guzman-de-Villoria, JG; Garcia-Leal, R; Sanudo, JR. Predictive value of magnetic resonance for identifying neurovascular compressions in trigeminal neuralgia. NEUROLOGIA. 2019; 34(5) 343-345. FI: 2.283. Cuartil: 3. (Letter).*

- *de la Cruz, MH; Rubio, RD; Buzo, EL; Otero, FD; Alen, PV; Rincon, JO; Montalvo, JP; Chicote, AC; Perez, FG. Syndrome of transient headache and neurological deficits with cerebrospinal fluid lymphocytosis (HaNDL) in a patient with confusional symptoms, diffuse EEG abnormalities, and bilateral vasospasm in transcranial Doppler ultrasound: A case report and litera. NEUROLOGIA. 2019; 34(9) 618-620. FI: 2.283. Cuartil: 3. (Letter).*

- *Duque, SG; Jureschke, ER; Leal, RG. Reversible paraparesis secondary to spinal cord compression in a patient with beta-thalassaemia. NEUROLOGIA. 2019; 34(8) 536-542. FI: 2.283. Cuartil: 3. (Review).*

- *Ruiz, EP; Martinez, DM; Lopez, MV; Martin, YR. Kearns-Sayre syndrome: Absence of clinical response to treatment with oral folinic acid. NEUROLOGIA. 2019; 34(4) 270-272. FI: 2.283. Cuartil: 3. (Letter).*

- *Butragueño Laiseca L; Toledo Del Castillo B; Miranda Herrero MC. Energy drinks as a trigger factor for seizures in paediatric patients: A case report. NEUROLOGIA. 2019; 34(8) 510-519. FI: 2.283. Cuartil: 3. (Article).*

- *Ntaios, G; Georgiopoulos, G; Perlepe, K; Sirimarco, G; Strambo, D; Eskandari, A; Nannoni, S; Vemmou, A; Koroboki, E; Manios, E; Rodriguez-Campello, A; Cuadrado-Godia, E; Roquer, J; Arnao, V; Caso, V; Paciaroni, M; Diez-Tejedor, E; Fuentes, B; Pardo, JR; Sanchez-Velasco, S; Arauz, A; Ameriso, SF; Pertierra, L; Gomez-Schneider, M; Hawkes, MA; Barboza, MA; Cano, BC; Mohedano, AMI; Pastor, AG; Gil-Nunez, A; Putaala, J; Tatlisumak, T; Karagkiozi, E; Papavasileiou, V; Makaritsis, K; Bandini, F; Vemmos, K; Michel, P. A tool to identify patients with embolic stroke of undetermined source at high recurrence risk. NEUROLOGY. 2019; 93(23) 2094-2104. FI: 8.77. Cuartil: 1. (Article).*

- *Alvarez-Calatayud, G; Requena, T; Margolles, A. Lactobacillus for Gastroenteritis in Children. NEW ENGLAND JOURNAL OF MEDICINE. 2019; 380(19) -. FI: 74.699. Cuartil: 1. (Letter).*

- *Fraile, PZ; Castro, AL; Melero, VA; Antiguedad, CG; Megias, SM; Revilla, SC. Relationship of body composition measured by DEXA with lifestyle and satisfaction with body image in university students. NUTRICION HOSPITALARIA. 2019; 36(6) 1261-1266. FI: 0.888. Cuartil: 4. (Article).*

- *Modino, SC; Martinez, MD; Gonzalez, BF; Claros, NM; Perez, CF; Aguilera, CN; Viveros, MM; de Armas, GG; de Paz, IP; Megias, SM; Pinero, BV. Implication of gestational diabetes treatment on maternal weight gain and low neonatal weight: a large retrospective cohort study. NUTRICION HOSPITALARIA. 2019; 36(4) 919-925. FI: 0.888. Cuartil: 4. (Article).*

- *Tirelli, G; Hinni, ML; Fernandez-Fernandez, MM; Bussani, R; Gatto, A; Bonini, P; Giudici, F; Nata, FB. Frozen sections and complete resection in oral cancer surgery. ORAL DISEASES. 2019; 25(5) 1309-1317. FI: 2.613. Cuartil: 1. (Article).*

- *Sampayo-Cordero, M; Miguel-Huguet, B; Pardo-Mateos, A; Malfettone, A; Perez-Garcia, J; Llombart-Cussac, A; Cortes, J; Molto-Abad, M; Munoz-Delgado, C; Perez-Quintana, M; Perez-Lopez, J. Agreement between results of meta-analyses from case reports and clinical studies, regarding efficacy and safety of idursulfase therapy in patients with mucopolysaccharidosis type II (MPS-II). A new tool for evidence-based medicine in rare diseases. ORPHANET JOURNAL OF RARE DISEASES. 2019; 14(1) -. FI: 3.523. Cuartil: 2. (Article).*

- *Riera-Mestre, A; Mora-Lujan, JM; Trujillo-Santos, J; Del Toro, J; Nieto, JA; Pedrajas, JM; Lopez-Reyes, R; Soler, S; Ballaz, A; Cerda, P; Monreal, M; Monreal, M; Prandoni, P; Brenner, B; Farge-Bancel, D; Barba, R; Di Micco, P; Bertoletti, L; Schellong, S; Tzoran, I; Reis, A; Bosevski, M; Bounameaux, H; Maly, R; Verhamme, P; Caprini, JA; Bui, HM; Adarraga, MD; Agud, M; Aibar, MA; Alcalde-Manero, M; Alfonso, J; Amado, C; Arcelus, JI; Ballaz, A; Barba, R; Barbagelata, C; Barron, M; Barron-Andres, B; Blanco-Molina, A; Camon, AM; Canas, I; Castro, J; Cerda, P; de Miguel, J; del Toro, J; Demelo, P; Diaz-Pedroche, C; Diaz-Peromingo, JA; Dominguez, I; Escribano, JC; Falga, C; Fernandez-Capitan, C; Fernandez-Criado, MC; Fidalgo, MA; Flores, K; Font, C; Font, L; Furest, I; Garcia, MA; Garcia-Bragado, F; Garcia-Raso, A; Gavin-Bianco, O; Gavin-Sebastian, O; Gil-Diaz, A; Godoy-Diaz, D; Gomez, V; Gomez-Cuelvo, C; Gonzalez-Martinez, J; Grau, E; Guirado, L; Gutierrez, J; Hernandez-Blasco, LM; Jara-Palomares, L; Jaras, MJ; Jimenez, D; Joya, MD; Jou, I; Lalueza, A; Lecumberri, R; Lima, J; Llamas, P; Lobo, JL; Lopez-Jimenez, L; Lopez-Meseguer, M; Lopez-Miguel, P; Lopez-Nunez, JJ; Lopez-Reyes, R; Lopez-Saez, JB; Lorente, MA; Loring, M; Lumbierres, M; Madridano, O; Maestre, A; Marchena, PJ; Martin-Martos, F; Martinez-Baquerizo, C; Martinez-Garcia, MA; Mellado, M; Moises, J; Monreal, M; Morales, MV; Munoz-Bianco, A; Nieto, JA; Nunez, MJ; Olivares, MC; Olivera, PE; Ortega, C; Osorio, J; Otalora, S; Otero, R; Panadero-Macia, M; Parra, V; Pedrajas, JM; Pellejero, G; Perez-Ductor, C; Perez-Rus, G; Penis, ML; Pesantez, D; Porras, JA; Riera-Mestre, A; Rivas, A; Rodriguez-Cobo, A; Rodriguez-Matute, C; Rosa, V; Rubio, CM; Ruiz-Artacho, P; Ruiz-Sada, P; Sahuquillo, JC; Sala-Sainz, MC; Salgueiro, G; Samperiz, A; Sanchez-Martinez, R; Sanchez-Munoz-Torrero, JF; Segui, E; Soler, S; Suarez, S; Surinach, JM; Tolosa, C; Torres, MI; Trujillo-Santos, J; Uresandi, F; Valero, B; Valle, R; Vidal, G; Aar, C; Villares, P; Gutierrez, P; Vazquez, FJ; Vilaseca, A; Vanassche, T; Vandenbriele, C; Verhamme, P; Hirmerova, J; Maly, R; Salgado, E; Benzidia, I; Bertoletti, L; Bura-Riviere, A; Debourdeau, P; Courtois, MC; Farge-Bancel, D; Helfer, H; Hij, A; Mahe, I; Moustafa, F; Schellong, S; Braester, A; Brenner, B; Tzoran, I; Bilora, F; Bortoluzzi, C; Ciammaichella, M; Dentali, F; Di Micco, P; Fermi, P; Imbaizano, E; Lodigiani, C; Maida, R; Mastroiacovo, D; Mumoli, N; Pace, F; Pesavento, R; Pomero, F; Prandoni, P; Quintavalla, R; Rocci, A; Rota, L; Siniscalchi, C; Tiraferri, E; Tufano, A; Visona, A; Hong, NV; Zalunardo, B; Kalejs, RV; Kigitovica, D; Skride, A; Bosevski, M; Zdraveska, M; Bounameaux, H; Mazzola, L; Capnini, JA; Tafur, AJ; Bui, HM; RIETE Investigators. Natural history of patients with venous thromboembolism and hereditary hemorrhagic telangiectasia. Findings from the RIETE registry. ORPHANET JOURNAL OF RARE DISEASES. 2019; 14(1) -. FI: 3.523. Cuartil: 2. (Article).*

- *Blaha, I; Lopez-Oliva, ME; Martinez, MP; Recio, P; Agis-Torres, A; Martinez, AC; Benedito, S; Garcia-Sacristan, A; Prieto, D; Fernandes, VS; Hernandez, M. Bladder Dysfunction in an Obese Zucker Rat: The Role of TRPA1 Channels, Oxidative Stress, and Hydrogen Sulfide. OXIDATIVE MEDICINE AND CELLULAR LONGEVITY. 2019; 2019 -. FI: 5.076. Cuartil: 2. (Article).*

- *Gonzalez-Torrecilla, E; Avila-Alonso, P. Successful cryoablation of dual atrioventricular nodal nonreentrant tachycardia: First reported cases. PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY. 2019; 42(12) 1597-1600. FI: 1.303. Cuartil: 4. (Article).*

- *Santana-Rodriguez, N; Clavo, B; Llontop, P; Fiuza, MD; Calatayud-Gastardi, J; Lopez, D; Lopez-Fernandez, D; Aguiar-Santana, IA; Ayub, A; Alshehri, K; Jordi, NA; Zubeldia, J; Broering, DC. Pulsed Ultrasounds Reduce Pain and Disability, Increasing Rib Fracture Healing, in a Randomized Controlled Trial. PAIN MEDICINE. 2019; 20(10) 1980-1988. FI: 2.513. Cuartil: 2. (Article).*

- *Rincon-Lopez, EM; Gomez, MLN; Matos, THS; Saavedra-Lozano, J; de la Red, YA; Ruperez, BH; de Julian, EC; Sebastian, MS; Garcia, BS; Morin, MG; Colino, CG; Bieler, CB; Aragones, JH; Fernandez, CM; RETRO-DREP Study Grp. Low-risk factors for severe bacterial infection and acute chest syndrome in children with sickle cell disease. PEDIATRIC BLOOD & CANCER. 2019; 66(6) -. FI: 2.355. Cuartil: 2. (Article).*

- *Flores-Gonzalez, JC; Valladares, CM; Castilla, CY; Mayordomo-Colunga, J; Quesada, SP; Delgado, CMM; Goni-Orayen, C; Carrion, FF; Veiga, AM; Olmedilla-Jodar, M; Romero, AJA; Eizmendi-Bereciartua, M; Gutierrez, CS; Lujan, EA; Navarro-Mingorance, A; Jordan, I; Bronquiolitis Unidad Cuidados Inte. Association of Fluid Overload With Clinical Outcomes in Critically Ill Children With Bronchiolitis: Bronquiolitis en la Unidad de Cuidados Intensivos Pediatricos (BRUCIP) Study*. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(3) 130-136. FI: 2.854. Cuartil: 1. (Article).*

- *Nellis, ME; Goel, R; Karam, O; Cushing, MM; Stanworth, SJ; Spinella, PC; Butt, W; Delzoppo, C; Erickson, S; Croston, E; Barr, S; Cavazzoni, E; de Jaeger, A; Tucci, M; French, ME; Ropars, M; Clayton, L; Murthy, S; Krahn, G; Qu, D; Hui, Y; Johansen, M; Jensen, AMB; Jarnvig, IL; Strange, D; Jayashree, M; Reddy, M; Sankar, J; Kumar, UV; Lodha, R; Lerner, RK; Paret, G; Schiller, O; Shostak, E; Dagan, O; Cavari, Y; Chiusolo, F; Cillis, A; Camporesi, A; Kneyber, M; Cochius-den Otter, S; Van Hemeldonck, E; Beca, J; Sherring, C; Rea, M; Abadesso, C; Moniz, M; Alshehri, S; Lopez-Herce, J; Ortiz, I; Garcia, M; Jordan, I; Gonzalez, JCF; Perez-Ferrer, A; Pascual-Albitre, A; Grazioli, S; Doell, C; Davis, PJ; Curro, I; Jones, A; Peters, MJ; Lillie, J; Wellman, PA; Aramburo, A; Shabana, M; Ramachandran, P; Sampaio, H; Sadasivam, K; Prince, NJ; Kanthimathinathan, HK; Branco, RG; Sykes, KL; Mellish, C; Sarfatti, A; Weitz, J; Sanders, RC; Hefley, G; Morzov, RSP; Markovitz, B; Ratiu, A; Sapru, A; Cowl, AS; Faustino, EVS; Mahadevaiah, S; Beltramo, F; Jeyapalan, AS; Cousins, MK; Stone, C; Fortenberry, J; Pinto, NP; Rodgers, C; Kniola, A; Porter, M; Owen, E; Lee, K; Thomas, LJ; Bembea, MM; Awojoodu, R; Kelly, D; Hughes, K; Mansoor, Z; Pineda, C; Yager, PH; Clark, M; Bateman, ST; Kuo, KW; Carlton, EF; Boville, B; Leimanis, M; Steiner, ME; Nerheim, D; Remy, KE; Langford, L; Schicker, M; Singleton, MN; Jarvis, JD; Nett, ST; Gertz, S; Killinger, JS; Sturhahn, M; Parker, MM; Harwayne-Gidansky, I; Watkins, LA; Cassel, G; Aran, A; Kaushik, S; Wen, AY; Hassinger, AB; Ozment, CP; Ray, CM; McCrory, MC; Bass, AL; Bigham, MT; Anthony, H; Muszynski, JA; Popelka, J; Fitzgerald, JC; Leonard, SD; Thomas, NJ; Spear, D; Marvin, WE; Saini, A; McArthur, J; Norris, A; Ghafoor, S; Anderson, A; Monjure, T; Bysani, K; Christie, LM; Loftis, LL; Meyer, AD; Tragus, R; Dibrell, H; Rupert, D; Delgado-Corcoran, C; Bodily, S; Willson, D; Dervan, LA; Hanson, SJ; Hagen, SA; Al-Subu, AM; Pediat Acute Lung Injury Sepsis In; Pediat Critical Care Blood Res Net; Point Prevalence Study Platelet Tr. International Study of the Epidemiology of Platelet Transfusions in Critically Ill Children With an Underlying Oncologic Diagnosis. PEDIATRIC CRITICAL CARE MEDICINE. 2019; 20(7) 342-351. FI: 2.854. Cuartil: 1. (Article).*

- *Boas, PV; Sanchez-Herrero, A; Suarez-Fernandez, R; Campos-Dominguez, M. Neonatal ichthyosis and hypotrichosis. PEDIATRIC DERMATOLOGY. 2019; 36(5) 745-746. FI: 1.164. Cuartil: 4. (Article).*

- *Cajozzo, M; Berenguer, B; Lorca-Garcia, C; Alles, JVD; Leal, RG; de Tomas, E. Management of congenital midline nasofrontal dermoid cysts in two identical twins: Case report. PEDIATRIC DERMATOLOGY. 2019; 36(4) 77-78. FI: 1.164. Cuartil: 4. (Editorial Material).*

- *Mintegi, S; Azkunaga, B; Prego, J; Qureshi, N; Dalziel, SR; Arana-Arri, E; Acedo, Y; Martinez-Indart, L; Urkaregi, A; Salmon, N; Benito, J; Kuppermann, N; Benito, J; Waisman, Y; Osmond, M; Johnson, D; Chamberlain, J; Macias, CG; Kharbanda, A; Babl, FE; Dalziel, S; Sutter, M; Cohen, D; Lloyd, J; Duffy, E; Mahajan, P; Wang, GS; Bradin, SA; Ramirez, J; Stephenson, S; Carison, A; Craig, S; Graudins, A; Cheek, J; Dalziel, SR; Bonish, M; Van de Voorde, P; Idrissi, SH; Petrovska, A; Mercier, JC; Morin, L; Cheron, G; Szabo, E; Nagy, R; Bognar, Z; Simon, G; Balla, G; Juhasz, E; Martin, C; Koshy, R; Mc Namara, R; Waisman, Y; Amir, L; Da Dalt, L; Moretti, C; Norbedo, S; Salvatore, R; Debbia, C; Arrighini, A; Botarelli, P; Pisani, M; Ponticiello, E; Tipo, E; Moll, H; Bilhota, X; Garrido, A; Gata, L; Macao, P; Lima, SC; Sa, GAE; Almeida, S; Gafencu, M; Babeu, A; Moldovan, D; Mitrofan, DM; Yanez, FJH; Andrees, AGA; Munoz, TD; Mendivil, R; Olomi, IB; Sabate, JFI; Orive, II; Roca, A; Fernandez, R; Lope, AJ; Canduela, V; Mesa, S; Bel, CGV; Millan, AB; Herrero, L; Calleja, CC; Molina, JC; Herrer, MAG; Canduela, C; Gutierrez, PB; Velasco, R; Sanchez, LM; Mengual, LM; Suarez, JR; Mintegi, S; Salmon, N; Bernal, JAM; Avila, JL; Lopez, PV; May, E; Olmo, JC; Corominas, VL; Garcia, MT; Ruperez, EC; Saez, AP; Ron, MS; Puyo, PV; Mesa, J; Pociello, N; Mercado, MG; Seiler, M; Gasser, CRB; Pittet, A; Gervaix, A; Manzano, S; Saz, EU; Yurtseven, A; Anil, M; Oguz, S; Tekin, D; Kurt, F; Ryan, M; Hoyle, A; Lyttle, MD; Potter, S; Babakhanlou, R; PERN Poisoning Working Grp. International Epidemiological Differences in Acute Poisonings in Pediatric Emergency Departments. PEDIATRIC EMERGENCY CARE. 2019; 35(1) 50-57. FI: 1.17. Cuartil: 3. (Article).*

- *Vives-Onos, I; Codina-Grau, MG; Noguera-Julian, A; Blazquez-Gamero, D; Fortuny, C; Baquero-Artigao, F; Frick, MA; Saavedra-Lozano, J; Goycochea-Valdivia, W; Rives-Ferreiro, MT; Montesdeoca-Melian, A; Calavia-Garsaball, O; Ferreras-Antolin, L; Marin-Soria, JL; Dulin-Iniguez, E; Soler-Palacin, P; REDICCMV Study Grp. Is Polymerase Chain Reaction in Neonatal Dried Blood Spots Reliable for the Diagnosis of Congenital Cytomegalovirus Infection?. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2019; 38(5) 520-524. FI: 2.126. Cuartil: 2. (Article).*

- *Fanjul, M; Lancharro, A; Molina, E; Cerda, J. Gynecological anomalies in patients with anorectal malformations. PEDIATRIC SURGERY INTERNATIONAL. 2019; 35(9) 967-970. FI: 1.668. Cuartil: 3. (Article).*

- *Fraguas, D; Diaz-Caneja, CM; Pina-Camacho, L; Moreno, C; Duran-Cutilla, M; Ayora, M; Gonzalez-Vioque, E; de Matteis, M; Hendren, RL; Arango, C; Parellada, M. Dietary Interventions for Autism Spectrum Disorder: A Meta-analysis. PEDIATRICS. 2019; 144(5) -. FI: 5.359. Cuartil: 1. (Review).*

- *Salvador-Martiin, S; Garcia-Gonzalez, X; Garcia, MI; Blanco, C; Garcia-Alfonso, P; Robles, L; Gravalos, C; Pachon, V; Longo, F; Martinez, V; Sanjurjo-Saez, M; Lopez-Fernandez, LA. Comments on: "Clinical utility of ABCB1 genotyping for preventing toxicity in treatment with irinotecan". PHARMACOLOGICAL RESEARCH. 2019; 145 -. FI: 5.893. Cuartil: 1. (Letter).*

- *Salvador-Martin, S; Lopez-Cauce, B; Nunez, O; Laserna-Mendieta, EJ; Garcia, MI; Lobato, E; Abarca-Zabalia, J; Sanjurjo-Saez, M; Lucendo, AJ; Marin-Jimenez, I; Menchen, LA; Lopez-Fernandez, LA. Genetic predictors of long-term response and trough levels of infliximab in crohn's disease. PHARMACOLOGICAL RESEARCH. 2019; 149 -. FI: 5.893. Cuartil: 1. (Review).*

- *Gonzalez-Cantero, A; Gonzalez-Cantero, J; Sanchez-Moya, AI; Perez-Hortet, C; Arias-Santiago, S; Schoendorff-Ortega, C; Gonzalez-Calvin, JL. Subclinical atherosclerosis in psoriasis. Usefulness of femoral artery ultrasound for the diagnosis, and analysis of its relationship with insulin resistance. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Londoño MC; Riveiro-Barciela M; Ahumada A; Muñoz-Gómez R; Roget M; Devesa-Medina MJ; Serra MÁ; Navascués CA; Baliellas C; Aldamiz-Echevarría T; Gutiérrez ML; Polo-Lorduy B; Carmona I; Benlloch S; Bonet L; García-Samaniego J; Jiménez-Pérez M; Morán-Sánchez S; Castro Á; Delgado M; Gea-Rodríguez F; Martín-Granizo I; Montes ML; Morano L; Castaño MA; de Los Santos I; Laguno M; Losa JE; Montero-Alonso M; Rivero A; de Álvaro C; Manzanares A; Mallolas J; Barril G; González-Parra E; García-Buey L. Effectiveness, safety/tolerability of OBV/PTV/r ± DSV in patients with HCV genotype 1 or 4 with/without HIV-1 co-infection, chronic kidney disease (CKD) stage IIIb-V and dialysis in Spanish clinical practice - Vie-KinD study. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*

- *Salobrar-Garcia, E; de Hoz, R; Ramirez, AI; Lopez-Cuenca, I; Rojas, P; Vazirani, R; Amarante, C; Yubero, R; Gil, P; Pinazo-Duran, MD; Salazar, JJ; Ramirez, JM. Changes in visual function and retinal structure in the progression of Alzheimer's disease. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

- *Morales-Cano, D; Callejo, M; Barreira, B; Mondejar-Parreno, G; Esquivel-Ruiz, S; Ramos, S; Martin, MA; Cogolludo, A; Moreno, L; Perez-Vizcaino, F. Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Quintana-Villamandos, B; del Pozo, IG; Pazo-Sayos, L; Bellon, JM; Pedraz-Prieto, A; Pinto, AG; Delgado-Baeza, E. Plasma protein thiolation index (PTI) as a potential biomarker for left ventricular hypertrophy in humans. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gomez-Ayerbe, C; Martinez-Sanz, J; Muriel, A; Elias, PP; Moreno, A; Barea, R; Polo, L; Cano, A; Uranga, A; Santos, C; Casado, JL; Quereda, C; Robledillo, G; Diaz-de Santiago, A; Vivancos, MJ; Dronda, F; Navas, E; Moreno, S; Elias, MJP. Impact of a structured HIV testing program in a hospital emergency department and a primary care center. PLOS ONE. 2019; 14(2) -. FI: 2.74. Cuartil: 2. (Article).*

- *Alvarez-Fuente, M; Moreno, L; Lopez-Ortego, P; Arruza, L; Avila-Alvarez, A; Muro, M; Gutierrez, E; Zozaya, C; Sanchez-Helguera, G; Elorza, D; Martinez-Ramas, A; Villar, G; Labrandero, C; Martinez, L; Casado, T; Cuadrado, I; del Cerro, MJ. Exploring clinical, echocardiographic and molecular biomarkers to predict bronchopulmonary dysplasia. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gutierrez, C; Lopez-Abente, J; Perez-Fernandez, V; Prieto-Sanchez, A; Correa-Rocha, R; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

- *Alonso, B; Perez-Granda, MJ; Latorre, MC; Rodriguez, C; Sanchez-Carrillo, C; Munoz, P; Guembe, M. Is heparinized 40% ethanol lock solution efficient for reducing bacterial and fungal biofilms in an in vitro model?. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gonzalez-Rincon, J; Mendez, M; Gomez, S; Garcia, JF; Martin, P; Bellas, C; Pedrosa, L; Rodriguez-Pinilla, SM; Camacho, FI; Quero, C; Perez-Callejo, D; Rueda, A; Llanos, M; Gomez-Codina, J; Piris, MA; Montes-Moreno, S; Barcena, C; Rodriguez-Abreu, D; Menarguez, J; De la Cruz-Merino, L; Monsalvo, S; Parejo, C; Royuela, A; Kwee, I; Cascione, L; Arribas, A; Bertoni, F; Mollejo, M; Provencio, M; Sanchez-Beato, M. Unraveling transformation of follicular lymphoma to diffuse large B-cell lymphoma. PLOS ONE. 2019; 14(1) -. FI: 2.74. Cuartil: 2. (Article).*

- *Francisco-Gonzalez, L; Rubio-San-Simon, A; Gonzalez-Tome, MI; Manzanares, A; Epalza, C; Santos, MD; Gastanaga, T; Merino, P; Ramos-Amador, JT. Congenital transmission of Chagas disease in a non-endemic area, is an early diagnosis possible?. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Arriba, M; Sanchez, C; Vivas, A; Nutu, OA; Rueda, D; Tapial, S; Rodriguez, Y; Brandariz, L; Garcia, JL; Garcia-Olmo, D; Goel, A; Gonzalez-Sarmiento, R; Urioste, M; Perea, J. Intermediate-onset colorectal cancer: A clinical and familial boundary between both early and late-onset colorectal cancer. PLOS ONE. 2019; 14(9) -. FI: 2.74. Cuartil: 2. (Article).*

- *Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodriguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).*

- *Matesanz, CM; de la Gala, F; Rancan, L; Pineiro, P; Simon, C; Tejedor, A; Vara, E; Gonzalez-Cantero, JL; Garutti, I. Predictive value of plasma cytokines for acute kidney injury following lung resection surgery: prospective observational study. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 242-252. FI: 0.867. Cuartil: 4. (Article).*

- *Monje, B; Gimenez-Manzorro, A; Ortega-Navarro, C; Herranz-Alonso, A; Sanjurjo-Saez, M. Trends in hospital consumption of analgesics after the implementation of a pain performance improvement plan. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 259-265. FI: 0.867. Cuartil: 4. (Article).*

- *Macia-Rodriguez C; Reboiro, MLL; Iglesias, DM; Gonzalez-Munera A; Diaz, JM; Martinez, AM; Llaurado, GO; Demelo-Rodriguez P; Munoz Munoz C; Ordonez, FS. Fifth-year internal medicine residents in Spain: A survey on education, assessment of competencies and job perspectives. REVISTA CLINICA ESPANOLA. 2019; 219(8) 433-439. FI: 1.304. Cuartil: 3. (Article).*

- *Boixeda, R; Diez-Manglano, J; Gomez-Antunez, M; Lopez-Garcia, F; Recio, J; Almagro, P. Consensus for managing patients with chronic obstructive pulmonary disease according to the CODEX index. REVISTA CLINICA ESPANOLA. 2019; 219(2) 61-66. FI: 1.304. Cuartil: 3. (Article).*

- *Bernabeu-Wittel, M; Diez-Manglano, J; Nieto-Martin, D; Ramirez-Duque, N; Ollero-Baturone, M; Abella-Vazquez, L; Aguayo-Canela, M; Albert-Coll, M; Aleman, A; Aligue, J; Gil-Ortega, JB; Baron-Franco, B; Bernabeu-Wittel, M; de la Calle-Cabrera, C; Cassani-Garza, M; Castillo-Blasco, M; Diez, F; Diez-Manglano, J; Escalera-Zalvide, A; Feliu-Mazaria, L; Fernandez-Miera, MF; Fernandez-Moyano, A; Formiga, F; Forteza-Rey, J; Fuertes-Martin, A; Galindo-Ocana, J; Giner, P; Godoy, M; Gomez-Lesmes, S; Llorente-Cancho, H; Luque-Amado, C; Machin-Lazaro, JM; Maiz-Jimenez, M; Martinez, F; Martinez, T; Martos, F; Massa, B; Medina, J; Medrano-Gonzalez, F; Perez-Barquero, MM; Mora-Rufete, A; Morales, C; Moreno-Gavino, L; Muela-Molinero, A; Murcia-Zaragoza, J; Nieto-Martin, MD; Valeiro, IN; Ollero-Baturone, M; Pinilla, B; Ramirez-Duque, N; Ramos-Cantos, C; Rincon-Gomez, M; Rodriguez-Benedito, ML; Rodriguez-Martinez, V; Romero-Jimenez, M; Ruiz, S; Ruiz-Cantero, A; Sacanella, E; Sanchez-Ledesma, M; Sanjose-Laporte, A; Sanroman, C; Soria-Lopez, MA; Tejera-Concepcion, A; Tenllado-Doblas, P; Ternavasio, G; Villegas-Bruguera, E; Investigadores Proyecto PROFUND. Simplification of the Barthel scale for screening for frailty and severe dependency in polypathological patients. REVISTA CLINICA ESPANOLA. 2019; 219(2) 67-72. FI: 1.304. Cuartil: 3. (Article).*

- *Moreno Diaz J; Aranda Sanchez M; Gonzalez Munera A; Demelo Rodriguez P; Martin Iglesias D; Macia Rodiguez C; Munoz Munoz C; Ortiz Llaurado G; Lorenzo Lopez Reboiro M; Salgado Ordonez F. Getting to know internal medicine mentors: new training requirements. REVISTA CLINICA ESPANOLA. 2019; 219(9) 494-504. FI: 1.304. Cuartil: 3. (Article).*

- *Mateo-Sierra, O; Alcala-Torres, J; Serret-De Troya, C; Valera-Mele, M; Sola-Vendrell, E. Analysis of the clinical impact of the diagnostic reclassification of brain gliomas according to the World Health Organization classification (2016). REVISTA DE NEUROLOGIA. 2019; 69(3) 99-108. FI: 0.562. Cuartil: 4. (Article).*

- *Lopez-Bustos-de-las-Heras, R; Cano-de-la-Cuerda, R; de-la-Llave-Rincon, AI; Guerrero-Blazquez, A; Plaza-Manzano, G; Martin-Casas, P. Translation and transcultural adaptation of the Toe Walking Tool: screening tool of toe walking patients. REVISTA DE NEUROLOGIA. 2019; 69(10) 402-408. FI: 0.562. Cuartil: 4. (Article).*

- *Nieto-Marin, P; Jimenez-Jaimez, J; Tinaquero, D; Alfayate, S; Utrilla, RG; del Rey, MDRV; Perin, F; Sarquella-Brugada, G; Monserrat, L; Brugada, J; Tercedor, L; Tamargo, J; Delpon, E; Caballero, R. Digenic Heterozigosity in SCN5A and CACNA1C Explains the Variable Expressivity of the Long QT Phenotype in a Spanish Family. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(4) 324-332. FI: 4.642. Cuartil: 1. (Article).*

- *Perez-Castellanos, A; Martinez-Selles, M; de la Villa, BG; Nunez-Gil, IJ. Factors Impacting Prognosis Among Patients with Tako-tsubo Syndrome. Response. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(8) 694-695. FI: 4.642. Cuartil: 1. (Letter).*

- *Jimenez, CR; Hernani, MDT; Sanchez, CS. Endoscopic balloon dilation in duodenal stenosis secondary to intestinal lymphoma in a heart transplant patient. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 890-. FI: 1.591. Cuartil: 4. (Letter).*

- *Sanchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marin-Jimenez, I; Menchen, L; Fernandez, PG; Sanchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernandez, F; Gonzalez, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jimenez, S; Juste, M; La Orden, E; Lopez, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menendez, C; Montraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Perez-Moneo, B; Pociello, N; Rivero, MC; Rodriguez, A; Martinez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gomez, T; Vazquez, R; Vecino, R; Alvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benitez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernandez, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Perez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramirez, JJ; Ramos, L; Gloria, ERG; Gutierrez, CR; Rodriguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(7) 550-555. FI: 1.591. Cuartil: 4. (Article).*

- *Conthe, A; Nogales, O; Martinez-Flores, C; Garcia-Lledo, J; Rayon, L; Perez-Carazo, L; Garcia-Mulas, S; Lopez-Ibanez, M; Aranda-Hernandez, J; Merino, B. Usefulness of fully covered self-expandable biliary metal stents for the treatment of post-sphyncterotomy ERCP bleeding. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).*

- *Jimenez-Galan, G; Alia-Alia, C; Vegue-Gonzalez, M; Garcia-Berriguete, RM; Fernandez-Gonzalez, F; Fernandez-Rodriguez, C; Gonzalez-Fernandez, M; Gutierrez, ML; Losa, JE; Velasco, M; Moreno, L; Hervas, R; Delgado-Iribarren, A; Garcia-Cervigon, GP. The contribution of telemedicine to hepatitis C elimination in a correctional facility. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(12) 931-934. FI: 1.591. Cuartil: 4. (Article).*

- *Carrion-Martin, L; Rincon, JO; Rotger, A; Gonzalez-Leyte, M; Perez, LM; Echenagusia, M; Matilla, A. Radioembolization in liver tumours. REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR. 2019; 38(6) 370-381. FI: 1.09. Cuartil: 4. (Article).*

- *Herrejon, EP; del Castillo, JG; Rueda, FR; Gonzalez, FJC; Artola, BS; Teleki, AV; Vidal, FG; Iglesias, PR; Redondo, GB; Serrano, DAR; Reinoso, FJC; Torres, EC; de Gracia, MM; Alvarey, AR; Elizalde, JMA; Martin, MJA; Lopez, JB; Guillen, CB; Florez, IC; Martinez, CME; Maldonado, CG; Jimenez, DJ; Abancens, BJ; Ramos, EML; Vadillo, PL; Sagasti, FM; Garrido, EM; Lobo, RM; Feijoo, AMM; de la Parra, MN; Orantos, MJN; Alonso, AP; Perez, IR; Alvarez, AR; Grinspan, MR; Bejar, CS; Gonzalez, MS; Heranz, RS; Lopez, EV; Vicente, AT; Grp Multidisciplinar Codigo Sepsis. Consensus document for sepsis code implementation and development in the Community of Madrid. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2019; 32(4) 400-409. FI: 1.132. Cuartil: 4. (Article).*

- *Munoz, ABJ; Mondejar, BM; Miguez, AM; Ayuso, DR; Ladera, GMS; Alvarez, JJC. Errors of prescription, transcription and administration according to pharmacological group at hospital. REVISTA ESPANOLA DE SALUD PUBLICA. 2019; 93 -. FI: 0.746. Cuartil: 4. (Article).*

- *Roldan, SG. Monuments to Cajal in Madrid, Spain: Rejection of public tributes. REVUE NEUROLOGIQUE. 2019; 175(1-2) 2-10. FI: 1.911. Cuartil: 3. (Review).*

- *Naredo, E; Janta, I; Baniandres-Rodriguez, O; Valor, L; Hinojosa, M; Bello, N; Serrano, B; Garrido, J. To what extend is nail ultrasound discriminative between psoriasis, psoriatic arthritis and healthy subjects?. RHEUMATOLOGY INTERNATIONAL. 2019; 39(4) 697-705. FI: 1.984. Cuartil: 3. (Article).*

- *Hellings, PW; Seys, SF; Marien, G; Agache, I; Canonica, W; Gevaert, P; Haahtela, T; Klimek, L; Mullol, J; Pfaar, O; Scadding, G; Scadding, G; Valiulis, A; Bousquet, J; Pugin, B; Al-Muhandis, N; Allatt, S; Almeyda, R; Armand, P; Markovic, MA; Bajoriuniene, I; Banik, AN; Barbar-Craig, H; Barraclough, J; Bedfert, C; Bedrock, A; Beel, M; Parra, DB; Bradatan, E; Bras, M; Brehmer, D; Brinkman, D; Suarez, MC; Llatas, MC; Chipev, P; Cooper, A; Corbett, D; Cox, C; Cox, T; Decsi, M; Dantsis, C; Davies, D; de la Hoz, B; Culla, MTD; Dworan-Timler, A; Edlinger, S; El Rakhawy, M; El-Shanawany, T; Halawa, WE; Fauquert, JL; Folliard, A; Frankland, K; Gardner, J; Gaskin, J; Guiddur, T; Hanks, KA; Hanna, B; Heinz, B; Hettige, R; Horisberger, A; Hosotte, M; Howe, D; Hox, V; Ifeacho, S; Jain, A; Jaramillo, M; Morales, JMJ; Kale, S; Kamper, Y; Kansal, G; Kapustova, L; Karamchandani, D; Keh, S; Kerr, U; Khan, M; Kosnik, M; Kolar, M; Koos, B; Kostov, K; Kraxner, H; Kvedariene, V; Lawton, S; Lefevre, S; Lentari, E; Lindenberger, M; Litschel, R; Lozar, M; Lomikovska, M; Luckhardt, C; Lukits, J; Marchuk, O; Marlair, C; Martens, K; Mateo, JM; Mc Donald, S; Guardiola, MIM; Mohammad, M; Cosme, JM; Morgans, M; Morris, A; Mustakov, T; Nadeem, S; Nagy, A; Nemecek, R; Nemeth, B; Neukirch, C; Odeh, I; Patiar, S; Pavic, M; Peglion, A; Pentland, J; de Corgnol, ACP; Petrovicova, O; Piccininni, K; Piont, V; Popov, T; Popovics, E; Portejoie, F; Quirce, S; Ram, B; Ramonaite, A; Juratli, AR; Rico, P; Ritterhoff, C; Robertson, A; Fernandes, RR; Runge, S; Ryan, D; Gutierrez, RS; Schatteman, I; Scheire, S; Schuhmacher-Koval, A; Pliego, ES; Shukla, R; Siau, D; Siemers, M; Sitkauskiene, B; Slomskis, T; Kosak, TS; Speleman, K; Spindler, T; Straetmans, J; Striupaitiene, D; Sunk, W; Tadikonda, R; Tariq, M; Terporten, B; Toma, S; Tor, M; Tsirevelou, P; Urban, M; Urbancic, J; van der Putten, L; Vasiliu, VC; Vesilyk, N; Vink, AS; Vriess-Uss, E; Vu, K; Yaremchuk, S; Yong, P; Zahoor, T; Zidarn, M; ARIA Masterclass Discussants. ARIA masterclass 2018: From guidelines to real-life implementation. RHINOLOGY. 2019; 57(5) 392-399. FI: 3.019. Cuartil: 1. (Article).*

- *Fernandez-Simon, E; Carrasco-Rozas, A; Gallardo, E; Figueroa-Bonaparte, S; Belmonte, I; Pedrosa, I; Montiel, E; Suarez-Calvet, X; Alonso-Perez, J; Segovia, S; Nunez-Peralta, C; Llauger, J; Mayos, M; Illa, I; Diaz-Manera, J; Barba-Romero, MA; Barcena, J; Carzorla, MR; Creus, C; Coll-Canti, J; de Luna, N; Diaz, M; Dominguez, C; Fernandez-Torron, R; Garcia-Antelo, MJ; Grau, JM; Gomez-Caravaca, MT; Leon-Hernandez, JC; de Munain, AL; Martinez-Garcia, FA; Morgado, Y; Moreno, A; Moris, G; Munoz-Blanco, MA; Nascimento, A; Paradas, C; Parajua-Pozo, JL; Querol, L; Robledo-Strauss, A; Rojas-Garcia, R; Rojas-Marcos, I; Salazar, JA; Uson, M; Spanish Pompe Study Grp. PDGF-BB serum levels are decreased in adult onset Pompe patients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Ramos-Vivas, J; Chapartegui-Gonzalez, I; Fernandez-Martinez, M; Gonzalez-Rico, C; Fortun, J; Escudero, R; Marco, F; Linares, L; Montejo, M; Aranzamendi, M; Munoz, P; Valerio, M; Aguado, JM; Resino, E; Ahufinger, IG; Vega, AP; Martinez, L; Farinas, MC; San Millan, JCR; Rodrigo, E; Morencos, FC; Fabrega, E; Cuadrado, A; Farinas-Alvarez, C; Gozalo, M; Revillas, FA; Davila, PM; Martinez, A; Garbajosa, PR; Moreno, A; Bodro, M; Solano, MF; Blanco, MJ; Nieto, J; Machado, M; Olmedo, M; Fernandez, SR; Sanz, CR; Rangel, TV; Bento, CA; Recalde, AG; Eworo, A; Fernandez-Lomana, FA; Rodriguez-Ferrero, ML; Camara, LAS; Chaves, F; Cisneros, JD; ENTHERE Study Grp; Spanish Soc Infect Dis Clin Microb; Spanish Network Res Infect Dis REI. Biofilm formation by multidrug resistant Enterobacteriaceae strains isolated from solid organ transplant recipients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Sastre-Ibanez, M; Cabarga, C; Canut, MI; Perez-Bartolome, F; Urcelay-Segura, JL; Cordero-Ros, R; Garcia-Feijoo, J; Martinez-de-la-Casa, JM. Efficacy of Ologen matrix implant in Ahmed Glaucoma Valve Implantation. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Canorea, I; Guardiola, JM; Crespo, M; Quereda, C; Sanz, J; Carrero, A; Hontanon, V; Avellon, A; Resino, S. Prevalence of hepatitis E infection in HIV/HCV-coinfected patients in Spain (2012-2014). SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Garcia-Mato, D; Ochandiano, S; Garcia-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; Garcia-Leal, R; Calvo-Haro, JA; Perez-Mananes, R; Salmeron, JI; Pascau, J. Craniosynostosis surgery: workflow based on virtual surgical planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Tapial, S; Olmedillas-Lopez, S; Rueda, D; Arriba, M; Garcia, JL; Vivas, A; Perez, J; Pena-Couso, L; Olivera, R; Rodriguez, Y; Garcia-Arranz, M; Garcia-Olmo, D; Gonzalez-Sarmiento, R; Urioste, M; Goel, A; Perea, J. Cimp-Positive Status is More Representative in Multiple Colorectal Cancers than in Unique Primary Colorectal Cancers. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Macchione, MA; Guerrero-Beltran, C; Rosso, AP; Euti, EM; Martinelli, M; Strumia, MC; Munoz-Fernandez, MA. Poly(N-vinylcaprolactam) Nanogels with Antiviral Behavior against HIV-1 Infection. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Xiol, C; Vidal, S; Pascual-Alonso, A; Blasco, L; Brandi, N; Pacheco, P; Gerotina, E; O'Callaghan, M; Pineda, M; Armstrong, J; Aguirre, FJ; Aleu, M; Alonso, X; Alsius, M; Amoros, M; Antinolo, G; Aquino, L; Arellano, C; Arriola, G; Arteaga, R; Baena, N; Barcos, M; Belzunces, N; Boronat, S; Camacho, T; Campistol, J; del Campo, M; Campo, A; Cancho, R; Candau, R; Canos, I; Carrascosa, MD; Carratala-Marco, F; Casano, J; Castro, P; Cobo, A; Colomer, J; Conejo, D; Corrales, MJ; Cortes, R; Cruz, G; Csanyi, G; de Santos, MT; de Toledo, M; Del Campo, M; Del Toro, M; Domingo, R; Duat, A; Duque, R; Esparza, AM; Fernandez, R; Fons, MC; Fontalba, A; Galan, E; Gallano, P; Gamundi, MJ; Garcia, PL; Garcia, MD; Garcia-Barcina, M; Garcia-Catalan, MJ; Garcia-Cazorla, A; Garcia-Minaur, S; Garcia-Penas, JJ; Garcia-Silva, MT; Gassio, R; Gean, E; Gil, B; Gokben, S; Gonzalez, L; Gonzalez, V; Gonzalez, J; Gonzalez, G; Guillen, E; Guitart, M; Guitet, M; Gutierrez, JM; Gutierrez, E; Herranz, JL; Iglesias, G; Karacic, I; Lahoz, CH; Lao, JI; Lapunzina, P; Lautre-Ecenarro, MJ; Lluch, MD; Lopez, L; Lopez-Ariztegui, A; Macaya, A; Marin, R; Marquez, CML; Martin, E; Martinez, B; Martinez-Salcedo, E; Mas, MJ; Mateo, G; Mendez, P; Jimenez, AM; Moreno, S; Mulas, F; Narbona, J; Nascimento, A; Nieto, M; Nunes, TF; Nunez, N; Obon, M; Onsurbe, I; Ortez, CI; Orts, E; Martinez, F; Parrilla, R; Pascual, SI; Patino, A; Perez-Poyato, M; Perez-Duenas, B; Poo, P; Puche, E; Ramos, F; Raspall, M; Roche, A; Roldan, S; Rosell, J; Ruiz, C; Ruiz-Falco, ML; Russi, ME; Samarra, J; San Antonio, V; Sanchez, I; Sanmartin, X; Sans, A; Santacana, A; Scholl-Burgi, S; Serrano, N; Serrano, M; Martin-Tamayo, P; Tendero, A; Torrents, J; Tortosa, D; Trivino, E; Troncoso, L; Turon, E; Vazquez, P; Vazquez, C; Velazquez, R; Ventura, C; Verdu, A; Vernet, A; Vila, MT; Villar, C; Rett Working Grp. X chromosome inactivation does not necessarily determine the severity of the phenotype in Rett syndrome patients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Toribio, MJ; Lope, V; Castello, A; Salas, D; Vidal, C; Ascunce, N; Santamarina, C; Moreo, P; Pedraz-Pingarron, C; Sanchez-Contador, C; Aragones, N; Perez-Gomez, B; Pollan, M. Prevalence of healthy lifestyles against cancer in Spanish women. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Batlle, J; Perez-Rodriguez, A; Corrales, I; Borras, N; Pinto, JC; Lopez-Fernandez, MF; Vidal, F; Cid, AR; Bonanad, S; Parra, R; Mingot-Castellano, ME; Navarro, N; Altisent, C; Perez-Montes, R; Marcellini, S; Moreto, A; Herrero, S; Soto, I; Bernardo-Gutierrez, A; Mosteirin, NF; Jimenez-Yuste, V; Alonso, N; Jacob, AD; Fontanes, E; Campos, R; Paloma, MJ; Bermejo, N; Berrueco, R; Mateo, J; Arribalzaga, K; Marco, P; Palomo, A; Quismondo, NC; Inigo, B; Nieto, MD; Vidal, R; Martinez, MP; Aguinaco, R; Tenorio, M; Ferreiro, M; Garcia-Frade, J; Rodriguez-Huerta, AM; Cuesta, J; Rodriguez-Gonzalez, R; Garcia-Candel, F; Dobon, M; Aguilar, C; Bastida, JM; Nunez, R; Aguirre, MA; Rodriguez-Luaces, M; Gordillo, M; de Cos, C; Torres, L; Batlle, F; PCM-EVW-ES Investigators Team. Update on Molecular Testing in von Willebrand Disease. SEMINARS IN THROMBOSIS AND HEMOSTASIS. 2019; 45(7) 708-719. FI: 2.892. Cuartil: 2. (Review).*

- *Krishnappa, P; Fernandez-Pascual, E; Carballido, J; Moncada, I; Lledo-Garcia, E; Martinez-Salamanca, JI. Surgical Management of Peyronie's Disease With Co-Existent Erectile Dysfunction. SEXUAL MEDICINE. 2019; 7(4) 361-370. FI: 1.923. Cuartil: 2. (Review).*

- *Rodriguez-Traver, E; Rodriguez, C; Diaz-Guerra, E; Arenas, F; Arauzo-Bravo, M; Orera, M; Kulisevsky, J; Moratalla, R; Vicario, C. Generation of an integration-free iPSC line, ICCSICi005-A, derived from a Parkinson's disease patient carrying the L444P mutation in the GBA1 gene. STEM CELL RESEARCH. 2019; 40 -. FI: 4.489. Cuartil: 1. (Editorial Material).*

- *Diaz-Guerra, E; Oria-Muriel, MA; Moreno-Jimenez, EP; de Rojas, I; Rodriguez, C; Rodriguez-Traver, E; Orera, M; Hernandez, I; Ruiz, A; Vicario, C. Generation of an integration-free iPSC line, ICCSICi006-A, derived from a male Alzheimer's disease patient carrying the PSEN1-G206D mutation. STEM CELL RESEARCH. 2019; 39 -. FI: 4.489. Cuartil: 1. (Article).*

- *Diaz-Guerra, E; Moreno-Jimenez, EP; de Rojas, I; Rodriguez, C; Rodriguez-Traver, E; Arribas-Gonzalez, E; Orera, M; Hernandez, I; Ruiz, A; Vicario, C. A collection of four integration-free iPSC lines derived from diagnosed sporadic Alzheimer's disease patients with different APOE alleles. STEM CELL RESEARCH. 2019; 40 -. FI: 4.489. Cuartil: 1. (Editorial Material).*

- *Rodriguez-Traver, E; Diaz-Guerra, E; Rodriguez, C; Fernandez, P; Arenas, F; Arauzo-Bravo, M; Orera, M; Kulisevsky, J; Moratalla, R; Vicario, C. A collection of integration-free iPSCs derived from Parkinson's disease patients carrying mutations in the GBA1 gene. STEM CELL RESEARCH. 2019; 38 -. FI: 4.489. Cuartil: 1. (Editorial Material).*

- *Diaz-Guerra, E; Rodriguez-Traver, E; Moreno-Jimenez, EP; de Rojas, I; Rodriguez, C; Orera, M; Hernandez, I; Ruiz, A; Vicario, C. An integration-free iPSC line, ICCSICi007-A, derived from a female Alzheimer's disease patient with the APOE-epsilon 4/epsilon 4 alleles. STEM CELL RESEARCH. 2019; 41 -. FI: 4.489. Cuartil: 1. (Editorial Material).*

- *Duque, P; Garutti, I; Terradillos, E; Ledesma, B; Rancan, L; Simon, C; Vara, E. Modulation of CCL2 Expression by Laparoscopic Versus Open Surgery for Colorectal Cancer Surgery. SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES. 2019; 29(2) 101-108. FI: 1.382. Cuartil: 3. (Article).*

- *Font, A; Luque, R; Villa, JC; Domenech, M; Vazquez, S; Gallardo, E; Virizuela, JA; Beato, C; Morales-Barrera, R; Gelabert, A; Macia, S; Puente, J; Rubio, G; Maldonado, X; Perez-Valderrama, B; Pinto, A; Calvo, OF; Grande, E; Garde-Noguera, J; Fernandez-Parra, E; Arranz, JA. The Challenge of Managing Bladder Cancer and Upper Tract Urothelial Carcinoma: A Review with Treatment Recommendations from the Spanish Oncology Genitourinary Group (SOGUG). TARGETED ONCOLOGY. 2019; 14(1) 15-32. FI: 4.036. Cuartil: 2. (Review).*

- *Miranda-Bautista, J; Verdejo, C; Diaz-Redondo, A; Breton, I; Bellon, JM; Perez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; Gonzalez-Rio, E; Garcia-Sanchez, C; Marin-Jimenez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

- *Banares, R; Ibanez-Samaniege, L; Torner, JM; Pavesi, M; Olmedo, C; Catalina, MV; Albillos, A; Larsen, FS; Nevens, F; Hassanein, T; Schmidt, H; Heeman, U; Jalan, R; Moreau, R; Arroyo, V. Meta-analysis of individual patient data of albumin dialysis in acute-on-chronic liver failure: focus on treatment intensity. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).*

- *Herrero, R; Prados, L; Ferruelo, A; Puig, F; Pandolfi, R; Guillamat-Prats, R; Moreno, L; Matute-Bello, G; Artigas, A; Esteban, A; Lorente, JA. Fas activation alters tight junction proteins in acute lung injury. THORAX. 2019; 74(1) 69-82. FI: 8.834. Cuartil: 1. (Article).*

- *Limeres, J; Lip, GYH; del Blanco, BG; Ferreira-Gonzalez, I; Mutuberria, M; Alfonso, F; Bueno, H; Cequier, A; Prendergast, B; Zueco, J; Rodriguez-Leor, O; Barrabes, JA; Garcia-Dorado, D; Sambola, A. Safety of drug-eluting stents compared to bare metal stents in patients with an indication for long-term oral anticoagulation: A propensity score matched analysis. THROMBOSIS RESEARCH. 2019; 177 180-186. FI: 2.869. Cuartil: 2. (Article).*

- *Fernandez-Ruiz, M; Cardozo, C; Salavert, M; Aguilar-Guisado, M; Escola-Verge, L; Munoz, P; Gioia, F; Montejo, M; Merino, P; Cuervo, G; Garcia-Vidal, C; Aguado, JM; Padilla, B; Pano-Pardo, JR; Garcia-Rodriguez, J; Cerrada, CG; Ryan, P; Campelo, C; Gil, ID; Buendia, V; Gorricho, BP; Alonso, M; Sanz, FS; Romo, FG; Gorgolas, M; Gadea, I; Losa, JE; Delgado-Iribarren, A; Ramos, A; Romero, Y; Romero, IS; Zaragoza, O; Cuenca-Estrella, M; Rodriguez-Bano, J; Suarez, AI; Loza, A; Garcia, AIA; Martin-Mazuelos, E; de Pipaon, MRP; Garnacho, J; Ortiz, C; Chavez, M; Maroto, FL; Peman, J; Blanquer, J; Camarena, JJ; Zaragoza, R; Abril, V; Gimeno, C; Hernandez, S; Ezpeleta, G; Bereciartua, E; Almaraz, JLH; Rivas, RA; Ayarza, R; Planes, AM; Ruiz-Camps, I; Mensa, J; Almela, M; Gurgui, M; Sanchez-Reus, F; Martinez-Montauti, J; Sierra, M; Horcajada, JP; Sorli, L; Gomez, J; Gene, A; Urrea, M; Diaz-Martin, A; Puchades, F; Mularoni, A; Puerta-Alcalde, P; Morata, L; Rodriguez-Nunez, O; Guerrero, MA; Carratala, J; Sabe, N; Ayats, J; Grau, I; Calabuig, E; Castro, I; Cuellar, S; Fortun, J; Martin-Davila, P; de la Pedrosa, EGG; Perez-Ayala, A; Losada, I; Navarro, D; Suarez, MI; Martin-Gomez, MT; Almirante, B; Rodriguez-Alvarez, R; Lopez-Soira, L; Vena, A; Valerio, M; Bouza, E; Guinea, J; Martin, C; CANDIPOP Project; CANDI Bundle Grp; GEIRAS GEMICOMED SEIMC REIPI. Candidemia in solid organ transplant recipients in Spain: Epidemiological trends and determinants of outcome. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(6) -. FI: 2.071. Cuartil: 3. (Article).*

- *Agnelli C; Valerio M; Olmedo M; Guinea J; Zatarain-Nicolás E; Del Carmen Martínez-Jiménez M; Alcalá L; Escribano P; Cebollero Presmanes M; Bouza E; Muñoz P; Martín-Rabadán P. Fatal disseminated infection by Gymnascella hyalinospora in a heart transplant recipient. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(5) -. FI: 2.071. Cuartil: 3. (Article).*

- *Lozano, P; Orue-Echebarria, MI; Asencio, JM; Sharma, H; Lisbona, CJ; Olmedilla, L; Pena, JMP; Salcedo, MM; Skaro, A; Velasco, E; Colon, A; Diaz-Zorita, B; Rodriguez, L; Ferreiroa, J; Lopez-Baena, JA. Donor Risk Index Has an Impact in Intraoperative Measure of Hepatic Artery Flow and in Clearance of Indocyanine Green: An Observational Cohort Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(1) 50-55. FI: 0.784. Cuartil: 4. (Article).*

- *Gonzalez-Vilchez, F; Delgado, JF; Palomo, J; Mirabet, S; Diaz-Molina, B; Almenar, L; Arizon, JM; Rangel-Sousa, D; Perez-Villa, F; Garrido, IP; de la Fuente, L; Gomez-Bueno, M; Sanz, ML; Crespo-Leiro, MG. Conversion From Immediate-Release Tacrolimus to Prolonged-Release Tacrolimus in Stable Heart Transplant Patients: A Retrospective Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(6) 1994-2001. FI: 0.784. Cuartil: 4. (Article).*

- *De la Gala, F; Pineiro, P; Reyes, A; Simon, C; Vara, E; Rancan, L; Huerta, LJ; Gonzalez, G; Benito, C; Munoz, M; Grande, P; Paredes, SD; Aznar, PT; Perez, A; Martinez, D; Higuero, F; Sanz, D; De Miguel, JP; Cruz, P; Olmedilla, L; Gil, EL; Duque, P; Sanchez-Pedrosa, G; Valle, M; Garutti, I. Effect of intraoperative paravertebral or intravenous lidocaine versus control during lung resection surgery on postoperative complications: A randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).*

- *Fernandez, R; Urbano, J; Carrillo, A; Vivanco, A; Solana, MJ; Rey, C; Lopez-Herce, J. Comparison of the effect of three different protein content enteral diets on serum levels of proteins, nitrogen balance, and energy expenditure in critically ill infants: study protocol for a randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Pascual, PM; Merino, PA. Otolithic damage study in patients with benign paroxysmal positional vertigo with vestibular evoked myogenic potentials. ACTA OTORRINOLARINGOLOGICA ESPANOLA. 2019; 70(3) 131-135. (Article).*

- *Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Aviles-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).*
- *Munoz, SG; Montero, EC; Dobao, PD. Herpes Zoster Duplex and Multiplex: The Exception That Confirms the Rule. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(8) 690-693. (Letter).*
- *Rodriguez-Lomba, E; Lozano-Masdemont, B; Aviles-Izquierdo, JA. Slow-Growing Salmon-Pink Nodule on the Buttock. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(9) 763-764. (Editorial Material).*
- *Grossi, MSM; Strub, MAA; Torres, TD; Pajares, RG; Ramos, JML. Common femoral artery injury following total hip replacement. ANGIOLOGIA. 2019; 71(4) 164-166. (Article).*
- *Kwon, M; Bailen, R; Pascual-Cascon, MJ; Gallardo-Morillo, AI; Sola, AG; Balsalobre, P; Solan, L; Dorado, N; Munoz, C; Serrano, D; Martinez-Laperche, C; Buno, I; Anguita, J; Diez-Martin, JL; Grp Espanol Trasplante Hematopoye. Posttransplant cyclophosphamide vs cyclosporin A and methotrexate as GVHD prophylaxis in matched sibling transplantation. BLOOD ADVANCES. 2019; 3(21) 3351-3359. (Article).*
- *Lucia, OO; Pablo, DR; Sandra, PR; Jorge, D. Recurrent bilateral deep vein thrombosis after cava vein resection in a patient with leiomyosarcoma. BLOOD RESEARCH. 2019; 54(1) 1-1. (Editorial Material).*
- *Aparicio, MV; Seidel, V; Clemente, MAO; Caballero, SM; Luna, MS. Mosaic trisomy 15 and prenatal genetic counselling: a case of Prader-Willi syndrome due to maternal uniparental disomy. CASE REPORTS IN PERINATAL MEDICINE. 2019; 8(1) -. (Article).*
- *Colon, AL; Rodriguez-Bachiller, L; Velasco, E; Diaz-Zorita, B; Rincon, D; Lopez-Baena, JA; Ferreiroa, J. Sengstaken Tube Removal under Direct Hemodynamic Monitoring after Post Transplantation Venous Occlusion. CASE REPORTS IN SURGERY. 2019; 2019 -. (Article).*
- *Gil-Jaurena, JM; Perez-Caballero, R; Pita, A; Gonzalez-Lopez, MT; Pardo, C; Zamorano, JA; Ramirez, B; Perez, R; Gonzalez-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26(6) 248-264. (Article).*
- *Pita-Fernandez, A; Gil-Jaurena, JM; Perez-Caballero-Martinez, R; Pardo-Pardo, C; Gonzalez-Lopez, MT; Rodriguez-Abella-Gonzalez, H; Irabien-Ortiz, A; Perez-Perez, R; Ramirez-Gomez, B; Zamorano-Serrano, J; Gonzalez-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26(3) 169-171. (Article).*
- *Pedraz-Prieto, A; Monzon-Diaz, D; Gonzalez, RHRA; Las, CJ; Hortal-Iglesias, J; Gonzalez-Pinto, AT. Ventricular fibrillation in early postoperative period after David procedure due to surgical ligation of the conal artery. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).*
- *Cuerpo, G; Carnero, M; Sos, FH; Lopez, LP; Hernandez, TC; Gascon, P; Pedraz, A; Cuenca, J; Silvaj, J; Menendezi, JL; Soc Espanola Cirugia Toracica Card. Cardiovascular surgery in Spain performed in 2018. National registry of interventions of the Spanish Society of Thoracic-Cardiovascular Surgery. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).*
- *Vasquez, J; Romero, V; Vilas, P; Serra-Rexach, JA; Vidan, MT. Progressive edemas and generalized telangiectasia: A presentation of Intravascular B-cell Lymphoma. CLINICAL CASE REPORTS. 2019; 7(12) 2429-2432. (Article).*
- *Olmedilla, Y; Khan, S; Young, V; Joseph, R; Cudlip, S; Ansgorge, O; Grossman, A; Pal, A. Plurihormonal Pit-1 lineage adenoma presenting as meningitis with recurrence after somatostatin analogue. ENDOCRINOLOGY DIABETES AND METABOLISM CASE REPORTS. 2019; -. (Article).*
- *Fernandez, LVS; Gonzalez, PA; Vela, RN; Martin, EH. The Influenza pandemics of 1918-1919 in Asturian territory: Analysis of a 100-year process going from historical suffering to emerging disease. ERIA-REVISTA CUATRIMESTRAL DE GEOGRAFIA. 2019; 39(1) 79-97. (Article).*
- *Fernandez-Bautista, B; Mata, DP; Parente, A; Perez-Caballero, R; De Agustin, JC. First Experience with Fluorescence in Pediatric Laparoscopy. EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS. 2019; 7(1) -. (Article).*
- *Rancan, L; Paredes, SD; Garcia, C; Asencio, JM; Garutti, I; Huerta, L; Maranon, G; Simon, C; Zueco, JA; Vara, E. A SURVEY STUDY EXPLORING OPINIONS OF SECOND-YEAR MEDICAL STUDENTS ON THEIR PARTICIPATION IN A FORMAL DEBATE WITH FLIPPED CLASSROOM ACTIVITY. INTED PROCEEDINGS. 2019; 7809-7812. (Proceedings Paper).*
- *Serena, G; Gonzalez, J; Garcia, LE; Guerra, G; Morsi, M; Ciancio, G. Hand-assisted laparoscopic nephrectomy in a high risk overweight donor with left-sided IVC, and previous abdominal surgery. INTERNATIONAL JOURNAL OF SURGERY CASE REPORTS. 2019; 64 20-23. (Article).*
- *Perez-Sanz, MT; Cervilla-Munoz, E; Alonso-Munoz, J; Marcelo-Ayala, A; Pulfer, MD; Galeano-Valle, F. Retroperitoneal fibrosis associated with orbital pseudotumor without evidence of IgG4: A case report with review of literature. INTRACTABLE & RARE DISEASES RESEARCH. 2019; 8(1) 29-35. (Review).*
- *Oblitas, CMA; Galeano-Valle, F; Toledo-Samaniego, N; Pinilla-Llorente, B; Del Toro-Cervera, J; Alvarez-Luque, A; Garcia-Garcia, A; Demelo-Rodriguez, P. Budd-Chiari Syndrome in Behcet's Disease successfully managed with immunosuppressive and anticoagulant therapy: A case report and literature review. INTRACTABLE & RARE DISEASES RESEARCH. 2019; 8(1) 60-66. (Review).*

- *Moreno, F; Gayarre, J; Lopez-Tarruella, S; del Monte-Millan, M; Picornell, AC; Alvarez, E; Garcia-Saenz, JA; Jerez, Y; Marquez-Rodas, I; Echavarria, I; Palomero, M; Bueno, C; Bodi, AMA; Munoz, MS; del Val, RG; Bueno, O; Cebollero-Presmanes, M; Ocana, I; Arias, A; Romero, P; Massarrah, T; Ramos-Medina, R; Martin, M. Concordance of Genomic Variants in Matched Primary Breast Cancer, Metastatic Tumor, and Circulating Tumor DNA: The MIRROR Study. JCO PRECISION ONCOLOGY. 2019; 3 -. (Article).*
- *Merino, P; Gutierrez, C; De Liano, PG; Srur, M. Long term outcomes of strabismus surgery for third nerve palsy. JOURNAL OF OPTOMETRY. 2019; 12(3) 186-191. (Article).*
- *Garcia, LE; Gonzalez, J; Serena, G; Ciancio, G. Arterial reconstruction with donor iliac vessels during kidney transplantation in a patient with severe atherosclerosis. JOURNAL OF VASCULAR SURGERY CASES AND INNOVATIVE TECHNIQUES. 2019; 5(4) 443-446. (Article).*
- *Sanchez, LG; Flores, MF; Cirujano, ML; Castano, V; Rincon, M. Nutritional intervention in patients with heart failure. 3 month results of a clinical trial. NUTRICION CLINICA Y DIETETICA HOSPITALARIA. 2019; 39(1) 22-31. (Article).*
- *Rodriguez, CM; Martin, TA; Zapata, AL; Martin, YR; Alegre, MLS; Carrasco, JD. Evolution and trends in a pediatric cardiac magnetic resonance imaging program in a tertiary hospital over a 14-year period. RADIOLOGIA. 2019; 61(6) 489-497. (Article).*
- *Rojas-Perez-Ezquerra, P; Micozzi, S; Torrado-Espanol, I; Rodriguez-Fernandez, A; Albendiz-Gutierrez, V; Noguerado-Mellado, B. Allergic Contact Dermatitis to Fentanyl TTS with Good Tolerance to Systemic Fentanyl. RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY. 2019; 13(1) 69-72. (Article).*
- *Fernandez AR; Dominguez MS; Noguerado-Mellado B; Perez-Ezquerra PR. Flare-Up Phenomenon of Intradermal Test with Anaphylactic Reaction to Paracetamol (Acetaminophen). RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY. 2019; 13(1) 66-68. (Article).*
- *Mas, AJ; Castaneda, S; Santamaria, JIC; Baquero, JL; Santos, FJD; de Miguel, A; Sanz, CC; Sanchez, SC; Carmona, MC; Santos, ED; Aparicio, FJG; Fernandez, AAG; Sanchez, MEG; Miguel, EH; Calleja, MVH; Mas, CJ; Lopez, AM; Taboada, JAM; Saez, VM; Hernandez, IN; Martinez, AO; Galan, JP; Escalera, MJR; de Salazar, CRG; Jose; Grp Trabajo OBSERVAR. Adherence to synthetic disease-modifying Antirheumatic Drugs in Rheumatoid Arthritis: Results of the OBSERVAR Study. REUMATOLOGIA CLINICA. 2019; 15(5) 264-270. (Article).*
- *Aragues, IH; Alvarez-Santullano, CAV; Fernandez, RS; Perez, AP. Linear atrophy and hypopigmentation after intralesional corticosteroid injection. REUMATOLOGIA CLINICA. 2019; 15(5) 72-73. (Letter).*
- *Garcia, AR; Vazquez, SV; Lopez, SB; Arteta, ELH; Rivero, PA; Navarro, MCM. Predictor Factors for Emergency Department revisiting of children with acute gastroenteritis: case-control study. REVISTA CHILENA DE PEDIATRIA-CHILE. 2019; 90(6) 624-631. (Article).*
- *Demelo-Rodriguez, P; Olleros, CL; Higueras, EM; Peligros, I; del Toro-Cervera, J. Gastrointestinal stromal tumor as a cause of cancer-associated thrombosis. REVISTA DE GASTROENTEROLOGIA DE MEXICO. 2019; 84(4) 522-524. (Letter).*
- *Garcia-Fernandez-Bravo, I; Gonzalez-Munera, A; Ordieres-Ortega, L; Chiriboga, DR; Gonzalez-Leyte, YM. Thrombosis of an infrarenal aortic aneurysm secondary to Salmonella enteritidis infection. REVISTA DE GASTROENTEROLOGIA DE MEXICO. 2019; 84(2) 250-252. (Letter).*
- *Romera, A; Garrido, A; Lema, M; Contreras, AM. CALL ME BY YOUR NAME. Protected patient: reflections on removing the patient's name in Patient Safety. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(6) 350-351. (Letter).*
- *Garcia, IH; Hidalgo, I; Barragan, L; Berenguer, B; Lorca-Garcia, C; Mantilla, I. Endotracheal intubation through laryngeal Ambu (R) Auragain (TM) mask airway mask in paediatric patients affected by congenital infiltrating lipomatosis. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(4) 222-225. (Article).*
- *Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Fernande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).*
- *Chacin, M; Carrillo, S; Rodriguez, JE; Salazar, J; Rojas, J; Anez, R; Angarita, L; Chaparro, Y; Martinez, M; Anderson, H; Reyna, N; Beltran, YH; Bermudez, V. Childhood Obesity: A Shorty's problem becoming big. REVISTA LATINOAMERICANA DE HIPERTENSION. 2019; 14(5) 616-623. (Article).*
- *Acevedo-Perez, JL. Review of the treatment of linguistic sequelae in patients undergoing surgery with intraoperative language mapping. REVISTA ORL. 2019; 10(3) 207-212. (Review).*
- *Tucciarone, M; Taliente, S; Camacho, RGB; Encabo, RS; Alvarez-Morujo, RGO. Extensive pyomyositis of prevertebral muscles after acupuncture: Case report. TURKISH JOURNAL OF EMERGENCY MEDICINE. 2019; 19(3) 113-114. (Article).*
- *Lominchar, PL; Orue-Echebarria, MI; Martin, L; Lisbona, CJ; Salcedo, MM; Olmedilla, L; Sharma, H; Asencio, JM; Lopez-Baena, JA. Hepatic flow is an intraoperative predictor of early allograft dysfunction in whole-graft deceased donor liver transplantation: An observational cohort study. WORLD JOURNAL OF HEPATOLOGY. 2019; 11(9) 689-700. (Article)*

***Other publications***

- *Merino Sanz P; Del Cerro Perez I; Alan Peinado G; Gomez de Liano Sanchez P. Causes and surgical treatment of diplopia and strabismus secondary to myasthenia gravis. ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA. 2019; 94(3) 107-113. (Article).*
- *Juárez-Salcedo LM; Desai V; Dalia S. Venetoclax: evidence to date and clinical potential. DRUGS IN CONTEXT. 2019; 8 212574-212574. (Article).*
- *Gronchi A; Hindi N; Cruz J; Blay JY; Lopez-Pousa A; Italiano A; Alvarez R; Gutierrez A; Rincón I; Sangalli C; Pérez Aguiar JL; Romero J; Morosi C; Sunyach MP; Sanfilippo R; Romagosa C; Ranchere-Vince D; Dei Tos AP; Casali PG; Martin-Broto J. Trabectedin and RAdiotherapy in Soft Tissue Sarcoma (TRASTS): Results of a Phase I Study in Myxoid Liposarcoma from Spanish (GEIS), Italian (ISG), French (FSG) Sarcoma Groups. ECLINICALMEDICINE. 2019; 9 35-43. (Article).*
- *Sánchez-Soblechero A; López-Anguita S; Díaz-Otero F; Vázquez Alen P. Bilateral intracerebral hemorrhage as a presentation of central nervous system vasculitis in a patient with dermatomyositis. ENEUROLOGICALSCI. 2019; 15 100181-100181. (Article).*
- *Galeano-Valle F; Ordieres-Ortega L; Demelo-Rodriguez P. Acute thrombosis of the azygos vein and severe post-thrombotic syndrome of superior vena cava. MEDICINA CLINICA. 2019; 152(11) -. FI: 1.635. Cuartil: 3. (Letter).*
- *Subirana I; Fernandez Aviles F; Elosua R; Lidon RM; Garcia-Dorado D; Marrugat J; investigadores del estudio ATHOS. Interhospital Variability in Acute Coronary Syndrome Management in the ATHOS Study. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(07-ene.) 691-693. (Article).*
- *Perez-Castellanos A; Martinez-Selles M; Uribarri A; Devesa-Cordero C; Sanchez-Salado JC; Ariza-Sole A; Sousa I; Juarez M; Fernandez-Aviles F. Development and External Validation of an Early Prognostic Model for Survivors of Out-of-hospital Cardiac Arrest. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(06-ene.) 535-542. (Article).*
- *Gonzalez-Senac NM; Somoza Fernandez G; Garcia Alhambra MA. Encefalopatia en paciente anciano tras diagnostico de gripe por el virus influenza B: a proposito de un caso. REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2019; 54(2) 121-122. (Article).*

# *Publications generated with* ***the participation of the Research Suppot Services*** *(RSSs)*



## *Methodology and Biostatistics Unit*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- Sarrato, GZ; Luna, MS; Sarrato, SZ; Perez, AP; Chamorro, IP; Cano, JMB. *New Strategies of Pulmonary Protection of Preterm Infants in the Delivery Room with the Respiratory Function Monitoring*. AMERICAN JOURNAL OF PERINATOLOGY. 2019; 36(13) 1368-1376. FI: 1.474. Cuartil: 3. (Article).

- Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Bellon, JM; Rodriguez, C; Riera, M; Portilla, J; Castro, A; Munoz-Fernandez, MA; Resino, S. *DBP rs16846876 and rs12512631 polymorphisms are associated with progression to AIDS naive HIV-infected patients: a retrospective study*. JOURNAL OF BIOMEDICAL SCIENCE. 2019; 26(1) -. FI: 5.762. Cuartil: 1. (Article).

- Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. *VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients*. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).

- Garutti, I; De la Gala, F; Pineiro, P; Rancan, L; Vara, E; Reyes, A; Puente-Maestu, L; Bellon, JM; Simon, C. *Usefulness of combining clinical and biochemical parameters for prediction of postoperative pulmonary complications after lung resection surgery*. JOURNAL OF CLINICAL MONITORING AND COMPUTING. 2019; 33(6) 1043-1054. FI: 2.108. Cuartil: 3. (Article).

- Aldamiz-Echevarria, T; Resino, S; Bellon, JM; Jimenez-Sousa, MA; Miralles, P; Medrano, LM; Carrero, A; Diez, C; Perez-Latorre, L; Fanciulli, C; Garcia-Broncano, P; Berenguer, J. *European mitochondrial haplogroups predict liver-related outcomes in patients coinfected with HIV and HCV: a retrospective study*. JOURNAL OF TRANSLATIONAL MEDICINE. 2019; 17 -. FI: 4.124. Cuartil: 2. (Article).

- Quintana-Villamandos, B; del Pozo, IG; Pazo-Sayos, L; Bellon, JM; Pedraz-Prieto, A; Pinto, AG; Delgado-Baeza, E. *Plasma protein thiolation index (PTI) as a potential biomarker for left ventricular hypertrophy in humans*. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).

- Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban,

H; GESIDA 3603b Cohort Study Grp. *Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR*. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).

- Vazquez-Moron, S; Jimenez, BA; Jimenez-Sousa, MA; Bellon, JM; Ryan, P; Resino, S. *Evaluation of the diagnostic accuracy of laboratory-based screening for hepatitis C in dried blood spot samples: A systematic review and meta-analysis*. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).

- Miranda-Bautista, J; Verdejo, C; Diaz-Redondo, A; Breton, I; Bellon, JM; Perez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; Gonzalez-Rio, E; Garcia-Sanchez, C; Marin-Jimenez, I; Banares, R; Menchen, L. *Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain*. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).

## *Cardiac Imagin Unit*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Vu, V; Rossini, L; Montes, R; Campos, J; Moon, J; Martinez-Legazpi, P; Bermejo, J; del Alamo, JC; May-Newman, K. Mitral Valve Prosthesis Design Affects Hemodynamic Stasis and Shear In The Dilated Left Ventricle. ANNALS OF BIOMEDICAL ENGINEERING. 2019; 47(5) 1265-1280. FI: 3.324. Cuartil: 2. (Article).*

- *Bruna, V; Velasquez-Rodriguez, J; Valero-Masa, MJ; Perez-Guillem, B; Vicent, L; Diez-Delhoyo, F; Devesa, C; Sousa-Casasnovas, I; Juarez, M; de Luna, AB; Bayes-Genis, A; Baranchuk, A; Fernandez-Aviles, F; Martiez-Selles, M. Prognostic of Interatrial Block after an Acute ST-Segment Elevation Myocardial Infarction. CARDIOLOGY. 2019; 142(1) 26-27. FI: 1.791. Cuartil: 3. (Letter).*

- *Vicent, L; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. Seasonality in Mortality in a Cardiology Department: A Five-Year Analysis in 500 Patients. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).*

- *Munoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; Lopez-Roa, P; Juarez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernandez-Aviles, F; Martinez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 142(2) 109-115. FI: 1.791. Cuartil: 3. (Article).*

- *Vicent, L; Juarez, M; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Fernandez-Aviles, F; Martinez-Selles, M. Clinical Profile and Ventricular Arrhythmias after Sacubitril/Valsartan Initiation<bold> </bold>. CARDIOLOGY. 2019; 142(2) 67-72. FI: 1.791. Cuartil: 3. (Article).*

- *Madonna, R; Van Laake, LW; Botker, HE; Davidson, SM; De Caterina, R; Engel, FB; Eschenhagen, T; Fernandez-Aviles, F; Hausenloy, DJ; Hulot, JS; Lecour, S; Leor, J; Menasche, P; Pesce, M; Perrino, C; Prunier, F; Van Linthout, S; Ytrehus, K; Zimmermann, WH; Ferdinandy, P; Sluijter, JPG. ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. CARDIOVASCULAR RESEARCH. 2019; 115(3) 488-500. FI: 8.168. Cuartil: 1. (Review).*

- *Shamagian, LG; Madonna, R; Taylor, D; Climent, AM; Prosper, F; Bras-Rosario, L; Bayes-Genis, A; Ferdinandy, P; Fernandez-Aviles, F; Belmonte, JCI; Fuster, V; Bolli, R. Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine. CIRCULATION RESEARCH. 2019; 124(6) 938-951. FI: 14.467. Cuartil: 1. (Review).*

- *Diez-Delhoyo, F; Gutierrez-Ibanes, E; Sanz-Ruiz, R; Vazquez-Alvarez, ME; Saldivar, HG; Juarez, AR; Sarnago, F; Martinez-Selles, M; Bermejo, J; Soriano, J; Elizaga, J; Fernandez-Aviles, F. Prevalence of Microvascular and Endothelial Dysfunction in the Nonculprit Territory in Patients With Acute Myocardial Infarction The FISIOIAM Study. CIRCULATION-CARDIOVASCULAR INTERVENTIONS. 2019; 12(2) -. FI: 5.493. Cuartil: 1. (Article).*

- *Llopis, J; Gonzalez-Ramallo, V; Goenaga, MA; Garcia-Leoni, ME; Farinas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Garcia-Valls, L; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Stuart, JRR; Rodriguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Garcia-Alvarez, L;*

*Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).*

- *Liberos, A; Rodrigo, M; Hernandez-Romero, I; Quesada, A; Fernandez-Aviles, F; Atienza, F; Climent, AM; Guillem, MS. Phase singularity point tracking for the identification of typical and atypical flutter patients: A clinical-computational study. COMPUTERS IN BIOLOGY AND MEDICINE. 2019; 104 319-328. FI: 3.434. Cuartil: 1. (Article).*

- *Sanchez-Guijo, Fermin; Garcia-Olmo, Damian; Prosper, Felipe; Martinez, Salvador; Zapata, Agustin; Fernandez-Aviles, Francisco; Toledo-Aral, Juan Jose; Torres, Miguel; Farinas, Isabel; Badimon, Lina; Labandeira-Garcia, Jose Luis; Garcia-Sancho, Javier; Moraleda, Jose M; TerCel. Spanish Cell Therapy Network (TerCel): 15 years of successful collaborative translational research. CYTOTHERAPY. 2019; 22(1) 1-5. FI: 4.218. Cuartil: 1. (Article).*

- *Postigo, A; Datino, T; Espinosa, MA; Fernandez-Aviles, F; Arenal, A. Epicardial ablation for ventricular tachycardia in Freidreich's ataxia cardiomyopathy. EUROPACE. 2019; 21(7) -. FI: 4.045. Cuartil: 2. (Editorial Material).*

- *Sanz-Ruiz, R; Climent, AM; Fernandez-Santos, ME; Fernandez-Baza, A; Fernandez-Aviles, F. Call to action from the cardiovascular reparative medicine community. EUROPEAN HEART JOURNAL. 2019; 40(32) 2740-2740. FI: 22.673. Cuartil: 1. (Editorial Material).*

- *Fosbol, EL; Park, LP; Rizk, H; Clara, L; Sanchez, M; Casabe, JP; Nacinovich, F; Oses, PF; Ronderos, R; Sucari, A; Thierer, J; Altclas, J; Kogan, S; Spelman, D; Athan, E; Harris, O; Kennedy, K; Tan, R; Gordon, D; Papanicolas, L; Korman, T; Kotsanas, D; Dever, R; Konecny, P; Lawrence, R; Rees, D; Feneley, MP; Harkness, J; Jones, P; Post, J; Reinbott, P; Ryan, S; Gattringer, R; Wiesbauer, F; Andrade, AR; de Brito, ACP; Guimaraes, AC; Grinberg, M; Mansur, AJ; Siciliano, RF; Strabelli, TMV; Vieira, MLC; Tranchesi, RAD; Paiva, MG; Fortes, CQ; Ramos, AD; Weksler, C; Ferraiuoli, G; Golebiovski, W; Lamas, C; Karlowsky, CJA; Keynan, Y; Morris, AM; Jones, SB; Garcia, P; Cereceda, M; Fica, A; Mella, RM; Fernandez, R; Franco, L; Gonzalez, J; Jaramillo, AN; Barsic, B; Bukovski, S; Krajinovic, V; Pangercic, A; Rudez, I; Vincelj, J; Freiberger, T; Pol, J; Zaloudikova, B; Ashour, Z; El Kholy, A; Mishaal, M; Osama, D; Rizk, H; Aissa, N; Alauzet, C; Alla, F; Campagnac, C; Doco-Lecompte, T; Selton-Suty, C; Casalta, JP; Fournier, PE; Habib, G; Raoult, D; Thuny, F; Delahaye, F; Delahaye, A; Vandenesch, F; Donal, E; Donnio, PY; Flecher, E; Michelet, C; Revest, M; Tattevin, P; Chevalier, F; Jeu, A; Remadi, JP; Rusinaru, D; Tribouilloy, C; Bernard, Y; Chirouze, C; Hoen, B; Leroy, J; Plesiat, P; Neuerburg, C; Mazaheri, B; Naber, C; Athanasia, S; Deliolanis, I; Giamarellou, H; Thomas, T; Giannitsioti, E; Papanicolaou, K; Mylona, E; Paniara, O; Papanikolaou, K; Pyros, J; Skoutelis, A; Sharma, G; Francis, J; Nair, L; Thomas, V; Venugopal, K; Hannan, MM; Hurley, JP; Cahan, A; Gilon, D; Israel, S; Korem, M; Rubinstein, E; Strahilevitz, J; Durante-Mangoni, E; Mattucci, I; Pinto, D; Agrusta, F; Senese, A; Ragone, E; Utili, R; Cecchi, E; De Rosa, F; Forno, D; Imazio, M; Trinchero, R; Grossi, P; Lattanzio, M; Toniolo, A; Goglio, A; Raglio, A; Ravasio, V; Rizzi, M; Suter, F; Carosi, G; Magri, S; Signorini, L; Kanafani, Z; Kanj, SS; Sharif-Yakan, A; Abidin, I; Tamin, SS; Martinez, ER; Nieto, GIS; van der Meer, JTM; Chambers, S; Holland, D; Morris, A; Raymond, N; Read, K; Murdoch, DR; Dragulescu, S; Ionac, A; Mornos, C; Butkevich, OM; Chipigina, N; Kirill, O; Vadim, K; Vinogradova, T; Edathodu, J; Halim, M; Liew, YY; Tan, RS; Lejko-Zupanc, T; Logar, M; Mueller-Premru, M; Commerford, P; Commerford, A; Deetlefs, E; Hansa, C; Ntsekhe, M; Almela, M; Armero, Y; Azqueta, M; Castaneda, X; Cervera, C; Falces, C; de-la-Maria, CG; Fita, G; Gatell, JM; Heras, M; Llopis, J; Marco, F; Mestres, CA; Miro, JM; Moreno, A; Ninot, S; Pare, C; Pericas, JM; Ramirez, J; Rovira, I; Sitges, M; Anguera, I; Font, B; Guma, JR; Bermejo, J; Bouza, E; Fernandez, MAG; Gonzalez-Ramallo, V; Marin, M; Munoz, P; Pedromingo, M; Roda, J; Rodriguez-Creixems, M; Solis, J; Almirante, B; Fernandez-Hidalgo, N; Tornos, P; de Alarcon, A; Parra, R; Alestig, E; Johansson, M; Olaison, L; Snygg-Martin, U; Pachirat, O; Pachirat, P; Pussadhamma, B; Senthong, V; Casey, A; Elliott, T; Lambert, P; Watkin, R; Eyton, C; Klein, JL; Bradley, S; Kauffman, C; Bedimo, R; Chu, VH; Corey, GR; Crowley, AL; Douglas, P; Drew, L; Fowler, VG; Holland, T; Lalani, T; Mudrick, D; Samad, Z; Sexton, D; Stryjewski, M; Wang, A; Woods, CW; Lerakis, S; Cantey, R; Steed, L; Wray, D; Dickerman, SA; Bonilla, H; DiPersio, J; Salstrom, SJ; Baddley, J; Patel, M; Peterson, G; Stancoven, A; Levine, D; Riddle, J; Rybak, M; ICE-PLUS Investigators. The association between vegetation size and surgical treatment on 6-month mortality in left-sided infective endocarditis. EUROPEAN HEART JOURNAL. 2019; 40(27) 2243-2251. FI: 22.673. Cuartil: 1. (Article).*

- *Flores, CH; Ortiz-Bautista, C; Calvo, JC; Fernandez-Aviles, F. When winter comes with all itsmight, so does the fright. EUROPEAN HEART JOURNAL. 2019; 40(32) 2661-2662. FI: 22.673. Cuartil: 1. (Editorial Material).*

- *Perez-Castellanos, A; Atienza, F; Bueno, H; Sousa, L; Fernandez-Aviles, F. Tako-tsubo cardiomyopathy triggered by multiple shocks in electrical storm. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(8) 771-774. FI: 3.813. Cuartil: 2. (Article).*

- *Benito, Y; Martinez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodriguez-Perez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).*

- *Cuerpo, GP; Valerio, M; Pedraz, A; Rodriguez-Abella, H; Mestres, CA; Obrador, EQ; Gonzalez-Calle, A; Alvarez, RR; Garcia, PM; Bouza, E; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D;*

*Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Celemin, D; Caballero, GC; Pinto, AG; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Dominguez, GG; Sanchez-Porto, A; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCH; Garaizabal, EE; Martinez, AT; Luque, JCS; GAMEs Study Grp. Mitral valve repair in infective endocarditis is not inferior to valve replacement: results from a Spanish nationwide prospective registry. GENERAL THORACIC AND CARDIOVASCULAR SURGERY. 2019; 67(7) 585-593. FI: 1.088. Cuartil: 4. (Article).*

- *Galian-Gay, L; Hevia, AC; Teixido-Tura, G; Palomares, JR; Gutierrez-Moreno, L; Maldonado, G; Gonzalez-Alujas, MT; Sao-Aviles, A; Gallego, P; Calvo-Iglesias, F; Bermejo, J; Robledo-Carmona, J; Sanchez, V; Saura, D; Sevilla, T; Burillo-Sanz, S; Guala, A; Garcia-Dorado, D; Evangelista, A; BICUSPID Investigators. Familial clustering of bicuspid aortic valve and its relationship with aortic dilation in first-degree relatives. HEART. 2019; 105(8) 603-608. FI: 5.213. Cuartil: 1. (Article).*

- *Gonzalez-Mansilla, A; Martinez-Legazpi, P; Prieto, A; Goma, E; Haurigot, P; del Villar, CP; Cuadrado, V; Delgado-Montero, A; Prieto, R; Mombiela, T; Perez-David, E; Gonzalez, ER; Benito, Y; Yotti, R; Perez-Vallina, M; Fernandez-Aviles, F; Bermejo, J. Valve area and the risk of overestimating aortic stenosis. HEART. 2019; 105(12) 911-. FI: 5.213. Cuartil: 1. (Article).*

- *Vicent, L; Cinca, J; Vazquez-Garcia, R; Gonzalez-Juanatey, JR; Rivera, M; Segovia, J; Pascual-Figal, D; Bover, R; Worner, F; Delgado-Jimenez, J; Fernandez-Aviles, F; Martinez-Selles, M. Discharge treatment with angiotensin-converting enzyme inhibitor/angiotensin receptor blocker after a heart failure hospitalisation is associated with a better prognosis irrespective of left ventricular ejection fraction. INTERNAL MEDICINE JOURNAL. 2019; 49(12) 1505-1513. FI: 1.677. Cuartil: 3. (Article).*

- *Ramos-Martinez, A; Calderon-Parra, J; Miro, JM; Munoz, P; Rodriguez-Abella, H; Valerio, M; de Alarcon, A; Luque, R; Ambrosioni, J; Farinas, MC; Goenaga, MA; Oteo, JA; Marcos, FJM; Vinuesa, D; Dominguez, F; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodriguez, D; Rodriguez, R; Vitoria, Y; Voces, R; Lopez, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gomez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Garcia, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Hernandez-Meneses, M; Perez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sandoval, E; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adan, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernandez, MK; Hualde, AM; Marin, M; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vazquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quiros, AM; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Balbin, JA; Castillo, CA; Arnaiz, A; de las Revillas, FA; Belaustegui, MC; Farinas, MC; Farinas-Alvarez, C; Izquierdo, RG; Garcia, I; Rico, CG; Gutierrez-Cuadra, M; Diez, JG; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Dominguez, F; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Navas, E; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; Lopez-Cortes, LE; de Alarcon, A; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; Villegas, AC; Garcia-Alvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sanchez, RJ; Almazan, AJ; Freire, AO; Gonzalez, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martinez, AT; Luque, JCS; Spanish*

*Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).*

- *Fernandez, AI; Yotti, R; Gonzalez-Mansilla, A; Mombiela, T; Gutierrez-Ibanes, E; del Villar, CP; Navas-Tejedor, P; Chazo, C; Martinez-Legazpi, P; Fernandez-Aviles, F; Bermejo, J. The Biological Bases of Group 2 Pulmonary Hypertension. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(23) -. FI: 4.556. Cuartil: 1. (Review).*

- *Garcia-Alvarez, L; Sanz, MM; Marin, M; Farinas, MC; Montejo, M; Goikoetxea, J; Garcia, RR; de Alarcon, A; Almela, M; Fernandez-Hidalgo, N; Socas, MMA; Goenaga, MA; Navas, E; Vicioso, L; Oteo, JA; Adan, I; Sanchez, FF; Noureddine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Boado, MV; Lazaro, MC; Goiti, JJ; Hernandez, JL; Iruretagoyena, JR; Zuazabal, JI; Lopez-Soria, L; Perez, PM; Rodriguez, R; Voces, R; Lopez, MVG; Georgieva, RI; Solero, MM; Bailon, IR; Morales, JR; Cuende, AM; Echeverria, T; Fuerte, A; Gaminde, E; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Alvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sanchez, E; Regueiro, DS; Martinez, FJ; Alonso, MD; Castro, B; Marrero, DG; Duran, MD; Gomez, MAM; La Calzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Alvarez, VA; Costas, C; de la Hera, J; Suarez, JF; Fraile, LI; Arguero, VL; Menendez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martinez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la Maria, CG; Gatell, JM; Perez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramirez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernandez, MK; Martinez-Selles, M; Menarguez, MC; Munoz, P; Rincon, C; Rodriguez-Abella, H; Rodriguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrena, I; Loeches, B; Moreno, M; Ramirez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Farinas-Alvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Diez, JG; Duran, RM; Pajaron, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; Gonzalez, J; Orden, B; Ramos, A; Gonzalez, ER; Centella, T; Hermida, JM; Moya, JL; Martin-Davila, P; Oliva, E; del Rio, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; Garcia, E; Haro, JL; Lepe, JA; Lopez, F; Luque, R; Alonso, LJ; Azcarate, P; Gutierrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Alvarez, M; Fernandez, AL; Martinez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; Lopez, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sanchez-Porto, A; Vallejo, L; Leal, JMA; Vazquez, EG; Torres, AH; Blazquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodriguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; Garcia, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).*

- *Vicent, L; Martinez-Selles, H; Lucia, A; Emanuele, E; Fernandez-Aviles, F; Martinez-Selles, M. Interleukin-1 Receptor-Like 1 (IL1R1) Levels Are Not Increased in Healthy Centenarians. JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH. 2019; 12(3) 268-269. FI: 3.312. Cuartil: 2. (Letter).*

- *Vicent, L; Bruna, V; Devesa, C; Garcia-Carreno, J; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. An overview of end-of-life issues in a cardiology department. Is the mode of death worse in the cardiac intensive care unit?. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(6) 482-489. FI: 2.491. Cuartil: 2. (Article).*

- *Diez-Delhoyo, F; Elizaga, J; Gutierrez-Ibanes, E; Fernandez-Aviles, F. Toggle Malapposition and Femoral Subocclusion as a Potential Complication of Manta Closure Device During TAVR. JOURNAL OF INVASIVE CARDIOLOGY. 2019; 31(10) 300-300. FI: 1.453. Cuartil: 4. (Editorial Material).*

- *del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*

- *Rivera-Juarez, A; Hernandez-Romero, I; Puertas, C; Zhang-Wang, S; Sanchez-Alamo, B; Martins, R; Figuera, C; Guillem, MS; Climent, AM; Fernandez-Aviles, F; Tejedor, A; Jalife, J; Atienza, F. Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(21) -. FI: 4.605. Cuartil: 1. (Article).*

- *Lindman, BR; Goel, K; Bermejo, J; Beckman, J; O'Leary, J; Barker, CM; Kaiser, C; Cavalcante, JL; Elmariah, S; Huang, J; Hickey, GL; Adams, DH; Popma, JJ; Reardon, MJ. Lower Blood Pressure After Transcatheter or Surgical Aortic Valve Replacement is Associated with Increased Mortality. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(3) -. FI: 4.605. Cuartil: 1. (Article).*

- *Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*

- *Hernandez-Romero, I; Guillem, MS; Figuera, C; Atienza, F; Fernandez-Aviles, F; Climent, AM. Optical imaging of voltage and calcium in isolated hearts: Linking spatiotemporal heterogeneities and ventricular fibrillation initiation. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*

- *Garcia-Carreno, J; Sousa-Casasnovas, I; Devesa-Cordero, C; Gutierrez-Ibanes, E; Fernandez-Aviles, F; Martinez-Selles, M. Cardiopulmonary Resuscitation With Percutaneous ECMO in Refractory In-hospital Cardiac Arrest: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 182-183. FI: 4.642. Cuartil: 1. (Letter).*

- *Luna-Lopez, R; Sousa-Casasnovas, I; Garcia-Carreno, J; Devesa-Cordero, C; Fernandez-Aviles, F; Martinez-Selles, M. Use of Extracorporeal Membrane Oxygenator in Massive Pulmonary Embolism. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(10) 880-882. FI: 4.642. Cuartil: 1. (Letter).*

- *Garcia Carreno J; Sousa-Casasnovas I; Vicent Alaminos ML; Atienza Fernandez F; Martinez Selles M; Fernandez Aviles F. Extracorporeal Membrane Oxygenation in Patients With Electrical Storm: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(9) 793-794. FI: 4.642. Cuartil: 1. (Letter).*

- *Garcia Carreno J; Sousa-Casasnovas I; Fernandez Aviles F; Martinez Selles M. Antiarrhythmic Drugs Are not the Only Option in Electrical Storm: Extracorporeal Membrane Oxygenation as a Life-saving Alternative. Response. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 185-185. FI: 4.642. Cuartil: 1. (Letter).*

- *Toran, JL; Lopez, JA; Gomes-Alves, P; Aguilar, S; Torroja, C; Trevisan-Herraz, M; Moscoso, I; Sebastiao, MJ; Serra, M; Brito, C; Cruz, FM; Sepulveda, JC; Abad, JL; Galan-Arriola, C; Ibanez, B; Martinez, F; Fernandez, ME; Fernandez-Aviles, F; Palacios, I; R-Borlado, L; Vazquez, J; Alves, PM; Bernad, A. Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Rossello, X; Rodriguez-Sinovas, A; Vilahur, G; Crisostomo, V; Jorge, I; Zaragoza, C; Zamorano, JL; Bermejo, J; Ordonez, A; Bosca, L; Vazquez, J; Badimon, L; Sanchez-Margallo, FM; Fernandez-Aviles, F; Garcia-Dorado, D; Ibanez, B. CIBER-CLAP (CIBERCV Cardioprotection Large Animal Platform): A multicenter preclinical network for testing reproducibility in cardiovascular interventions. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

- *Vigon, L; Vazquez-Moron, S; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gomez, J; Resino, S; Martinez, I; Miralles, P; Lopez, JC; Parras, F; Padilla, B; Aldamiz-Echevarria, T; Tejerina, F; Diez, C; Perez-Latorre, L; Fanciulli, C; Gutierrez, I; Ramirez, M; Carretero, S; Bellon, JM; Bermejo, J; Hontanon, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Diaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodriguez-Arrondo, F; Van den Eynde, E; Perez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Perez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Munoz, L; Hernandez-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; Lopez-Aldeguer, J; Perez, G; Gaspar, G; Yllescasl, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Other publications***

- *Delgado JF; Ferrero Gregori A; Fernández LM; Claret RB; Sepúlveda AG; Fernández-Avilés F; González-Juanatey JR; García RV; Otero MR; Segovia Cubero J; Pascual Figal D; Crespo-Leiro MG; Alvarez-García J; Cinca J; Ynsaurriaga FA. Patient-Associated Predictors of 15- and 30-Day Readmission After Hospitalization for Acute Heart Failure. CURRENT HEART FAILURE REPORTS. 2019; 16(6) 304-314. (Article).*

- *Perez-Castellanos A; Martinez-Selles M; Uribarri A; Devesa-Cordero C; Sanchez-Salado JC; Ariza-Sole A; Sousa I; Juarez M; Fernandez-Aviles F. Development and External Validation of an Early Prognostic Model for Survivors of Out-of-hospital Cardiac Arrest. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(07-ene.) 691-693. (Article).*

- *Velasquez-Rodriguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernandez M; Valerio M; Fernandez-Aviles F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).*

- *Subirana I; Fernandez Aviles F; Elosua R; Lidon RM; Garcia-Dorado D; Marrugat J; investigadores del estudio ATHOS. Interhospital Variability in Acute Coronary Syndrome Management in the ATHOS Study. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 535-542. (Article).*

## *Cell Therapy Unit*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Sanz-Ruiz, R; Climent, AM; Fernandez-Santos, ME; Fernandez-Baza, A; Fernandez-Aviles, F. Call to action from the cardiovascular reparative medicine community. EUROPEAN HEART JOURNAL. 2019; 40(32) 2661-2662. FI: 22.673. Cuartil: 1. (Editorial Material).*

- *Toran, JL; Lopez, JA; Gomes-Alves, P; Aguilar, S; Torroja, C; Trevisan-Herraz, M; Moscoso, I; Sebastiao, MJ; Serra, M; Brito, C; Cruz, FM; Sepulveda, JC; Abad, JL; Galan-Arriola, C; Ibanez, B; Martinez, F; Fernandez, ME; Fernandez-Aviles, F; Palacios, I; R-Borlado, L; Vazquez, J; Alves, PM; Bernad, A. Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

## *Traslational Cardiology Laboratory*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Munoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; Lopez-Roa, P; Juarez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernandez-Aviles, F; Martinez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 142(2) 67-72. FI: 1.791. Cuartil: 3. (Article).*
- *Vicent, L; Juarez, M; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Fernandez-Aviles, F; Martinez-Selles, M. Clinical Profile and Ventricular Arrhythmias after Sacubitril/Valsartan Initiation<bold> </bold>. CARDIOLOGY. 2019; 142(1) 26-27. FI: 1.791. Cuartil: 3. (Letter).*
- *Vicent, L; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. Seasonality in Mortality in a Cardiology Department: A Five-Year Analysis in 500 Patients. CARDIOLOGY. 2019; 142(2) 109-115. FI: 1.791. Cuartil: 3. (Article).*
- *Bruna, V; Velasquez-Rodriguez, J; Valero-Masa, MJ; Perez-Guillem, B; Vicent, L; Diez-Delhoyo, F; Devesa, C; Sousa-Casasnovas, I; Juarez, M; de Luna, AB; Bayes-Genis, A; Baranchuk, A; Fernandez-Aviles, F; Martiez-Selles, M. Prognostic of Interatrial Block after an Acute ST-Segment Elevation Myocardial Infarction. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).*
- *Madonna, R; Van Laake, LW; Botker, HE; Davidson, SM; De Caterina, R; Engel, FB; Eschenhagen, T; Fernandez-Aviles, F; Hausenloy, DJ; Hulot, JS; Lecour, S; Leor, J; Menasche, P; Pesce, M; Perrino, C; Prunier, F; Van Linthout, S; Ytrehus, K; Zimmermann, WH; Ferdinandy, P; Sluijter, JPG. ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. CARDIOVASCULAR RESEARCH. 2019; 115(3) 488-500. FI: 8.168. Cuartil: 1. (Review).*
- *Shamagian, LG; Madonna, R; Taylor, D; Climent, AM; Prosper, F; Bras-Rosario, L; Bayes-Genis, A; Ferdinandy, P; Fernandez-Aviles, F; Belmonte, JCI; Fuster, V; Bolli, R. Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine. CIRCULATION RESEARCH. 2019; 124(6) 938-951. FI: 14.467. Cuartil: 1. (Review).*
- *Diez-Delhoyo, F; Gutierrez-Ibanes, E; Sanz-Ruiz, R; Vazquez-Alvarez, ME; Saldivar, HG; Juarez, AR; Sarnago, F; Martinez-Selles, M; Bermejo, J; Soriano, J; Elizaga, J; Fernandez-Aviles, F. Prevalence of Microvascular and Endothelial Dysfunction in the Nonculprit Territory in Patients With Acute Myocardial Infarction The FISIOIAM Study. CIRCULATION-CARDIOVASCULAR INTERVENTIONS. 2019; 12(2) -. FI: 5.493. Cuartil: 1. (Article).*
- *Liberos, A; Rodrigo, M; Hernandez-Romero, I; Quesada, A; Fernandez-Aviles, F; Atienza, F; Climent, AM; Guillem, MS. Phase singularity point tracking for the identification of typical and atypical flutter patients: A clinical-computational study. COMPUTERS IN BIOLOGY AND MEDICINE. 2019; 104 319-328. FI: 3.434. Cuartil: 1. (Article).*
- *Sanchez-Guijo, Fermin; Garcia-Olmo, Damian; Prosper, Felipe; Martinez, Salvador; Zapata, Agustin; Fernandez-Aviles, Francisco; Toledo-Aral, Juan Jose; Torres, Miguel; Farinas, Isabel; Badimon, Lina; Labandeira-Garcia, Jose Luis; Garcia-Sancho, Javier; Moraleda, Jose M; TerCel. Spanish Cell Therapy Network (TerCel): 15 years of successful collaborative translational research. CYTOTHERAPY. 2019; 22(1) 1-5. FI: 4.218. Cuartil: 1. (Article).*
- *Postigo, A; Datino, T; Espinosa, MA; Fernandez-Aviles, F; Arenal, A. Epicardial ablation for ventricular tachycardia in Freidreich's ataxia cardiomyopathy. EUROPACE. 2019; 21(7) -. FI: 4.045. Cuartil: 2. (Editorial Material).*
- *Sanz-Ruiz, R; Climent, AM; Fernandez-Santos, ME; Fernandez-Baza, A; Fernandez-Aviles, F. Call to action from the cardiovascular reparative medicine community. EUROPEAN HEART JOURNAL. 2019; 40(32) 2661-2662. FI: 22.673. Cuartil: 1. (Editorial Material).*
- *Flores, CH; Ortiz-Bautista, C; Calvo, JC; Fernandez-Aviles, F. When winter comes with all itsmight, so does the fright. EUROPEAN HEART JOURNAL. 2019; 40(32) 2740-2740. FI: 22.673. Cuartil: 1. (Editorial Material).*
- *Perez-Castellanos, A; Atienza, F; Bueno, H; Sousa, L; Fernandez-Aviles, F. Tako-tsubo cardiomyopathy triggered by multiple shocks in electrical storm. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(8) 771-774. FI: 3.813. Cuartil: 2. (Article).*
- *Benito, Y; Martinez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodriguez-Perez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).*
- *Gonzalez-Mansilla, A; Martinez-Legazpi, P; Prieto, A; Goma, E; Haurigot, P; del Villar, CP; Cuadrado, V; Delgado-Montero, A; Prieto, R; Mombiela, T; Perez-David, E; Gonzalez, ER; Benito, Y; Yotti, R; Perez-Vallina, M; Fernandez-Aviles, F; Bermejo, J. Valve area and the risk of overestimating aortic stenosis. HEART. 2019; 105(12) 911-. FI: 5.213. Cuartil: 1. (Article).*
- *Vicent, L; Cinca, J; Vazquez-Garcia, R; Gonzalez-Juanatey, JR; Rivera, M; Segovia, J; Pascual-Figal, D; Bover, R; Worner, F; Delgado-Jimenez, J; Fernandez-Aviles, F; Martinez-Selles, M. Discharge treatment with angiotensin-converting enzyme inhibitor/angiotensin receptor blocker after a heart failure hospitalisation is associated with a better prognosis irrespective of left ventricular ejection fraction. INTERNAL MEDICINE JOURNAL. 2019; 49(12) 1505-1513. FI: 1.677. Cuartil: 3. (Article).*
- *Fernandez, AI; Yotti, R; Gonzalez-Mansilla, A; Mombiela, T; Gutierrez-Ibanes, E; del Villar, CP; Navas-Tejedor, P; Chazo, C; Martinez-Legazpi, P; Fernandez-Aviles, F; Bermejo, J. The Biological Bases of Group 2 Pulmonary Hypertension. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2019; 20(23) -. FI: 4.556. Cuartil: 1. (Review).*

- *Vicent, L; Martinez-Selles, H; Lucia, A; Emanuele, E; Fernandez-Aviles, F; Martinez-Selles, M. Interleukin-1 Receptor-Like 1 (IL1R1) Levels Are Not Increased in Healthy Centenarians. JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH. 2019; 12(3) 268-269. FI: 3.312. Cuartil: 2. (Letter).*
- *Vicent, L; Bruna, V; Devesa, C; Garcia-Carreno, J; Sousa-Casasnovas, I; Juarez, M; Fernandez-Aviles, F; Martinez-Selles, M. An overview of end-of-life issues in a cardiology department. Is the mode of death worse in the cardiac intensive care unit?. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(6) 482-489. FI: 2.491. Cuartil: 2. (Article).*
- *Diez-Delhoyo, F; Elizaga, J; Gutierrez-Ibanes, E; Fernandez-Aviles, F. Toggle Malapposition and Femoral Subocclusion as a Potential Complication of Manta Closure Device During TAVR. JOURNAL OF INVASIVE CARDIOLOGY. 2019; 31(10) 300-300. FI: 1.453. Cuartil: 4. (Editorial Material).*
- *del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*
- *Rivera-Juarez, A; Hernandez-Romero, I; Puertas, C; Zhang-Wang, S; Sanchez-Alamo, B; Martins, R; Figuera, C; Guillem, MS; Climent, AM; Fernandez-Aviles, F; Tejedor, A; Jalife, J; Atienza, F. Clinical Characteristics and Electrophysiological Mechanisms Underlying Brugada ECG in Patients With Severe Hyperkalemia. JOURNAL OF THE AMERICAN HEART ASSOCIATION. 2019; 8(3) -. FI: 4.605. Cuartil: 1. (Article).*
- *Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernandez-Yunquera, A; Diaz-Fontenla, F; Rincon, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibanez-Samaniego, L; Perez-Pena, J; Lopez-Baena, JA; Diaz-Zorita, B; Fernandez-Aviles, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).*
- *Hernandez-Romero, I; Guillem, MS; Figuera, C; Atienza, F; Fernandez-Aviles, F; Climent, AM. Optical imaging of voltage and calcium in isolated hearts: Linking spatiotemporal heterogeneities and ventricular fibrillation initiation. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).*
- *Garcia Carreno J; Sousa-Casasnovas I; Vicent Alaminos ML; Atienza Fernandez F; Martinez Selles M; Fernandez Aviles F. Extracorporeal Membrane Oxygenation in Patients With Electrical Storm: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(9) 793-794. FI: 4.642. Cuartil: 1. (Letter).*
- *Garcia Carreno J; Sousa-Casasnovas I; Fernandez Aviles F; Martinez Selles M. Antiarrhythmic Drugs Are not the Only Option in Electrical Storm: Extracorporeal Membrane Oxygenation as a Life-saving Alternative. Response. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 185-185. FI: 4.642. Cuartil: 1. (Letter).*
- *Garcia-Carreno, J; Sousa-Casasnovas, I; Devesa-Cordero, C; Gutierrez-Ibanes, E; Fernandez-Aviles, F; Martinez-Selles, M. Cardiopulmonary Resuscitation With Percutaneous ECMO in Refractory In-hospital Cardiac Arrest: A Single-center Experience. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(2) 182-183. FI: 4.642. Cuartil: 1. (Letter).*
- *Luna-Lopez, R; Sousa-Casasnovas, I; Garcia-Carreno, J; Devesa-Cordero, C; Fernandez-Aviles, F; Martinez-Selles, M. Use of Extracorporeal Membrane Oxygenator in Massive Pulmonary Embolism. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(10) 880-882. FI: 4.642. Cuartil: 1. (Letter).*
- *Toran, JL; Lopez, JA; Gomes-Alves, P; Aguilar, S; Torroja, C; Trevisan-Herraz, M; Moscoso, I; Sebastiao, MJ; Serra, M; Brito, C; Cruz, FM; Sepulveda, JC; Abad, JL; Galan-Arriola, C; Ibanez, B; Martinez, F; Fernandez, ME; Fernandez-Aviles, F; Palacios, I; R-Borlado, L; Vazquez, J; Alves, PM; Bernad, A. Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Other publications***

- *Delgado JF; Ferrero Gregori A; Fernández LM; Claret RB; Sepúlveda AG; Fernández-Avilés F; González-Juanatey JR; García RV; Otero MR; Segovia Cubero J; Pascual Figal D; Crespo-Leiro MG; Alvarez-García J; Cinca J; Ynsaurriaga FA. Patient-Associated Predictors of 15- and 30-Day Readmission After Hospitalization for Acute Heart Failure. CURRENT HEART FAILURE REPORTS. 2019; 16(6) 304-314. (Article).*
- *Subirana I; Fernandez Aviles F; Elosua R; Lidon RM; Garcia-Dorado D; Marrugat J; investigadores del estudio ATHOS. Interhospital Variability in Acute Coronary Syndrome Management in the ATHOS Study. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(06-ene.) 535-542. (Article).*
- *Velasquez-Rodriguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernandez M; Valerio M; Fernandez-Aviles F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).*
- *Perez-Castellanos A; Martinez-Selles M; Uribarri A; Devesa-Cordero C; Sanchez-Salado JC; Ariza-Sole A; Sousa I; Juarez M; Fernandez-Aviles F. Development and External Validation of an Early Prognostic Model for Survivors of Out-of-hospital Cardiac Arrest. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(07-ene.) 691-693. (Article).*

## Biobank

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Crichton, S; Belfrage, E; Collins, IJ; Doerholt, K; Judd, A; Le Coeur, S; Spoulou, V; Goodall, R; Scherpbier, H; Smit, C; Goetghebuer, T; Gibb, DM; Noguera, A; Navarro, ML; Ramos, JT; Galli, L; Giaquinto, C; Thorne, C; Santa Ansone; Marczynska, M; Okhonskaia, L; de Tejada, BM; Jourdain, G; Decker, L; Ene, L; Hainaut, M; Van der Kelen, E; Delforge, M; de Martino, M; Tovo, PA; Patrizia, O; Larovere, D; Ruggeri, M; Faldella, G; Baldi, F; Badolato, R; Montagnani, C; Venturini, E; Lisi, C; Di Biagio, A; Taramasso, L; Giacomet, V; Erba, P; Esposito, S; Lipreri, R; Salvini, F; Tagliabue, C; Cellini, M; Bruzzese, E; Lo Vecchio, A; Rampon, O; Dona, D; Romano, A; Dodi, I; Maccabruni, A; Consolini, R; Bernardi, S; Kuekou, HT; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Gabiano, C; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijsenfeld, AM; de Boer, CG; Jurriaans, S; Back, NKT; Zaaijer, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; Vermont, CL; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriet, SSV; van de Flier, M; van Aerde, K; Strik-Albers, R; Rahamat-Langendoen, J; Stelma, FF; Scholvinck, EH; de Groot-de Jonge, H; Niesters, HGM; van Leer-Buter, CC; Knoester, M; Bont, LJ; Geelen, SPM; Wolfs, TFW; Nauta, N; Schuurman, R; Verduyn-Lunel, F; Wensing, AMJ; Reiss, P; Zaheri, S; Bezemer, DO; van Sighem, AI; Smit, C; Wit, FWMN; Hillebregt, M; de Jong, A; Woudstra, T; Bergsma, D; Grivell, S; Meijering, R; Raethke, M; Rutkens, T; de Groot, L; van den Akker, M; Bakker, Y; Bezemer, M; El Berkaoui, A; Geerlinks, J; Koops, J; Kruijne, E; Lodewijk, C; Lucas, E; van der Meer, R; Munjishvili, L; Paling, E; Peeck, B; Ree, C; Regtop, R; Ruijs, Y; van de Sande, L; Schoorl, M; Schnorr, P; Tuijn, E; Veenenberg, L; van der Vliet, S; Wisse, A; Witte, EC; Tuk, B; Popielska, J; Pokorska-Spiewak, M; Oldakowska, A; Zawadka, K; Coupland, U; Doroba, M; Voronin, E; Miloenko, M; Labutina, S; Soler-Palacin, P; Frick, MA; Perez-Hoyos, S; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Coll, M; Pineda, V; Rius, N; Rovira, N; Duenas, J; Gamell, A; Fortuny, C; Noguera-Julian, A; Mellado, MJ; Escosa, L; Hortelano, MG; Sainz, T; Gonzalez-Tome, MI; Rojo, P; Blazquez, D; Prieto, L; Guillen, S; Saavedra, J; Santos, M; Munoz, MA; Ruiz, B; Mc Phee, CF; de Ory, SJ; Alvarez, S; Roa, MA; Beceiro, J; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Montesdeoca, A; Mateo, M; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Grande, A; Romero, FJ; Perez, C; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Perez, A; Piqueras, AI; Breton, R; Segarra, I; Gavilan, C; Jareno, E; Montesinos, E; Dapena, M; Alvarez, C; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; de Miguel, E; Naver, L; Soeria-Atmadja, S; Hagas, V; Aebi-Popp, K; Anagnostopoulos, A; Asner, S; Battegay, M; Baumann, M; Bernasconi, E; Boni, J; Braun, DL; Bucher, HC; Calmy, A; Cavassini, M; Ciuffi, A; Duppenthaler, A; Dollenmaier, G; Egger, M; Elzi, L; Fehr, J; Fellay, J; Francini, K; Furrer, H; Fux, CA; Grawe, C; Gunthard, HF; Haerry, D; Hasse, B; Hirsch, HH; Hoffmann, M; Hosli, I; Huber, M; Kahlert, CR; Kaiser, L; Keiser, O; Klimkait, T; Kottanattu, L; Kouyos, RD; Kovari, H; Ledergerber, B; Martinetti, G; de Tejada, BM; Marzolini, C; Metzner, KJ; Muller, N; Nicca, D; Paioni, P; Pantaleo, G; Perreau, M; Polli, C; Rauch, A; Rudin, C; Scherrer, AU; Schmid, P; Speck, R; Stockle, M; Tarr, P; Lecompte, MT; Trkola, A; Vernazza, P; Wagner, N; Wandeler, G; Weber, R; Wyler, CA; Yerly, S; Wannarit, P; Techakunakorn, P; Hansudewechakul, R; Wanchaitanawong, V; Theansavettrakul, S; Nanta, S; Ngampiyaskul, C; Phanomcheong, S; Hongsiriwon, S; Karnchanamayul, W; Kwanchaipanich, R; Kanjanavanit, S; Kamonpakorn, N; Nantarukchaikul, M; Layangool, P; Mekmullica, J; Lucksanapisitkul, P; Watanayothin, S; Lertpienthum, N; Warachit, B; Hanpinitsak, S; Potchalongsin, S; Thanasiri, P; Krikajornkitti, S; Attavinijtrakarn, P; Srirojana, S; Bunjongpak, S; Puangsombat, A; Na-Rajsima, S; Ananpatharachai, P; Akarathum, N; Lawtongkum, W; An, PK; Suriyaboon, T; Saipanya, A; Than-in-at, K; Jaisieng, N; Suaysod, R; Chailoet, S; Naratee, N; Kawilapat, S; Lyall, H; Bamford, A; Butler, K; Doherty, C; Foster, C; Francis, K; Harrison, I; Kenny, J; Klein, N; Letting, G; McMaster, P; Murau, F; Nsangi, E; Peters, H; Prime, K; Riordan, A; Shackley, F; Shingadia, D; Storey, S; Tudor-Williams, G; Turkova, A; Welch, S; Collins, IJ; Cook, C; Dobson, D; Fairbrother, K; Harper, L; Le Prevost, M; Van Looy, N; Butler, K; Walsh, A; Thrasyvoulou, L; Welch, S; Bernatoniene, J; Manyika, F; Sharpe, G; Subramaniam, B; Sloper, K; Fidler, K; Hague, R; Price, V; Clapson, M; Flynn, J; Abou-Rayyah, ACM; Klein, N; Shingadia, D; Gurtin, D; Yeadon, S; Segal, S; Ball, C; Hawkins, S; Dowie, M; Bandi, S; Percival, E; Eisenhut, M; Duncan, K; Clough, S; Anguvaa, L; Conway, S; Flood, T; Pickering, A; Murphy, PMC; Daniels, J; Lees, Y; Thompson, F; Williams, B; Pope, S; Cliffe, L; Smyth, A; Southall, S; Freeman, A; Freeman, H; Christie, S; Gordon, A; Clarke, DRL; Jones, L; Offerman, B; Greenberg, M; Benson, C; Riordan, A; Ibberson, L; Shackley, F; Faust, SN; Hancock, J; Doerholt, K; Prime, K; Sharland, M; Storey, S; Lyall, H; Monrose, C; Seery, P; Tudor-Williams, G; Menson, E; Callaghan, A; Bridgwood, A; McMaster, P; Evans, J; Blake, E; Yannoulias, A; European Pregnancy Paediat HIV Coh. Height and timing of growth spurt during puberty in young people living with vertically acquired HIV in Europe and Thailand. AIDS. 2019; 33(7) 1155-1165. FI: 4.511. Cuartil: 1. (Article).*

- *Chan, MK; Goodall, R; Judd, A; Klein, N; Chiappini, E; Klimkait, T; Ngo-Giang-Huong, N; Palma, P; Rossi, P; Thorne, C; Turkova, A; Zangari, P; Rojo, P; Babiker, AGA; Fraaij, PL; Pajkrt, D; Marques, L; Collins, IJ; Gibb, DM; Gonzalez-Tome, MI; Ramos, JT; Navarro, ML; Noguera-Julian, A; Warszawski, J; Konigs, C; Spoulou, V; Prata, F; Goetghebuer, T; Galli, L; Naver, L; Giaquinto, C; Marczynska, M; Okhonskaia, L; Malyuta, R; Volokha, A; Ene, L; Gibb, D; Watters, S; Chan, M; McCoy, L; Babiker, A; Marcelin, AG; Calvez, V; Munoz, MA; Wahren, B; Foster, C; Cotton, M; Robb, M; Ananworanich, J; Claiden, P; Pillay, D; Persaud, D; De Boer, RJ; Schroter, J; Anelone, AJN; Puthanakit, T; Ceci, A; Giannuzzi, V; Luzuriaga, K; Chomont, N; Cameron, M; Cancrini, C; Yates, A; Kuhn, L; Violari, A; Otwombe, K; Pepponi, I; Rocchi, F; Rinaldi, S; Tagarro, A; Lain, MG; Vaz, P; Lopez, E; Nhampossa, T; European Pregnancy Paediat HIV Coh; Early-Treated Perinatally. Predictors of faster virological suppression in early treated infants with perinatal HIV from Europe and Thailand The European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) and Early-treated Perinatally HIV-infected Individuals: Improving Chi. AIDS. 2019; 33(12) 1897-1910. FI: 4.511. Cuartil: 1. (Article).*

- *Genebat, M; Tarancon-Diez, L; Pulido, I; Alvarez-Rios, AI; Munoz-Fernandez, MA; Ruiz-Mateos, E; Leal, M. Hepatitis C virus and cumulative infections are associated with atherogenic cardiovascular events in HIV-infected subjects. ANTIVIRAL RESEARCH. 2019; 169 -. FI: 4.101. Cuartil: 1. (Article).*

- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez,*

*NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *Barrios-Gumiel, A; Sepulveda-Crespo, D; Jimenez, JL; Gomez, R; Munoz-Fernandez, MA; de la Mata, FJ. Dendronized magnetic nanoparticles for HIV-1 capture and rapid diagnostic. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 181 360-368. FI: 4.389. Cuartil: 1. (Article).*

- *Rodriguez-Fonseca, RA; Bello, M; de los Munoz-Fernandez, MA; Jimenez, JL; Rojas-Hernandez, S; Fragoso-Vazquez, MJ; Gutierrez-Sanchez, M; Rodrigues, J; Cayetano-Castro, N; Borja-Urby, R; Rodriguez-Cortes, O; Garcia-Machorro, J; Correa-Basurto, J. In silico search, chemical characterization and immunogenic evaluation of amino-terminated G4-PAMAM-HIV peptide complexes using three-dimensional models of the HIV-1 gp120 protein. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 177 77-93. FI: 4.389. Cuartil: 1. (Article).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy*

*of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Gutierrez-Ulloa, CE; Sepulveda-Crespo, D; Garcia-Broncano, P; Maly, M; Munoz-Fernandez, MA; de la Mata, FJ; Gomez, R. Synthesis of bow-tie carbosilane dendrimers and their HIV antiviral capacity: A comparison of the dendritic topology on the biological process. EUROPEAN POLYMER JOURNAL. 2019; 119 200-212. FI: 3.862. Cuartil: 1. (Article).*

- *Martin-Moreno, A; Munoz-Fernandez, MA. Dendritic Cells, the Double Agent in the War Against HIV-1. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Review).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Guerrero-Beltran, C; Prieto, A; Leal, M; Jimenez, JL; Munoz-Fernandez, MA. Combination of G2-S16 dendrimer/dapivirine antiretroviral as a new HIV-1 microbicide. FUTURE MEDICINAL CHEMISTRY. 2019; 11(23) 3005-3013. FI: 3.607. Cuartil: 2. (Article).*

- *Cena-Diez, R; Martin-Moreno, A; de la Mata, FJ; Gomez-Ramirez, R; Munoz, E; Ardoys, M; Munoz-Fernandez, MA. G1-S4 or G2-S16 carbosilane dendrimer in combination with Platycodin D as a promising vaginal microbicide candidate with contraceptive activity. INTERNATIONAL JOURNAL OF NANOMEDICINE. 2019; 14 2371-2380. FI: 5.115. Cuartil: 1. (Article).*

- *Dominguez-Rodriguez, S; Tagarro, A; Palma, P; Foster, C; Puthanakit, T; Jupimai, T; Cotugno, N; Ananworanich, J; Zangari, P; Nastouli, E; Munoz-Fernandez, MA; Navarro, ML; Giaquinto, C; Rossi, P; Kuhn, L; Rojo, P; EPIICAL Consortium. Reduced Time to Suppression Among Neonates With HIV Initiating Antiretroviral Therapy Within 7 Days After Birth. JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES. 2019; 82(5) 483-490. FI: 3.475. Cuartil: 2. (Article).*

- *Alvarez, M; Casas, P; de Salazar, A; Chueca, N; Guerrero-Beltran, C; Rodriguez, C; Imaz, A; Espinosa, N; Garcia-Bujalance, S; Perez-Elias, MJ; Garcia-Alvarez, M; Iribarren, JA; Santos, J; Aguilera, A; Vinuesa, D; Pierola, B; Molina, JM; Peraire, J; Portilla, I; Gomez-Sirvent, JL; Olalla, J; Galera, C; Blanco, JR; Riera, M; Garcia-Fraile, L; Navarro, G; Curran, A; Poveda, E; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; CoRIS. Surveillance of transmitted drug resistance to integrase inhibitors in Spain: implications for clinical practice. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1693-1700. FI: 5.439. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Bellon, JM; Rodriguez, C; Riera, M; Portilla, J; Castro, A; Munoz-Fernandez, MA; Resino, S. DBP rs16846876 and rs12512631 polymorphisms are associated with progression to AIDS naive HIV-infected patients: a retrospective study. JOURNAL OF BIOMEDICAL SCIENCE. 2019; 26(1) -. FI: 5.762. Cuartil: 1. (Article).*

- *Martinez-Bonet, M; Munoz-Fernandez, MA; Alvarez, S. HIV-1 increases extracellular amyloid-beta levels through neprilysin regulation in primary cultures of human astrocytes. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(5) 5880-5887. FI: 5.546. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Ruiz-de-Leon, MJ; Jimenez-Sousa, MA; Moreno, S; Garcia, M; Gutierrez-Rivas, M; Leon, A; Montero-Alonso, M; Gonzalez-Garcia, J; Resino, S; Rallon, N; Benito, JM; Vallejo, A; Benito, JM; Ratlon, N; Restrepo, C; Rodriguez, N; Garcia, M; Cabello, A; Gorgolas, M; Resino, S; Briz, V; Jimenez, MA; Vazquez, MS; Fernandez, A; Garcia, P; Munoz, MA; Sanchez, J; Jimenez, JL; Sepulveda, D; Garcia, I; Consuegra, I; Leon, A; Arnedo, M; Plana, M; Climent, N; Garcia, F; Ruiz-Mateos, E; Dominguez, B; Tarancon, L; Rafii-Elddrissi, M; Polaino, MJ; Genebat, M; Viciana, P; Leal, M; Vidal, F; Rodriguez, E; Vilades, C; Peraire, J; Romero, J; Rodriguez, C; Vera, M; Este, J; Ballana, E; Martinez, MA; Franco, S; Nevot, M; Vallejo, A; Moreno, S; Pernas, M; Casado, C; Lopez, C; Capa, L; Perez, M; Alcami, J; Sanjuan, R; Cuevas, JM; Delgado, R; Sierra, O; ECRIS Network Integrated Spanish A. Lower expression of plasma-derived exosome miR-21 levels in HIV-1 elite controllers with decreasing CD4 T cell count. JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. 2019; 52(4) 667-671. FI: 3.493. Cuartil: 2. (Article).*

- *Relano-Rodriguez, I; Juarez-Sanchez, R; Pavicic, C; Munoz, E; Munoz-Fernandez, MA. Polyanionic carbosilane dendrimers as a new adjuvant in combination with latency reversal agents for HIV treatment. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Martin-Moreno, A; Sepulveda-Crespo, D; Serramia-Lobera, MJ; Perise-Barrios, AJ; Munoz-Fernandez, MA. G2-S16 dendrimer microbicide does not interfere with the vaginal immune system. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Rodriguez-Izquierdo, I; Natalia, C; Garcia, F; Munoz-Fernandez, MD. G2-S16 sulfonate dendrimer as new therapy for treatment failure in HIV-1 entry inhibitors. NANOMEDICINE. 2019; 14(9) 1095-1107. FI: 4.3. Cuartil: 1. (Article).*

- *Maciel, D; Guerrero-Beltran, C; Cena-Diez, R; Tomas, H; Munoz-Fernandez, MA; Rodrigues, J. New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. NANOSCALE. 2019; 11(19) 9679-9690. FI: 6.895. Cuartil: 1. (Article).*

- *Guillen, S; Prieto, L; de Ory, SJ; Gonzalez-Tome, MI; Rojo, P; Navarro, ML; Mellado, MJ; Escosa, L; Sainz, T; Francisco, L; Munoz-Fernandez, MA; Ramos, JT; Hortelano, MG; Blazquez, D; Epalza, C; Saavedra, J; Santos, M; Munoz, MA; Santiago, B; Carrasco, I; Roa, MA; Beceiro, J; Penin, M; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Peromingo, E; Montero, M; Grande, A; Romero, FJ; Perez, C; Martinez, M; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Vila, L; Calvino, C; Piqueras, AI; Breton, R; Oltra, M; Lopez, E; Segarra, I; Gavilan, C; Montesinos, E; Dapena, M; Alvarez, C; Jimenez, B; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; del Prado, YR; Soler-Palacin, P; Frick, MA; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Pineda, V; Rius, N; Duenas, J; Fortuny, C; Noguera-Julian, A; CoRISpe Cohorte Nacl VIH Pediat RE. Prognostic factors of a lower CD4/CD8 ratio in long term viral suppression HIV infected children. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Asensi, V; Jarrin, I; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; De la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustin-Duy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Sanvisens, A; Fuster, D; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Arazo, P; Samperiz, G; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Curran, A; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ugarte, SI; Beneitez, OLF; de Munain, JL; Lopez, MMC; de la Pena, M; Lopez, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Anguita, CG; Rabasa, JTA; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS Cohort. Choice of the initial antiretroviral treatment for HIV-positive individuals in the era of integrase inhibitors. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Restrepo, C; Gutierrez-Rivas, M; Pacheco, YM; Garcia, M; Blanco, J; Medrano, LM; Navarrete-Munoz, MA; Gutierrez, F; Miralles, P; Dalmau, D; Gomez, JL; Gorgolas, M; Cabello, A; Resino, S; Benito, JM; Rallon, N; Munoz-Fernandez, MA; Spanish AIDS Res Network Project. Genetic variation in CCR2 and CXCL12 genes impacts on CD4 restoration in patients initiating cART with advanced immunesupression. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gutierrez, C; Lopez-Abente, J; Perez-Fernandez, V; Prieto-Sanchez, A; Correa-Rocha, R; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Jiménez de Ory S; Ramos JT; Fortuny C; González-Tomé MI; Mellado MJ; Moreno D; Gavilán C; Menasalvas AI; Piqueras AI; Frick MA; Muñoz-Fernández MA; Navarro ML; CoRISpe Cohort Working Group. Sociodemographic changes and trends in the rates of new perinatal HIV diagnoses and transmission in Spain from 1997 to 2015. PLOS ONE. 2019; 14(10) -. FI: 2.74. Cuartil: 2. (Article).*

- *Macchione, MA; Guerrero-Beltran, C; Rosso, AP; Euti, EM; Martinelli, M; Strumia, MC; Munoz-Fernandez, MA. Poly(N-vinylcaprolactam) Nanogels with Antiviral Behavior against HIV-1 Infection. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

## *Experimental operating room*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Morillas-Sendin, P; del Canizo, JF; Ruiz, M; Delgado-Baeza, E; Quintana-Villamandos, B. Randomized comparison of sevoflurane versus propofol on organ blood flow after partial thoracic aortic cross-clamping. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. 2019; 12(1) 1226-1233. FI: 0.166. Cuartil: 4. (Article).*

## *Medical Imaging laboratory*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***
***:***

- *del Campo, L; Sanchez-Lopez, A; Salaices, M; von Kleeck, RA; Exposito, E; Gonzalez-Gomez, C; Cusso, L; Guzman-Martinez, G; Ruiz-Cabello, J; Desco, M; Assoian, RK; Briones, AM; Andres, V. Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. AGING CELL. 2019; 18(3) -. FI: 7.238. Cuartil: 1. (Article).*

- *Rioboo, RJJ; Desco, M; Gomez-Gaviro, MV. Impact of optical tissue clearing on the Brillouin signal from biological tissue samples. BIOMEDICAL OPTICS EXPRESS. 2019; 10(6) 2674-2683. FI: 3.921. Cuartil: 1. (Article).*
- *Pena-Zalbidea, S; Huang, AYT; Kavunja, HW; Salinas, B; Desco, M; Drake, C; Woodruff, PJ; Vaquero, JJ; Swarts, BM. Chemoenzymatic radiosynthesis of 2-deoxy-2-[(18)F]fluoro-d-trehalose ([(18)F]-2-FDTre): A PET radioprobe for in vivo tracing of trehalose metabolism. CARBOHYDRATE RESEARCH. 2019; 472 16-22. FI: 1.841. Cuartil: 2. (Article).*
- *Martinez, A; Garcia-Santos, A; Ballesteros, N; Desco, M; Abella, M. XAP-Lab: A software tool for designing flexible X-ray acquisition protocols. COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE. 2019; 177 243-252. FI: 3.632. Cuartil: 1. (Article).*
- *Casquero-Veiga, M; Garcia-Garcia, D; MacDowell, KS; Perez-Caballero, L; Torres-Sanchez, S; Fraguas, D; Berrocoso, E; Leza, JC; Arango, C; Desco, M; Soto-Montenegro, ML. Risperidone administered during adolescence induced metabolic, anatomical and inflammatory/oxidative changes in adult brain: A PET and MRI study in the maternal immune stimulation animal model. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2019; 29(7) 880-896. FI: 3.853. Cuartil: 1. (Article).*
- *Albert-Smet, I; Marcos-Vidal, A; Vaquero, JJ; Desco, M; Munoz-Barrutia, A; Ripoll, J. Applications of Light-Sheet Microscopy in Microdevices. FRONTIERS IN NEUROANATOMY. 2019; 13 -. FI: 3.292. Cuartil: 1. (Review).*
- *Moreno-Conde, A; Parra-Calderon, CL; Sanchez-Seda, S; Escobar-Rodriguez, GA; Lopez-Otero, M; Cusso, L; del-Cerro-Garcia, R; Segura-Sanchez, M; Herrero-Uriguen, L; Marti-Ras, N; Alberti-Ibarz, M; Desco, M. ITEMAS ontology for healthcare technology innovation. HEALTH RESEARCH POLICY AND SYSTEMS. 2019; 17 -. FI: 2.365. Cuartil: 2. (Article).*
- *Pretus, C; Marcos-Vidal, L; Martinez-Garcia, M; Picado, M; Ramos-Quiroga, JA; Richarte, V; Castellanos, FX; Sepulcre, J; Desco, M; Vilarroya, O; Carmona, S. Stepwise functional connectivity reveals altered sensory-multimodal integration in medication-naive adults with attention deficit hyperactivity disorder. HUMAN BRAIN MAPPING. 2019; 40(16) 4645-4656. FI: 4.421. Cuartil: 1. (Article).*
- *Carmona, S; Martinez-Garcia, M; Paternina-Die, M; Barba-Muller, E; Wierenga, LM; Aleman-Gomez, Y; Pretus, C; Marcos-Vidal, L; Beumala, L; Cortizo, R; Pozzobon, C; Picado, M; Lucco, F; Garcia-Garcia, D; Soliva, JC; Tobena, A; Peper, JS; Crone, EA; Ballesteros, A; Vilarroya, O; Desco, M; Hoekzema, E. Pregnancy and adolescence entail similar neuroanatomical adaptations: A comparative analysis of cerebral morphometric changes. HUMAN BRAIN MAPPING. 2019; 40(7) 2143-2152. FI: 4.421. Cuartil: 1. (Article).*
- *Ariz, M; Abad, RC; Castellanos, G; Martinez, M; Munoz-Barrutia, A; Fernandez-Seara, MA; Pastor, P; Pastor, MA; Ortiz-de-Solorzano, C. Dynamic Atlas-Based Segmentation and Quantification of Neuromelanin-Rich Brainstem Structures in Parkinson Disease. IEEE TRANSACTIONS ON MEDICAL IMAGING. 2019; 38(3) 813-823. FI: 6.685. Cuartil: 1. (Article).*
- *del Villar, CP; Martinez-Legazpi, P; Mombiela, T; Chazo, C; Desco, M; Rodriguez-Perez, D; Benito, Y; Barrio, A; Gutierrez-Ibanes, E; del Alamo, JC; Elizaga, J; Antoranz, JC; Fernandez-Aviles, F; Yotti, R; Bermejo, J. The natural matching of harmonic responses in the pulmonary circulation. JOURNAL OF PHYSIOLOGY-LONDON. 2019; 597(15) 3853-3865. FI: 4.547. Cuartil: 1. (Article).*
- *Salinas B; Guembe M; Cussó L; Kestler M; Guinea J; Desco M; Muñoz P; Bouza E. Assessment of the anti-biofilm effect of micafungin in an animal model of catheter-related candidemia. MEDICAL MYCOLOGY. 2019; 57(4) 496-503. FI: 2.822. Cuartil: 1. (Article).*
- *Cussó L; Musteanu M; Mulero F; Barbacid M; Desco M. Effects of a Ketogenic Diet on [F-18]FDG-PET Imaging in a Mouse Model of Lung Cancer. MOLECULAR IMAGING AND BIOLOGY. 2019; 21(2) 279-285. FI: 2.925. Cuartil: 2. (Article).*
- *Gordaliza, PM; Munoz-Barrutia, A; Via, LE; Sharpe, S; Desco, M; Vaquero, JJ. Computed Tomography-Based Biomarker for Longitudinal Assessment of Disease Burden in Pulmonary Tuberculosis. MOLECULAR IMAGING AND BIOLOGY. 2019; 21(1) 19-24. FI: 2.925. Cuartil: 2. (Article).*
- *Benito, ER; Chil, R; Udias, JM; Desco, M; Vaquero, JJ. SiPM-based PET detector module for a 4 pi span scanner. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. 2019; 936 18-21. FI: 1.265. Cuartil: 3. (Review).*
- *Salagre, E; Arango, C; Artigas, F; Ayuso-Mateos, JL; Bernardo, M; Castro-Fornieles, J; Bobes, J; Desco, M; Fananas, L; Gonzalez-Pinto, A; Haro, JM; Leza, JC; Mckenna, PJ; Meana, JJ; Menchon, JM; Mico, JA; Palomo, T; Pazos, A; Perez, V; Saiz-Ruiz, J; Sanjuan, J; Tabares-Seisdedos, R; Crespo-Facorro, B; Casas, M; Vilella, E; Palao, D; Olivares, JM; Rodriguez-Jimenez, R; Vieta, E. CIBERSAM: Ten years of collaborative translational research in mental disorders. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2019; 12(1) 1-8. FI: 2.63. Cuartil: 2. (Editorial Material).*
- *Garcia-Mato, D; Ochandiano, S; Garcia-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; Garcia-Leal, R; Calvo-Haro, JA; Perez-Mananes, R; Salmeron, JI; Pascau, J. Craniosynostosis surgery: workflow based on virtual surgical planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*
- *Ortega-Gil, Ana; Vaquero, Juan Jose; Gonzalez-Arjona, Mario; Rullas, Joaquin; Munoz-Barrutia, Arrate. X-ray-based virtual slicing of TB-infected lungs. SCIENTIFIC REPORTS. 2019; 9(1) 19404-19404. FI: 3.998. Cuartil: 1. (Article).*
- *Gomez-de-Mariscal, E; Maska, M; Kotrbova, A; Pospichalova, V; Matula, P; Munoz-Barrutia, A. Deep-Learning-Based Segmentation of Small Extracellular Vesicles in Transmission Electron Microscopy Images. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Hu, J; Gorsak, T; Rodriguez, EM; Calle, D; Munoz-Ortiz, T; Jaque, D; Fernandez, N; Cusso, L; Rivero, F; Torres, RA; Sole, JG; Mertelj, A; Makovec, D; Desco, M; Lisjak, D; Alfonso, F; Sanz-Rodriguez, F; Ortgies, DH. Magnetic Nanoplatelets for High Contrast Cardiovascular Imaging by Magnetically Modulated Optical Coherence Tomography. CHEMPHOTOCHEM. 2019; 3(7) 529-539. (Article).*

- *Gordaliza, PM; Vaquero, JJ; Sharpe, S; Gleeson, F; Munoz-Barrutia, A. Tuberculosis Lesions in CT Images Inferred using 3D-CNN and Multi-Task Learning. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 294-297. (Proceedings Paper).*

- *Alfano, F; Fisac, JEO; Garcia-Sevilla, M; Conde, MH; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. PRONE TO SUPINE SURFACE BASED REGISTRATION WORKFLOW FOR BREAST TUMOR LOCALIZATION IN SURGICAL PLANNING. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).*

- *Polatoglu, MN; Liu, Y; Ni, RQ; Ripoll, J; Rudin, M; Wolf, M; Ren, WW. Simulation of Fluorescence Molecular Tomography using a Registered Digital Mouse Atlas. PROCEEDINGS OF SPIE. 2019; 11072 -. (Proceedings Paper).*

- *Arias-Valcayo, F; Herraiz, JL; Galve, P; Vaquero, JJ; Desco, M; Udias, JM. Awake preclinical brain PET imaging based on point sources. PROCEEDINGS OF SPIE. 2019; 11074 -. (Proceedings Paper).*

## *Flow Citometry and cell sorter Unit*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Chan, MK; Goodall, R; Judd, A; Klein, N; Chiappini, E; Klimkait, T; Ngo-Giang-Huong, N; Palma, P; Rossi, P; Thorne, C; Turkova, A; Zangari, P; Rojo, P; Babiker, AGA; Fraaij, PL; Pajkrt, D; Marques, L; Collins, IJ; Gibb, DM; Gonzalez-Tome, MI; Ramos, JT; Navarro, ML; Noguera-Julian, A; Warszawski, J; Konigs, C; Spoulou, V; Prata, F; Goetghebuer, T; Galli, L; Naver, L; Giaquinto, C; Marczynska, M; Okhonskaia, L; Malyuta, R; Volokha, A; Ene, L; Gibb, D; Watters, S; Chan, M; McCoy, L; Babiker, A; Marcelin, AG; Calvez, V; Munoz, MA; Wahren, B; Foster, C; Cotton, M; Robb, M; Ananworanich, J; Claiden, P; Pillay, D; Persaud, D; De Boer, RJ; Schroter, J; Anelone, AJN; Puthanakit, T; Ceci, A; Giannuzzi, V; Luzuriaga, K; Chomont, N; Cameron, M; Cancrini, C; Yates, A; Kuhn, L; Violari, A; Otwombe, K; Pepponi, I; Rocchi, F; Rinaldi, S; Tagarro, A; Lain, MG; Vaz, P; Lopez, E; Nhampossa, T; European Pregnancy Paediat HIV Coh; Early-Treated Perinatally. Predictors of faster virological suppression in early treated infants with perinatal HIV from Europe and Thailand The European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) and Early-treated Perinatally HIV-infected Individuals: Improving Chi. AIDS. 2019; 33(7) 1155-1165. FI: 4.511. Cuartil: 1. (Article).*

- *Crichton, S; Belfrage, E; Collins, IJ; Doerholt, K; Judd, A; Le Coeur, S; Spoulou, V; Goodall, R; Scherpbier, H; Smit, C; Goetghebuer, T; Gibb, DM; Noguera, A; Navarro, ML; Ramos, JT; Galli, L; Giaquinto, C; Thorne, C; Santa Ansone; Marczynska, M; Okhonskaia, L; de Tejada, BM; Jourdain, G; Decker, L; Ene, L; Hainaut, M; Van der Kelen, E; Delforge, M; de Martino, M; Tovo, PA; Patrizia, O; Larovere, D; Ruggeri, M; Faldella, G; Baldi, F; Badolato, R; Montagnani, C; Venturini, E; Lisi, C; Di Biagio, A; Taramasso, L; Giacomet, V; Erba, P; Esposito, S; Lipreri, R; Salvini, F; Tagliabue, C; Cellini, M; Bruzzese, E; Lo Vecchio, A; Rampon, O; Dona, D; Romano, A; Dodi, I; Maccabruni, A; Consolini, R; Bernardi, S; Kuekou, HT; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Gabiano, C; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijsenfeld, AM; de Boer, CG; Jurriaans, S; Back, NKT; Zaaijer, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; Vermont, CL; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriet, SSV; van de Flier, M; van Aerde, K; Strik-Albers, R; Rahamat-Langendoen, J; Stelma, FF; Scholvinck, EH; de Groot-de Jonge, H; Niesters, HGM; van Leer-Buter, CC; Knoester, M; Bont, LJ; Geelen, SPM; Wolfs, TFW; Nauta, N; Schuurman, R; Verduyn-Lunel, F; Wensing, AMJ; Reiss, P; Zaheri, S; Bezemer, DO; van Sighem, AI; Smit, C; Wit, FWMN; Hillebregt, M; de Jong, A; Woudstra, T; Bergsma, D; Grivell, S; Meijering, R; Raethke, M; Rutkens, T; de Groot, L; van den Akker, M; Bakker, Y; Bezemer, M; El Berkaoui, A; Geerlinks, J; Koops, J; Kruijne, E; Lodewijk, C; Lucas, E; van der Meer, R; Munjishvili, L; Paling, E; Peeck, B; Ree, C; Regtop, R; Ruijs, Y; van de Sande, L; Schoorl, M; Schnorr, P; Tuijn, E; Veenenberg, L; van der Vliet, S; Wisse, A; Witte, EC; Tuk, B; Popielska, J; Pokorska-Spiewak, M; Oldakowska, A; Zawadka, K; Coupland, U; Doroba, M; Voronin, E; Miloenko, M; Labutina, S; Soler-Palacin, P; Frick, MA; Perez-Hoyos, S; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Coll, M; Pineda, V; Rius, N; Rovira, N; Duenas, J; Gamell, A; Fortuny, C; Noguera-Julian, A; Mellado, MJ; Escosa, L; Hortelano, MG; Sainz, T; Gonzalez-Tome, MI; Rojo, P; Blazquez, D; Prieto, L; Guillen, S; Saavedra, J; Santos, M; Munoz, MA; Ruiz, B; Mc Phee, CF; de Ory, SJ; Alvarez, S; Roa, MA; Beceiro, J; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Montesdeoca, A; Mateo, M; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Grande, A; Romero, FJ; Perez, C; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Perez, A; Piqueras, AI; Breton, R; Segarra, I; Gavilan, C; Jareno, E; Montesinos, E; Dapena, M; Alvarez, C; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; de Miguel, E; Naver, L; Soeria-Atmadja, S; Hagas, V; Aebi-Popp, K; Anagnostopoulos, A; Asner, S; Battegay, M; Baumann, M; Bernasconi, E; Boni, J; Braun, DL; Bucher, HC; Calmy, A; Cavassini, M; Ciuffi, A; Duppenthaler, A; Dollenmaier, G; Egger, M; Elzi, L; Fehr, J; Fellay, J; Francini, K; Furrer, H; Fux, CA; Grawe, C; Gunthard, HF; Haerry, D; Hasse, B; Hirsch, HH; Hoffmann, M; Hosli, I; Huber, M; Kahlert, CR; Kaiser, L; Keiser, O; Klimkait, T; Kottanattu, L; Kouyos, RD; Kovari, H; Ledergerber, B; Martinetti, G; de Tejada, BM; Marzolini, C; Metzner, KJ; Muller, N; Nicca, D; Paioni, P; Pantaleo, G; Perreau, M; Polli, C; Rauch, A; Rudin, C; Scherrer, AU; Schmid, P; Speck, R; Stockle, M; Tarr, P; Lecompte, MT; Trkola, A; Vernazza, P; Wagner, N; Wandeler, G; Weber, R; Wyler, CA; Yerly, S; Wannarit, P; Techakunakorn, P; Hansudewechakul, R; Wanchaitanawong, V; Theansavettrakul, S; Nanta, S; Ngampiyaskul, C; Phanomcheong, S; Hongsiriwon, S; Kamchanamayul, W; Kwanchaipanich, R; Kanjanavanit, S;*

*Kamonpakorn, N; Nantarukchaikul, M; Layangool, P; Mekmullica, J; Lucksanapisitkul, P; Watanayothin, S; Lertpienthum, N; Warachit, B; Hanpinitsak, S; Potchalongsin, S; Thanasiri, P; Krikajornkitti, S; Attavinijtrakarn, P; Srirojana, S; Bunjongpak, S; Puangsombat, A; Na-Rajsima, S; Ananpatharachai, P; Akarathum, N; Lawtongkum, W; An, PK; Suriyaboon, T; Saipanya, A; Than-in-at, K; Jaisieng, N; Suaysod, R; Chailoet, S; Naratee, N; Kawilapat, S; Lyall, H; Bamford, A; Butler, K; Doherty, C; Foster, C; Francis, K; Harrison, I; Kenny, J; Klein, N; Letting, G; McMaster, P; Murau, F; Nsangi, E; Peters, H; Prime, K; Riordan, A; Shackley, F; Shingadia, D; Storey, S; Tudor-Williams, G; Turkova, A; Welch, S; Collins, IJ; Cook, C; Dobson, D; Fairbrother, K; Harper, L; Le Prevost, M; Van Looy, N; Butler, K; Walsh, A; Thrasyvoulou, L; Welch, S; Bernatoniene, J; Manyika, F; Sharpe, G; Subramaniam, B; Sloper, K; Fidler, K; Hague, R; Price, V; Clapson, M; Flynn, J; Abou-Rayyah, ACM; Klein, N; Shingadia, D; Gurtin, D; Yeadon, S; Segal, S; Ball, C; Hawkins, S; Dowie, M; Bandi, S; Percival, E; Eisenhut, M; Duncan, K; Clough, S; Anguvaa, L; Conway, S; Flood, T; Pickering, A; Murphy, PMC; Daniels, J; Lees, Y; Thompson, F; Williams, B; Pope, S; Cliffe, L; Smyth, A; Southall, S; Freeman, A; Freeman, H; Christie, S; Gordon, A; Clarke, DRL; Jones, L; Offerman, B; Greenberg, M; Benson, C; Riordan, A; Ibberson, L; Shackley, F; Faust, SN; Hancock, J; Doerholt, K; Prime, K; Sharland, M; Storey, S; Lyall, H; Monrose, C; Seery, P; Tudor-Williams, G; Menson, E; Callaghan, A; Bridgwood, A; McMaster, P; Evans, J; Blake, E; Yannoulias, A; European Pregnancy Paediat HIV Coh. Height and timing of growth spurt during puberty in young people living with vertically acquired HIV in Europe and Thailand. AIDS. 2019; 33(12) 1897-1910. FI: 4.511. Cuartil: 1. (Article).*

- *Genebat, M; Tarancon-Diez, L; Pulido, I; Alvarez-Rios, AI; Munoz-Fernandez, MA; Ruiz-Mateos, E; Leal, M. Hepatitis C virus and cumulative infections are associated with atherogenic cardiovascular events in HIV-infected subjects. ANTIVIRAL RESEARCH. 2019; 169 -. FI: 4.101. Cuartil: 1. (Article).*

- *Resino, S; Navarrete-Munoz, MA; Blanco, J; Pacheco, YM; Castro, I; Berenguer, J; Santos, J; Vera-Mendez, FJ; Gorgolas, M; Jimenez-Sousa, MAA; Benito, JM; Rallon, N; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Cabello, A; Alvarez, B; Prieto, L; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS HIV Biobank Integrated Spani. IL7RA rs6897932 Polymorphism Is Associated with Better CD4(+) T-Cell Recovery in HIV Infected Patients Starting Combination Antiretroviral Therapy. BIOMOLECULES. 2019; 9(6) -. FI: 4.082. Cuartil: 2. (Article).*

- *Barrios-Gumiel, A; Sepulveda-Crespo, D; Jimenez, JL; Gomez, R; Munoz-Fernandez, MA; de la Mata, FJ. Dendronized magnetic nanoparticles for HIV-1 capture and rapid diagnostic. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 177 77-93. FI: 4.389. Cuartil: 1. (Article).*

- *Rodriguez-Fonseca, RA; Bello, M; de los Munoz-Fernandez, MA; Jimenez, JL; Rojas-Hernandez, S; Fragoso-Vazquez, MJ; Gutierrez-Sanchez, M; Rodrigues, J; Cayetano-Castro, N; Borja-Urby, R; Rodriguez-Cortes, O; Garcia-Machorro, J; Correa-Basurto, J. In silico search, chemical characterization and immunogenic evaluation of amino-terminated G4-PAMAM-HIV peptide complexes using three-dimensional models of the HIV-1 gp120 protein. COLLOIDS AND SURFACES B-BIOINTERFACES. 2019; 181 360-368. FI: 4.389. Cuartil: 1. (Article).*

- *Gonzalez, J; Jarrin, I; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Sobrino, P; Hernando, V; Alejos, B; Alvarez, D; Jarrin, I; Sanz, N; Moreno, C; Munoz-Fernandez, MA; Garcia-Merino, I; Rico, CG; de la Fuente, JG; Torre, AG; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Asensi, V; Valle, E; Carton, JA; Carmenado, MER; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Lagarde, M; Matarranz, M; Dominguez, L; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Galparsoro, HA; Ibarguren, M; Umerez, M; Gutierrez, F; Masia, M; Padilla, S; Navarro, A;*

*Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Tor, J; Sanvisens, A; Berenguer, J; de Quiros, JCLB; Miralles, P; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Carrero, A; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-Garcia, J; Arnalich, F; Arribas, JR; Bernardino, JI; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, R; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Stella, NC; Valencia, E; Blanco, JR; Oteo, JA; Lbarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Pascual, A; Ramos, C; Arazo, P; Gil, D; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Irigoyen, C; Arraiza, MJ; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Segura, V; Navarro, M; Anton, E; Nogueras, MM; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Cano, A; Bernal, E; Munoz, A; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Perez, AB; Alvarez, M; Chueca, N; Vinuesa, D; Fernandez, JA; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Marquez, M; Viciana, I; Palacios, R; Perez, I; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Poveda, E; Pernas, B; Mena, A; Grandal, M; Castro, A; Pedreira, JD; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ibarra, S; Ferrero, O; de Munain, JL; Camara, MM; Lopez, I; de la Pena, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Campillo, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Carrera, EPC; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Prieto, JD; Garcia, EC; Puerto, MJG; Vilalta, RF; Ribera, AF; Cohort Spanish HIV Res Network Co. Reasons for noncompliance with the national guidelines for initial antiretroviral therapy of HIV-infected patients in Spain, 2010-2015. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2019; 37(9) 580-587. FI: 1.654. Cuartil: 4. (Article).*

- *Gutierrez-Ulloa, CE; Sepulveda-Crespo, D; Garcia-Broncano, P; Maly, M; Munoz-Fernandez, MA; de la Mata, FJ; Gomez, R. Synthesis of bow-tie carbosilane dendrimers and their HIV antiviral capacity: A comparison of the dendritic topology on the biological process. EUROPEAN POLYMER JOURNAL. 2019; 119 200-212. FI: 3.862. Cuartil: 1. (Article).*

- *Martin-Moreno, A; Munoz-Fernandez, MA. Dendritic Cells, the Double Agent in the War Against HIV-1. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Review).*

- *Kostaki, EG; Flampouris, A; Karamitros, T; Chueca, N; Alvarez, M; Casas, P; Alejos, B; Hatzakis, A; Garcia, F; Paraskevis, D; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Molina, JM; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Vinuesa, D; Martinez-Montes, C; Garcia, F; Guerrero-Beltran, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Aguilera, A; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Amador, C; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Pineda, JA; Macias, J; Bernal, S; Thomson, M; Delgado, E; Benito, S; Montero, V; CoRIS. Spatiotemporal Characteristics of the Largest HIV-1 CRF02_AG Outbreak in Spain: Evidence for Onward Transmissions. FRONTIERS IN MICROBIOLOGY. 2019; 10 -. FI: 4.235. Cuartil: 2. (Article).*

- *Guerrero-Beltran, C; Prieto, A; Leal, M; Jimenez, JL; Munoz-Fernandez, MA. Combination of G2-S16 dendrimer/dapivirine antiretroviral as a new HIV-1 microbicide. FUTURE MEDICINAL CHEMISTRY. 2019; 11(23) 3005-3013. FI: 3.607. Cuartil: 2. (Article).*

- *Cena-Diez, R; Martin-Moreno, A; de la Mata, FJ; Gomez-Ramirez, R; Munoz, E; Ardoys, M; Munoz-Fernandez, MA. G1-S4 or G2-S16 carbosilane dendrimer in combination with Platycodin D as a promising vaginal microbicide candidate with contraceptive activity. INTERNATIONAL JOURNAL OF NANOMEDICINE. 2019; 14 2371-2380. FI: 5.115. Cuartil: 1. (Article).*

- *Dominguez-Rodriguez, S; Tagarro, A; Palma, P; Foster, C; Puthanakit, T; Jupimai, T; Cotugno, N; Ananworanich, J; Zangari, P; Nastouli, E; Munoz-Fernandez, MA; Navarro, ML; Giaquinto, C; Rossi, P; Kuhn, L; Rojo, P; EPIICAL Consortium. Reduced Time to Suppression Among Neonates With HIV Initiating Antiretroviral Therapy Within 7 Days After Birth. JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES. 2019; 82(5) 483-490. FI: 3.475. Cuartil: 2. (Article).*

- *Alvarez, M; Casas, P; de Salazar, A; Chueca, N; Guerrero-Beltran, C; Rodriguez, C; Imaz, A; Espinosa, N; Garcia-Bujalance, S; Perez-Elias, MJ; Garcia-Alvarez, M; Iribarren, JA; Santos, J; Aguilera, A; Vinuesa, D; Pierola, B; Molina, JM; Peraire, J; Portilla, I; Gomez-Sirvent, JL; Olalla, J; Galera, C; Blanco, JR; Riera, M; Garcia-Fraile, L; Navarro, G; Curran, A; Poveda, E; Moreno, S; Jarrin, I; Dalmau, D; Navarro, ML; Gonzalez, MI; Blanco, JL; Garcia, F; Rubio, R; Iribarren, JA; Gutierrez, F; Vidal, F; Berenguer, J; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; CoRIS. Surveillance of transmitted drug resistance to integrase inhibitors in Spain: implications for clinical practice. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1693-1700. FI: 5.439. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Bellon, JM; Rodriguez, C; Riera, M; Portilla, J; Castro, A; Munoz-Fernandez, MA; Resino, S. DBP rs16846876 and rs12512631 polymorphisms are associated with progression to AIDS naive HIV-infected patients: a retrospective study. JOURNAL OF BIOMEDICAL SCIENCE. 2019; 26(1) -. FI: 5.762. Cuartil: 1. (Article).*

- *Martinez-Bonet, M; Munoz-Fernandez, MA; Alvarez, S. HIV-1 increases extracellular amyloid-beta levels through neprilysin regulation in primary cultures of human astrocytes. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(5) 5880-5887. FI: 5.546. Cuartil: 1. (Article).*

- *Jimenez-Sousa, MA; Jimenez, JL; Fernandez-Rodriguez, A; Brochado-Kith, O; Bellon, JM; Bernal-Morell, E; Munoz-Fernandez, MA; Resino, S; del Amo, J; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Del Amo, J; Jarrin, I; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; de la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustinduy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Mohamed-Balghata, MO; Vidal, MAG; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ; Pineda, JA; CoRIS; Spanish HIV HGM BioBank; LTNPs Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. JOURNAL OF CLINICAL MEDICINE. 2019; 8(3) -. FI: 3.303. Cuartil: 1. (Article).*

- *Ruiz-de-Leon, MJ; Jimenez-Sousa, MA; Moreno, S; Garcia, M; Gutierrez-Rivas, M; Leon, A; Montero-Alonso, M; Gonzalez-Garcia, J; Resino, S; Rallon, N; Benito, JM; Vallejo, A; Benito, JM; Ratlon, N; Restrepo, C; Rodriguez, N; Garcia, M; Cabello, A; Gorgolas, M; Resino, S; Briz, V; Jimenez, MA; Vazquez, MS; Fernandez, A; Garcia, P; Munoz, MA; Sanchez, J; Jimenez, JL; Sepulveda, D; Garcia, I; Consuegra, I; Leon, A; Arnedo, M; Plana, M; Climent, N; Garcia, F; Ruiz-Mateos, E; Dominguez, B; Tarancon, L; Rafii-Elddrissi, M; Polaino, MJ; Genebat, M; Viciana, P; Leal, M; Vidal, F; Rodriguez, E; Vilades, C; Peraire, J; Romero, J; Rodriguez, C; Vera, M; Este, J; Ballana, E; Martinez, MA; Franco, S; Nevot, M; Vallejo, A; Moreno, S; Pernas, M; Casado, C; Lopez, C; Capa, L; Perez, M; Alcami, J; Sanjuan, R; Cuevas, JM; Delgado, R; Sierra, O; ECRIS Network Integrated Spanish A. Lower expression of plasma-derived exosome miR-21 levels in HIV-1 elite controllers with decreasing CD4 T cell count. JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION. 2019; 52(4) 667-671. FI: 3.493. Cuartil: 2. (Article).*

- *Relano-Rodriguez, I; Juarez-Sanchez, R; Pavicic, C; Munoz, E; Munoz-Fernandez, MA. Polyanionic carbosilane dendrimers as a new adjuvant in combination with latency reversal agents for HIV treatment. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Martin-Moreno, A; Sepulveda-Crespo, D; Serramia-Lobera, MJ; Perise-Barrios, AJ; Munoz-Fernandez, MA. G2-S16 dendrimer microbicide does not interfere with the vaginal immune system. JOURNAL OF NANOBIOTECHNOLOGY. 2019; 17 -. FI: 6.518. Cuartil: 1. (Article).*

- *Rodriguez-Izquierdo, I; Natalia, C; Garcia, F; Munoz-Fernandez, MD. G2-S16 sulfonate dendrimer as new therapy for treatment failure in HIV-1 entry inhibitors. NANOMEDICINE. 2019; 14(9) 1095-1107. FI: 4.3. Cuartil: 1. (Article).*

- *Maciel, D; Guerrero-Beltran, C; Cena-Diez, R; Tomas, H; Munoz-Fernandez, MA; Rodrigues, J. New anionic poly(alkylideneamine) dendrimers as microbicide agents against HIV-1 infection. NANOSCALE. 2019; 11(19) 9679-9690. FI: 6.895. Cuartil: 1. (Article).*

- *Jiménez de Ory S; Ramos JT; Fortuny C; González-Tomé MI; Mellado MJ; Moreno D; Gavilán C; Menasalvas AI; Piqueras AI; Frick MA; Muñoz-Fernández MA; Navarro ML; CoRISpe Cohort Working Group. Sociodemographic changes and trends in the rates of new perinatal HIV diagnoses and transmission in Spain from 1997 to 2015. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Restrepo, C; Gutierrez-Rivas, M; Pacheco, YM; Garcia, M; Blanco, J; Medrano, LM; Navarrete-Munoz, MA; Gutierrez, F; Miralles, P; Dalmau, D; Gomez, JL; Gorgolas, M; Cabello, A; Resino, S; Benito, JM; Rallon, N; Munoz-Fernandez, MA; Spanish AIDS Res Network Project. Genetic variation in CCR2 and CXCL12 genes impacts on CD4 restoration in patients initiating cART with advanced immunesupression. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Gutierrez, C; Lopez-Abente, J; Perez-Fernandez, V; Prieto-Sanchez, A; Correa-Rocha, R; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(8) -. FI: 2.74. Cuartil: 2. (Article).*

- *Guillen, S; Prieto, L; de Ory, SJ; Gonzalez-Tome, MI; Rojo, P; Navarro, ML; Mellado, MJ; Escosa, L; Sainz, T; Francisco, L; Munoz-Fernandez, MA; Ramos, JT; Hortelano, MG; Blazquez, D; Epalza, C; Saavedra, J; Santos, M; Munoz, MA; Santiago, B; Carrasco, I; Roa, MA; Beceiro, J; Penin, M; Martinez, J; Badillo, K; Apilanez, M; Pocheville, I; Garrote, E; Colino, E; Sirvent, JG; Garzon, M; Roman, V; Munoz, MJ; Angulo, R; Neth, O; Falcon, L; Terol, P; Santos, JL; Moreno, D; Lendinez, F; Peromingo, E; Montero, M; Grande, A; Romero, FJ; Perez, C; Martinez, M; Lillo, M; Losada, B; Herranz, M; Bustillo, M; Guerrero, C; Collado, P; Couceiro, JA; Vila, L; Calvino, C; Piqueras, AI; Breton, R; Oltra, M; Lopez, E; Segarra, I; Gavilan, C; Montesinos, E; Dapena, M; Alvarez, C; Jimenez, B; Andres, AG; Marugan, V; Ochoa, C; Alfayate, S; Menasalvas, AI; del Prado, YR; Soler-Palacin, P; Frick, MA; Mur, A; Lopez, N; Mendez, M; Mayol, L; Vallmanya, T; Calavia, O; Garcia, L; Pineda, V; Rius, N; Duenas, J; Fortuny, C; Noguera-Julian, A; CoRISpe Cohorte Nacl VIH Pediat RE. Prognostic factors of a lower CD4/CD8 ratio in long term viral suppression HIV infected children. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).*

- *Asensi, V; Jarrin, I; Navarro, ML; Gonzalez, MI; Blanco, JL; Gonzalez, J; Alejos, B; Hernando, V; Moreno, C; Iniesta, C; Sousa, LMG; Perez, NS; Munoz-Fernandez, MA; Garcia-Merino, IM; Fernandez, IC; Rico, CG; De la Fuente, JG; Concejo, PP; Portilla, J; Merino, E; Reus, S; Boix, V; Giner, L; Gadea, C; Portilla, I; Pampliega, M; Diez, M; Rodriguez, JC; Sanchez-Paya, J; Gomez, JL; Hernandez, J; Aleman, MR; Alonso, MD; Hernandez, MI; Diaz-Flores, F; Garcia, D; Pelazas, R; Lirola, AL; Rubio, R; Pulido, F; Bisbal, O; Hernando, A; Dominguez, L; Crestelo, DR; Bermejo, L; Santacreu, M; Iribarren, JA; Arrizabalaga, J; Aramburu, MJ; Camino, X; Rodriguez-Arrondo, F; von Wichmann, MA; Tome, LP; Goenaga, MA; Bustin-Duy, MJ; Azkune, H; Ibarguren, M; Lizardi, A; Kortajarena, X; Gutierrez, F; Masia, M; Padilla, S; Navarro, A; Montolio, F; Robledano, C; Colome, JG; Adsuar, A; Pascual, R; Fernandez, M; Garcia, E; Garcia, JA; Barber, X; Muga, R; Sanvisens, A; Fuster, D; Berenguer, J; de Quiros, JCLB; Gutierrez, I; Ramirez, M; Padilla, B; Gijon, P; Aldamiz-Echevarria, T; Tejerina, F; Parras, FJ; Balsalobre, P; Diez, C; Latorre, LP; Vidal, F; Peraire, J; Vilades, C; Veloso, S; Vargas, M; Lopez-Dupla, M; Olona, M; Rull, A; Rodriguez-Gallego, E; Alba, V; Alonso, MM; Aldeguer, JL; Julia, MB; Pitarch, MT; Hernandez, IC; Munoz, EC; Tovar, SC; Lleti, MS; Navarro, JF; Gonzalez-garcia, J; Arnalich, F; Arribas, JR; de la Serna, JIB; Castro, JM; Escosa, L; Herranz, P; Hontanon, V; Garcia-Bujalance, S; Lopez-Hortelano, MG; Gonzalez-Baeza, A; Martin-Carbonero, ML; Mayoral, M; Mellado, MJ; Mican, RE; Montejano, R; Montes, ML; Moreno, V; Perez-Valero, I; Rodes, B; Sainz, T; Sendagorta, E; Alcariz, NS; Valencia, E; Blanco, JR; Oteo, JA; Ibarra, V; Metola, L; Sanz, M; Perez-Martinez, L; Arazo, P; Samperiz, G; Dalmau, D; Jaen, A; Sanmarti, M; Cairo, M; Martinez-Lacasa, J; Velli, P; Font, R; Xercavins, M; Alonso, N; Rivero, M; Reparaz, J; de Alda, MGR; Cano, MTD; de Galarreta, BPR; Segura, F; Amengual, MJ; Navarro, G; Sala, M; Cervantes, M; Pineda, V; Calzado, S; Navarro, M; de los Santos, I; Sanz, JS; Aparicio, AS; Cepeda, CS; Fraile, LGF; Gayo, EM; Moreno, S; Casado, JL; Dronda, F; Moreno, A; Elias, MJP; Ayerbe, CG; Gutierrez, C; Madrid, N; Terron, SD; Marti, P; Ansa, U; Serrano, S; Vivancos, MJ; Bernal, E; Cano, A; Garcia, AA; Urbieta, JB; Munoz, A; Alcaraz, MJ; Villalba, MD; Garcia, F; Hernandez, J; Pena, A; Munoz, L; Casas, P; Alvarez, M; Chueca, N; Vinuesa, D; Martinez-Montes, C; Del Romero, J; Rodriguez, C; Puerta, T; Carrio, JC; Vera, M; Ballesteros, J; Ayerdi, O; Antela, A; Losada, E; Riera, M; Penaranda, M; Leyes, M; Ribas, MA; Campins, AA; Vidal, C; Fanjul, F; Murillas, J; Homar, F; Santos, J; Ayerbe, CG; Viciana, I; Palacios, R; Gonzalez, CM; Viciana, P; Espinosa, N; Lopez-Cortes, LF; Podzamczer, D; Ferrer, E; Imaz, A; Tiraboschi, J; Silva, A; Saumoy, M; Ribera, E; Curran, A; Olalla, J; del Arco, A; de la Torre, J; Prada, JL; Guerrero, JMGD; Stachowski, JP; Martinez, OJ; Vera, FJ; Martinez, L; Garcia, J; Alcaraz, B; Jimeno, A; Iglesias, AC; Souto, BP; de Cea, AM; Munoz, J; Zubero, MZ; Baraia-Etxaburu, JM; Ugarte, SI; Beneitez, OLF; de Munain, JL; Lopez, MMC; de la Pena, M; Lopez, M; Galera, C; Albendin, H; Perez, A; Iborra, A; Moreno, A; Merlos, MA; Vidal, A; Amador, C; Pasquau, F; Ena, J; Benito, C; Fenoll, V; Anguita, CG; Rabasa, JTA; Suarez-Garcia, I; Malmierca, E; Gonzalez-Ruano, P; Rodrigo, DM; Seco, MPR; Mohamed-Balghata, MO; Vidal, MAG; de Zarraga, MA; Perez, VE; Molina, MJT; Garcia, JV; Moreno, JPS; Gorgolas, M; Cabello, A; Alvarez, B; Prieto, L; Moreno, JS; Caso, AA; Gutierrez, CH; Mena, MN; Puerto, MJG; Vilalta, RF; Ribera, AF; Roman, AR; Herrero, MTB; Juarez, AR; Lopez, PL; Sanchez, IM; Martinez, JP; Jimenez, MC; Perea, RT; Ruiz-Capillas, JJJ;*

*Pineda, JA; CoRIS Cohort. Choice of the initial antiretroviral treatment for HIV-positive individuals in the era of integrase inhibitors. PLOS ONE. 2019; 14(10) -. FI: 2.74. Cuartil: 2. (Article).*

- *Macchione, MA; Guerrero-Beltran, C; Rosso, AP; Euti, EM; Martinelli, M; Strumia, MC; Munoz-Fernandez, MA. Poly(N-vinylcaprolactam) Nanogels with Antiviral Behavior against HIV-1 Infection. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).*

## Cell Culture Unit

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*
- *Fortea-Gordo P; Nuño L; Villalba A; Peiteado D; Monjo I; Sánchez-Mateos P; Puig-Kröger A; Balsa A; Miranda-Carús ME. Two populations of circulating PD-1hiCD4 T cells with distinct B cell helping capacity are elevated in early rheumatoid arthritis. RHEUMATOLOGY. 2019; 58(9) 1662-1673. FI: 5.606. Cuartil: 1. (Article).*

## Confocal Microscopy Unit

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Aguilera-Montilla, N; Bailon, E; Ugarte-Berzal, E; Uceda-Castro, R; Prieto-Solano, M; Garcia-Martinez, E; Samaniego, R; Van den Steen, PE; Opdenakker, G; Garcia-Marco, JA; Garcia-Pardo, A. Matrix metalloproteinase-9 induces a pro-angiogenic profile in chronic lymphocytic leukemia cells. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS. 2019; 520(1) 198-204. FI: 2.985. Cuartil: 2. (Article).*
- *Salinas-Munoz, L; Campos-Fernandez, R; Olivera-Valle, I; Mercader, E; Fernandez-Pacheco, C; Lasarte, S; Perez-Martin, L; Navarro-Gonzalez, MT; Sanchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).*
- *Fortea-Gordo P; Nuño L; Villalba A; Peiteado D; Monjo I; Sánchez-Mateos P; Puig-Kröger A; Balsa A; Miranda-Carús ME. Two populations of circulating PD-1hiCD4 T cells with distinct B cell helping capacity are elevated in early rheumatoid arthritis. RHEUMATOLOGY. 2019; 58(9) 1662-1673. FI: 5.606. Cuartil: 1. (Article).*

## Genomics Unit

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; Lopez-Fernandez, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Diez-Martin, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).*
- *Carbonell, D; Suarez-Gonzalez, J; Chicano, M; Andres-Zayas, C; Trivino, JC; Rodriguez-Macias, G; Bastos-Oreiro, M; Font, P; Ballesteros, M; Muniz, P; Balsalobre, P; Kwon, M; Anguita, J; Diez-Martin, JL; Buno, I; Martinez-Laperche, C. Next-Generation Sequencing Improves Diagnosis, Prognosis and Clinical Management of Myeloid Neoplasms. CANCERS. 2019; 11(9) -. FI: 6.126. Cuartil: 1. (Article).*
- *Oarbeascoa, G; Dorado, N; Bailen, R; Serrano, D; Balsalobre, P; Pradillo, V; Guinea, J; Padilla, B; Sancho, M; Machado, M; Buno, I; Anguita, J; Diez-Martin, JL; Kwon, M. Successful Treatment of Severe Aspergillosis with Isavuconazole Therapy after Allogeneic Stem Cell Transplantation. CHEMOTHERAPY. 2019; 64(2) 57-61. FI: 1.641. Cuartil: 4. (Article).*
- *Solan, L; Kwon, M; Carbonell, D; Dorado, N; Balsalobre, P; Serrano, D; Chicano-Lavilla, M; Anguita, J; Gayoso, J; Diez-Martin, JL; Martinez-Laperche, C; Buno, I. ST2 and REG3 alpha as Predictive Biomarkers After Haploidentical Stem Cell Transplantation Using Post-transplantation High-Dose Cyclophosphamide. FRONTIERS IN IMMUNOLOGY. 2019; 10 -. FI: 5.085. Cuartil: 1. (Article).*
- *Miranda-Bautista, J; Suarez-Gonzalez, J; Andres-Zayas, C; Buno, I; Banares, R. Familial low phospholipid-associated cholelithiasis resulting from an autosomal dominant ABCB4 mutation. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(10) 806-808. FI: 1.591. Cuartil: 4. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Kwon, M; Bailen, R; Pascual-Cascon, MJ; Gallardo-Morillo, AI; Sola, AG; Balsalobre, P; Solan, L; Dorado, N; Munoz, C; Serrano, D; Martinez-Laperche, C; Buno, I; Anguita, J; Diez-Martin, JL; Grp Espanol Trasplante Hematopoye. Posttransplant*

*cyclophosphamide vs cyclosporin A and methotrexate as GVHD prophylaxis in matched sibling transplantation. BLOOD ADVANCES. 2019; 3(21) 3351-3359. (Article).*

## *Bioinformatics Unit*

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:***

- *Picornell, AC; Echavarria, I; Alvarez, E; Lopez-Tarruella, S; Jerez, Y; Hoadley, K; Parker, JS; del Monte-Millan, M; Ramos-Medina, R; Gayarre, J; Ocana, I; Cebollero, M; Massarrah, T; Moreno, F; Saenz, JAG; Moreno, HG; Ballesteros, A; Borrego, MR; Perou, CM; Martin, M. Breast cancer PAM50 signature: correlation and concordance between RNA-Seq and digital multiplexed gene expression technologies in a triple negative breast cancer series. BMC GENOMICS. 2019; 20 -. FI: 3.594. Cuartil: 2. (Article).*

***Publications of the main WOS collection in journals without impact factor:***

- *Moreno, F; Gayarre, J; Lopez-Tarruella, S; del Monte-Millan, M; Picornell, AC; Alvarez, E; Garcia-Saenz, JA; Jerez, Y; Marquez-Rodas, I; Echavarria, I; Palomero, M; Bueno, C; Bodi, AMA; Munoz, MS; del Val, RG; Bueno, O; Cebollero-Presmanes, M; Ocana, I; Arias, A; Romero, P; Massarrah, T; Ramos-Medina, R; Martin, M. Concordance of Genomic Variants in Matched Primary Breast Cancer, Metastatic Tumor, and Circulating Tumor DNA: The MIRROR Study. JCO PRECISION ONCOLOGY. 2019; 3 -. (Article).*

# 1. PARTNER COMPANIES

ABBVIE SPAIN SLU
ACTELION PHARMACEUTICALS ESPAÑA SL
ALFASIGMA ESPAÑA SL
ALLERGAN, S.A.U.
ALLERGY THERAPEUTICS IBERICA, SLU
Amgen, S.A.
ASOCIACIÓN 11Q ESPAÑA
Astellas Pharma , S.A.
Astrazéneca Farmaceútica Spain, S.A.
BANCO DE SANGRE Y TEJIDOS
Baxter, S. L.
BAYER HISPANIA, S.L.U
BIOCOMPATIBLES UK LIMITED
BIOGEN SPAIN, S.L.
BIOMERIEUX ESPAÑA, S.A.
BIOTEST MEDICAL S.L.U.
Boehringer Ingelheim Esp., S.A.
BRISTOL-MYERS SQUIBB, S.A.U.
BRUKER ESPAÑOLA SA.
CELGENE SL UNIPERSONAL.
CHIESI ESPAÑA, S.A.
CLUB DEPORTIVO ELEMENTAL AGUAS ABIERTAS ARGANDA
COLOPLAST PRODUCTOS MEDICOS, S.A.
COVIDIEN AG
ESPIGADO DELGADO, MARTA
FERRER INTERNACIONAL, S.A.
FRESENIUS KABI ESPAÑA, S.A.
FUNDACIÓN ALICIA KOPLOWITZ
GEBRO PHARMA SA
GILEAD SCIENCE, S.L.U.
Glaxosmithkline, S.A.
GLOBAL BUSINESS TRAVEL SPAIN, S.L.
GRIFOLS MOVACO, SA
INCARDIO, S.L.
INCYTE BIOSCIENCES IBERIA, S.L
INFORMACIONES DIGITALES Y COMUNICACIÓN S.L
INTERNATIONAL HEALTH MANAGEMENT ASSOCIATES, INC.
Ipsen Pharma, S.A.
Janssen Cilag, S.A.
JJP HOSPITALARIA SL
JOHNSON & JOHNSON, S.A.
JOTEC CARDIOVASCULAR SL
KERN PHARMA, S.L.
Laboratorios Servier, S.L.
LABORATORIOS THEA, S.A.
LABORATORIOS VIIV HEALTHCARE SL
LILLY, S.A.U.
LINDE MEDICA, S.L.U.
LIVANOVA ESPAÑA, S.L.U.
LIVE MED IBERIA, S.L.
LUNDBECK ESPAÑA S.A
MEDTRONIC IBÉRICA, S.A.
Merck Sharp & Dohme España, S.A.
MÓLNLYCKE HEALT CARE
NESTLÉ HEALTHCARE NUTRITION SA
NIPRO MEDICAL EUROPE
NORDIC PHARMA, S.A.U.
Novartis Farmaceútica, S.A.
NUTRICIA, S.R.L.
ONCOGENOMICS, SL
PERKINELMER ESPAÑA, S.L.
PFIZER, S.L.U.
POLYPHOR, LTD.
Roche Farma, S.A.
SANDOZ FARMACÉUTICA, SA
SANITARIA 2000 SL
Sanofi - Aventis, S.A.
SEDECAL MOLECULAR IMAGING, S.L.U.
TAKEDA FARMACEUTICA ESPAÑA, S.A.
TERUMO BCT ESPAÑA, S.L.U.
UCB BIOPHARMA LTDA
UCB DE MEXICO, S.A, DE CV
UCB PHARMA, S.A.
URIA GESTIÓN INMOBILIARIA, S.L.
VEGENAT, S.A.
VIAJES PACIFICO, S.A.
VIFOR PHARMA ESPAÑA, S.L.
W.L. GORE Y ASOCIADOS, S.L.

*During this year 2019, the funding provided to the FIBHGM by Janssen-Cilag S.A. to support the "Fellowship Program for Scientific Research" came to 125,000€*