PEGAR PORTADA 2018
(IMPRENTA)

2018 Annual Scientific Report

This Annual Scientific Report 2018 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.





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INDICE

1. 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):



2. PRESENTATION

Thank you very much.

Dr. Ismael Buño Borde
Scientific Director
IiSGM

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

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.

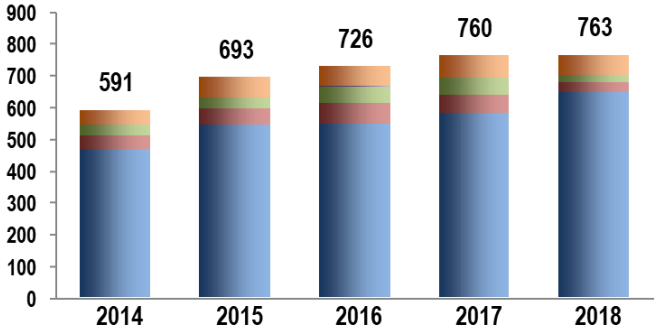
As in previous years, the total sum for the impact factor only takes into account information from indexed publications (eg, original articles, reviews, editorials, and proceedings papers) and **excludes** other types of publication (eg, letters to the editor and case reports). Of note, the impact factor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

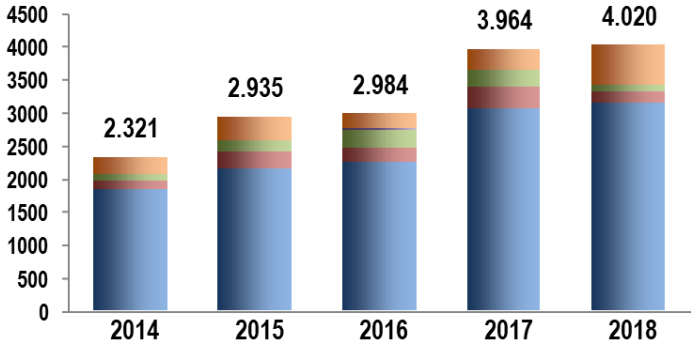
The following graphs provide a quantitative representation of the scientific output of IiSGM during the year 2018.

The graphs show strong consolidation of the growth trend observed in recent years, with a total of 763 indexed publications (667 excluding letters), which represent a global impact factor over 4020 points [3415 excluding letters], that is, an increase of 1036 points since 2016, as well as an increase of 1.4% with respect to the previous year and 73.2 % in the last 5 years.



	2014	2015	2016	2017	2018
Proceedings Paper			2		
Review	35	36	52	55	21
Editorial Material	40	50	61	52	30
Article	469	542	548	582	646
Total	**544**	**628**	**663**	**689**	**667**
Letter	47	65	63	71	66
Total	**591**	**693**	**726**	**760**	**763**

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



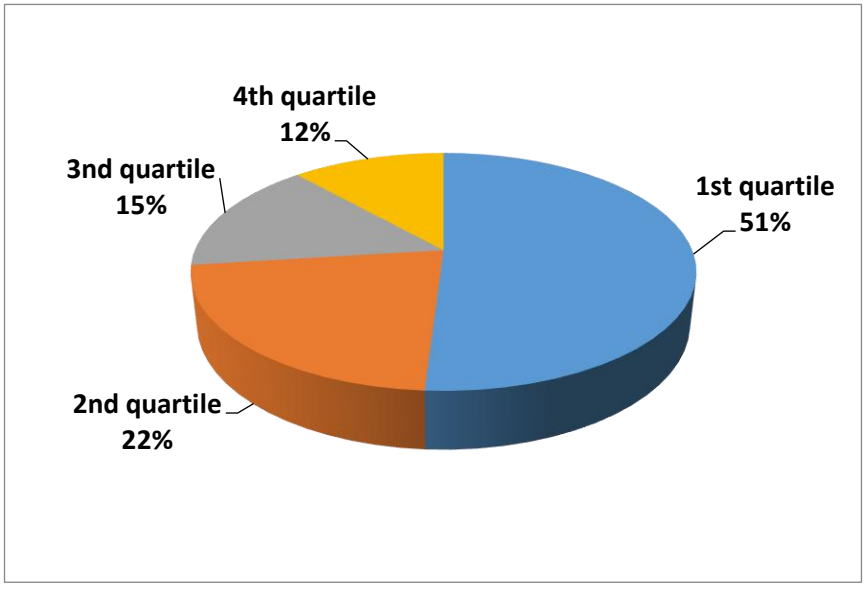
Proceedings Paper			5		
Review	118	170	272	254	115
Editorial Material	119	258	217	349	171
Article	1832	2142	2257	3047	3128
Total	**2069**	**2570**	**2750**	**3650**	**3415**
Letter	253	365	235	314	606
Total	**2321**	**2935**	**2984**	**3964**	**4020**

Scientific output of IiSGM:

TOTAL IMPACT FACTOR BY TYPE OF PUBLICATION

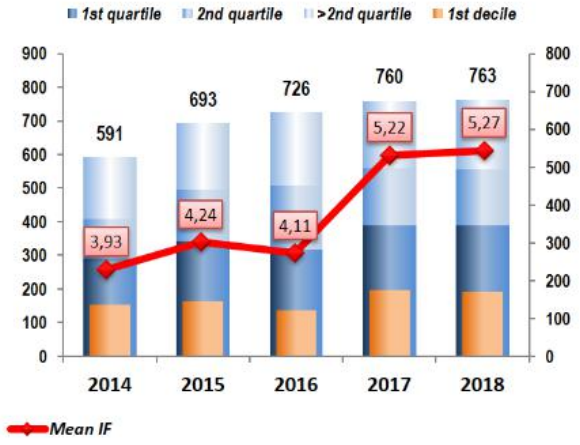
The previous figures summarizes the total impact factor corresponding to the scientific production of the IiSGM for each of the last 5 years and its distribution according to the different types of publication

As can be observed, in the year 2017 the highest impact factor corresponds (in order) to: original articles, editorials and review articles. 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.

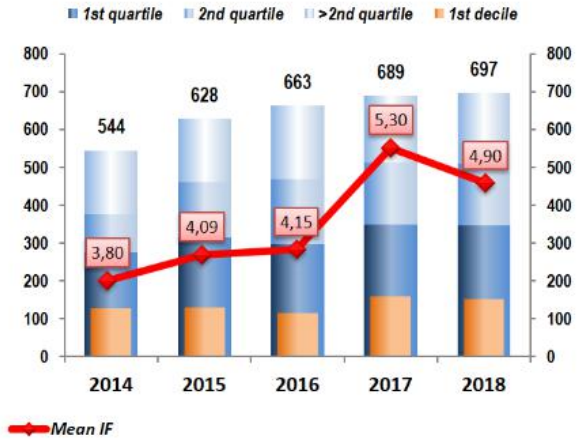


Scientific output of IiSGM in indexed journals with impact factor:

DISTRIBUTION BY QUARTILES (Relative to 2018)



Including letters



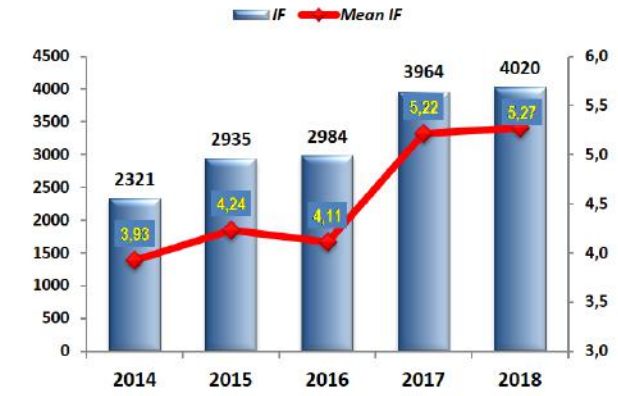
No letters

Scientific output of IiSGM in indexed journals with impact factor:

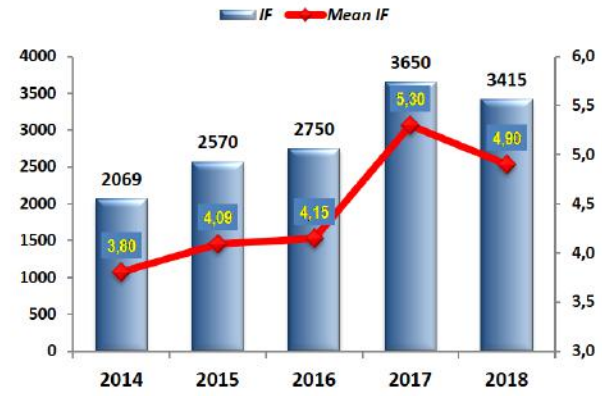
DISTRIBUTION OF PUBLICATIONS BY DECILES AND QUARTILES

(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, whereas the mean impact factor increased by **1.10** points with respect to 2017.

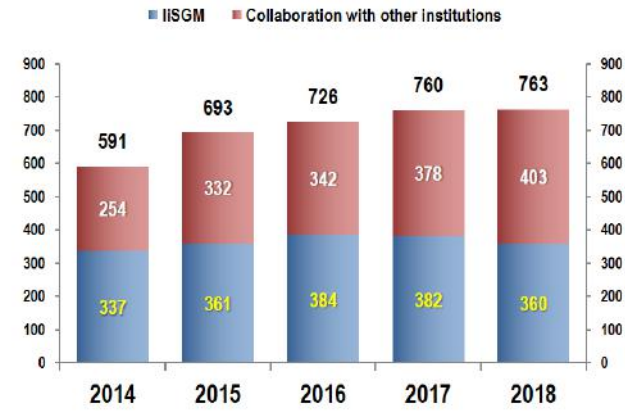


Including letters

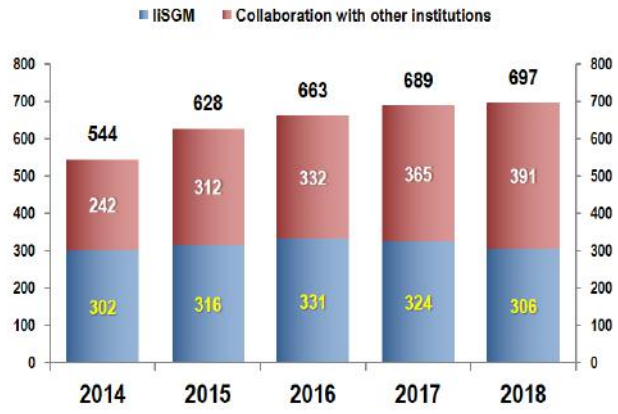


No letters

GLOBAL IMPACT FACTOR AND MEAN IMPACT FACTOR



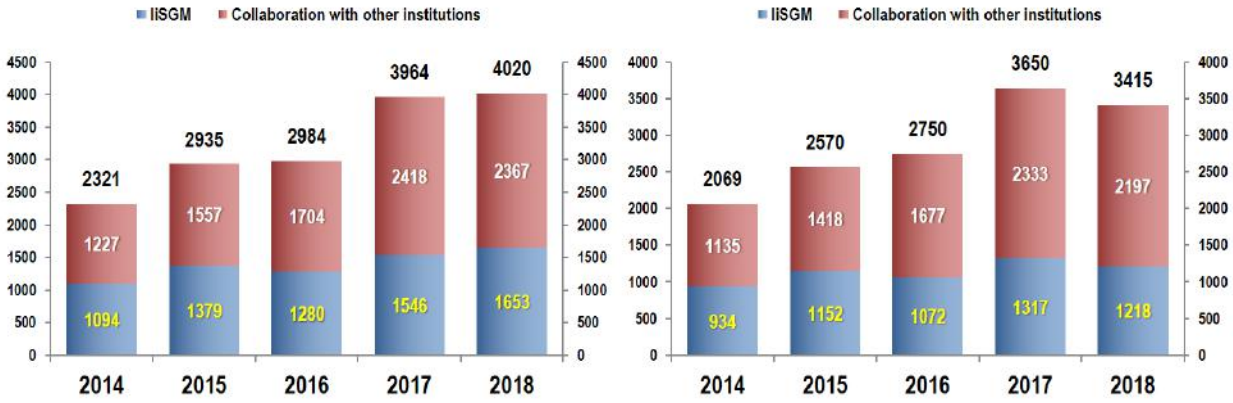
Including letters



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: **52.8 % of publications** and **58.9 % of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **47 % of the scientific output of IiSGM** is accounted for by articles whose **main authors belong to the Institute**.

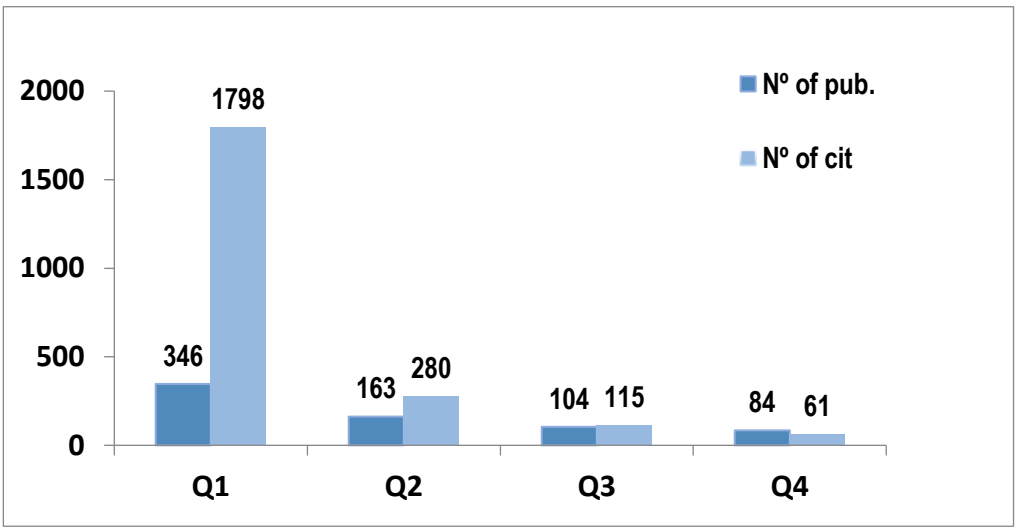
2. Without letters: **56.1 % of publications** and **64.3 % of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **44 % of the scientific output of IiSGM** is accounted for by articles whose **main authors belong to the Institute**



	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Nº of pub.	214	197	206	261	316	300	426	465	508	544	628	663	689	697
Nº of cit	9340	7467	7054	10989	13899	10445	10591	15628	10707	14155	11732	7777	6223	2254

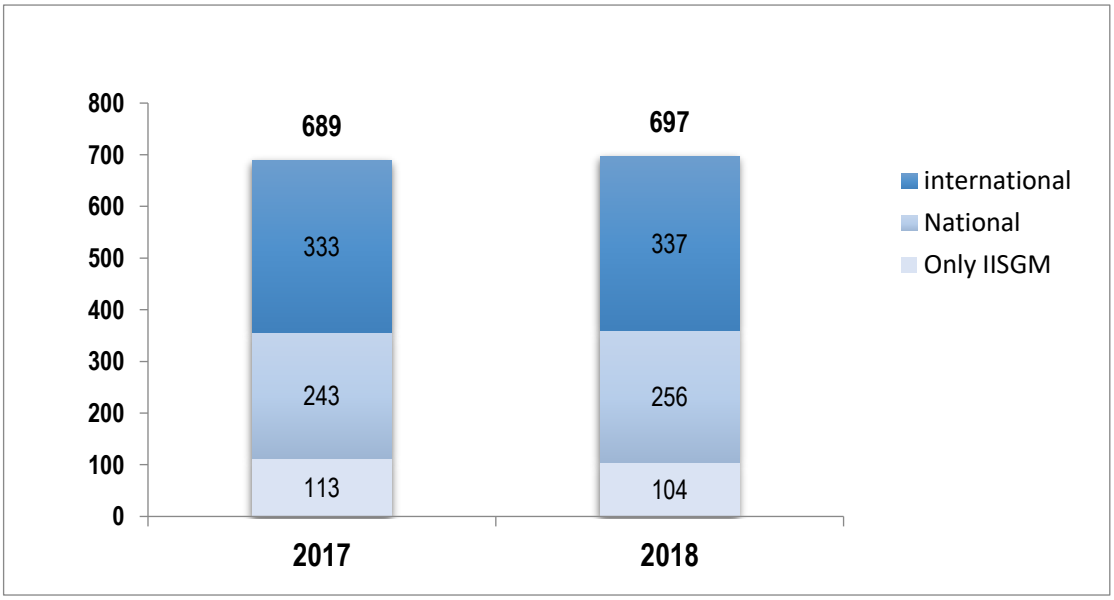
NUMBER OF PUBLICATIONS AND CITATIONS (no letters)

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

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.



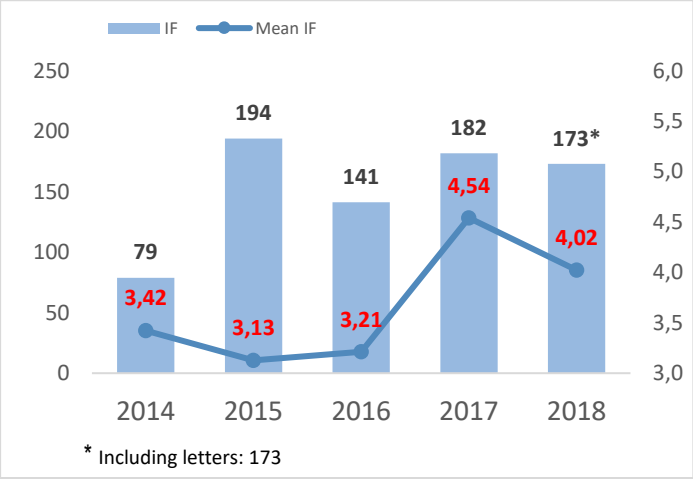
Scientific production of IiSGM in indexed journals with impact factor:
NUMBER OF PUBLICATIONS

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

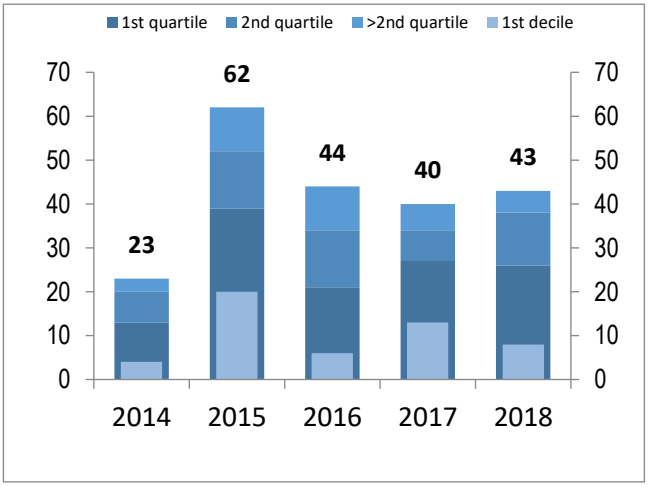
- **the first (on the left) summarizes the total impact factor together with the mean impact factor by publication**
- **the second (on the right) summarizes the scientific output of the research area distributed by first decile and quartiles.**

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

AREA 1: BIOMEDICAL ENGINEERING

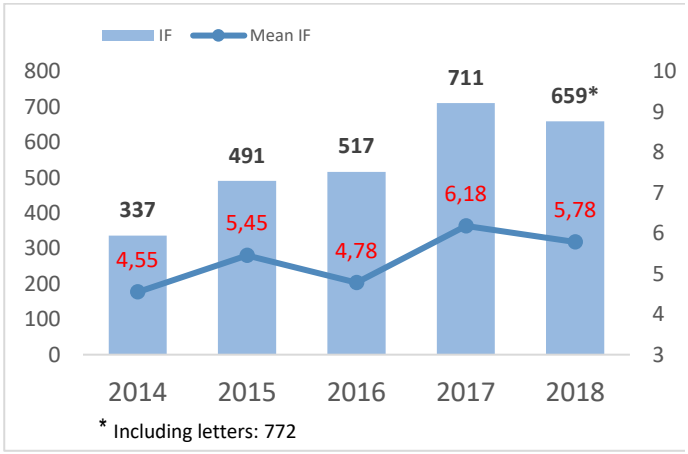


Scientific output of Area 1 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

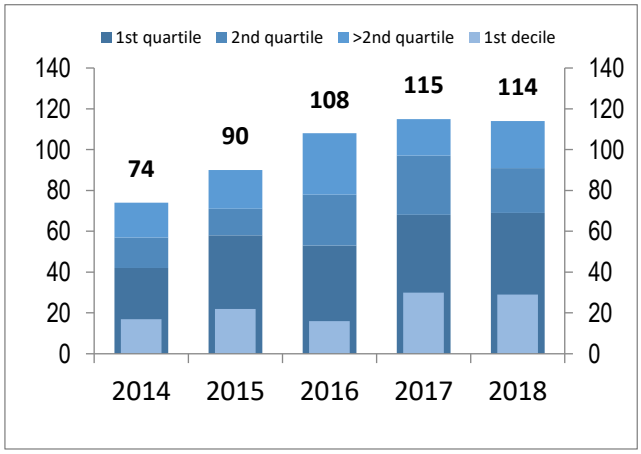


Scientific output of Area 1 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 2: CARDIOVASCULAR DISEASES

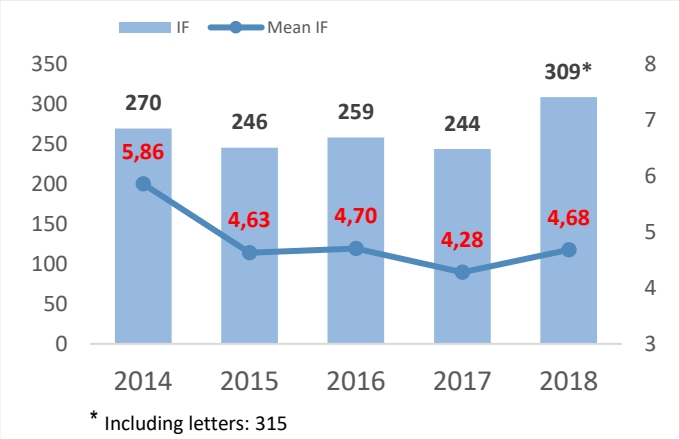


Scientific production of Area 2 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR

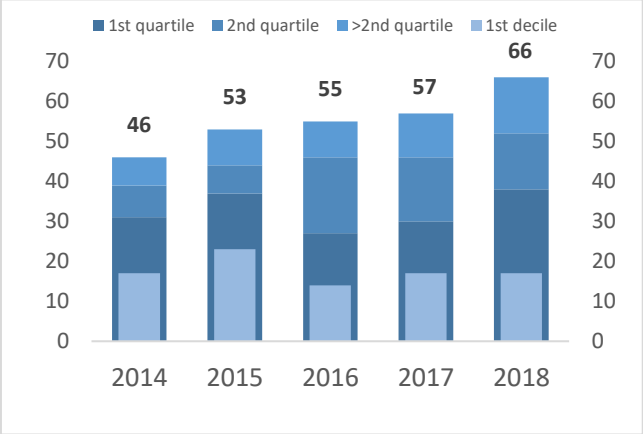


Scientific output of Area 2 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 3: NEUROSCIENCE AND MENTAL HEALTH

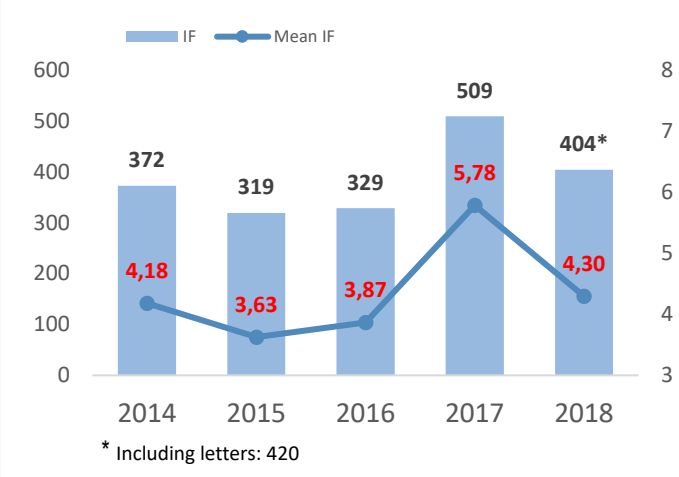


Scientific production of Area 3 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR

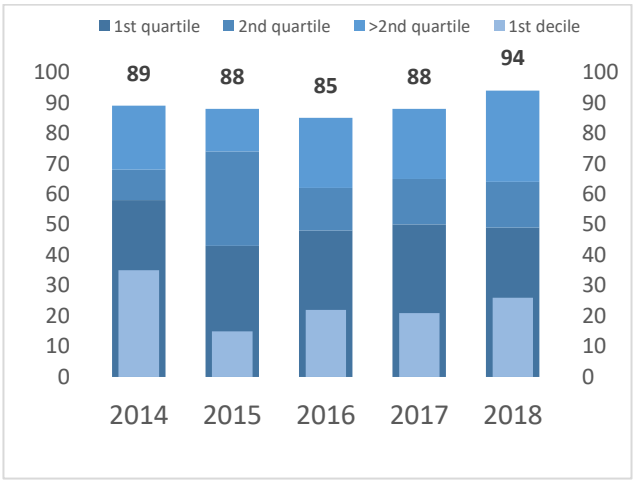


Scientific output of Area 3 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 4: INFECTIOUS DISEASES AND AIDS

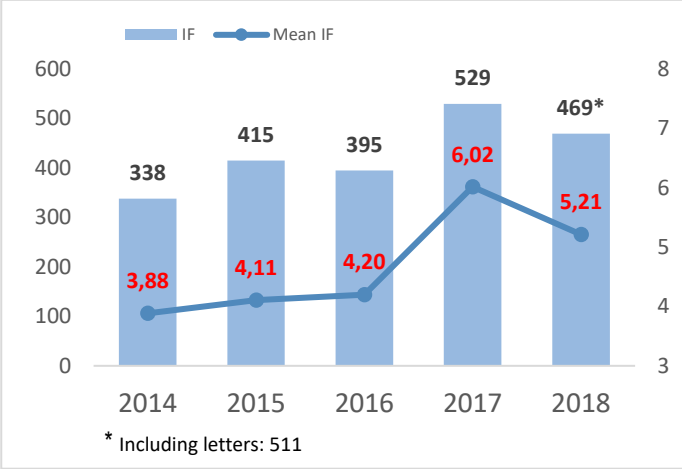


Scientific production of Area 4 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR

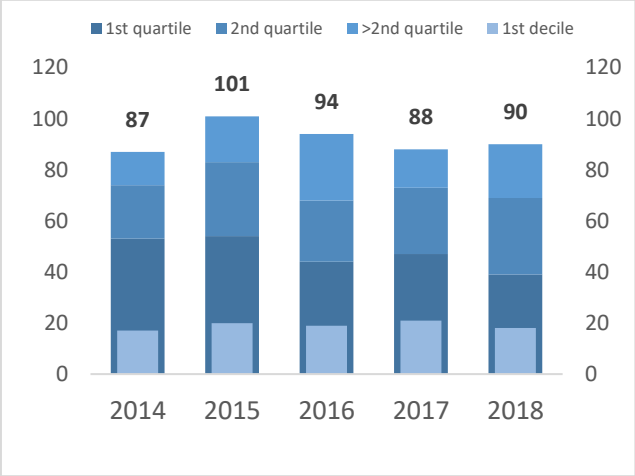


Scientific output of Area 4 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 5: DISEASES OF THE IMMUNE SYSTEM

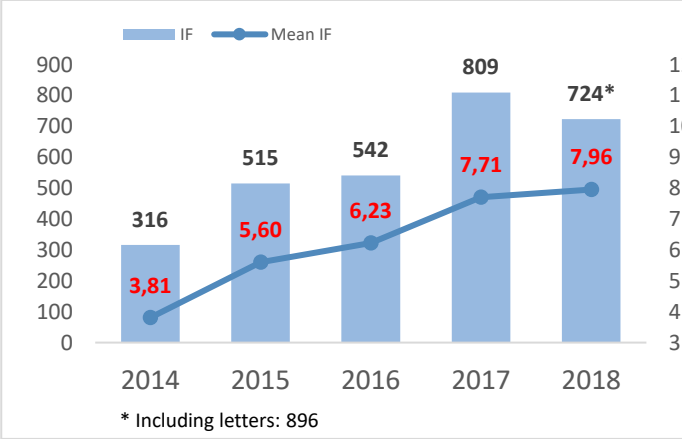


Scientific production of Area 5 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR

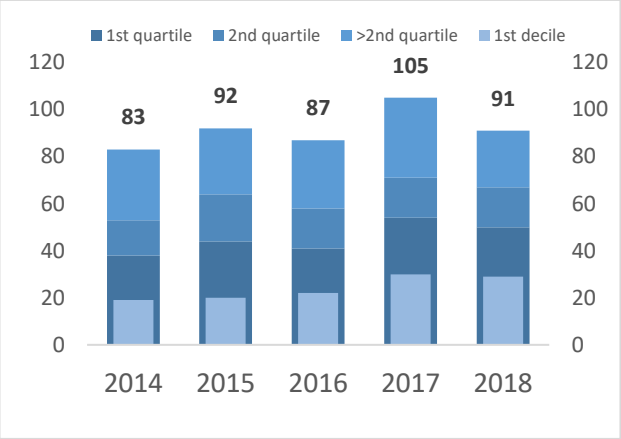


Scientific output of Area 5 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 6: TRANSLATIONAL ONCOLOGY

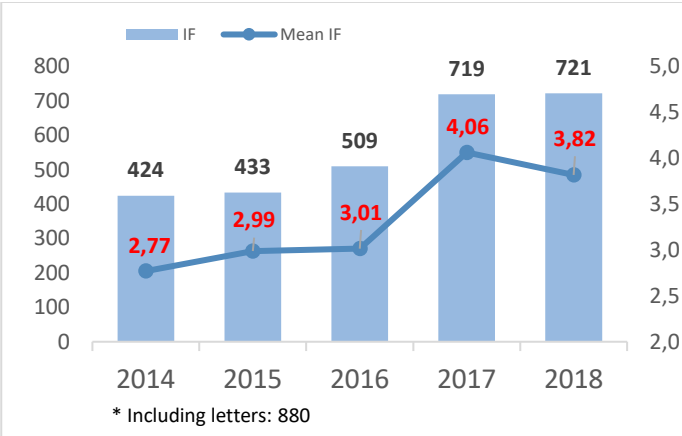


Scientific production of Area 6 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR

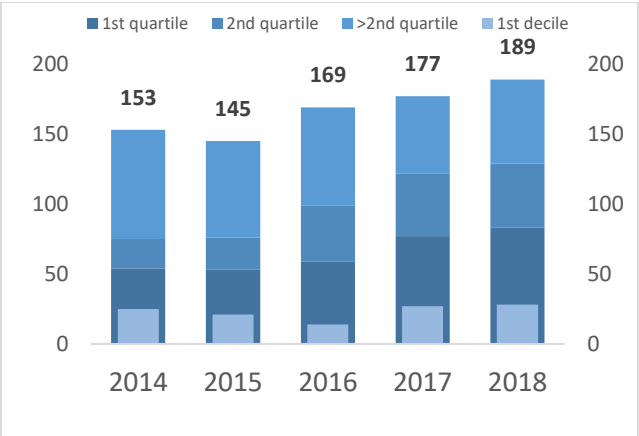


Scientific output of Area 6 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

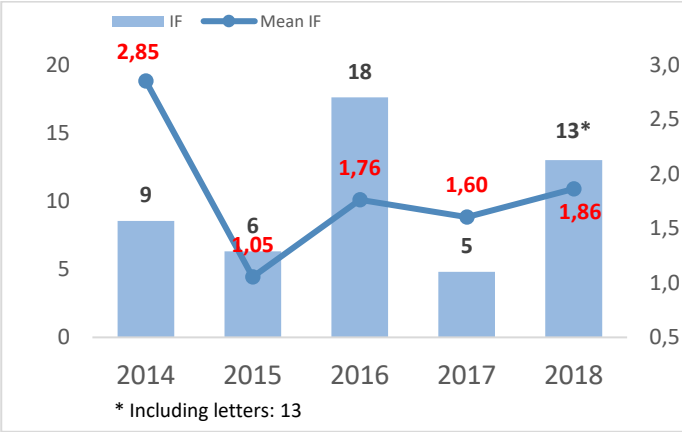


Scientific production of Area 7 in indexed journals with impact factor:
TOTAL AND MEAN IMPACT FACTOR



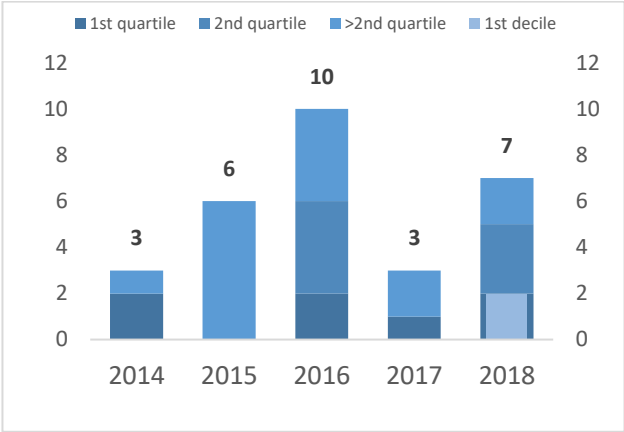
Scientific output of Area 7 in indexed journals with impact factor:
DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

NURSING RESEARCH GROUP



Scientific production of **Nursing Group** in indexed journals with impact factor:

TOTAL AND MEAN IMPACT FACTOR



Scientific output of **Nursing Group** in indexed journals with impact factor:

DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)

Organizational Structure of IiSGM

1. 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 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
	Vacant	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

2. 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)*
David García Dorado	*Head of Cardiology. Clinical Director of the Heart Area until 2012. Hospital Vall d'Hebron. Lecturer, School of Medicine, Universidad Autónoma de Barcelona. Instituto de Investigación Vall d'Hebrón*
Óscar Marín Parra	*Director, MRC Centre for Neurodevelopmental Disorders, King's College London (UK). Research Professor at Institute of Neuroscience UMH-CSIC Kings College, Universidad Miguel Hernández-CSIC (until February 2018)*

RESEARCH COMMITTEE		
Chair	**Ismael Buño Borde**	IiSGM Scientific Director
Secretary	**Pascual Balsalobre López**	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	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
	Luis Alberto Menchén Viso	HGUGM
	Laura Moreno Márquez	Technical Secretary of the FIBHGM
	Marisa Navarro Gómez	HGUGM
	Beatriz Nieto Pereda	HGUGM
	Francisco Pérez Vizcaíno	UCM
	Vacant (Area 4 Coordinator)	HGUGM
Invited	**Arantzazu Miner Vélez**	Scientific Management of IiSGM

3. *SUPPORTING BODIES*

CLINICAL RESEARCH ETHICS COMMITTEE	
Chair	**Felipe Atienza Fernández**
Vice-chair	**Andrés Jesús Muñoz Martin**
Secretary	**Fernando Díaz Otero**
Members	**Mª Luisa Baeza Ochoa de Ocariz**
	Rafael Carrión Galindo
	Vicente de las Peñas Gil
	Eduardo Fernández-Cruz Pérez
	José Miguel Rivas Bueno
	Leonor María Laredo Velasco
	Ana Mur Mur
	María del Carmen de la Cruz Arguedas
	Juan Antonio Andueza Lillo
	Mª Begoña Quintana Villamandos
	Luis Andrés López Fernández
	María del Carmen Heras Escobar
	Diego Rincón Rodríguez
	Dorotea Blanco Bravo
	Patricia Font López
	Antonio Muiño Miguez
Administrative Secretary	**María José Martín Muñoz**
	Santos Puerta Cruz

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
	Pascual Balsalobre López	HGUGM
	Ana Herranz Alonso	HGUGM
	Rubén Pérez Mañanes	HGUGM
	Carmen Oñate Heredero	HGUGM Management Director
	Sonia García de San José	HGUGM Medical Director
	María de la Loma	Directora de Research in nursing HGUGM
	Paloma Domingo García-	UC3M
Secretaryia	**Tatiana García**	UAI

TRAINING COMMITTEE

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

RESEARCH SUPPORT SERVICES

Scientific Director	**Ismael Buño Borde**
Manager	**Thierry Bardinet**

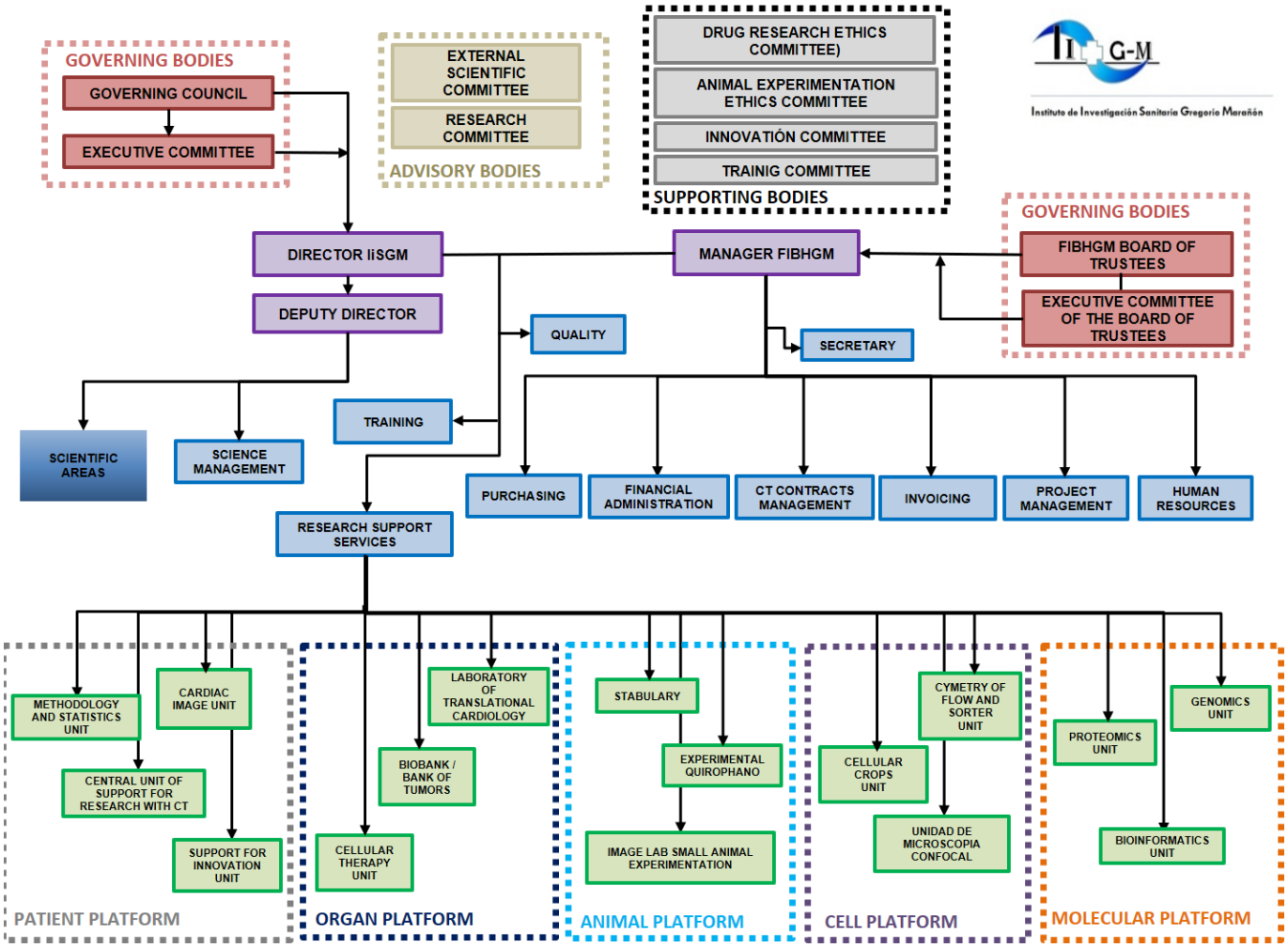
4. *MANAGEMENT BODY OF IiSGM*

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
	Isabel Ballesteros López (until March 2018)
	Montserrat Roura Portillo (since May 2018)
Clinical Trial Management	**María del Carmen de la Cruz Arguedas**
	Mª Luisa Morales Jerez
	Marta Delgado Delgado (until February 2018)
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**

ORGANIZATIONAL CHART



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 proces of integration)	UC3M
1.03 Computer architecture,communications, and systems:ARCOS	Jesús Carretero Pérez	CONSOLIDATED (in the proces of integration)	UC3M
1.04 Nonparametric statisticsand intensive computing	Juan Romo Urróz	CONSOLIDATED (in the proces 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: Infectious Diseases and AIDS

COORDINATOR: Emilio Bouza Santiago

Group	Group leader	Type of Group	Organization
4.01 Infectious diseases	Emilio Bouza Santiago)	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	Indalecio Monteagudo	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/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	José Luño Fernández	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 / Ignacio Garutti Martínez	CONSOLIDATED	HGUGM
7.06 Regenerative medicine in plastic surgery	Rosa Pérez Cano / 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	Alejandro del Castillo Rueda	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
7.21 Biopathology of aging	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	Pilar García Peris/ Cristina Velasco	EMERGING	HGUGM
7.29 Vascular pathophysiology and pharmacology	Francisco Pérez Vizcaíno	CONSOLIDATED	UCM
7.30 Pathophysiology in women, pregnancy, labor, and puerperium	Santiago Lizarraga Bonelli & Juan Antonio deLeón	EMERGING	HGUGM
7.31 Physical medicine and rehabilitation	Pilar Crespo Cobo & Marta Supervía Pola	EMERGING	HGUGM

Nursing Research Group

COORDINATOR: Ana García Pozo

Group	Group leader	Organization
Research in nursing	Ana García Pozo	HGUGM

COMPETITIVE PUBLICLY FUNDED RESEARCH STAFF CONTRACTS

STABILIZATION CONTRACTS: RESEARCHERS AND TECHNICAL STAFF

	Área	Group
Joost Jansen	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
José Luis Jiménez Fuentes	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Mª Jesús Serramía Lobera	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
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	5.02 Molecular biology of HIV
Amaya Rocío Puig Kröger	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases
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
José María Bellón Cano		Methodology and Biostatistics Unit
Rafael Samaniego García		Confocal Microscopy Unit
María Eugenia Fernández Santos		Cardiology translational research Laboratory

INSTITUTO DE SALUD CARLOS III
Miguel Servet Tipo I contracts

	Área	Group
Susana Carmona Cañavate CP16	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
Miguel Servet Tipo II contracts

	Área	Group
Jesús Vicente Guinea Ortega	4.Infectious diseases and AIDS	4.01 Infectious diseases

INSTITUTO DE SALUD CARLOS III
Sara Borrell contracts

	Área	Group
Manuel Alejandro González-Serna Martín	5. Diseases of the Immune System	5.02 Molecular biology of HIV

INSTITUTO DE SALUD CARLOS III
Río Hortega contracts

	Área	Group
Antonia Delgado Moreno	2. Cardiovascular diseases	2.01 Natural history of heart disease
Sofía Cuenca Parra	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
Beatriz Ruiz Saez	5. Diseases of the Immune System	5.2 Molecular biology of HIV
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
Sarah Nicole Fernández Lafever	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child

INSTITUTO DE SALUD CARLOS III
Juan Rodés contracts

	Área	Group
Mª Candelas Pérez del Villar Moro	2. Cardiovascular diseases	2.01 Natural history of heart disease
Laura Pina Camacho	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Begoña Santiago García	5.Patología del sistema inmune	5.07 Infections in pediatric patients

INSTITUTO DE SALUD CARLOS III
Predoctoral contracts (PFIS)

	Área	Group
Renzo Abregu Crespo	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

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

	Área	Group
Ana Ortega Gil	1.Biomedical Engineering	1.01 Advanced technological applications and human health
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

	Área	Group
Irene Lomba Iriarte		Technical Unit FIBHGM

MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD
Juan de la Cierva Contracts

	Área	Group
Pablo Martínez-Legazpi Aguilo	2. Cardiovascular diseases	2.01 Natural history of heart disease
Andreu Martínez Climent	2. Cardiovascular diseases	2.01 Natural history of heart disease

MINISTERIO DE CIENCIA, UNIVERSIDADES E INNOVACIÓN
Predoctoral Contracts

	Área	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)

	Área	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

COMUNIDAD AUTÓNOMA DE MADRID
Young employement Program contracts

	Área	Group
Ana Romero Miranda	1.Biomedical Engineering	1.01 Advanced technological applications and human health
Joaquín Redondo Castrejón	1.Biomedical Engineering	1.01 Advanced technological applications and human health
Nerea Ballesteros Ternero	1.Biomedical Engineering	1.01 Advanced technological applications and human health
Vanessa Gomez Rangel	1.Biomedical Engineering	1.01 Advanced technological applications and human health
Diego Gerez de Andrés	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Patricia Rubio Fernández	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Andrea Calonge Urrea	3. Neuroscience and Mental Health	3.03B Neurological diseases
Beatriz Alonso Fernández	4. Infectious diseases and AIDS	4.01 Infectious diseases
Nadire Mª Díaz Pérez	4. Infectious diseases and AIDS	4.01 Infectious diseases
Andrea Martínez Lozano	4. Infectious diseases and AIDS	4.01 Infectious diseases
Maria Consuelo Latorre Sanz	4. Infectious diseases and AIDS	4.01 Infectious diseases
Lidia Quiroga Maroto	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
Alba Gutierrez Seijó	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases
Esther Bernaldo de Quirós Plaza	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system
Adrián Prieto Sánchez	5. Diseases of the Immune System	5.06 mmune regulation and homeostasis in diseases of the immune system
Verónica Ástrid Pérez Fernández	5. Diseases of the Immune System	5.06 mmune regulation and homeostasis in diseases of the immune system
Eva Dueñas Moreno	5. Diseases of the Immune System	5.07 Infections in pediatric patients
Patricia Pola Caballero	6. Translational Oncology	6.01 Interdisciplinary oncology and biotechnology
Ana Mª Pacheco Aguado	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
Paula Muñiz Sevilla	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
Gonzalo Pérz 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
Elena Vázquez Ogando	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases
Carolina Pilar Blanco Agudo	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics
Sara Salvador Martín	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics

Elena Vázquez Alejo		Biobank
Lara Sanz Criado		Cardiology Traslational Research Laboratory
Carlota Chiralt Cerezo		Animal facility
Sofia Gomez Gonzalez		Animal facility

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

	Área	Group
Marta Casquero Veiga	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
Mª Ángeles Bordallo Cardona	4. Infectious diseases and AIDS	4.01 Infectious diseases
Estefania Abascal Saiz	4. Infectious diseases and AIDS	4.01 Infectious diseases
Sara Fuentelsaz Romero	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases
Jorge Gallego Valle	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system
Xandra García González	7. Systemic diseases and organ transplantation	7.27 Hospital pharmacy and pharmacogenomics
Sara Salvador Martín	7. Systemic diseases and organ transplantation	7.27 Hospital pharmacy and pharmacogenomics

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

	Área	Group
Hugo González Zaldivar	2. Cardiovascular diseases	2.01 Natural history of heart disease
Ana Cambra Conejero	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

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

	Área	Group
Javier González Peñas	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

	Área	Group

Francisco J. Fernández-Avilés Díaz	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
Juan Berenguer Berenguer	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Isabel Gutiérrez Cuellar		Nursing Group

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"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		Experimental Small-Animal Imaging Laboratory	Cell Culture Unit	Bioinformatics Unit
Cardiac Imaging Unit			Confocal Microscopy	

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

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Head of Unit
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Edificio prefabricado (planta 0)
Hospital General Universitario Gregorio Marañón
C/ Dr. Esquerdo 46, 28007

CLINICAL RESEARCH CENTRAL SUPPORT UNIT
Platform for Clinical Research and Clinical Trial Units
[Unidad Central de Apoyo a la Investigación Clínica (UCAICEC)]

Mission

The Unit aims to serve society by working to improve the health and wellbeing of the public. The Unit's mission is carried out by managing patientoriented clinical research (both commercial and noncommercial), through continuous improvement, innovation, and training, as well as by stimulating the professional and scientific development of all its members.

Description

The UCAICEC is a research support service for all those Institute researchers who require support in the logistic, operational, and regulatory design of clinical trials and observational studies.
It was created to boost and support high-quality clinical research and clinical trials by means of an integral support service for researchers in the planning, development, application, and performance of noncommercial clinical trials and studies.
The activities of UCAICEC include the management of SCReN (Spanish Clinical Research Network) at our center.
The SCReN platform is funded by the Instituto de Salud Carlos III (ISCIII) and is represented in more than 20 hospitals throughout Spain.

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.

- Evaluation of ideas.
- Support in the evaluation of ideas and results of research.
- 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.
- Publication 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.

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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)

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

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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.

ORGAN PLATFORM
I BIOBANK

- 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.

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CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

Mission

The 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. This laboratory was created to provide support to the SABIO project (consortium formed by the ONT, University of Minnesota, and HGUGM), within the Regenerative Medicine Platform.

The project is based on the decellularization and recellularization of bioartifi cial organs and matrices obtained form human and animal cadavers. The project is led by the Cardiology Department and brings together the following departments: Gastroenterology, Traumatology, Nephrology, Plastic Surgery, and Histopathology. The various programs covered have made it possible to develop other research projects in translational cardiology, with a leading role in the fi elds of regenerative medicine, electrophysiology, cardiac imaging, congenital and familial heart disease, genomics, and metagenomics.

Description

Is a research Support Service, whose objective is to obtain decellularized matrices and organs from animal and human organs in order to recellularize them with different cell types and techniques, including recellularization with bioreactors and 3D bioprinting. Such an approach will provide viable matrices that can be used as replacement constructs for diseased organs that do not lead to rejection on transplantation.

In addition, several cutting-edge technologies have been implemented in the Laboratory. These will provide support not only to translational research in cardiology at our hospital, but also to other nationally and internationally renowned research groups.

The RSS is managed by a GLP quality system that enables projects to be developed in a reproducible manner and with contrasted traceability in order to speed up transfer of knowledge to clinical practice.

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.
  - Vascular fat fraction or "fresh cells" from liposuction.
  - Bone marrow mononuclear cells.
  - Bone marrow mesenchymal cells.
  - Fatty tissue mesenchymal cells.
  - Obtaining iPS cells.
  - 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.

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.
- Histology workstation: Leica DMD108.
- Inverted fl uorescence microscope with camera: DMI3000.

ORGAN PLATFORM
CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

- 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.

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 purifi cation with separator: AutoMACS Pro.

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.

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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 specifi c 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.

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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) fi gures 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.

ANIMAL PLATFORM
ANIMAL FACILITY

•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.
Angelica Horrillo, Graduate in Veterinary Medicine, Doctor of Molecular Biology.
Carlota Fernandez-Pacheco, Graduate in Veterinary Medicine.
Carlota Chiralt, Graduate in Veterinary Medicine.
Technicians:
Francisco Sánchez Cobos, Animal Experimentation Technician.
Verónica Herrera Jiménez, Animal Experimentation Technician.
Sofía Gómez González, Animal Experimentation Technician.

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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)

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CELL THERAPY UNIT

Mission

The Cell Therapy Unit gives support to basic-clinical research in the field of cell therapy 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 and was certified for third time in June 2015 (ES/133/15) for the production of 6 cell types: bone marrow mononuclear cells, bone marrow mesenchymal cells, stromal vascular fraction, fatty tissue mesenchymal cells, periodontal ligament cells, and NK cells. The cells have been applied in 17 clinical trials in our hospital and in other hospitals both in and outside our autonomous community.

This Unit forms part of the Regenerative Medicine and Bioartificial Organ Platform.

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).

• 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 371 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.
– 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/133I/15; July de 2015], with the inclusion of a new cellular product in June 2017).

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CELL PLATFORM

FLOW CYTOMETRY AND CELL SORTER UNIT

FLOW CYTOMETRY AND CELL SORTER UNIT

Misión

The Flow Cytometry and Cell Sorter Unit provides support to research projects human diseases by studying various markers. It can be applied in the discovery, identification, and monitoring of cell markers, thus facilitating separation of the cell populations identified.

Descripción

The Unit is a Research Support Service (RSS) that uses flow cytometry technology to discriminate simultaneously between up to 10 different parameters thanks to the optical characteristics of the fluorescent labels used.

Flow cytometry provides detailed information on the structural and functional characteristics of the cells or particles under study. The cell sorter can separate up to 6 cell populations, based on the characteristics analyzed using flow cytometry.

The most frequent applications are cell counting, immunophenotyping, cytokine studies, cell viability analysis, study of microparticles (>0.3 µm), and other intracellular characteristics that can be monitored using fluorescent labels. It is important to highlight that this technique performs its measurements cell-by-cell, thus going beyond descriptive measures of cell populations. It is important to highlight that this technique performs its measurements cell-by-cell, thus going beyond descriptive measures of cell populations. The identification of cellular markers can applied in research on various diseases, as well as their diagnosis, follow-up, and treatment; therefore, fl ow cytometry and cell sorting play a key role in translational research.

This service is aimed at all Institute research groups, as well as at research centers, companies, and other bodies that request it. In addition, the Unit provides custom advice on sample treatment depending on the application in question (flow cytometry for analysis or sorting).

Services provided

Flow cytometry (analysis):

• Assessment and optimization of study protocols or experiment design.
• Analysis of cell viability using labels: propidium iodide, annexin V, and 7-AAD.
• Analysis of the cell cycle using propidium iodide.
• Analysis of the efficiency of transfection.
• Phenotyping: various intracellular or surface lymphocyte markers.
• Quantification of soluble cytokines in plasma, serum, or culture supernatant using multiplex assay (up to 11 cytokines in 25 µL of sample).
• Analysis of intracellular cytokines.
• Analysis of apoptosis using TUNEL.
• Analysis of intracellular calcium movement by marking with Fluo-4.
• Analysis of the activation of apoptosis via the caspase-3 pathway.
• Detection of microparticles (≥0.3 µm) in culture supernatant, plasma, etc.

Flow cytometry (cell sorting):

• Cloning.
• Separation of subpopulations.
• Separation of live cells for culture.
• Separation of cells fi xed for subsequent genetic analysis.

Investigator support:

• Training on demand and analysis of researchers' needs.
• Personalized assessment on experimental approaches, fluorochromes, available markers.
• Standardized procedures for optimal sample processing.
• Analysis using various software packages.

Technology

10-COLOR FLOW CYTOMETER (Gallios, Beckman oulter)
• Reading of up to 10 colors. Three lasers (blue 488 nm, red 638 nm, and violet 405 nm), computer-controlled, with rapid start and stabilization system.
• Latest-generation photomultipliers with high sensitivity for the red range and excellent linearity throughout the range.

FLOW CYTOMETER-CELL SORTING (MoFlo Astrios, Beckman-Coulter)
• Integration in type II biosafety cabinet.
• Aerosol evacuation and sample shaking systems.
• Controlled sample temperature (heating or cooling).
• Potential for 6 solid-state lasers (640 nm, 592 nm, 561 nm, 532 nm, 488 nm, and 405 nm) and 7 pinholes. Two lasers currently available (488 nm and 640 nm).
• Depending on the application, acquisition rate up to 100,000 cells/s; automatic recognition by photomultipliers (PMT) and PODs that makes it possible to detect various configurations depending on the objective. Various collection systems: multiwell plates, propylene tubes.

FLUORESCENCE MICROSCOPE (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

Mª Ángeles Muñoz Fernández, Head of Unit
Laura Díaz Muñoz, Head Technician

Contact

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Experimental Medicine and Surgery Unit (prefabricated building). Floor 1

CELL PLATFORM

FLOW CYTOMETRY AND CELL SORTER UNIT

• Various collection systems: multiwell plates, propylene tubes.
FLUORESCENCE MICROSCOPE (Eclipse 50i with Nikon CFI60 optical system)

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Experimental Medicine and Surgery Unit (prefabricated building). Floor 1

CELL PLATFORM

FLOW CYTOMETRY AND CELL SORTER UNIT

CELL CULTURE UNIT

Mission

Cell culture is a basic tool in biomedical research, since it enables cells from human tissue (healthy and diseased), experimental animals (eg, mice, rats, and pigs), and cell lines in culture (immortalized cells and tumor cell lines) to be maintained in vitro. The objective is to conserve as much as possible the genetic, physiological, and biochemical properties of the cells.

Description

The Cell Culture Unit is a research support service that provides researchers with the appropriate facilities and services necessary to ensure biosafety level 2 conditions and to guarantee the quality of the results obtained.
imilarly, the Cell Culture Unit offers the possibility of cryopreserving biological samples (level 2 or lower), since it has a cryogenics facility consisting of a liquid nitrogen tank with the capacity for 4800 x 2-mL vials and a 50-L bottle of liquid nitrogen.

Services provided

- Management of the use of the platform's facilities. Updating and maintenance of infrastructure to ensure the best possible use thereof.
- Regular monitoring of facilities and equipment both for maintenance and to ensure the supply of generic fungible materials and the most commonly used reagents.
- Preparation and adaptation of working protocols and cleaning/disinfection programs in the cell culture room.
- Basic cell culture procedures, maintenance of cell cultures, Mycoplasma test
- Thawing of frozen cells.
- Technical advice and supervision of users who need cell cultures for the development of their research projects.

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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.

Contact

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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

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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.
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. 2D electrophoresis (2D-PAGE)
Reparative liquid phase isoelectric focusing
Protein complex separation (Blue-Native)
Immunoproteomic analysis
Peptide separation
Reverse phase chromatography
Ionic exchange chromatography
Preparative liquid phase isoelectric focusing
Differential expression study
Gel-based quantitative proteomics: DIGE fluorochrome labeling
Gel-free quantitative proteomics: iTRAQ 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

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).

MOLECULAR PLATFORM
PROTEOMICS UNIT

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.

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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

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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 scientifi c community, and the fi nancial 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 during the different stages of the innovation and transfer process, with the aim of converting their proposals into products and services that add value to the health system and to 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 2018, its structure was as follows:
- Head of unit: Manuel Desco Menéndez
- Project manager: Tatiana García Díez
- Innovation managers Eva Caravilla
- Research manager: Trajana Garrido
- Quality technician: Elena Rodríguez Casaú

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 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 :

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

Miembros:
- 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)
- D. Pascual Balsalobre López (Servicio de Hematología)
- Dña. Paloma Domingo García (Directora del Parque Científico de la UC3M)
- Dra. Sonia García de San José (Directora Médica)
- Dña. María de la Loma Segarra (Directora de Research in nursing)
- Dña. Carmen Oñate (Directora de Gestión)
- Secretaría: Tatiana García (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 2018 can be seen in the following 3 main areas:

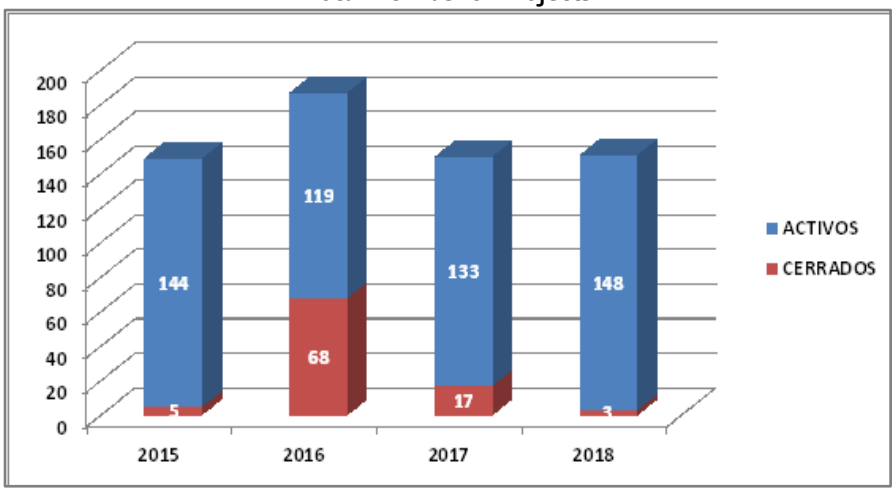
1.Intellectual and industrial property

a) Patents applied for: 1 new national patent, 3 international patents, and 62 intellectual property registrations.
b) Patents awarded: 3 national priority patent and 1 intellectual property registrations.
c) Transfer of patents: 1 famiy of patents, 4 intellectual property registrations and 1 know how.

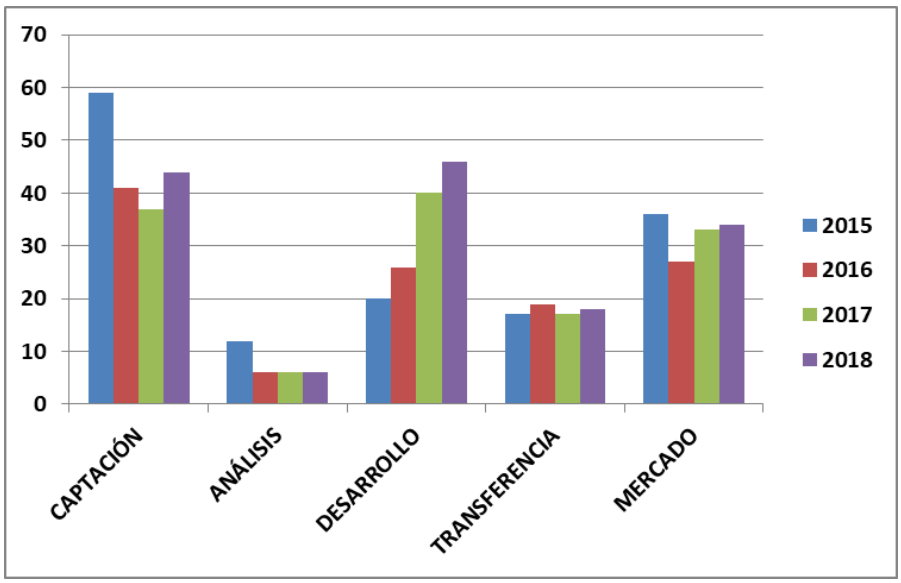
2. Innovation projects portfolio:

During 2018, 17 new innovation projects were started in the unit. The year closed with 148 active projects from a total of 281. The following figures shows the distribution of projects classified by area and development phase during the last 4 years
With respect to calls for innovation projects (Retos, FIPSE, and FIS-DTS), IiSGM has earned more than €800,000.

Total Number of Projects



Total number of projects (per phase)



Capture Recruitment/ Analisys/ Development / Transferring/ Marketplace

3.Contracts:

A total of 24 new contracts have been closed, both with companies and national and international organizations, 6 of them 6 contracts were collaborative and another 6 were licensed

Other initiatives and achievements of the Unit during 2018 include the following:

- Renewal of the Certification of the R&D&i Management System in accordance with the UNE 166002: 2014
- Presence in social networks with a twitter account that closed the year with more than 474 followers
- More than 52 external meetings have been held with companies and collaborators and 60 internal meetings with researchers and innovators
- Participation of the unit in informative sessions on innovation in national events

It is noteworthy that the webpage of the IiSGM includes a specific section on innovation, where they describe services such as those 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 2018.

	ICTs Health	Material and devices	Medicines and pharmaceutical products	Biotechnology and molecular diagnosis	Imaging	Care organization
Ideas proposed (not developed)	6	13	5	9	2	9
Ideas under assessment	1	4	0	0	0	1
Ideas under development	11	10	1	6	7	11
Ideas under transfer	2	5	2	5	3	1
Ideas in the market	9	5	5	2	6	7

The intellectual and industrial property of the IiSGM included in the technology portfolio is set out below.
This information is constantly updated and can be seen 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	P200502612 (Familia con 10 patentes)	FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A.	Juan José Vaquero, Manuel Desco
1 7	Group 1.01 Advanced technological applications and human health. Group 7.22 Pathophysiology of the neonate and developing child	Incubadora para imagen con radiación no ionizante	PCT/ES2007/070214 (Familia con 3 patentes)	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	P200702836	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	PCT/ES2009/070456 (Familia con 2 patentes)	FIBHGM	Eduardo Lage, Gustavo Tapias, José Antonio Sánchez, Javier del Pino, Juan José Vaquero, Manuel Desco

AREA	GROUP	TITLE	REFERENCE	OWNER	INVENTORS
		detectores de radiación gamma			
1 2	Group 1.01 Advanced technological applications and human health Group 2.01 Natural history of heart disease	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
1	Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana	Ciclotrón clásico superconductor compacto	P 201330626 (Familia con 2 patentes)	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 Aplicaciones tecnológicas avanzadas y salud humana	Equipo y método de generación de tomografías	P201730341 (Familia con 2 patentes)	FIBHGM - UC3M	Manuel Desco, Mónica Abella
1	Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana	Light Sheet Microscope and procedure for extended samples	P201830912, 21/09/2018	UC3M	Jorge Ripoll Lorenzo
1	Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana	Mobile 3D imaging system based on light sheet microscopy	P201830913, 21/09/2018	UC3M	Jorge Ripoll Lorenzo
1	Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana	Celda centelleadora	PCT/ES2017/070623	UC3M	Georgios Konstantinou, Juan José Vaquero, Rigoberto Chil, Manuel Desco
1 7	Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana Group 7.25 Artificial circulation laboratory	Equipo y simulación para control de hemorragias	P201730568	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	P201731161	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús, Fernández-Avilés Díaz
2 1	Group 2.01 Natural history of heart disease. Group 1.01 Aplicaciones tecnológicas avanzadas y salud humana	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
2	Group 2.01 Natural history of heart disease	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
2	Group o 2.01 Natural history of heart disease	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
2	Group 2.01 Natural history of heart disease	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
2 1	Group 2.01 Natural history of heart disease Group 1.02 Signal processing	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
3	Group 3.03B Neurological diseases	Procedimiento mejorado para evaluar el riesgo cardiovascular	P200901923 (Familia con 2 patentes)	FIBHGM	María Concepción Guisasola, Elena Dulín

AREA	GROUP	TITLE	REFERENCE	OWNER	INVENTORS
4 7	Group 4.01 Infectious diseases. Group 7.25 Artificial circulation laboratory.	Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U201430814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, Mª Jesús Pérez
4	Group 4.01 Infectious diseases	Dispositivo aplicador de antifúngico coloreado	P201430751	FIBHGM	Pablo Martín-Rabadán
4	Group 4.01 Infectious diseases	Portaobjetos	U201430943	FIBHGM	Pablo Martín-Rabadán Caballero
4	Group 4.02 Molecular biology of HIV	Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P201500669 (Familia con 2 patentes)	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 201600726	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 201830197	FIBHGM	Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós
5	Group 5.02 Group Molecular biology of HIV	Dendrímeros carbosilanos catiónicos obtenidos mediante "click chemistry", su preparación y sus usos	P201130804	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	P201030450	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	P201030233 (Familia con 8 patentes)	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	P201231187 (Familia con 2 patentes)	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/ES2018/070064	FIBHGM - UPM	Miguel Martín, María del Monte, Andrés Muñoz, Rocío Ramos, Javier Gayarre, Tatiana Massarrah, Carlos Molpeceres

AREA	GROUP	TITLE	REFERENCE	OWNER	INVENTORS
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 Inflamación y daño vascular en la enfermedad renal crónica, diálisis y trasplante renal. Fisiopatología renal	Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos	PCT/ES2008/070137 (Familia con 23 patentes)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas
7	Group 7.01 Inflamación y daño vascular en la enfermedad renal crónica, diálisis y trasplante renal. Fisiopatología renal	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
7	Group 7.01 Inflamación y daño vascular en la Enfermedad Renal Crónica, Diálisis y Trasplante Renal. Fisiopatología renal	Cilastatin for use in the treatment of sepsis	EP 16382299 (Familia con 11 patentes)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás
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	P201330340	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	P200501182 (Familia con 5 patentes)	FIBHGM	José María Lasso, Paola Nava
7	Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral	Use of esmolol for early regresion of left ventricular hypertrophy	EP10382141 (Familia con 2 patentes)	FIBHGM	Emilio Delgado, Begoña Quintana
7	Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral	Dispositivo protector bucal con depresor lingual	P 201531508 (Familia con 4 patentes)	FIBHGM	Guillermo Juan Rodríguez, Javier Casanova
7	Group 7.25 Artificial circulation laboratory	Método y aparato de hemodiafiltración	PCT/ES2007/070081 (Familia con 3 patentes)	FIBHGM	Juan Francisco del Cañizo
7	Group 7.25 Artificial circulation laboratory	Dispositivo de asistencia ventricular	P201331422	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 (Familia con 14 patentes)	SERMAS - HGUGM	Juan Francisco del Cañizo
7	Group 7.30 Pathophysiology in women, pregnancy, labor, and puerperium	Maqueta didáctica armable	U201530218	FIBHGM	Juan Antonio León
	Servicio de Obstetricia y Ginecología.	Simulador de sutura uterina	U201230998	FIBHGM	Óscar Martínez, Ignacio Cueto, Blanca González
	Servicio de Obstetricia y Ginecología.	Simulador de útero para emergencias obstétricas	P201330161	FIBHGM	Óscar Martínez, Ignacio Cueto, Blanca González, Mª del Mar García, Ana Isabel Casas
	Servicio de Obstetricia y Ginecología.	Dispositivo de sutura (doble aguja)	U201330693	FIBHGM	Óscar Martínez, Luis Ortiz, Ignacio Cueto, Blanca González
	Servicio Cirugía General I	Mango ergonómico de cubierto	U201430605	FIBHGM	Irene de los Ríos, Mª Victoria Sevilla
	Servicio Reanimación	Apósito	U201431166	FIBHGM	José Mª Isla

AREA	GROUP	TITLE	REFERENCE	OWNER	INVENTORS
	Servicio Dermatología	Composición para liberación controlada de compuestos	P201431583	FIBHGM – Dr. Enrique Alía	Enrique Alía Fernández, Elena Conde

Patentes transferidas

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 Asiente 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
1	Group 1.01 Advanced technological applications and human health Group 1.03 Arquitectura de computadores, comunicaciones y sistemas. 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 7	Group 4.01 Infectious diseases 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

AREA	GROUP	Title	Reference	Owner	Inventors
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
5 7	Group 5.03 Systemic autoimmune diseases 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
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	Group 7.04 Diseases of the critically ill child. 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

AREA	GROUP	Title	Reference	Owner	Inventors
7	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
7 4	Group 7.27 Hospital pharmacy and pharmacogenomics 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 sanitaria de Research in nursing 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	Group 7.27 Hospital pharmacy and pharmacogenomics 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	Group 7.27 Hospital pharmacy and pharmacogenomics 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	Group 7.27 Hospital pharmacy and pharmacogenomics 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
7	7.30 Pathophysiology in women, pregnancy, labor, and puerperium	Parto vaginal en 3d	Nº Asiento Registral: 16 / 2019 / 2823	FIBHGM	Juan Antonio de León

AREA	GROUP	Title	Reference	Owner	Inventors
8	Group 8 Research in nursing, Servicio de Urgencias Pediátricas Dpto. Prensa	Nos vamos de excursión a las Urgencias del Gregorio Marañón	Nº Asiento Registral: 16/2016/3799	FIBHGM	Laura Cervantes, Paula Vázquez, David García
	Unidad Técnica del IiSGM	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
	Área de Apoyo a la Innovación Unidad Técnica del IiSGM	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
	Servicio de Urgencias Pediátricas	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

TECHNOLOGY COMPANIES

AMBIOX BIOTECH, S.L.

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.

CLINICAL AND OBSERVATIONAL STUDIES

During the year 2018, a total of 1190 clinical studies (clinical trials and observational studies) were active in our hospital. A total of 210 studies 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 43% of the clinical trials were led by the Translational Oncology Area (Area 6).

ACTIVE CLINICAL STUDIES	
2014	715
2015	945
2016	1048
2017	1226
2018	**1190**

NEW CLINICAL STUDIES			
	Clinical Trials	Observational studies	Total
2014	127	62	189
2015	150	73	223
2016	125	57	182
2017	148	83	231
2018	**136**	**74**	**210**

DISTRIBUTION OF CLINICAL TRIALS SIGNED BY PHASE %					
	2014	2015	2016	2017	**2018**
Phase I	3,9	5,33	7,2	6,8	**11,7**
Phase II	32,2	31,34	30,4	30,8	**34,5**
Phase III	54,3	58	56,8	52,5	**48**
Phase IV	8,6	1,33	2,4	6,3	**3,6**
Others (Medical device, Vaccines)	0,8	4	6,4	3,6	**2,2**

DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2018 (National/International)		
	Nº	%
National	77	36,7
International	133	63,3

DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2018 BY RESEARCH AREA OF IiSGM		
	Nº	%
Area 1	0	0
Area 2	18	8,5
Area 3	19	9
Area 4	15	7,1
Area 5	10	7,6
Area 6	92	43,8
Area 7	41	19,5
Nursing group	0	0
Associated clinicians	15	7,1

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.

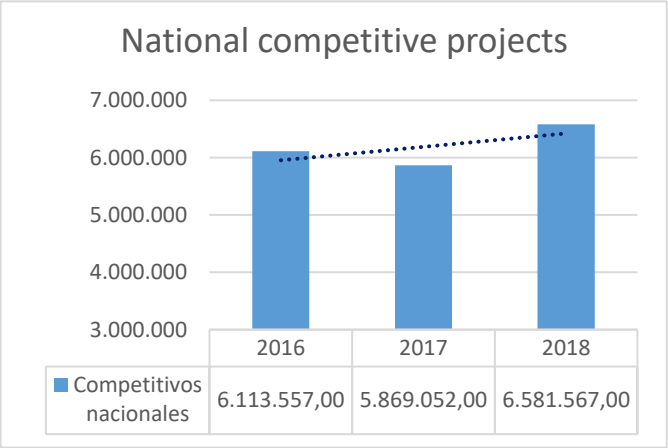
The total income generated by IiSGM researchers 'own activity in 2018 came to 15,503,687€ that is, 7,4% more than in 2017.

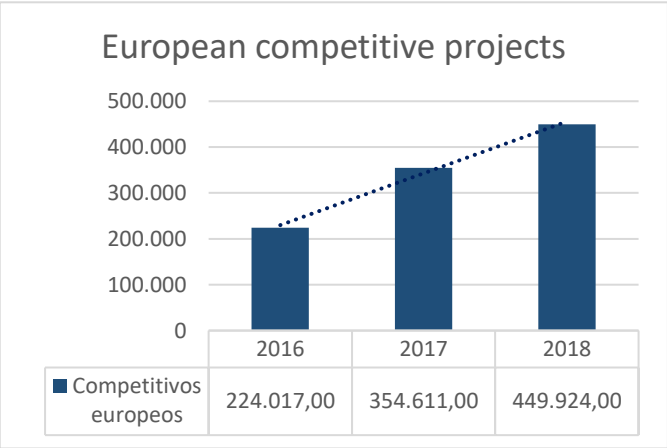
To these revenues must be added the nominative subsidy granted to this foundation by the Consejeria of Health of the Community of Madrid, which would raise total revenues to 1,116,907 euros, 11.7% more than in 2017.

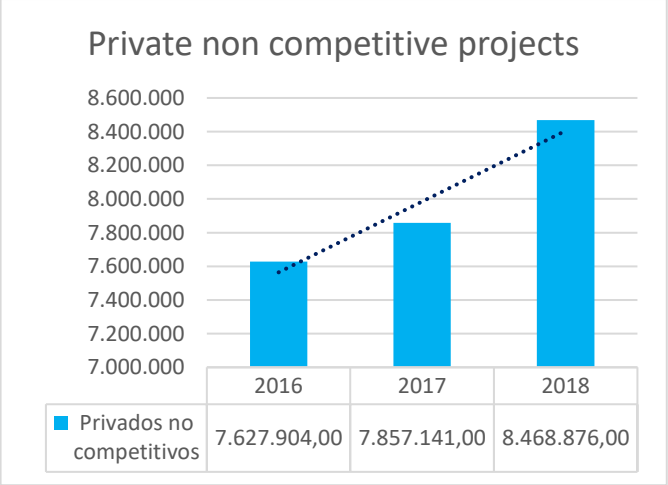
	2014	2015	2016	2017	2018
Total income generated by researchers	12,711,559 €	13,235,424 €	14,219,400 €	14,431,258 €	15,503,687€
Nominative subsidy C. Madrid					612,220€

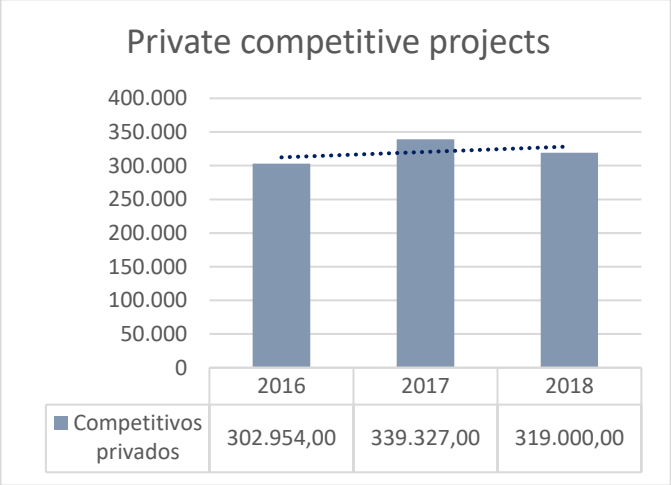
As in previous years, this income is earmarked for the support and development of research activities in the groups.

EVOLUTION OF INCOME GENERATED BY RESEARCHERS BY CATEGORY:



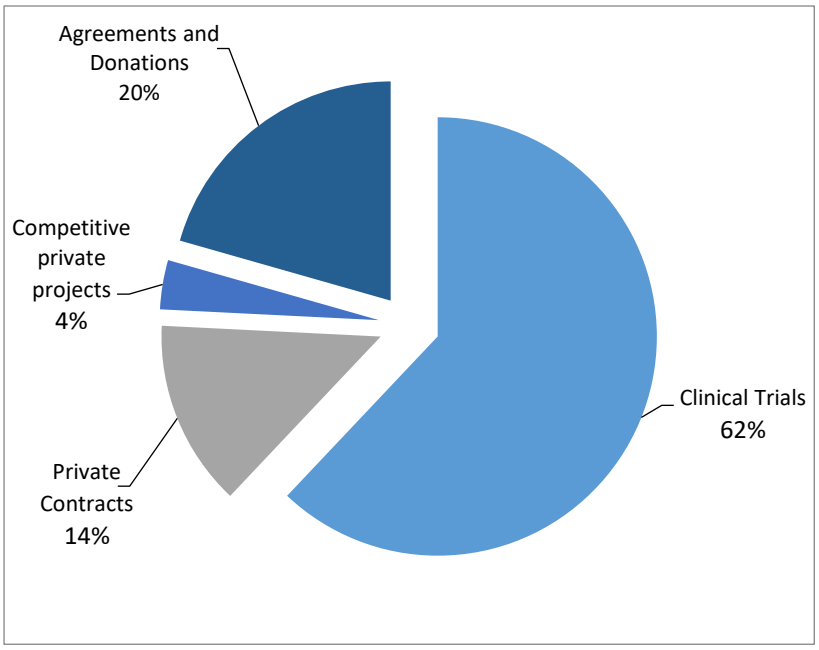






55% of income was from the private sector

Of all income generated exclusively by researchers, 55% was from the private sector, reaching the figure of 8,787,876 euros in 2018, 62% of this amount was from clinical trials activity, which has grown by 8.1% this year

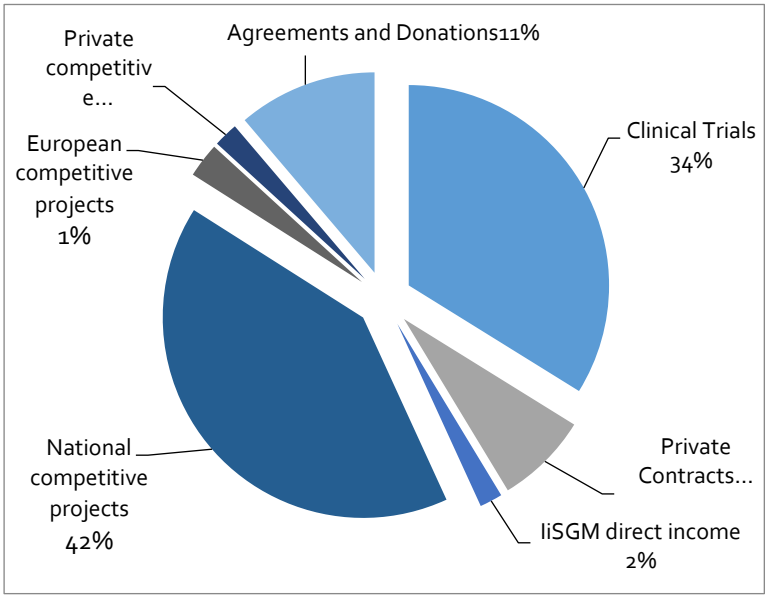


Distribution of private funding (2018))

47% of 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, 47 % of resources have been obtained by attending these calls

In general, the distribution of income is as in previous years, although income from clinical trials reached a new maximum in 2018, accounting for 34% of the entire Institute's income.



Resources generated by IiSGM researchers (2017)

(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 2018 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: **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: **Terapías preventivas en la aparición de desarrollo de la esquizofrenia: Estudios de imagen in vivo (PET y MRI) y de comportamiento** PI14/00860
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

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: **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: **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: **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: **Predoctoral contract**. IFI14/00043
DIRECTOR: ORTEGA GIL, ANA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Young employement contract:** Ayudante de Investigación PEJ15/BIO/AI-0610
DIRECTOR: Joaquin Redondo Castrejon DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Técnico de Laboratorio**. PEJ15/BIO/TL-0216
DIRECTOR: Ana Romero Miranda DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

-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: **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: 31/12/2018

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: 31/12/2018

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: **Detector DoI-ToF para PET compatible con IRM** RTC-2015-3772-1
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Tomografía por emisión de positrones y ultrasonidos (TOPUS)** S2013/MIT-3024
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSÉ / DE TOLEDO, P
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Brain inspired data engineering (BRADE-CM)** S2013/ICE-2958
DIRECTOR: AZCORRA , A
PROJECT TYPE: Research project
FUNDING BODY: Comunidad de Madrid
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Caracterización por imagen de la mecánica de células tumorales** TEC2013-48552-C2-1-R
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2014
END DATE: 31/12/2018

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

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE (Asier Marcos Vidal)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 08/09/2014
END DATE: 07/09/2018

TITLE: **Empleo joven (Ayudante de investigación)** PEJ15/BIO/AI-0593
DIRECTOR: MUÑOZ BARRUTI, ARRATE (Mario González Arjona)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 03/02/2016
END DATE: 02/02/2018

TITLE: **Programa CONEX Marie Curie)**
DIRECTOR: DESCO MENEDEZ, MANUEL (Juan Miguel Parra Robles)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/01/2015
END DATE: 15/01/2018

TITLE: **Programa CONEX Marie Curie)**
DIRECTOR: DESCO MENEDEZ, MANUEL (Juan Miguel Parra Robles)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/01/2015
END DATE: 15/01/2018

GROUP 1.02: Signal processing

-Not managed by the FIBHGM

TITLE: **NICOP -a new sequential Monte Carlo framework for tracking of non-linear complex dynamical systems**. 2015/00154
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Office of Naval Research Global
START DATE: 17/04/2015
END DATE: 16/04/2018

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

TITLE: **Annomalous human behavIour Detection (AID)** TEC2014-62194-EXP
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/09/2015
END DATE: 31/08/2018

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: **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: 31/10/2020

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

AREA 2: CARDIOVASCULAR DISEASE

GROUP 2.01: Natural history of heart disease

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: 31/12/2020

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: 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: **Terapia celular basada en progenitores cardiacos para tratamiento taquicardia ventricular (CPCs-TV**) RTC-2015-4398-1
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: MINECO PROYECTO RETOS 2015.
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **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
START DATE: 01/01/2017
END DATE: 29/12/2019

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
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: 31/12/2018

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: **Coste-efectividad y coste utilidad de una estrategia de transfusión de hematíes "liberal" vs. otra "restricitva" en pacientes con infarto agudo de miocardio y anemia. Estudio REALITY** PI15/01355
DIRECTOR: MARTINEZ- SELLES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Estimación del riesgo trombo-embólico tras infarto agudo de miocardio mediante la cuantificación de la estasis intraventricular**" PI15/02211
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY R: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Análisis de la interacción miocardo-flujo en pacientes con miocardiopatía hipertrófica de causa genética** PI15/02229
DIRECTOR: YOTTI ÁLVAREZ, RAQUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **JUAN RODES contract** JR15/00039
DIRECTOR: PEREZ DEL VILLAR MORO, MARIA CANDELAS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources

START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **JUAN DE LA CIERVA-INCORPORACION Contract**. IJCI-2014-22178
DIRECTOR: BATISTE ANDREU MARTINEZ CLIMENT
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
PROJECT TYPE: Human resources
START DATE: 01/06/2016
END DATE: 31/05/2018

TITLE: **JUAN DE LA CIERVA-INCORPORACION Contract**. IJCI-2014-19507
DIRECTOR: MARTINEZ-LEGAZPI AGUILO PABLO
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
PROJECT TYPE: Human resources
START DATE: 01/06/2016
END DATE: 31/05/2018

TITLE: **RIO HORTEGA Contract** CM16/00166
DIRECTOR: CUENCA PARRA, SOFIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2018

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: 09/03/20107
END DATE: 31/12/2020

GROUP 2.02: Cardiovascular pathophysiology

- **Not managed by the FIBHGM**

TITLE: **Aldosterone and mineralocorticoid receptor: Pathophysiology, clinical implications and therapeutic innovations**. BM1301
DIRECTOR: JAISSER FREDERIC
FUNDING BODY: EUROPEAN UNION
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Papel del estrés oxidativo mitocondrial y los cambios en el lipidoma en la fibrosis asociada a la obesidad en el infarto agudo de miocardio. Mecanismos implicados**. PI15/01060
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE **Mecanismos implicados en las alteraciones de la mecánica cardiaca asociada a la obesidad en el infarto agudo de miocardio. Utilidad de los niveles circulantes de miRNAs**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA

FUNDING BODY: SOCIEDAD ESPAÑOLA DE CARDIOLOGIA
PROJECT TYPE: Research project
START DATE: 20/10/2016
END DATE: 31/12/2018

TITLE **Mecanismos implicados en la fibrosis miocárdica difusa. Papel de los cambios metabólicos miocárdicos.**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: Fundación Eugenio Rodríguez Pascual
PROJECT TYPE: Research project
START DATE: 10/10/2016
END DATE: 01/10/2018

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: 21/12/2029

TITLE: **Análisis funcional de nuevas mutaciones asociadas al síndrome de repolarización temprana cardiaca**. AP153622014
DIRECTOR: CABALLERO, RICARDO / DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 10/2012
END DATE: 04/2018

TITLE: **CantuTreat. Sulphonylureas to treate Canty Syndrom** AC14/00029
DIRECTOR: CABALLERO, RICARDO
PROJECT TYPE: Reseach project.
FUNDING BODY: UNION EUROPEA. Erare Joint Trasnational Call for Proposals 2014.
START DATE: 01/2015
END DATE: 04/2018

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: **Aggression Subtyping for Improved Insight and Treatment Innovation in Psychiatric Disorders.** 7PM13/AGGRESSOTYPE
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: European research project
START DATE: 01/11/2013
END DATE: 01/11/2018

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: **Neuroimaging platform for characterisation of metabolic co-morbidities in psychotic disorders** 7PM13/METSY
DIRECTOR: MORENO RUIZ, CARMEN
FUNDING BODY: EUROPEAN UNION
TYPE OF PROJECT: European research project
START DATE: 01/09/2013
END DATE: 01/05/20108

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: **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, Mª DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
TYPE OF PROJECT:Research project
START DATE: 01/01/2016

END DATE: 31/12/2018

TITLE: **Estudio multicentrico 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: 31/12/2018

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 AND BEHAVIOUR RESEARCH FOUNDATION
TYPE OF PROJECT:Research project
START DATE: 01/03/2016
END DATE: 28/02/2018

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: **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** 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: **POSTDOCTORAL CM Contract**
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 01/01/2017
END DATE: 05/02/2018

TITLE: **Young employement contract** Laboratory Technician PEJD-2016/BMD-3061
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Ayudante investigación.** PEJ15/BIO/AI-0339

DIRECTOR: MONTEAGUADO ROMERO, LAURA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract:** Ayudante investigación. PEJ15/BIO/AI-0328
DIRECTOR: GEREZ DE ANDRES, DIEGO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
TYPE OF PROJECT:Human resources
START DATE: 01/03/2016
END DATE: 01/03/2018

GROUP 3.05B Neurologic diseases

TITLE: **Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN COMMISSION
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
PROJECT TYPE: European research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
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

TITLE: **Young employment program:Laboratory technician** PEJ-2017-TL/BMD-7589
DIRECTOR: GUISASOLA ZULUETA, MARIA CONCEPCIÓN
FUNDING BODY: MICINN-MINECO
PROJECT TYPE: Human resources
START DATE: 00/01/2018
END DATE: 31/12/2018

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: **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: **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: 31/12/2018

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: 31/12/2018

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: 31/12/2018

TITLE: **Impacto clínico de la integración de la triada compuesta por datos de farmacocinética, farmacodinamia y patogenicidad de Candida en el pronóstico del paciente con candidemia**. PI14/00740
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **PROMULGA II: Validación de la eficacia de un "bundle" de medidas en la incidencia, diagnóstico rápido, tratamiento y mortalidad de la infección fungica nosocomial.** PI13/01148

DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2014
END DATE: 30/06/2018

TITLE: **Evolución de la prevalencia, diagnóstico, caracterización fenotípica y genotípica de la infección ppor C. difficile (icd) en españa. Factores de riesgo de recurrencia y valor del pet-tac en la icd**. PI13/00687
DIRECTOR: REIGADAS RAMIREZ, ELENA MANUELA; BOUZA SANTIAGO, EMILIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2014
END DATE: 30/06/2018

TITLE: **Estudio randomizado para evalluar el sellado de catéteres venosos periféricos con heparina vs. suero salino en pacientes ingresados en medicina interna**. FEMI14/01
DIRECTOR: BOUZA SANTIAGO, EMILIO
FUNDING BODY: FUNDACIÓN ESPAÑOLA DE MEDICINA INTERNA
PROJECT TYPE:Research project
START DATE: 21/01/2015
END DATE: 21/01/2018

TITLE: **Optimización del manejo de la infección fúngica invasora en el paciente transplantado y en el paciente oncológico, mortalidad y coste hospitalario**. FMM14/13
DIRECTOR: VALERIO MINERO, MARICELA
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
PROJECT TYPE:Research project
START DATE: 01/07/2014
END DATE: 30/06/2018

TITLE: **Miguel Servet II Contract** CPII15/00006
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/07/2016
F END DATE: 31/12/2018

TITLE: **Miguel Servet Contract** I 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 II 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** CP13/00268
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: **Young employement contract**: **Laboratory technician**. PEJ16/MED/TL-1507
DIRECTOR: RODRIGUEZ SÁNCHEZ, BELEN
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2018

TITLE: **Young employement contract: Laboratory technician**.PEJ15/BIO/TL-0243
DIRECTOR: MARTINEZ LOZANO, ANDREA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract**: **Laboratory technician**. PEJ15/BIO/TL-0228
DIRECTOR: SANTANTON GARRIDO, SHEILA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract**: **Laboratory technician**.PEJ15/BIO/TL-0211
DIRECTOR: DIAZ PEREZ, NADIRE Mª
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Research Assistant**. PEJ15/BIO/AI-0406
DIRECTOR: ALONSO FERNÁNDEZ, BEATRIZ
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

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

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: **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: **Evaluación de la respuesta a un inmunógeno polivalente administrado vía mucosa sublingual en la prevención de infecciones recurrentes en pacientes con EPOC**. PI12/02936
DIRECTOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2013
END DATE03/10/2018

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: **Biomarcadores de respuesta terapéutica y de hepatoxicidad a anti-folatos en enfermedades inflamatorias** PI14/00075
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2015
END DATE:30/01/2019

TITLE: **Estudio Multicéntrico internacional de escalas de riesgo de infección en trasplante de órgano sólido**. PI15/01472
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **Regulación microambiental de la migración de células tumorales e inflamatorias en modelos 3D: estudio de las interacciones erm/microtúbulos y quimiocinas (CAME)** SAF2010-16102
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: MINECO
PROJECT TYPE: Research project
START DATE: 01/01/2011
END DATE:20/09/2018

TITLE: **Artritis reumatoide: Mecanismos fisiopatológicos e identificación de posibles dianas terapeúticas PROYECTO RAPHYME** S2010/BMD-2350
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: COMUNIDAD DE MADRID
PROJECT TYPE: Research project
START DATE: 01/01/2012
END DATE:20/09/2018

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 (Comunidad de Madrid**). 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: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). 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: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). PEJ-2017-TL/BMD-6471
DIRECTOR: RODRIGUEZ SAINZ, CARMEN
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). PEJD-2016/BMD-2762
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2017

TITLE: **Young employement contract: Ayudante Investigacion.** PEJ16/MED/AI-1868
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources

START DATE: 01/01/2017
END DATE: 31/12/2018

TITLE: **Young employement** contract:Técnico de Laboratorio. PEJ15/BIO/TL-0609
DIRECTOR: LERMA GOMEZ, RAQUEL
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/03/2016
END DATE: 01/03/2018

GROUP 5.02: Molecular biology of HIV

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: **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: 31/12/2018

TITLE: **SARA BORRELL Contract**. CD14/003203
DIRECTOR: GONZALEZ-SERNA MARTIN, MANUEL ALEJANDRO
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2018

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:31/12/209

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: **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: 31/12/2018

TITLE: **Estudio de los mecanismos de desregulación de las poblaciones celulares implicadas en la homeostasis inmune y en la híper-activación inmunológica presente en pacientes VIH**. PI15/00923
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

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: 01/01/2015
END DATE: 31/12/2018

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: **Contract ESTABILIDAD DOCTORES** IEDI-2015-00616
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN/MINECO
START DATE: 13/07/2015
END DATE: 13/04/2018

TITLE: **PREDOCTORAL Contract (Comunidad de Madrid)** PEJD-2016/BMD-3191
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/01/2017
END DATE: 31/12/2017

TITLE: **Young employement contract: Ayudante Investigación.**PEJ15/BIO/AI-0251
DIRECTOR: BERNALDO DE QUIROS PLAZA, ESTHER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0094
DIRECTOR: PRIETO SANCHEZ, ADRIAN
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0094
DIRECTOR: PEREZ FERNANDEZ, VERONICA ASTRID
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

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: NAVARRO GÓMEZ, MARÍA LUISA
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: **Young employement contract**: **Soporte al Desarrollo de la Cohorte Nacional de Pacientes Coinfectados Perinatalmente Por Vih-Vhc**. PEJ-2014-P-01122
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Human resources
FUNDING BODY: MICINN/MINECO
START DATE: 12/11/2015
END DATE: 13/11/2017

AREA 6: TRANSLATIONAL ONCOLOGY

GROUP 6.01: Interdisciplinary oncology and biotechnology

TITLE: **Optimización de la radioterapia intraoperatoria adaptada en quirófano tecnológico: navegación, imagen, miniaturización y dosimetría**. PI15/02121
DIRECTOR: CALVO MANUEL, FELIPE ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Young employement Contract: Técnico laboratorio.** PEJ15/BIO/TL-0347
DIRECTOR: POLA CABALLERO, PATRICIA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

GROUP 6.02: Translational medical oncology and personalized cancer therapy

TITLE: **Predictores genómicos de respuesta a la quimioterapia neoadyuvante docetaxel-carboplatino en pacientes con cancer de mama triple negativo** PI12/02684
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 13/12/2018

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: **Predicción de la respuesta completa patológica tras tratamiento neoadyuvante mediante biopsia por radiofrecuencia robotizada en el cancer de mama estadios II-III UICC**. FS12/04
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SALUD 2000
START DATE: 05/07/2013
END DATE: 20/09/2018

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

TITLE: **Young employement Contract."Implementación de tecnologías de NGS en el pronóstico clínico del subtipo de cáncer de mama triple**. PEJ-2014-P-01124
DIRECTOR: MUÑOZ MARTÍN, ANDRES
PROJECT TYPE: Human resources

FUNDING BODY: MICINN/MINECO
START DATE: 01/01/2016
END DATE: 18/09/2018

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: **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: 31/12/2018

TITLE: **Valor pronóstico de un perfil genómico de riesgo para el tratamiento personalizado de complicaciones en pacientes sometidos a trasplante alogénico de progenitores hematopoyéticos**. PI14/01731
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Papel de la senescencia en la actividad inmunorreguladora de las células madre mesenquimales humanas**. PLE2009/0112
DIRECTOR: DÍEZ MARTÍN, JOSÉ LUÍS
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/11/2009
END DATE: 21/09/2018

TITLE: **Hacia la curación de la leucemia aguda mediante medicina personalizada basada en terapia celular alogénica**. FMM15/04
DIRECTOR: DÍEZ MARTÍN, JOSÉ LUÍS
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 05/03/2015
END DATE: 05/03/2018

TITLE: **Estudio de la alorreactidad kir en el trasplante haploidéntico: valoración integral para la elección del mejor donante**. FMM13/28
DIRECTOR: ANGUITA VELASCO, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/07/2013
END DATE: 21/09/2018

TITLE: **Cuantificación de las células madre mesenquimales autólogas infundidas en el tratamiento de pacientes diagnósticos de necrosis vascular de la cabeza del fémur**. FMAP12/06
DIRECTOR: SERRANO SIMONNEAU, DAVID
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MAPFRE
START DATE: 01/03/2013
END DATE: 31/12/2018

TITLE: **Detección de mutaciones en el dominio ABL cinasa mediante secuenciación masiva profunda en pacientes LMC y LLA Ph positivos**. IB1
DIRECTOR: MARTÍNEZ LAPERCHE, CAROLINA / BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY:
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0592
DIRECTOR: PACHECO AGUADO, ANA Mª
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

AREA 7: PATOLOGIA DE GRANDES SISTEMAS Y TRASPLANTE DE ORGANOS

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

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 asociado al paludismo y limita la propagación del fallo renal séptico**. PI14/01195
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2017

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: **Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatologia 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: **Evaluación de la asociación entre el volumen hepático determinado por procedimientos de imagen y acontecimientos clave en la historia natural de la cirrosis. Un enfoque traslacional.** PI15/02037
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
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 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: 31/12/2018

TITLE: **Disfunción de barrera, fibrosis y carcinogénesis asociadas a inflamación crónica en un modelo murino de enterocolitis: análisis mediante imagen y evaluación de un nuevo marcador molecular** PI13/02555
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/12/2018

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: **Cognitive Function and Quality of Live Following HCV Erradication.** GILEAD15-01
DIRECTOR: GARCIA MARTINEZ, RITA
PROJECT TYPE: Research project
FUNDING BODY: GILEAD III FELLOWSHIP
START DATE: 21/01/2016
END DATE: 21/01/2018

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.** CM14/00023
DIRECTOR: IBAÑEZ SAMANIEGO, LUIS
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 16/02/2018

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 :Ayudante de investigación.** PEJ16/MED/AI-1104
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE.COMUNIDAD DE MADRID
START DATE: 01/01/2017
END DATE: 13/12/2018

GROUP 7.04: Diseases of the critically ill child

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: **Juan Rodés Contract**. JR15/00038
DIRECTOR: SOLANA GARCÍA, MARÍA JOSÉ
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

GROUP 7.05B

TITLE: **Estudio aleatorio, controlado de eficacia y seguridad del uso de cpap en el postoperatorio inmediato de reseccion pulmonar como profilaxis de complicaciones respiratorias.** PI12/02734
DIRECTOR: PUENTE MAESTU, LUIS

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/01/2019

TITLE: **Efecto de la administración de sevoflurano y de lidocaína durante la perfusión pulmonar exvivo en un modelo experimental de trasplante de donante en asistolia** PI13/00002
DIRECTOR: SIMÓN ADIEGO, CARLOS MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 30/06/2018

TITLE: **Intervenciones terapéuticas sobre las balsas de colesterol epitelial epiteliales destinadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/0026
DIRECTOR: LÁZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

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: LÁZARO FERNANDEZ, ALBERTO
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 7.10: Regeneration and biomaterials in musculoskeletal diseases

TITLE: **Young employement Contract**: **Rompiendo Brecha Comunicativa: Colaboración Áreas Imagen Médica e Impresión 3D Quirúrgica**. PEJ-2014-P-01128
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Human resources
FUNDING BODY: MICINN/MINECO
START DATE: 13/11/2015
END DATE: 14/11/2017

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

TITLE: **Regresión precoz del remodelado cardiovascular tras tratamiento con dronedarona en un modelo experimental de rata hipertensa.** PI13/01261
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/12/2018

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

TITLE: I**ntegrated prevention and detection solutions tailored to the population and risk factors asociated with falls**. CIP11/IDONTFALL
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: EUROPEAN COMMISSION
START DATE: 01/04/2012
END DATE: 21/09/2018

TITLE: **Prevencion del deterioro funcional asociado a la hospitalización en ancianos mediante un programa de ejercicio físico.** PI12/02852
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 31/12/2018

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

TITLE: **Uso de heliox en la prevencion del daño respiratorio crónico tras la exposición a diferentes concentraciones de oxígeno en rats recien nacidas**. PI11/01338
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2012
END DATE: 20/09/2018

TITLE: **entilación mecánica de alta frecuencia con frecuencias elevadas de protección pulmonar en el sindrome de distrés respiratorio de lechones recien nacidos**. PI14/00149
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

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: **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: 31/12/2018

GROUP 7.27: Hospital pharmacy and pharmacogenomics

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

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: **E-OncoSalud: programa de tele-medicina aplicado al tratamiento ambulatorio del paciente onco-hematológico**. PI13/02056
DIRECTOR: SANJURJO SÁEZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 30/09/2018

TITLE: **Patient-reported Outcomes in Lung cancer: Estudio PeOpLe** VEV-PUL-2017-01
DIRECTOR: ESCUDERO VILAPLANA, VICENTE
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE FARMACIA HOSPITALARIA
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Young employement contract: Ayudante de Investigación** PEJ16/MED/AI-1260
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/01/2018
END DATE: 31/12/2020

TITLE: **Young employement contract: Técnico de laboratorio.** PEJ15/BIO/TL-0603
DIRECTOR: BLANCO AGUDO, CAROLINA PILAR
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/03/2016
END DATE: 01/03/2018

GROUP 7.29: Pharmacology and vascular pathophysiology

TITLE: **Miguel Servet tipo IIcontract** CPII17/00020
DIRECTOR: MORENO GUTIERREZ, MARIA

PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/02/2018
END DATE: 06/03/2018

TITLE: **Young employement contrac: Ayudante de investigación.** PEJ15/BIO/AI-0024
DIRECTOR: MONDEJAR PARREÑO, GEMA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contrac: Ayudante de investigación.** PEJ15/BIO/AI-0030
DIRECTOR: CALLEJO ARRANZ, MARIA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

- **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: 31/12/2018

TITLE: **Terapia Celular en Hipertensión Pulmonar asociada a broncodisplasia: Estudio de los microRNas secretados por las células mesenquimales como tratamiento para la disfunción vascular.**
DIRECTOR: MORENO GUTIERREZ, LAURA; ÁLVAREZ LAFUENTE, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: Fundación de Pacientes contra la Hipertensión
START DATE: 01/06/2016
END DATE: 31/05/2018

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 7.30 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

SCIENTIFIC PUBLICATIONS

The list presented below shows all the referenced publications in which investigators from the IiSGM participated in during 2018. 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
ACS CHEMICAL NEUROSCIENCE	3.861	1	3.861	1
ACTA DERMATO-VENEREOLOGICA	3.531	1	3.531	1
ACTA PAEDIATRICA	2.265	3	6.795	2
ACTA PSYCHIATRICA SCANDINAVICA	4.694	3	14.082	1
ACTAS UROLOGICAS ESPANOLAS	1.136	4	4.544	4
ADICCIONES	3.167	2	6.334	1
ADV SKIN WOUND CARE	1.355	1	1.355	2
ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY	2.126	1	2.126	2
AGING AND DISEASE	4.232	1	4.232	1
AIDS	4.499	2	8.998	1
AIDS PATIENT CARE ST	3.742	1	3.742	1
ALLERGOLOGIA ET IMMUNOPATHOLOGIA	1.640	3	4.920	4
ALLERGY	6.771	1	6.771	1
AM J PERINAT	1.581	1	1.581	3
AMERICAN JOURNAL OF ALZHEIMERS DISEASE AND OTHER DEMENTIAS	1.464	2	2.928	4
AMERICAN JOURNAL OF CARDIOLOGY	2.843	1	2.843	2
AMERICAN JOURNAL OF GASTROENTEROLOGY	**10.241**	**2**	**20.482**	**1**
AMERICAN JOURNAL OF MEDICAL GENETICS PART A	2.197	1	2.197	3
AMERICAN JOURNAL OF MEDICINE	4.760	1	4.760	1
AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY	4.06	1	4.060	1
AMERICAN JOURNAL OF PSYCHIATRY	**13.655**	**1**	**13.655**	**1**
AMERICAN JOURNAL OF THERAPEUTICS	1.133	1	1.133	4
AMERICAN JOURNAL OF TRANSPLANTATION	7.163	1	7.163	1
ANAEROBE	2.704	1	2.704	3
ANALES DE PEDIATRIA	1.166	8	9.328	3
ANN NUTR METAB	3.051	1	3.051	2
ANN PHARMACOTHER	2.443	1	2.443	3
ANNALS OF ANATOMY-ANATOMISCHER ANZEIGER	2.241	1	2.241	2
ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY	4.656	1	4.656	1
ANNALS OF HEMATOLOGY	2.850	2	5.700	3
ANNALS OF INTERNAL MEDICINE	**19.315**	**1**	**19.315**	**1**
ANNALS OF MEDICINE	3.049	2	6.098	1
ANNALS OF NONINVASIVE ELECTROCARDIOLOGY	1.235	1	1.235	4

Journal	IF	Nº	Amount IF	Q
ANNALS OF ONCOLOGY	14.196	5	70.980	1
ANNALS OF SURGERY	9.476	1	9.476	1
ANNALS OF SURGICAL ONCOLOGY	3.681	1	3.681	1
ANNALS OF THE RHEUMATIC DISEASES	14.299	1	14.299	1
ANNALS OF THORACIC SURGERY	3.919	1	3.919	1
ANNALS OF TRANSLATIONAL MEDICINE	3.689	1	3.689	2
ANTICANCER RESEARCH	1.935	1	1.935	4
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY	4.715	6	28.290	1
ANTIVIR RES	4.130	1	4.130	1
ARCH BIOCHEM BIOPHYS	3.559	1	3.559	2
ARCHIVES OF MEDICAL RESEARCH	1.895	1	1.895	3
ARCHIVOS ARGENTINOS DE PEDIATRIA	0.506	2	1.012	4
ARCHIVOS DE BRONCONEUMOLOGIA	4.214	9	37.926	1
ARCHIVOS ESPANOLES DE UROLOGIA	0.335	2	0.670	4
ARTHRITIS RESEARCH & THERAPY	4.148	2	8.296	2
ARTIFICIAL ORGANS	2.379	1	2.379	2
ASAIO JOURNAL	2.494	1	2.494	2
ATHEROSCLEROSIS	4.255	2	8.510	1
AUTOIMMUN REV	7.716	1	7.716	1
BEHAV PHARMACOL	1.788	1	1.788	3
BIOCONJUGATE CHEM	4.349	1	4.349	1
BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION	3.599	1	3.599	2
BIOMED RESEARCH INTERNATIONAL	2.197	2	4.394	3
BIOMEDICAL SIGNAL PROCESSING AND CONTROL	2.943	1	2.943	2
BLOOD CANCER JOURNAL	7.895	1	7.895	1
BMC BIOINFORMATICS	2.511	1	2.511	1
BMC CANCER	2.933	2	5.866	3
BMC INFECTIOUS DISEASES	2.565	1	2.565	3
BMC MEDICAL GENETICS	1.74	1	1.740	3
BMC MEDICINE	8.285	1	8.285	1
BMC PSYCHIATRY	2.666	1	2.666	2
BMC PUBLIC HEALTH	2.567	1	2.567	2
BMJ OPEN	2.376	2	4.752	2
BONE MARROW TRANSPLANTATION	4.674	2	9.348	1
BRAIN STIMULATION	6.919	1	6.919	1
BRAZILIAN JOURNAL OF OTORHINOLARYNGOLOGY	1.603	1	1.603	2
BREAST	3.494	1	3.494	1
BREAST CANCER RESEARCH AND TREATMENT	3.471	2	6.942	2
BRIT J ORAL MAX SURG	1.164	1	1.164	3
BRIT J RADIOL	1.939	1	1.939	3
BRITISH JOURNAL OF ANAESTHESIA	6.199	1	6.199	1
BRITISH JOURNAL OF CANCER	5.416	1	5.416	1
BRITISH JOURNAL OF HAEMATOLOGY	5.206	4	20.824	1

Journal	IF	Nº	Amount IF	Q
BRITISH JOURNAL OF SURGERY	5.586	2	11.172	1
CAN J PSYCHIAT	4.08	1	4.080	1
CAN J SURG	2.306	1	2.306	2
CANADIAN JOURNAL OF CARDIOLOGY	5.592	1	5.592	1
CANCER	6.102	1	6.102	1
CANCER IMMUNOLOGY RESEARCH	8.619	1	8.619	1
CANCER MANAGEMENT AND RESEARCH	2.243	1	2.243	3
CANCER MEDICINE	3.357	1	3.357	2
CARBON	7.466	1	7.466	1
CARDIOLOGY	1.561	1	1.561	4
CARDIOVASCULAR DIABETOLOGY	5.948	1	5.948	1
CARDIOVASCULAR DRUGS AND THERAPY	4.181	2	8.362	1
CARTILAGE	2.961	1	2.961	1
CELL STRESS & CHAPERONES	2.903	1	2.903	3
CELLS	5.656	1	5.656	1
CELLULAR & MOLECULAR IMMUNOLOGY	8.213	1	8.213	1
CEPHALALGIA	4.438	1	4.438	1
CHEST	9.657	1	9.657	1
CIRCULATION RESEARCH	**15.862**	**7**	**111.034**	**1**
CIRUGIA ESPANOLA	0.835	1	0.835	4
CLINICAL & TRANSLATIONAL ONCOLOGY	2.441	12	29.292	3
CLINICAL AND EXPERIMENTAL DERMATOLOGY	1.771	1	1.771	3
CLINICAL AND EXPERIMENTAL IMMUNOLOGY	3.711	1	3.711	2
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY	3.238	4	12.952	2
CLINICAL CANCER RESEARCH	8.911	5	44.555	1
CLINICAL CARDIOLOGY	2.455	2	4.910	2
CLINICAL COLORECTAL CANCER	3.176	1	3.176	2
CLINICAL GENITOURINARY CANCER	2.45	1	2.450	2
CLINICAL INFECTIOUS DISEASES	9.055	5	45.275	1
CLINICAL JOURNAL OF PAIN	2.893	1	2.893	2
CLINICAL KIDNEY JOURNAL	2.975	3	8.925	1
CLINICAL LABORATORY	0.955	1	0.955	4
CLINICAL MICROBIOLOGY AND INFECTION	6.425	10	64.250	1
CLINICAL NEUROPHYSIOLOGY	3.675	1	3.675	2
CLINICAL NUTRITION	6.402	4	25.608	1
CLINICAL SCIENCE	5.237	1	5.237	1
COLLOIDS AND SURFACES B-BIOINTERFACES	3.973	1	3.973	1
COMPREHENSIVE PSYCHIATRY	2.586	1	2.586	2
COMPUT PHYS COMMUN	3.309	1	3.309	1
CONTACT DERMATITIS	5.504	1	5.504	1
CURR MICROBIOL	1.595	1	1.595	4
CURR OPIN INFECT DIS	3.752	1	3.752	2
CURRENT OPINION IN IMMUNOLOGY	7.667	1	7.667	1

Journal	IF	Nº	Amount IF	Q
CURRENT PSYCHIATRY REPORTS	3.816	1	3.816	1
CYTOM PART B-CLIN CY	2.938	1	2.938	1
CYTOTHERAPY	4.297	1	4.297	1
DERMATITIS	2.63	1	2.630	2
DIABETES METABOLIC SYNDROME AND OBESITY-TARGETS AND THERAPY	3.319	2	6.638	2
DIABETES RES CLIN PR	3.239	1	3.239	2
DIGESTIVE ENDOSCOPY	3.64	1	3.640	1
DISEASE MODELS & MECHANISMS	4.028	1	4.028	1
EARLY INTERVENTION IN PSYCHIATRY	3.323	1	3.323	1
EJSO	3.379	1	3.379	1
EMERGENCIAS	3.350	2	6.700	1
EMERGING INFECTIOUS DISEASES	7.185	2	14.370	1
ENDOCRINOLOGIA DIABETES Y NUTRICION	0.934	3	2.802	4
ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA	1.685	12	20.220	4
ENTROPY	2.419	1	2.419	2
EUR J CLIN INVEST	2.784	1	2.784	1
EUR J GASTROEN HEPAT	2.198	1	2.198	3
EURASIP JOURNAL ON ADVANCES IN SIGNAL PROCESSING	1.749	1	1.749	3
EUROINTERVENTION	4.018	2	8.036	2
EUROPACE	6.100	4	24.400	1
EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE	3.192	2	6.384	2
EUROPEAN CHILD & ADOLESCENT PSYCHIATRY	3.740	3	11.220	1
EUROPEAN HEART JOURNAL	**23.239**	**3**	**69.717**	**1**
EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE	3.734	2	7.468	2
EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY	6.723	3	20.169	1
EUROPEAN JOURNAL OF CANCER	6.680	4	26.720	1
EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES	2.591	4	10.364	3
EUROPEAN JOURNAL OF DERMATOLOGY	3.094	2	6.188	1
EUROPEAN JOURNAL OF HAEMATOLOGY	2.217	1	2.217	3
EUROPEAN JOURNAL OF HEALTH ECONOMICS	2.169	1	2.169	1
EUROPEAN JOURNAL OF HEART FAILURE	**13.965**	**1**	**13.965**	**1**
EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE	0.717	1	0.717	4
EUROPEAN JOURNAL OF HUMAN GENETICS	3.65	1	3.650	2
EUROPEAN JOURNAL OF INTERNAL MEDICINE	3.660	6	21.960	1
EUROPEAN JOURNAL OF NEUROLOGY	4.387	1	4.387	1
EUROPEAN JOURNAL OF PEDIATRICS	2.188	1	2.188	2
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY	5.64	2	11.280	1
EUROPEAN JOURNAL OF PSYCHIATRY	0.702	1	0.702	4
EUROPEAN JOURNAL OF VASCULAR AND ENDOVASCULAR SURGERY	3.642	1	3.642	1
EUROPEAN NEUROPSYCHOPHARMACOLOGY	4.468	1	4.468	1
EUROPEAN PSYCHIATRY	3.941	1	3.941	1
EUROPEAN RESPIRATORY JOURNAL	**11.807**	**1**	**11.807**	**1**
EUROPEAN SURGICAL RESEARCH	1.629	1	1.629	3

Journal	IF	Nº	Amount IF	Q
EUROPEAN UROLOGY	**17.298**	**2**	**34.596**	**1**
EVIDENCE-BASED COMPLEMENTARY AND ALTERNATIVE MEDICINE	1.984	1	1.984	2
EXPERT OPINION ON DRUG SAFETY	3.22	3	9.660	2
EXPERT REVIEW OF PHARMACOECONOMICS & OUTCOMES RESEARCH	1.828	1	1.828	3
EXPERT REVIEW OF RESPIRATORY MEDICINE	2.622	1	2.622	3
FEMS YEAST RESEARCH	2.458	1	2.458	2
FRONTIERS IN BEHAVIORAL NEUROSCIENCE	2.622	1	2.622	2
FRONTIERS IN IMMUNOLOGY	4.716	8	37.728	2
FRONTIERS IN MEDICINE	3.113	1	3.113	1
FRONTIERS IN MICROBIOLOGY	4.259	1	4.259	1
FRONTIERS IN PEDIATRICS	2.349	2	4.698	2
FRONTIERS IN PHYSIOLOGY	3.201	2	6.402	2
FRONTIERS IN PSYCHIATRY	3.161	1	3.161	2
FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE	5.768	1	5.768	1
FUTURE MICROBIOLOGY	2.746	1	2.746	3
FUTURE ONCOLOGY	2.279	1	2.279	3
GASTRIC CANCER	5.554	1	5.554	1
GASTROENTEROLOGIA Y HEPATOLOGIA	1.126	5	5.630	4
GASTROENTEROLOGY	**19.233**	**1**	**19.233**	**1**
GERONTOLOGIST	3.628	1	3.628	1
GYNECOLOGIC AND OBSTETRIC INVESTIGATION	1.302	1	1.302	4
HEART	5.082	3	15.246	1
HEART LUNG AND CIRCULATION	2.078	1	2.078	3
HEMODIALYSIS INTERNATIONAL	1.737	1	1.737	3
HEPATOLOGY	**14.971**	**2**	**29.942**	**1**
HERNIA	2.288	1	2.288	2
HISTOLOGY AND HISTOPATHOLOGY	1.777	1	1.777	3
HISTOPATHOLOGY	3.294	1	3.294	2
HUMAN BRAIN MAPPING	4.554	1	4.554	1
HUMAN PATHOLOGY	2.74	1	2.740	2
HYPERTENSION	7.017	1	7.017	1
IEEE ACCESS	4.098	4	16.392	1
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS	4.217	1	4.217	1
IEEE SIGNAL PROCESSING LETTERS	3.268	1	3.268	2
IEEE SIGNAL PROCESSING MAGAZINE	7.602	1	7.602	1
IEEE T VEH TECHNOL	5.339	1	5.339	1
IEEE TRANSACTIONS ON COMMUNICATIONS	5.690	1	5.690	1
IEEE TRANSACTIONS ON INFORMATION THEORY	3.215	1	3.215	1
IEEE TRANSACTIONS ON MEDICAL IMAGING	7.816	2	15.632	1
IEEE TRANSACTIONS ON SIGNAL PROCESSING	5.23	1	5.230	1
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	6.394	1	6.394	1
IMMUNOTHERAPY	3.028	1	3.028	3

Journal	IF	Nº	Amount IF	Q
INFECTIOUS DISEASES	2.191	1	2.191	3
INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED	1.834	1	1.834	2
INTENSIVE CARE MEDICINE	**18.967**	**4**	**75.868**	**1**
INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY	1.931	3	5.793	2
INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY	2.932	1	2.932	3
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS	4.615	2	9.230	1
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS	1.232	2	2.464	4
INTERNATIONAL JOURNAL OF CANCER	4.982	1	4.982	1
INTERNATIONAL JOURNAL OF CARDIOLOGY	3.471	8	27.768	2
INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE	3.274	4	13.096	2
INTERNATIONAL JOURNAL OF CLINICAL PRACTICE	2.613	1	2.613	2
INTERNATIONAL JOURNAL OF DERMATOLOGY	1.794	2	3.588	3
INTERNATIONAL JOURNAL OF DIGITAL EARTH	3.985	1	3.985	1
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2.468	1	2.468	1
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	4.183	1	4.183	2
INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY	4.207	1	4.207	1
INTERNATIONAL ORTHOPAEDICS	2.384	1	2.384	2
INTERVENTIONAL NEURORADIOLOGY	1.45	1	1.450	4
INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE	3.812	1	3.812	1
J ADV NURS	2.376	1	2.376	1
J ALLERGY CLIN IMMUN	**14.11**	**1**	**14.110**	**1**
J APPL STAT	0.767	1	0.767	3
J CANCER EDUC	1.69	1	1.690	3
J CLIN VIROL	3.020	1	3.020	2
J HYPERTENS	4.209	1	4.209	1
J INFECT DIS	5.045	2	10.090	1
J INVEST MED	1.994	1	1.994	2
J NEUROL NEUROSUR PS	8.272	1	8.272	1
J NEURO-ONCOL	3.129	1	3.129	2
J ORTHOP RES	3.043	1	3.043	1
J SLEEP RES	3.432	1	3.432	2
J ULTRAS MED	1.718	1	1.718	2
J VIRAL HEPATITIS	4.016	1	4.016	1
J VIROL	4.324	1	4.324	1
JACC-CARDIOVASCULAR INTERVENTIONS	9.544	2	19.088	1
JACC-HEART FAILURE	8.91	2	17.820	1
JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES	3.863	1	3.863	1
JAMA DERMATOLOGY	7.995	1	7.995	1
JAMA PSYCHIAT	**15.916**	**1**	**15.916**	**1**
JCI INSIGHT	6.014	1	6.014	1
JMIR MHEALTH AND UHEALTH	4.301	1	4.301	1
JOINT BONE SPINE	3.278	1	3.278	2
JOURNAL OF AFFECTIVE DISORDERS	4.084	1	4.084	1

Journal	IF	Nº	Amount IF	Q
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE	7.550	2	15.100	1
JOURNAL OF ALZHEIMERS DISEASE	3.517	1	3.517	2
JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY	5.113	3	15.339	1
JOURNAL OF CANCER	3.182	1	3.182	2
JOURNAL OF CARDIOLOGY	2.289	1	2.289	3
JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA	1.882	2	3.764	3
JOURNAL OF CARDIOVASCULAR PHARMACOLOGY	2.371	1	2.371	3
JOURNAL OF CHILD AND ADOLESCENT PSYCHOPHARMACOLOGY	2.16	1	2.160	2
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES	2.813	1	2.813	2
JOURNAL OF CLINICAL MEDICINE	5.688	2	11.376	1
JOURNAL OF CLINICAL MICROBIOLOGY	4.959	2	9.918	1
JOURNAL OF CLINICAL ONCOLOGY	**28.245**	**2**	**56.490**	**1**
JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS	2.167	2	4.334	3
JOURNAL OF CRANIOFACIAL SURGERY	0.785	1	0.785	4
JOURNAL OF CRITICAL CARE	2.783	1	2.783	2
JOURNAL OF CROHNS & COLITIS	7.827	1	7.827	1
JOURNAL OF DERMATOLOGICAL TREATMENT	2.112	1	2.112	2
JOURNAL OF DUAL DIAGNOSIS	1.338	1	1.338	3
JOURNAL OF ELECTROCARDIOLOGY	1.166	3	3.498	4
JOURNAL OF GENETIC COUNSELING	2.446	1	2.446	1
JOURNAL OF GERIATRIC CARDIOLOGY	1.763	2	3.526	3
JOURNAL OF GERIATRIC ONCOLOGY	3.164	1	3.164	2
JOURNAL OF HEART AND LUNG TRANSPLANTATION	8.578	2	17.156	1
JOURNAL OF HOSPITAL INFECTION	3.704	3	11.112	1
JOURNAL OF INFECTION AND CHEMOTHERAPY	1.539	1	1.539	4
JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY	3.802	4	15.208	2
JOURNAL OF LIPID RESEARCH	4.743	1	4.743	1
JOURNAL OF MEDICAL INTERNET RESEARCH	4.945	2	9.890	1
JOURNAL OF MEDICAL MICROBIOLOGY	1.926	1	1.926	4
JOURNAL OF NEUROINTERVENTIONAL SURGERY	3.925	1	3.925	1
JOURNAL OF OPHTHALMOLOGY	1.580	1	1.580	3
JOURNAL OF PAIN RESEARCH	2.236	1	2.236	3
JOURNAL OF PEDIATRIC INFECTIOUS DISEASES	0.197	1	0.197	4
JOURNAL OF PEDIATRIC NURSING-NURSING CARE OF CHILDREN & FAMILIES	1.563	1	1.563	2
JOURNAL OF PSYCHIATRY & NEUROSCIENCE	4.899	1	4.899	1
JOURNAL OF PSYCHOPHARMACOLOGY	4.221	1	4.221	1
JOURNAL OF RHEUMATOLOGY	3.634	1	3.634	2
JOURNAL OF SYSTEMS AND SOFTWARE	2.559	1	2.559	1
JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	**18.639**	**3**	**55.917**	**1**
JOURNAL OF THE AMERICAN HEART ASSOCIATION	4.66	1	4.660	1
JOURNAL OF THE AMERICAN MEDICAL DIRECTORS ASSOCIATION	4.899	1	4.899	1
JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY	5.113	3	15.339	1

Journal	IF	Nº	Amount IF	Q
JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY	5.261	1	5.261	1
JOURNAL OF THORACIC DISEASE	2.027	1	2.027	3
JOURNAL OF VASCULAR ACCESS	1.397	1	1.397	4
KIDNEY BLOOD PRESS R	2.123	1	2.123	2
LANCET ONCOLOGY	**35.386**	**5**	**176.930**	**1**
LANCET PSYCHIATRY	**18.329**	**3**	**54.987**	**1**
LANCET RESPIRATORY MEDICINE	**22.992**	**1**	**22.992**	**1**
LEUKEMIA	9.944	2	19.888	1
LIVER INTERNATIONAL	5.542	1	5.542	1
LIVER TRANSPLANT	4.159	1	4.159	1
LUNG	2.231	1	2.231	3
LUPUS	2.924	1	2.924	3
MALARIA JOURNAL	2.798	2	5.596	1
MATURITAS	3.654	1	3.654	1
MEDICAL CLINICS OF NORTH AMERICA	2.716	1	2.716	1
MEDICAL MYCOLOGY	2.851	1	2.851	1
MEDICINA CLINICA	1.277	8	10.216	3
MEDICINA INTENSIVA	1.982	2	3.964	3
MEDICINE	1.870	2	3.740	2
MELANOMA RESEARCH	2.381	1	2.381	2
METHODS	3.782	1	3.782	1
MICROBIOLOGY SPECTRUM	4.218	1	4.218	1
MOLECULAR GENETICS AND METABOLISM	3.61	2	7.220	2
MOLECULAR IMAGING AND BIOLOGY	3.341	1	3.341	1
MOLECULAR MEDICINE REPORTS	1.851	1	1.851	3
MOLECULAR NUTRITION & FOOD RESEARCH	4.653	1	4.653	1
MOLECULAR PSYCHIATRY	**11.973**	**2**	**23.946**	**1**
MULTIPLE SCLEROSIS AND RELATED DISORDERS	2.725	1	2.725	2
MYCOSES	3.065	1	3.065	2
NANOSCALE	6.970	1	6.970	1
NATURE COMMUNICATIONS	**11.878**	**1**	**11.878**	**1**
NATURE REVIEWS CARDIOLOGY	**17.42**	**1**	**17.420**	**1**
NEFROLOGIA	1.439	3	4.317	4
NEPHROLOGY DIALYSIS TRANSPLANTATION	4.198	1	4.198	1
NEUROCIRUGIA	0.519	1	0.519	4
NEUROGASTROENTEROLOGY AND MOTILITY	3.803	1	3.803	1
NEUROLOGIA	2.038	2	4.076	3
NEURON	**14.403**	**1**	**14.403**	**1**
NEUROUROLOGY AND URODYNAMICS	2.36	1	2.360	2
NEW ENGLAND JOURNAL OF MEDICINE	**70.670**	**2**	**141.340**	**1**
NURSING OUTLOOK	2.54	1	2.540	1
NUTRICION HOSPITALARIA	0.759	5	3.795	4
NUTRIENTS	4.171	1	4.171	1

Journal	IF	Nº	Amount IF	Q
ONCOLOGIST	5.252	1	5.252	1
OPEN FORUM INFECTIOUS DISEASES	3.371	1	3.371	2
OPHTHALMOLOGY	7.732	1	7.732	1
ORPHANET JOURNAL OF RARE DISEASES	3.687	1	3.687	2
PEDIATR CARDIOL	1.413	1	1.413	3
PEDIATRIC CRITICAL CARE MEDICINE	2.798	2	5.596	1
PEDIATRIC DERMATOLOGY	1.178	4	4.712	3
PEDIATRIC EMERGENCY CARE	1.119	2	2.238	3
PEDIATRIC INFECTIOUS DISEASE JOURNAL	2.317	2	4.634	2
PEDIATRIC RHEUMATOLOGY	2.673	1	2.673	1
PHARMACOGENETICS AND GENOMICS	2.693	2	5.386	2
PHARMACOGENOMICS J	3.503	2	7.006	2
PHARMACOLOGICAL RESEARCH	5.574	2	11.148	1
PHYSICAL REVIEW E	2.353	1	2.353	1
PLASTIC AND RECONSTRUCTIVE SURGERY	3.946	1	3.946	1
PLOS MEDICINE	**11.048**	**2**	**22.096**	**1**
PLOS ONE	2.776	16	44.416	2
POPUL HEALTH METR	2.953	1	2.953	1
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	9.58	1	9.580	1
PSYCHIATRY AND CLINICAL NEUROSCIENCES	3.489	1	3.489	2
PSYCHIATRY RESEARCH	2.208	4	8.832	2
PSYCHOLOGICAL MEDICINE	5.641	2	11.282	1
RADIATION ONCOLOGY	2.895	1	2.895	2
REDOX BIOLOGY	7.793	1	7.793	1
REPRODUCTIVE BIOMEDICINE ONLINE	2.93	1	2.930	1
RESPIRATORY MEDICINE	3.237	2	6.474	2
RESPIROLOGY	4.756	1	4.756	1
RESUSCITATION	4.572	1	4.572	1
REVISTA CLINICA ESPANOLA	1.043	4	4.172	3
REVISTA DE NEUROLOGIA	0.485	4	1.940	4
REVISTA DE PSIQUIATRIA Y SALUD MENTAL	2.927	1	2.927	2
REVISTA ESPANOLA DE CARDIOLOGIA	5.126	7	35.882	1
REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS	1.858	2	3.716	4
REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR	0.928	4	3.712	4
REVISTA ESPANOLA DE QUIMIOTERAPIA	0.760	6	4.560	4
REVISTA ESPANOLA DE SALUD PUBLICA	0.635	1	0.635	4
REVISTA IBEROAMERICANA DE MICOLOGIA	1.597	1	1.597	4
RHEUMATOLOGY INTERNATIONAL	2.200	3	6.600	3
SCAND J MED SCI SPOR	3.631	1	3.631	1
SCHIZOPHRENIA RESEARCH	4.569	3	13.707	1
SCIENTIFIC REPORTS	4.011	12	48.132	1
SEMINARS IN ARTHRITIS AND RHEUMATISM	5.072	1	5.072	1

Journal	IF	Nº	Amount IF	Q
SEMINARS IN HEMATOLOGY	3.738	1	3.738	2
SPANISH JOURNAL OF PSYCHOLOGY	0.749	1	0.749	4
SPINE JOURNAL	3.196	1	3.196	1
STAT PROBABIL LETT	0.615	1	0.615	4
STEM CELLS INTERNATIONAL	3.902	2	7.804	2
STROKE	6.046	2	12.092	1
SURGICAL AND RADIOLOGIC ANATOMY	1.039	1	1.039	4
TALANTA	4.916	1	4.916	1
TARGETED ONCOLOGY	3.683	1	3.683	2
THERAPEUTIC ADVANCES IN MEDICAL ONCOLOGY	5.670	1	5.670	1
THORAX	9.640	2	19.280	1
THROMBOSIS AND HAEMOSTASIS	4.733	3	14.199	1
TOXINS	3.895	1	3.895	1
TRANSFUSION MEDICINE REVIEWS	3.61	1	3.610	2
TRANSLATIONAL PSYCHIATRY	5.182	1	5.182	1
TRANSPLANT INFECTIOUS DISEASE	2.112	1	2.112	3
TRANSPLANTATION	4.593	1	4.593	1
TRANSPLANTATION REVIEWS	2.615	1	2.615	2
TUBERCULOSIS	2.790	1	2.790	2
UNITED EUROPEAN GASTROENTEROLOGY JOURNAL	3.453	1	3.453	2
VACCINE	3.269	1	3.269	2
WORLD JOURNAL OF CLINICAL CASES	1.153	1	1.153	3
TOTAL		**697**	**3414.6**	

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
ACTAS DERMO-SIFILIOGRAFICAS	8
ALLERGOLOGY INTERNATIONAL	1
ANALES DE PEDIATRIA	5
ANGIOLOGIA	2
ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY	1
ANNALS OF THE RHEUMATIC DISEASES	1
ARCHIVOS DE BRONCONEUMOLOGIA	3
AUSTRALASIAN JOURNAL OF DERMATOLOGY	1
BLOOD ADVANCES	1
BRITISH JOURNAL OF ANAESTHESIA	1
BRITISH JOURNAL OF CANCER	1
BRITISH JOURNAL OF HAEMATOLOGY	3
CARDIOVASCULAR REVASCULARIZATION MEDICINE	1
CIRCULATION	1
CIRUGIA ESPANOLA	1
CLINICAL AND EXPERIMENTAL DERMATOLOGY	1

Journal	Nº
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY	1
CLINICAL MICROBIOLOGY AND INFECTION	1
CLINICAL NUTRITION	2
CLINICOECONOMICS AND OUTCOMES RESEARCH	1
CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS	1
DATA IN BRIEF	1
EMERGENCIAS	1
ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA	3
EUROPEAN JOURNAL OF INTERNAL MEDICINE	3
EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY	1
EUROPEAN RESPIRATORY JOURNAL	1
GASTROENTEROLOGIA Y HEPATOLOGIA	1
IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING	2
INDIAN JOURNAL OF OPHTHALMOLOGY	1
INTED PROCEEDINGS	2
INTENSIVE CARE MEDICINE	1
JACC-CARDIOVASCULAR IMAGING	1
JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION	2
JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY	1
JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY	1
JOURNAL OF THE AMERICAN MEDICAL DIRECTORS ASSOCIATION	1
JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY	1
MEDICAL MYCOLOGY CASE REPORTS	1
MEDICINA CLINICA	4
MEDICINA INTENSIVA	1
NEFROLOGIA	1
NEUROLOGIA	3
NEW ENGLAND JOURNAL OF MEDICINE	3
ONCOTARGET	3
PEDIATRIC BLOOD & CANCER	1
PEDIATRIC INFECTIOUS DISEASE JOURNAL	2
RESUSCITATION	1
REUMATOLOGIA CLINICA	7
REVISTA CHILENA DE PEDIATRIA-CHILE	1
REVISTA ESPANOLA DE CARDIOLOGIA	7
REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS	1
REVISTA ESPANOLA DE QUIMIOTERAPIA	1
REVISTA ESPANOLA DE SALUD PUBLICA	1
STRABISMUS	1
MEDICAL MYCOLOGY	1
FARMACIA HOSPITALARIA	4
PLASTIC AND RECONSTRUCTIVE SURGERY	1
DIABETES CARE	1
ESMO OPEN	2

Journal	Nº
BLOOD RESEARCH	2
JOURNAL OF INTENSIVE CARE	1
INTERVENTIONAL NEUROLOGY	1
INTRACTABLE & RARE DISEASES RESEARCH	1
NUTRICION CLINICA Y DIETETICA HOSPITALARIA	1
GASTROINTEST ENDOSC	1
J CLIN ANESTH	1
PROG PEDIATR CARDIOL	1
INTERDISCIPLINARY NEUROSURGERY-ADVANCED TECHNIQUES AND CASE MANAGEMENT	1
ENFERMERIA INTENSIVA	2
JOURNAL OF GASTROINTESTINAL ONCOLOGY	1
JOURNAL OF NEUROGASTROENTEROLOGY AND MOTILITY	1
PROGRESS IN BIOMEDICAL OPTICS AND IMAGING	1
REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION	6
CULTURA DE LOS CUIDADOS	1
INTERNATIONAL UROLOGY AND NEPHROLOGY	1
ADHD-ATTENTION DEFICIT AND HYPERACTIVITY DISORDERS	1
HEALTHCARE TECHNOLOGY LETTERS	1
CUREUS	1
CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS	3
CURRENT RHEUMATOLOGY REVIEWS	1
NORTHERN CLINICS OF ISTANBUL	1
PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN	1
ARCHIVOS DE CARDIOLOGIA DE MEXICO	1
IEEE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING ICIP	1
JOURNAL OF PERSONALIZED MEDICINE	1
MINERVA PNEUMOLOGICA	1
ONCOSCIENCE	1
JOURNAL OF HEALTHCARE QUALITY RESEARCH	1
ERIA-REVISTA CUATRIMESTRAL DE GEOGRAFIA	1
JIMD REPORTS	1
FRONTIERS IN BIOSCIENCE - SCHOLAR	1
WOUNDS	1
NPJ BREAST CANCER	1
DRUGS IN CONTEXT	1
EUROPEAN UROLOGY FOCUS	2
ARTHROPLASTY TODAY	1
ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA	3
SEMERGEN	2
REVISTA DE LA FACULTAD DE CIENCIAS MEDICAS DE CORDOBA	1
JACC: CLINICAL ELECTROPHYSIOLOGY	1
IEEE INTERNATIONAL SYMPOSIUM ON PARALLEL AND DISTRIBUTED PROCESSING WITH APPLICATIONS	1
INFORMATION THEORY WORKSHOP	1
SPINAL CORD SERIES AND CASES	1

Journal	Nº
REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA	6
REVISTA ESPANOLA DE PATOLOGIA	2
REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA	1
TH OPEN : COMPANION JOURNAL TO THROMBOSIS AND HAEMOSTASIS	1
JOURNAL OF OPTOMETRY	1
JOURNAL OF ENDOUROLOGY CASE REPORTS	1
Total general	**179**

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

During 2018, 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.

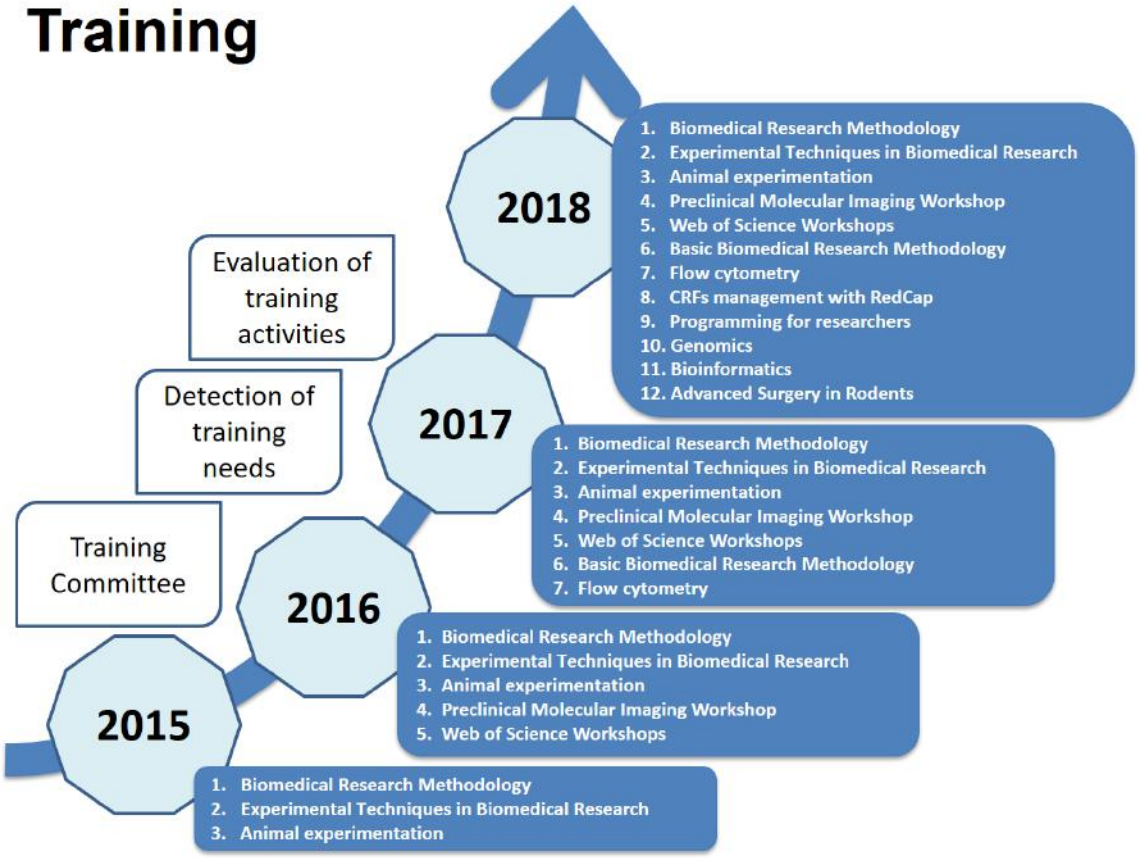
As set out in the Training Plan, during 2018, the IiSGM offered the following opportunities for training:

- Second 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	Eugenio Marinetto Carrillo	**Advanced capabilities for planar X-ray systems**	Mónica Abella García, Manuel Desco Menéndez	UC3M	September 28th 2018
1.01	Ph Thesis	Georgios Konstantinou	**Application of novel technologies for the development of next generation MR compatible PET inserts**	Juan José Vaquero López	UC3M	June 22nd 2017
1.02	Ph Thesis	Francisco Hernando Gallego	**Stress Level Assessment with non-Intrusive Sensors**	Antonio Artés Rodríguez	UC3M	April 12th2018
1.02	Ph Thesis	Gonzalo Ricardo Ríos Muñoz	**Rotor detection in atrial fibrillation**	Antonio Artés Rodríguez	UC3M	October 23rd 2018
2.01	Ph Thesis	Lourdes Vicent Alaminos	**Intensidad y evolución de la disnea durante el ingreso hospitalario en pacientes con insuficiencia cardiaca y enfermedades respiratorias**	Manuel Martinez Selles Doliveira Soares,	UCM	January 18th 2018
2.01	Ph Thesis	María Jesús Valero Masa	**Diferencias en función del sexo en el pronóstico del infarto agudo de miocardio**	Francisco Jesús Fernández-Aviles Diaz Manuel Martínez Selles D'oliveira Soares	UCM	March 3rd 2018
2.02	Ph Thesis	Gema Marín Royo	**Papel de la lipotoxicidad y la disfunción mitocondrial en las alteraciones cardiacas y metabólicas asociadas a la obesidad.**	Cachofeiro Ramos, María Victoria (Director), Martinez Martinez, Ernesto (Director) yLuaces Mendez, Maria (Director)	UCM	November 20th 2018
5.01	Ph Thesis	María Isabel Jaramillo Lopetegui	**Estudio de alteraciones de la inmunidad humoral y su asociación con el riesgo de infecciones en pacientes sometidos a trasplantes cardíaco, renal y pulmonar**	Javier Alberto Carbone Campoverde Elizabeth Angélica Sarmiento Marchese	UAH	September 17th 2018
5.01	Ph Thesis	Leticia Calahorra Melero	**Estudio del estado de maduración del linfocito B y factores solubles asociados a rechazo e infección en pacientes sometidos a trasplante de órgano sólido.**	Elizabeth Angélica Sarmiento Marchese Javier Alberto Carbone Campoverde	UCM	December 20th 2018
6.02	Master's thesis	Paula Romero	**Caracterización ex-vivo de las subpoblaciones de células tumorales**	Miguel Martín Jiménez y Rocío Ramos	UCM	June 26th 2018

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
			circulantes presentes en pacientes con cáncer de mama metastásico.			
6.02	Master's thesis	Beatriz González Sanz	**Perfil de toxicidad emética de la quimioterapia intravenosa actual en cáncer de mama.**	Miguel Martín Jiménez Sara López-Tarruella Cobo.	UCM	September 25th 2018
6.03	Ph Thesis	María Chicano Lavilla	**Estudio de metilación en los genes cdh1, p15, p16 y bik en pacientes afectos de mieloma múltiple**	Maria Rosa Caballín Fernández Yolanda Álvarez Cobo	UAB	July 24th 2017
7.05B	Ph Thesis	Juan Carlos Cano Ballesteros	**Ventilación no invasiva en la insuficiencia respiratoria aguda en urgencias. Aplicabilidad y pronóstico a medio plazo.**	Miguel Diez, Javier De, Pérez De Oteyza, Carlos Antonio Y Alvarez-Sala Walther, Luis Antonio	UCM	April 18th 2018
7.05B	Ph Thesis	Paola Antonella. Benedetti	**Uso de la presión continua de la vía aérea(CPAP BOUSSIGNAC) como profilaxis de las complicaciones respiratorias postoperatorias en los pacientes sometidos a cirugía de resección pulmonar**	Puente Maestu, Luis, Fernandez-Cruz Perez, Eduardo, y Alvarez-Sala Walther, Luis Antonio	UCM	December 12st 2018
7.10	Ph Thesis	Rodriguez Maruri, Guillermo Emilio	**Cirugía ultra-minimamente invasiva guiada por ecografía para el dedo en resorte: desarrollo y aplicación de una nueva técnica**	José Manuel Rojo Manaute y Francisco Javier Vaquero Martín	UCM	April 9th 2018
7.10	Ph Thesis	Irene Isabel López Torres	**Estudio in vivo de la eficacia del cemento óseo con rifampicina contenida en microcápsulas de alginato en el tratamiento de la infección protésica**	Pablo Sanz Ruiz y Francisco Javier Vaquero Martín	UCM	November 5th 2018
7.16	Ph Thesis	Laia Pazó Sayós	**Regresión del remodelado arterial coronario con un betabloqueante multicanal en un modelo experimental de rata hipertensa**	Begoña Quintana Villamandos y Carmen González García	UCM	January 17th 2018
7.16	Ph Thesis	David Ramiro Cortijo	**Biomarcadores predictivos del desarrollo de complicaciones maternas y fetales. Influencia del estado psicológico**	Silvia Arribas Rodríguez y Angel Luis López de Pablo	UAM	April 20th 2018

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
7.16	Ph Thesis	Cynthia Guadalupe Reyes Hernández	**Influencia de intervenciones nutricionales durante la gestación sobre el desarrollo fetal en la rata. Papel del estrés oxidativo de la placenta**	Silvia Arribas Rodriguez, Angel Luis López de Pablo y Rodrigo Enrique Elizondo Omaña	UAM	December 18th 2018
7.20	Ph Thesis	Cristina Monteserín Matesanz	**Ensayo clínico para evaluar la concentración de sevoflurano asociada a remifentanilo requerida para la inserción de la mascarilla laríngea supreme vs la mascarilla laríngea pro-seal. Implicaciones para la seguridad del paciente.**	Maria José Anadón Baselga y Matilde Zaballos García	UCM	October 10th 2018
7.27	Ph Thesis	Sara Salvador Martín	**Polimorfismos genéticos asociados con respuesta sostenida a fármacos anti-TNFs en enfermedad inflamatoria intestinal**	Luis López Fernandez	UCM	June 26th /2018
7.27	Ph Thesis	María Jarama Ruiz	**Genotipado y análisis de la expresión de DPYD a partir de mRNA de células de sangre periférica**	Luis López Fernandez	UPM	September 5th 2018
7.27	Ph Thesis	Esther Chamorro de Vega	**Impacto de un programa de atención farmacéutica especializada al paciente con infección por el virus de la hepatitis c en tratamiento con antivirales de acción direct**	Iglesias Peinado, Irene / Escudero Vilaplana, Vicente Damián /Giménez Manzorro, Álvar	UCM	July 19th 2018
7.28	Master Thesis	Ana Ergueta Carballo	**Polimorfismos genéticos asociados con respuesta sostenida a fármacos anti-TNFs en enfermedad inflamatoria intestinal**	Cristina de la Cuerda	UCM	Julyne 5th /2018
7.28	Master Thesis	María Jarama Ruiz	**Revisión de la evolución a largo plazo de pacientes intervenidos mediante gastrectomía vertical por obesidad mórbida**	Pilar García Peris / Irene Bretón	UCM	June 16th 2018

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
8	Master Thesis	Carmen Inmaculada Corral Liria	**Experiencia vivida en personas con miastenia gravis**	Gema Cid Exposito	URJC	June 12th 2018

CLINICAL PRACTICE GUIDELINES

Group	Authors	Title	Journal / Reference
2.01	Fernandez-Aviles, F; Sanz-Ruiz, R; Climent, AM; Badimon, L; Bolli, R; Charron, D; Fuster, V; Janssens, S; Kastrup, J; Kim, HS; Luscher, TF; Martin, JF; Menasche, P; Pinto, FJ; Simari, RD; Stone, GW; Terzic, A; Willerson, JT; Wu, JC; TACTICS Writing Grp.	**Global Overview of the Transnational Alliance for Regenerative Therapies in Cardiovascular Syndromes (TACTICS) Recommendations: A Comprehensive Series of Challenges and Priorities of Cardiovascular Regenerative Medicine.**	CIRCULATION RESEARCH
2.01	Chamuleau, Steven A. J.; van der Naald, Mira; MARTINEZ CLIMENT, BATISTE ANDREU; Kraaijeveld, Adriaan O.; Wever, Kim E.; Duncker, Dirk J.; FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS; Bolli, Roberto; Cardiovascular Syndromes TACTICS.	**Translational Research in Cardiovascular Repair: A Call for a Paradigm Shift.**	CIRCULATION RESEARCH
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.	**2018 ESC Guidelines for the management of cardiovascular diseases during pregnancy**	Eur Heart J. 2018 Sep 7;39(34):3165-3241.
2.03	Rosano GMC, Tamargo J, Kjeldsen KP, Lainscak M, Agewall S, Anker SD, Ceconi C, Coats AJS, Drexel H, Filippatos G, Kaski JC, Lund L, Niessner A, Ponikowski P, Savarese G, Schmidt TA, Seferovic P, Wassmann S, Walther T, Lewis BS.	**Expert consensus document on the management of hyperkalaemia in patients with cardiovascular disease treated with renin angiotensin aldosterone system inhibitors: coordinated by the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology.**	Eur Heart J Cardiovasc Pharmacother. 2018 Jul 1;4(3):180-188.
2.03	Niessner A, Tamargo J, Koller L, Saely CH, Schmidt TA, Savarese G, Wassmann S, Rosano G, Ceconi C, Torp-Pedersen C, Kaski JC, Kjeldsen KP, Agewall S, Walther T, Drexel H, Lewis BS.	Non-insulin antidiabetic pharmacotherapy in patients with established cardiovascular disease: a position paper of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy.	Eur Heart J. 2018 Jun 21;39(24):2274-2281.
2.03	Dan GA, Martinez-Rubio A, Agewall S, Boriani G, Borggrefe M, Gaita F, van Gelder I, Gorenek B, Kaski JC, Kjeldsen K, Lip GYH, Merkely B, Okumura K, Piccini JP, Potpara T, Poulsen BK, Saba M, Savelieva I, Tamargo JL, Wolpert C; ESC Scientific Document Group.	**Antiarrhythmic drugs-clinical use and clinical decision making: a consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacology, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS) and International Society of Cardiovascular Pharmacotherapy (ISCP)**	Europace. 2018 May 1;20(5):731-732an.

Group	Authors	Title	Journal / Reference
2.03	Authors/Task Force Members, Aboyans V, Ricco JB, Bartelink MEL, Björck M, Brodmann M, Cohnert T, Collet JP, Czerny M, De Carlo M, Debus S, Espinola-Klein C, Kahan T, Kownator S, Mazzolai L, Naylor AR, Roffi M, Röther J, Sprynger M, Tendera M, Tepe G, Venermo M, Vlachopoulos C, Desormais I, Document Reviewers, Widimsky P, Kolh P, Agewall S, Bueno H, Coca A, De Borst GJ, Delgado V, Dick F, Erol C, Ferrini M, Kakkos S, Katus HA, Knuuti J, Lindholt J, Mattle H, Pieniazek P, Piepoli MF, Scheinert D, Sievert H, Simpson I, Sulzenko J, Tamargo J, Tokgozoglu L, Torbicki A, Tsakountakis N, Tuñón J, de Ceniga MV, Windecker S, Zamorano JL.	**Editor's Choice - 2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS).**	Eur J Vasc Endovasc Surg. 2018 Mar;55(3):305-368.
6.02	Muñoz Martín AJ, Adeva J, Martínez-Galán J, Reina JJ, Hidalgo M.	**Pancreatic ductal adenocarcinoma: metastatic disease.**	Clin Transl Oncol. 2017 Jun 16. doi: 10.1007/s12094-017-1690-6. [Epub ahead of print] Review. Pmid: 28623515
6.02	Jimenez-Fonseca P, Carmona-Bayonas A, Calderon C, Fontcuberta Boj J, Font C, Lecumberri R, Monreal M, Muñoz Martín AJ, Otero R, Rubio A, Ruiz-Artacho P, Suarez Fernández C, Colome E, Pérez Segura P.	**FOTROCAN Delphi consensus statement regarding the prevention and treatment of cancer-associated thrombosis in areas of uncertainty and low quality of evidence.**	Clin Transl Oncol. 2017 Feb 27. doi: 10.1007/s12094-017-1632-3. [Epub ahead of print] pmid: 28243988
6.02	Garrido P., Aldaz A., Calleja MA, De Alava E., Lamas MJ, Martín M, Matías Guiu X, Palacios J, Vera R.	**Proposal for the creation of a national strategy for precisión medicine in cancer: a position statement of SEOM, SEAP,and SEFH**	Farm. Hosp. 2017 Nov 1;41(6):688-691
6.02	Carla Blanco Vidal, Andrés Muñoz Martín, Juan Pedro Justel Pérez, María Ángeles Nieto Díez, Javier Castellanos Martínez, Miguel Martín Jiménez y Begoña Berriatua Ena.	**"COLANGIOCARCINOMA".**	Guías clínicas. Fisterra.com 15/05/2018. Editada por: Elsevier, S.L.U. (https://www.fisterra.com/guias-clinicas/colangiocarcinoma/)
6.02	Cassinello, J; Arranz, JA; Piulats, JM; Sanchez, A; Perez-Valderrama, B; Mellado, B; Climent, MA; Olmos, D; Carles, J; Lazaro, M	**SEOM clinical guidelines for the treatment of metastatic prostate cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):57-68. doi: 10.1007/s12094-017-1783-2. Epub 2017 Nov 13. Erratum in: Clin Transl Oncol. 2018 Jan 5;:.
6.02	Cassinello J; Arranz JA; Piulats JM; Sanchez A; Perez-Valderrama B; Mellado B; Climent MA; Olmos D; Carles J; Lazaro M	**Correction to: SEOM clinical guidelines for the treatment of metastatic prostate cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):110-111. doi: 10.1007/s12094-017-1823-y.
6.02	Berrocal, A; Arance, A; Castellon, VE; de la Cruz, L; Espinosa, E; Cao, MG; Larriba, JLG; Marquez-Rodas, I; Soria, A; Algarra, SM	**SEOM clinical guideline for the management of malignant melanoma (2017).**	Clin Transl Oncol. 2018 Jan;20(1):69-74. doi: 10.1007/s12094-017-1768-1. Epub 2017 Nov 7.
6.02	Docampo, LCI; Arrula, VA; Rotllan, NB; Maseda, AC; Cirauqui, BC; Escobar, Y; Sorrosal, JJL; Borgonon, MP; Rueda, A; Hernandez, JJC	**SEOM clinical guidelines for the treatment of head and neck cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):75-83. doi: 10.1007/s12094-017-1776-1. Epub 2017 Nov 20.
6.03	Miralles P, Navarro JT, Berenguer J, Gómez Codina J, Kwon M, Serrano D, Díez-Martín JL, Villà S, Rubio R, Menárguez J, Ribera Santasusana JM.	**GESIDA/PETHEMA recommendations on the diagnosis and treatment of lymphomas in patients infected by the human immunodeficiency virus**	Medicina Clinica
7.02	Aller R, Fernández-Rodríguez C, Lo Iacono O, Bañares R, Abad J, Carrión JA, García-Monzón C, Caballería J, Berenguer M, Rodríguez-Perálvarez M, Miranda JL, Vilar-Gómez E, Crespo J,	**Documento de consenso. Manejo de la enfermedad hepática grasa no alcohólica (EHGNA). Guía de práctica clínica**	Gastroenterol Hepatol. 2018; 41:328-349

Group	Authors	Title	Journal / Reference
7.02	Albeniz, E; Pellise, M; Gimeno-Garcia, AZ; Lucendo, AJ; Alonso-Aguirre, PA; Herreros-de-Tejada, A; Alvarez, MA; Fraile, M; Herraiz-Bayod, M; Lopez-Roses, L; Martinez-Ares, D; Ono, A; Parra-Blanco, A; Redondo, E; Sanchez-Yague, A; Soto, S; Diaz-Tasende, J; Montes-Diaz, M; Rodriguez-Tellez, M; Garcia, O; Zuniga-Ripa, A; Hernandez-Conde, M; Alberca-de-las-Parras, F; Gargallo, C; Saperas, E; Munoz-Navas, M; Gordillo, J; Ramos-Zabala, F; Echevarria, JM; Bustamante, M; Gonzalez-Haba, M; Gonzalez-Huix, F; Gonzalez-Suarez, B; Vila-Costas, JJ; Guarner-Argente, C; Mugica, F; Cobian, J; Rodriguez-Sanchez, J; Lopez-Viedma, B; Pin, N; Marin-Gabriel, JC; Nogales, O; de-la-Pena, J; Navajas-Leon, FJ; Leon-Brito, H; Remedios, D; Esteban, JM; Barquero, D; Martinez-Cara, JG; Martinez-Alcala, F; Fernandez-Urien, I; Valdivielso, E; Spanish Endoscopic Resection Grp S.	Documento de consenso. Manejo de la enfermedad hepática grasa no alcohólica (EHGNA). Guía de práctica clínica	Gastroenterol Hepatol. 2018; 41:328-349
7.22	**Clinical guidelines for endoscopic mucosal resection of non-pedunculated colorectal lesions**	**Revista española de enfermedades digestivas. 2018; 110(3) 179-194**	
7.22	Sánchez-Redondo Sánchez-Gabriel MD, Leante Castellanos JL, Benavente Fernández I, Pérez Muñuzuri A, Rite Gracia S, Ruiz Campillo CW, Sanz López E, Sánchez Luna M.	**Guidelines for prevention, detection and management of hyperbilirubinaemia in newborns of 35 or more weeks of gestation**	
7.22	Sanz López E, Sánchez Luna M, Rite Gracia S, Benavente Fernández I, Leante Castellanos JL, Pérez Muñuzuri A, Ruiz Campillo CW, Sánchez Redondo MD.	**Recommendations for the unequivocal identification of the newborn**	
7.22	Benavente Fernández I, Sánchez Redondo MD, Leante Castellanos JL, Pérez Muñuzuri A, Rite Gracia S, Ruiz Campillo CW, Sanz López E, Sánchez Luna M.	**Hospital discharge criteria for very low birth weight newborns**	
7.22	Rite Gracia S, Pérez Muñuzuri A, Sanz López E, Leante Castellanos JL, Benavente Fernández I, Ruiz Campillo CW, Sánchez Redondo MD, Sánchez Luna M.	**Criteria for hospital discharge of the healthy term newborn after delivery**	
7.22	Sánchez Luna M, Pérez Muñuzuri A, Sanz López E, Leante Castellanos JL, Benavente Fernández I, Ruiz Campillo CW, Sánchez Redondo MD, Vento Torres M, Rite Gracia S.	**Pulse oximetry screening of critical congenital heart defects in the neonatal period. The Spanish National Neonatal Society recommendation**	
7.27	Leante Castellanos JL, Pérez Muñuzuri A, Ruiz Campillo CW, Sanz López E, Benavente Fernández I, Sánchez Redondo MD, Rite Gracia S, Sánchez Luna M.	**Recommendations for the care of the umbilical cord in the newborn**	Farm Hosp. 2018 Mar 1;42(2):82-88
7.27	López-Herce Cid J; Rodríguez Núñez A; Carrillo Álvarez Á; Zeballos Sarrato G; Martínez Fernández-Llamazares C; Calvo Macías C; Grupo Español de Reanimación Cardiopulmonar Pediátrica y Neonatal	**Recomendaciones de expertos sobre el material del carro y mochila de reanimacion cardiopulmonar pediatrica y neonatal.**	An Pediatr. 2018;88(3):173
7.27	Sanjurjo Sáez María, Herranz Alonso Ana María, Ibáñez García Sara, Galiano Fragua María Luisa, Rodríguez Macías María Gabriela, Vidán Astiz María Teresa, Sánchez Muñoz Gema	**Guía para la monitorización clínica de fármacos**	El copyright pertence a la FIBHGM
7.27	Sanjurjo Sáez María, Herranz Alonso Ana María, Ibáñez García Sara, Galiano Fragua María Luisa, Rodríguez Macías María Gabriela, Vidán Astiz María Teresa, Sánchez Muñoz Gema	**Reglas clínicas para aumentar la seguridad u eficacia de los tratamientos mediante monitorización farmacocinética**	El copyright pertence a la FIBHGM

Group	Authors	Title	Journal / Reference
7.28	Burgos, Rosa; BRETÓN LESMES, IRENE; Cereda, Emanuele; Desport, Jean Claude; Dziewas, Rainer; Genton, Laurence; Gomes, Filomena; Jesus, Pierre; Leischker, Andreas; Muscaritoli, Maurizio; Poulia, Kalliopi-Anna; Preiser, Jean Charles; Van der Marck, Marjolein; Wirth, Rainer; Singer, Pierre; Bischoff, Stephan C.	**ESPEN guideline clinical nutrition in neurology.**	Clin Nutr. 2018 Feb;37(1):354-396.
7.28	Lal S, Pironi L, Wanten G, Arends J, Bozzetti F, Cuerda C, Joly F, Kelly D, Staun M, Szczepanek K, Van Gossum A, Schneider SM; Home Artificial Nutrition & Chronic Intestinal Failure Special Interest Group of the European Society for Clinical Nutrition and Metabolism (ESPEN).	**Clinical approach to the management of Intestinal Failure Associated Liver Disease (IFALD) in adults: A position paper from the Home Artificial Nutrition and Chronic Intestinal Failure Special Interest Group of ESPEN.**	Clin Nutr. 2018 Dec;37(6 Pt A):1794-1797
7.28	Del Olmo García MªD, Virgili Casas N, Cantón Blanco A, Lozano Fuster FM, Wanden-Berghe C, Avilés V, Ashbaugh Enguídanos R, Ferrero López I, Molina Soria JB, Montejo González JC, Bretón Lesmes I, Álvarez Hernández J, Moreno Villares JM, Senpe GTÉS.	**Nutritional management of amyotrophic lateral sclerosis: summary of recommendations**	Nutr Hosp. 2018 Oct 8;35(5):1243-1251.
7.28	Del Olmo García MD, Ocón Bretón J, Álvarez Hernández J, Ballesteros Pomar MD, Botella Romero F, Bretón Lesmes I, de Luis Román D, Luengo Pérez LM, Martínez Olmos MÁ, Olveira Fuster G; grupo de trabajo ConTSEEN del Área de Nutrición de la SEEN.	**Terms, concepts and definitions in clinical artificial nutrition. The ConT-SEEN Project.**	Endocrinol Diabetes Nutr. 2018 Jan;65(1):5-16.
7.28	Camblor-Álvarez M, Ocón-Bretón MJ, Luengo-Pérez LM, Viruzuela JA, Sendrós-Maroño MJ, Cervera-Peris M, Grande E, Álvarez-Hernández J, Jiménez-Fonseca P.	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Nutr Hosp. 2018 Jan 10;35(1):224-233
7.28	Ocón Bretón MJ, Luengo Pérez LM, Virizuela JA, Álvarez Hernández J, Jiménez Fonseca P, Cervera Peris M, Sendrós Madroño MJ, Grande E, Camblor Álvarez M.	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Endocrinol Diabetes Nutr. 2018 Mar;65 Suppl 1:17-23.
7.28	Virizuela JA, Camblor-Álvarez M, Luengo-Pérez LM, Grande E, Álvarez-Hernández J, Sendrós-Madroño MJ, Jiménez-Fonseca P, Cervera-Peris M, Ocón-Bretón MJ	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Clin Transl Oncol. 2018 May;20(5):619-629
7.28	Lecube A, Monereo S, Rubio MÁ, Martínez-de-Icaya P, Martí A, Salvador J, Masmiquel L, Goday A, Bellido D, Lurbe E, García-Almeida JM, Tinahones FJ, García-Luna PP, Palacio E, Gargallo M, Bretón I, Morales-Conde S, Caixàs A,Menéndez E, Puig-Domingo M, Casanueva FF	**Prevention, diagnosis, and treatment of obesity. 2016 position statement of the Spanish Society for the Study of Obesity.**	Endocrinol Diabetes Nutr. 2017 Mar;64 Suppl 1:15-22.

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

Group	Type (RETICS, CIBER, others.)	Name of Network	Role
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 tratamiento de la enfermedad de Kawasaki y el riesgo del desarrollo de aneurismas coronarios en niños menores de 14 años de nuestro medio .	Coordinating group
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

Group	Type (RETICS, CIBER, others.)	Name of Network	Role
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 área 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

AREA 1

Area Coordinator: **Manuel Desco Menéndez**

BIOMEDICAL ENGINEERING

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 Biomedical Engineering

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

Research lines

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

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.

Group members

	Surname	*Name*	*Role*
ABELLA	GARCÍA	MÓNICA	Senior researcher
ARÉVALO	GRACIA	ALICIA	Superior Support technician
BALLESTEROS	TENRERO	NEREA	Superior Support technician
CALLE	HERNÁNDEZ	DANIEL	Superior Support technician
CARMONA	CAÑABATE	SUSANA	Miguel Servet I
CARRAVILLA	EXPÓSITO	EVA	Support technician
CARRETERO	GÓMEZ	LAURA	Other
CASQUERO	VEIGA	MARTA	Predoctoral
CONCEPCIÓN	BRITO	MANUEL	Other
CUSSÓ	MULA	LORENA	Senior researcher
DESCO	MENÉNDEZ	MANUEL	Senior researcher / Group Director
DÍEZ	SANTIAGO	ESTHER	Management
FELIPE	MAESTRE	Mª DE LA JARA	Support technician
FERNÁNDEZ	PENA	ALBERTO	Predoctoral
FRANCISCO	LÓPEZ	ALEXANDRA DE	Support technician
GARCÍA	BARQUERO	INÉS	Superior Support technician
GARCÍA	DÍEZ	TATIANA	Data management
GARCÍA	MATO	DAVID	Research Staff in Training UC3M
GARCÍA	SEVILLA	MÓNICA	Predoctoral

	Surname	Name	Role
GARRIDO	HUERTA	TRAJANA	Management
GÓMEZ	DE MARISCAL	ESTÍBALIZ	Research Staff in Training UC3M
GÓMEZ	GAVIRO	MARÍA VICTORIA	Senior researcher
GÓMEZ	RANGEL	VANESSA	Other
GONZÁLEZ	ARJONA	MARIO	Research ssistant
GONZÁLEZ	GUTIERREZ	MARÍA ISABEL	Other
ITURRIOZ	CAMPO	MÓNICA	Other
LÓPEZ	ACEDO	LAURA	Other
MACÍAS	GORDALIZA	PEDRO	Predoctoral
MARCOS	VIDAL	ASIER	Research Staff in Training UC3M
MARCOS	VIDAL	LUIS	Predoctoral
MARTIN	DE BLAS	DANIEL	Other
MARTÍNEZ	ÁLVARO	ALBERTO	Superior Support technician
MARTÍNEZ	GARCÍA	MAGDALENA	Predoctoral
MARTÍNEZ	MARTÍNEZ	ÁLVARO	Superior Support technician
MARTÍNEZ	SÁNCHEZ	CRISTÓBAL	Research Staff in Training UC3M
MOLINA	GÓMEZ	CLAUDIA DE	Predoctoral)
MORENO	BERDÓN	PATRICIA	Other
MORENO	CAMACHO	JORGE	Support technician
MORETA	MARTÍNEZ	RAFAEL	Superior Support technician
MUÑOZ	BARRUTIA	ARRATE	Senior researcher
NAVAS	SÁNCHEZ	FRANCISCO JAVIER	Other
ORTEGA	GIL	ANA	Others: i-PFIS
PASCAU	GONZÁLEZ-GARZÓN	JAVIER	Other
PASCAU	GONZÁLEZ-GARZÓN	JAVIER	Senior researcher
PATERNINA	DIE	Mª DEL CARMEN	Training
PÉREZ	BENITO	DAVID	Predoctoral
PIOL		ALESSANDRO	Other
RIPOLL	LORENZO	JORGE	Senior researcher
RODRÍGUEZ	CASAÚ	ELENA	Data management
ROLÍN	FERRER	DANIEL	Support technician
ROMERO	MIGUEL	LUIS DIEGO	Training
SAKALTRAS		NOKOLAOS	Other
SALINAS	RODRÍGUEZ	BEATRIZ	Senior researcher
SIERRA	PALOMARES	YOLANDA	Support technician
SOBRINO	GORRICHO	GORKA	Superior Support technician
SOTO	MONTENEGRO	MARÍA LUISA	Miguel Servet II
VAQUERO	LÓPEZ	JUAN JOSÉ	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: **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: **Terapías preventivas en la aparición de desarrollo de la esquizofrenia: Estudios de imagen in vivo (PET y MRI) y de comportamiento** PI14/00860
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

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**: 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: **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: **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: **Predoctoral contract**. IFI14/00043
DIRECTOR: ORTEGA GIL, ANA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Young employement contract:** Ayudante de Investigación PEJ15/BIO/AI-0610
DIRECTOR: Joaquin Redondo Castrejon DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Técnico de Laboratorio**. PEJ15/BIO/TL-0216
DIRECTOR: Ana Romero Miranda DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

-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: **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: 31/12/2018

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: 31/12/2018

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: **Detector DoI-ToF para PET compatible con IRM** RTC-2015-3772-1
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Tomografía por emisión de positrones y ultrasonidos (TOPUS)** S2013/MIT-3024
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSÉ / DE TOLEDO, P
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Brain inspired data engineering (BRADE-CM)** S2013/ICE-2958
DIRECTOR: AZCORRA , A
PROJECT TYPE: Research project
FUNDING BODY: Comunidad de Madrid

START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Caracterización por imagen de la mecánica de células tumorales** TEC2013-48552-C2-1-R
DIRECTOR: MUÑOZ BARRUTIA, ARRATE
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2014
END DATE: 31/12/2018

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

TITLE: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE (Asier Marcos Vidal)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 08/09/2014
END DATE: 07/09/2018

TITLE: **Empleo joven (Ayudante de investigación)** PEJ15/BIO/AI-0593
DIRECTOR: MUÑOZ BARRUTI, ARRATE (Mario González Arjona)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 03/02/2016
END DATE: 02/02/2018

TITLE: **Programa CONEX Marie Curie)**
DIRECTOR: DESCO MENEDEZ, MANUEL (Juan Miguel Parra Robles)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/01/2015
END DATE: 15/01/2018

TITLE: **Programa CONEX Marie Curie)**
DIRECTOR: DESCO MENEDEZ, MANUEL (Juan Miguel Parra Robles)
PROJECT TYPE: Human Resources
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 16/01/2015
END DATE: 15/01/2018

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

Patents and intellectual property registrations

Patents

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

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
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

Patentes transferidas

Intellectual property

Title	Reference	Owner	Inventors
MANGOOSE	Nº Asiento Registral 02/2010/4412	FIBHGM	Javier Pascau Manuel Desco Mónica Abellá Alejandro Sisniega Juan José Vaquero
CUSQ: CARDIO US/Quantification	Nº Asiente Registral: 16/2010/303	FIBHGM - UPM	Manuel Desco María Jesús Ledesma Andrés de Santos
FIRST (Fast Iterative Reconstruction Software for Tomography)	Nº Depósito Notarial: 3806	FIBHGM	José Manuel Udías Joaquín López Samuel España Manuel Desco Juan José Vaquero
QuTIS (Quantification Tool for in vivo Spectroscopy)	Nª Depósito Notarial: 5095	FIBHGM	Manuel Desco Juan José Vaquero
MMWKS	Sin número registro	FIBHGM	Manuel Desco 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 Mónica Abella Claudia de Molina Estefanía Serrano Fco. Javier García Jesús Carretero
XAP-LAB	Registry no.: 16/2017/7106	FIBHGM-UC3M	Manuel Desco Mónica Abella Álvaro Martínez 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

Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	**Eugenio Marinetto Carrillo**	Advanced capabilities for planar X-ray systems	Mónica Abella García, Manuel Desco Menéndez	UC3M	September 28th 2018

Publications

Total Impact Factor: **90.3**

	Nº	IF
Own publications	13	54.1
Joint publications	12	36.2
First decile publications	4	34.3
First quartile publications	12	67.9
Second quartile publications	7	20.1
Third quartile publications	1	2.2
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	5	-
Total publications (incluging those without IF)	**25**	**90.3**

Authors	Title	Alcance	Ejemplar	Final page	Inicial page	Sub Volumen	Colaboration type	Journal
Perez-Juste Abascal, Juan Felipe; Desco Menéndez, Manuel; Parra Robles, Juan Miguel	**Incorporation of Prior Knowledge of Signal Behavior Into the Reconstruction to Accelerate the Acquisition of Diffusion MRI Data**	Article	37	556	547	2	Propia	IEEE Trans. Med. Imaging
Calle Hernández, Daniel; Negri, Viviana; Munuera, Carmen; Mateos, Luis; Lado Tourino, Isabel; Ros Vinegla, Piedad; Ramirez, Mariola O.; Garcia-Hernandez, Mar; Cerdan, Sebastian; Ballesteros, Paloma	**Magnetic anisotropy of functionalized multi-walled carbon nanotube suspensions**	Article	131	237	229		Internacional	Carbon
Hadar, R.; Bikovski, L.; Soto Montenegro, María Luisa; Schimke, J.; Maier, P.; Ewing, S.; Voget, M.; Wieske, F.; Goetz, T.; Desco Menéndez, Manuel; Hamani, C.; Pascau González-Garzón, Javier; Weiner, I.; Winter, C.	**Early neuromodulation prevents the development of brain and behavioral abnormalities in a rodent model of schizophrenia.**	Article	23	951	943	4	Internacional	Mol Psychiatry
Ancora, Daniele; Di Battista, Diego; Giasafaki, Georgia; Psycharakis, Stylianos E.; Liapis, Evangelos; Ripoll Lorenzo, Jorge; Zacharakis, Giannis	**Optical projection tomography via phase retrieval algorithms.**	Article	136	89	81		Internacional	Methods
De Molina Gomez, Claudia; Serrano López, Estefanía; Garcia Blas, Francisco Javier; Carretero Perez, Jesus; Desco Menéndez, Manuel; Abella Garcia, Monica	**GPU-accelerated iterative reconstruction for limited-data tomography in CBCT systems**	Article	19				Propia	BMC Bioinformatics

Authors	Title	Alcance	Ejemplar	Final page	Inicial page	Sub Volumen	Colaboration type	Journal
Fernandez, Tamara; Martinez-Serrano, Alberto; Cusso Mula, Lorena; Desco Menéndez, Manuel; Ramos-Gomez, Milagros	**Functionalization and Characterization of Magnetic Nanoparticles for the Detection of Ferritin Accumulation in Alzheimer's Disease.**	Article	9	924	912	5	Nacional	ACS Chem Neurosci
Marcos-Vidal, A.; Ancora, D.; Zacharakis, G.; Vaquero Lopez, Juan Jose; Ripoll Lorenzo, Jorge	**Projection Tomography in the NIR-IIa window: challenges, advantages and comparison with classical optical approach**	Proceedings Paper	10573				Internacional	Progress in Biomedical Optics and Imaging - Proceedings of SPIE
Macías Gordaliza, Pedro; Muñoz Barrutia, Arrate; Abella Garcia, Monica; Desco Menéndez, Manuel; Sharpe, Sally; Vaquero Lopez, Juan Jose	**Unsupervised CT Lung Image Segmentation of a Mycobacterium Tuberculosis Infection Model**	Article	8				Internacional	Sci Rep
Marcos Vidal, Luis; Martinez Garcia, Magdalena; Pretus, Clara; Garcia Garcia, David; Martinez Rodriguez, Kenia; Janssen Jeucken, Joost; Vilarroya, Oscar; Castellanos, Francisco X.; Desco Menéndez, Manuel; Sepulcre, Jorge; Carmona Cañabate, Susana	**Local functional connectivity suggests functional immaturity in children with attention-deficit/hyperactivity disorder.**	Article	39	2454	2442	6	Internacional	Hum. Brain Mapp.
Cal-Gonzalez, Jacobo; Vaquero Lopez, Juan Jose; Herraiz, Joaquin L.; Perez-Liva, Mailyn; Soto Montenegro, María Luisa; Peña Zalbidea, Santiago; Desco Menéndez, Manuel; Manuel Udias, Jose	**Improving PET Quantification of Small Animal [(68)Ga]DOTA-Labeled PET/CT Studies by Using a CT-Based Positron Range Correction.**	Article	20	593	584	4	Internacional	Mol. Imaging. Biol.
Burillo Albizua, Almudena; Gomez-Lopez, Alicia; Escribano Martos, Pilar; Galar Recalde, Alicia; Salinas Rodriguez, Beatriz; Diaz Perez, Nadire Maria; Muñoz Garcia-Paredes, Patricia; Bouza Santiago, Emilio	**A new cause of false positive voriconazole levels: Watch your collection tubes !**	Article	1092	331	328		Nacional	J. Chromatogr. B
Pretus, Clara; Picado, Marisol; Antoni Ramos-Quiroga, Josep; Carmona Cañabate, Susana; Richarte, Vanesa; Fauquet, Jordi; Vilarroya, Oscar	**Just-in-time response to reward as a function of ADHD symptom severity**	Article	72	740	731	9	Nacional	Psychiatry Clin. Neurosci.
Bello-Arroyo, Elisabet; Roque, Helio; Marcos, Alberto; Orihuel, Javier; Higuera-Matas, Alejandro; Desco Menéndez, Manuel; Caiolfa, Valeria R.; Ambrosio, Emilio; Lara-Pezzi, Enrique; Gomez Gaviro, Maria Victoria	**MouBeAT: A New and Open Toolbox for Guided Analysis of Behavioral Tests in Mice.**	Article	12	201	201		Internacional	Front Behav Neurosci
Abella Garcia, Monica; De Molina Gomez, Claudia; Ballesteros Tenrero, Nerea; Garcia Santos, Alba; Martínez Martínez, Alvaro; Garcia Barquero, Ines; Desco Menéndez, Manuel	**Enabling tomography with low-cost C-arm systems.**	Article	13			9	Propia	PLoS One
Casquero Veiga, Marta; Garcia-Garcia, David; Pascau González-Garzón, Javier; Desco Menéndez, Manuel; Soto Montenegro, María Luisa	**Stimulating the nucleus accumbens in obesity: A positron emission tomography study after deep brain stimulation in a rodent model.**	Article	13			9	Nacional	PLoS One

Authors	Title	Alcance	Ejemplar	Final page	Inicial page	Sub Volumen	Colaboration type	Journal
Cusso Mula, Lorena; Desco Menéndez, Manuel	**Suppression of 18F-FDG signal in the bladder on small animal PET-CT.**	Article	13			10	Propia	PLoS One
Perez-Caballero, L.; Soto Montenegro, María Luisa; Hidalgo-Figueroa, M.; Mico, J. A.; Desco Menéndez, Manuel; Berrocoso, E.	**Deep brain stimulation electrode insertion and depression: Patterns of activity and modulation by analgesics.**	Article	11	1355	1348	6	Nacional	Brain Stimul.
Casquero Veiga, Marta; Garcia Garcia, David; Desco Menéndez, Manuel; Soto Montenegro, María Luisa	**Understanding Deep Brain Stimulation: In Vivo Metabolic Consequences of the Electrode Insertional Effect.**	Article	2018	8560232	8560232		Propia	Biomed Res. Int.
Moreta Martinez, Rafael; Garcia Mato, David; Garcia Sevilla, Monica; Pérez Mañanes, Rubén; Calvo Haro, Jose Antonio; Pascau González-Garzón, Javier	**Augmented reality in computer-assisted interventions based on patient-specific 3D printed reference.**	Article	5	166	162	5	Propia	Healthc Technol Lett
Meijering, Erik; Muñoz Barrutia, Arrate	**In the spotlight**	Editorial Material	35		125	6	Internacional	IEEE Signal Process. Mag.
Marinetto Carrillo, Eugenio Daniel; Garcia Mato, David; Garcia, Alonso; Martinez, Santiago; Desco Menéndez, Manuel; Pascau González-Garzón, Javier	**Multicamera Optical Tracker Assessment for Computer Aided Surgery Applications**	Article	6	64370	64359		Nacional	IEEE Access
García Vázquez, Verónica; Sese De Lucio, Begoña; Calvo Manuel, Felipe Ángel; Vaquero Lopez, Juan Jose; Desco Menéndez, Manuel; Pascau González-Garzón, Javier	**Surface scanning for 3D dose calculation in intraoperative electron radiation therapy.**	Article	13	243	243	1	Propia	Radiat Oncol
Macías Gordaliza, Pedro; Vaquero Lopez, Juan Jose; Sharpe, S.; Desco Menéndez, Manuel; Muñoz Barrutia, Arrate	**Towards an informational model for tuberculosis lesion discrimination on x-ray ct images**	Proceedings Paper		268	265		Internacional	Proceedings - International Symposium on Biomedical Imaging
Alfano, F.; Perez Garcia, F.; Ortuno Fisac, J. E.; Herrero Conde, M.; Bueno Zamora, Oscar; Calvo Manuel, Felipe Ángel; Lizarraga Bonelli, Santiago; Santos, A.; Pascau González-Garzón, Javier; Ledesma Carbayo, M. J.	**Tumor localization using prone to supine surface based registration for breast cancer surgical planning**	Proceedings Paper		791	788		Nacional	Proceedings - International Symposium on Biomedical Imaging
Borovec, Jiri; Muñoz Barrutia, Arrate; Kybic, Jan	**Benchmarking of image registration methods for differently stained histological slides**	Proceedings Paper		3372	3368		Internacional	Proceedings - International Conference on Image Processing, ICIP
M Rieckher, Se Psycharakis, D Ancora, E Liapis, A Zacharopoulos, J Ripoll, N Tavernarakis, G Zacharakis	**Demonstrating Improved Multiple Transport-Mean-Free-Path Imaging Capabilities of Light Sheet Microscopy in the Quantification of Fluorescence Dynamics**	Article	13			1	Internacional	Biotechnol J

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Fernandez, T; Martinez-Serrano, A; Cusso, L; Desco, M; Ramos-Gomez, M. Functionalization and Characterization of Magnetic Nanoparticles for the Detection of Ferritin Accumulation in Alzheimer's Disease. ACS Chemical Neuroscience. 2018; 9(5) 912-924. FI: 3,861. Cuartil: 1. (Article).*
- *Casquero-Veiga, M; Garcia-Garcia, D; Desco, M; Soto-Montenegro, ML. Understanding Deep Brain Stimulation: In Vivo Metabolic Consequences of the Electrode Insertional Effect. Biomed Research International. 2018; 2018 8560232-8560232. FI: 2,197. Cuartil: 3. (Article).*
- *de Molina C; Serrano E; Garcia-Blas J; Carretero J; Desco M; Abella M. GPU-accelerated iterative reconstruction for limited-data tomography in CBCT systems. BMC BIOINFORMATICS. 2018; 19(1) 171-171. FI: 2,511. Cuartil: 1. (Article).*
- *Perez-Caballero, L; Soto-Montenegro, ML; Hidalgo-Figueroa, M; Mico, JA; Desco, M; Berrocoso, E. Deep brain stimulation electrode insertion and depression: Patterns of activity and modulation by analgesics. BRAIN STIMULATION. 2018; 11(6) 1348-1355. FI: 6,919. Cuartil: 1. (Article).*
- *Calle, D; Negri, V; Munuera, C; Mateos, L; Tourino, IL; Vinegla, PR; Ramirez, MO; Garcia-Hernandez, M; Cerdan, S; Ballesteros, P. Magnetic anisotropy of functionalized multi-walled carbon nanotube suspensions. CARBON. 2018; 131 229-237. FI: 7,466. Cuartil: 1. (Article).*
- *Bello-Arroyo, E; Roque, H; Marcos, A; Orihuel, J; Higuera-Matas, A; Desco, M; Caiolfa, VR; Ambrosio, E; Lara-Pezzi, E; Gomez-Gaviro, MV. MouBeAT: A New and Open Toolbox for Guided Analysis of Behavioral Tests in Mice. Frontiers in Behavioral Neuroscience. 2018; 12 201-201. FI: 2,622. Cuartil: 2. (Article).*
- *Marcos-Vidal, L; Martinez-Garcia, M; Pretus, C; Garcia-Garcia, D; Martinez, K; Janssen, J; Vilarroya, O; Castellanos, FX; Desco, M; Sepulcre, J; Carmona, S. Local functional connectivity suggests functional immaturity in children with attention-deficit/hyperactivity disorder. HUMAN BRAIN MAPPING. 2018; 39(6) 2442-2454. FI: 4,554. Cuartil: 1. (Article).*
- *Marinetto, E; Garcia-Mato, D; Garcia, A; Martinez, S; Desco, M; Pascau, J. Multicamera Optical Tracker Assessment for Computer Aided Surgery Applications. IEEE Access. 2018; 6 64359-64370. FI: 4,098. Cuartil: 1. (Article).*
- *Meijering, E; Munoz-Barrutia, A. IN THE SPOTLIGHT. IEEE SIGNAL PROCESSING MAGAZINE. 2018; 35(6) 125-. FI: 7,602. Cuartil: 1. (Editorial Material).*
- *Abascal, JFPJ; Desco, M; Parra-Robles, J. Incorporation of Prior Knowledge of Signal Behavior Into the Reconstruction to Accelerate the Acquisition of Diffusion MRI Data. IEEE TRANSACTIONS ON MEDICAL IMAGING. 2018; 37(2) 547-556. FI: 7,816. Cuartil: 1. (Article).*
- *Burillo A; Gomez-Lopez A; Escribano P; Galar A; Salinas B; Diaz-Perez N; Munoz P; Bouza E. A new cause of false positive voriconazole levels: Watch your collection tubes !. JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES. 2018; 1092 328-331. FI: 2,813. Cuartil: 2. (Article).*
- *Ancora, D; Di Battista, D; Giasafaki, G; Psycharakis, SE; Liapis, E; Ripoll, J; Zacharakis, G. Optical projection tomography via phase retrieval algorithms. METHODS. 2018; 136 81-89. FI: 3,782. Cuartil: 1. (Article).*
- *Cal-Gonzalez, J; Vaquero, JJ; Herraiz, JL; Perez-Liva, M; Soto-Montenegro, ML; Pena-Zalbidea, S; Desco, M; Udias, JM. Improving PET Quantification of Small Animal [(68)Ga]DOTA-Labeled PET/CT Studies by Using a CT-Based Positron Range Correction. MOLECULAR IMAGING AND BIOLOGY. 2018; 20(4) 584-593. FI: 3,341. Cuartil: 1. (Article).*
- *Hadar, R; Bikovski, L; Soto-Montenegro, ML; Schimke, J; Maier, P; Ewing, S; Voget, M; Wieske, F; Gotz, T; Desco, M; Hamani, C; Pascau, J; Weiner, I; Winter, C. Early neuromodulation prevents the development of brain and behavioral abnormalities in a rodent model of schizophrenia. MOLECULAR PSYCHIATRY. 2018; 23(4) 943-951. FI: 11,973. Cuartil: 1. (Article).*
- *Cussó L; Desco M. Suppression of 18F-FDG signal in the bladder on small animal PET-CT. PLoS One. 2018; 13(10) -. FI: 2,776. Cuartil: 2. (Article).*
- *Casquero-Veiga, M; Garcia-Garcia, D; Pascau, J; Desco, M; Soto-Montenegro, ML. Stimulating the nucleus accumbens in obesity: A positron emission tomography study after deep brain stimulation in a rodent model. PLoS One. 2018; 13(9) -. FI: 2,776. Cuartil: 2. (Article).*
- *Abella, M; de Molina, C; Ballesteros, N; Garcia-Santos, A; Martinez, A; Garcia, I; Desco, M. Enabling tomography with low-cost C-arm systems. PLoS One. 2018; 13(9) -. FI: 2,776. Cuartil: 2. (Article).*
- *Pretus C; Picado M; Ramos-Quiroga JA; Carmona, S; Richarte, V; Fauquet, J; Vilarroya, O. Just-in-time response to reward as a function of ADHD symptom severity. PSYCHIATRY AND CLINICAL NEUROSCIENCES. 2018; 72(9) 731-740. FI: 3,489. Cuartil: 2. (Article).*
- *Garcia-Vazquez, V; Sese-Lucio, B; Calvo, FA; Vaquero, JJ; Desco, M; Pascau, J. Surface scanning for 3D dose calculation in intraoperative electron radiation therapy. Radiation Oncology. 2018; 13(1) 243-243. FI: 2,895. Cuartil: 2. (Article).*
- *Gordaliza, PM; Munoz-Barrutia, A; Abella, M; Desco, M; Sharpe, S; Vaquero, JJ. Unsupervised CT Lung Image Segmentation of a Mycobacterium Tuberculosis Infection Model. Scientific Reports. 2018; 8(1) 9802-9802. FI: 4,011. Cuartil: 1. (Article).*
-

- ***Publications of the main WOS collection in journals without impact factor***

- *Moreta-Martinez, R; Garcia-Mato, D; Garcia-Sevilla, M; Perez-Mananes, R; Calvo-Haro, J; Pascau, J. Augmented reality in computer-assisted interventions based on patient-specific 3D printed reference. Healthcare Technology Letters. 2018; 5(5) 162-166. (Article).*

- *Borovec, J; Munoz-Barrutia, A; Kybic, J. BENCHMARKING OF IMAGE REGISTRATION METHODS FOR DIFFERENTLY STAINED HISTOLOGICAL SLIDES. IEEE International Conference on Image Processing ICIP. 2018; 3368-3372. (Proceedings Paper).*

- *Gordaliza, PM; Vaquero, JJ; Sharpe, S; Desco, M; Munoz-Barrutia, A. TOWARDS AN INFORMATIONAL MODEL FOR TUBERCULOSIS LESION DISCRIMINATION ON X-RAY CT IMAGES. IEEE International Symposium on Biomedical Imaging. 2018; 265-268. (Proceedings Paper).*

- *Alfano, F; Garcia, FP; Fisac, JEO; Conde, MH; Zamora, OB; Calvo, FA; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. TUMOR LOCALIZATION USING PRONE TO SUPINE SURFACE BASED REGISTRATION FOR BREAST CANCER SURGICAL PLANNING. IEEE International Symposium on Biomedical Imaging. 2018; 788-791. (Proceedings Paper).*

- *Marcos-Vidal, A; Ancora, D; Zacharakis, G; Vaquero, JJ; Ripoll, J. Projection Tomography in the NIR-IIa window: challenges, advantages and comparison with classical optical approach. Progress in Biomedical Optics and Imaging. 2018; 10573 -. (Proceedings Paper).*

1.02 Signal processing

Group Director: **Antonio Artés Rodríguez**
Organisms involved: **UC3M**
Consolidated (in the process of integration) Group

Research lines

L1. Merging of data from monitoring devices.
L2. Data mining in psychiatry
L3. Digital phenotyping
L4. Ambulatory 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

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

Group members

Surname		Name	Role
ARMARIO	ROMERO	ARTURO	Training
ARTES	RODRIGUEZ	ANTONIO	Senior researcher
BONILLA	ESCRIBANO	PABLO	Training
BRAVO	AGUADO	JORGE	
CAMPAÑA	MONTES	JUAN JOSÉ	Researcher
CARRETERO	VILLAJOS	PATRICIA	
CHAO		QI	
COBO	AGUILERA	AURORA	
HERNANZ	MAYORAL	CARLOS ANDRÉS	
KOCH		TOBIAS	Senior researcher
LANCHO	GALLEGO	ALEJANDRO	FPU
LÓPEZ	SANTIAGO	JAVIER	Senior researcher
LÓPEZ	YELA	ALBERTO	Postdoctoral
MARTINEZ	OLMOS	PABLO	Juan de la Cierva
MARTINEZ	ORDOÑEZ	JOSE ALBERTO	
MÍGUEZ	ARENAS	JOAQUÍN	Senior researcher
MORENO	MARTINEZ	ANGELA	
MORENO	MUÑOZ	PABLO	Training
MORENO	PINO	FERNANDO	
PEIS	AZNARTE	IGNACIO	Training
PÉREZ	CRUZ	FERNANDO	Senior researcher
PÉREZ	VIEITES	SARA	Researcher
RAMIREZ	GARCÍA	DAVID	Senior researcher
RAVI		JITHIN	
RODRIGUEZ	DE DIAGO	MARTA	
SÁNCHEZ	MARTIN	PABLO	
VÁZQUEZ	LÓPEZ	MANUEL	Senior researcher
VÁZQUEZ	VILAR	GONZALO	Juan de la Cierva
VILLACRES	ESTRADA	GRACE	Training

Research Projects– Competitive Calls

-Not managed by the FIBHGM

TITLE: **NICOP -a new sequential Monte Carlo framework for tracking of non-linear complex dynamical systems**. 2015/00154
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Office of Naval Research Global
START DATE: 17/04/2015
END DATE: 16/04/2018

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

TITLE: **Annomalous human behavIour Detection (AID)** TEC2014-62194-EXP
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/09/2015
END DATE: 31/08/2018

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: **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: 31/10/2020

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

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
CIBER	CIBERSAM CIBER Salud Mental	Others (Only Antonio Artés Rodríguez)

Patents and intellectual property registrations

Patents

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**

Doctoral theses, Bachelor thesis and Master's thesis

TYPE	CANDIDATE	TITLE	Name/S DIRECTOR/S	UNIVERSITY	DATE DEFENDED
Ph Thesis	**Francisco Hernando Gallego**	Stress Level Assessment with non-Intrusive Sensors	Antonio Artés Rodríguez	UC3M	April 12th2018
Ph Thesis	**Gonzalo Ricardo Ríos Muñoz**	Rotor detection in atrial fibrillation	Antonio Artés Rodríguez	UC3M	October 23rd 2018

Publications *Total Impact Factor:* ***55.3***

	Nº	IF
Own publications	12	45.6
Joint publications	4	9.7
First decile publications	3	16.0
First quartile publications	8	38.5
Second quartile publications	5	15.0
Third quartile publications	1	1.7
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	2	-
Total publications (incluging those without IF)	**16**	**55.3**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports:

- *Vazquez, MA; Marino, IP; Blyuss, O; Ryan, A; Gentry-Maharaj, A; Kalsi, J; Manchandada, R; Jacobs, I; Menon, U; Zaikin, A. A quantitative performance study of two automatic methods for the diagnosis of ovarian cancer. BIOMEDICAL SIGNAL PROCESSING AND CONTROL. 2018; 46 86-93. FI: 2,943. Cuartil: 2. (Article).*
- *Villacres, G; Koch, T; Sezgin, A; Vazquez-Vilar, G. Robust Signaling for Bursty Interference. Entropy. 2018; 20(11) -. FI: 2,419. Cuartil: 2. (Article).*
- *Crisan, D; Miguez, J; Rios-Munoz, G. On the performance of parallelisation schemes for particle filtering. EURASIP Journal on Advances in Signal Processing. 2018; -. FI: 1,749. Cuartil: 3. (Article).*
- *Rios-Munoz GR; Arenal A; Artes-Rodriguez A. Corrigendum: Real-Time Rotational Activity Detection in Atrial Fibrillation. Frontiers in Physiology. 2018; 9 1260-1260. FI: 3,201. Cuartil: 2. (Article).*
- *Rios-Munoz, GR; Arenal, A; Artes-Rodriguez, A. Real-Time Rotational Activity Detection in Atrial Fibrillation. Frontiers in Physiology. 2018; 9 208-208. FI: 3,201. Cuartil: 2. (Article).*
- *Liu, YF; Olmos, PM; Mitchell, DGM. Generalized LDPC Codes for Ultra Reliable Low Latency Communication in 5G and Beyond. IEEE Access. 2018; 6 72002-72014. FI: 4,098. Cuartil: 1. (Article).*
- *Hernando-Gallego, F; Luengo, D; Artes-Rodriguez, A. Feature Extraction of Galvanic Skin Responses by Nonnegative Sparse Deconvolution. IEEE Journal of Biomedical and Health Informatics. 2018; 22(5) 1385-1394. FI: 4,217. Cuartil: 1. (Article).*
- *Horstmann, S; Ramirez, D; Schreier, PJ. Joint Detection of Almost-Cyclostationary Signals and Estimation of Their Cycle Period. IEEE SIGNAL PROCESSING LETTERS. 2018; 25(11) 1695-1699. FI: 3,268. Cuartil: 2. (Article).*
- *Cespedes, J; Olmos, PM; Sanchez-Fernandez, M; Perez-Cruz, F. Probabilistic MIMO Symbol Detection With Expectation Consistency Approximate Inference. IEEE T VEH TECHNOL. 2018; 67(4) 3481-3494. FI: 5,339. Cuartil: 1. (Article).*

- *Santos, I; Murillo-Fuentes, JJ; Arias-de-Reyna, E; Olmos, PM. Turbo EP-Based Equalization: A Filter-Type Implementation. IEEE TRANSACTIONS ON COMMUNICATIONS. 2018; 66(9) 4259-4270. FI: 5,69. Cuartil: 1. (Article).*
- *Koch, T; Vazquez-Vilar, G. A Rigorous Approach to High-Resolution Entropy-Constrained Vector Quantization. IEEE TRANSACTIONS ON INFORMATION THEORY. 2018; 64(4) 2609-2625. FI: 3,215. Cuartil: 1. (Article).*
- *Ramirez, D; Romero, D; Via, J; Lopez-Valcare, R; Santamaria, I. Testing Equality of Multiple Power Spectral Density Matrices. IEEE TRANSACTIONS ON SIGNAL PROCESSING. 2018; 66(23) 6268-6280. FI: 5,23. Cuartil: 1. (Article).*
- *Pries, A; Ramirez, D; Schreier, PJ. LMPIT-Inspired Tests for Detecting a Cyclostationary Signal in Noise With Spatio-Temporal Structure. IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS. 2018; 17(9) 6321-6334. FI: 6,394. Cuartil: 1. (Article).*
- *Berrouiguet, S; Ramirez, D; Barrigon, ML; Moreno-Munoz, P; Camacho, RC; Baca-Garcia, E; Artes-Rodriguez, A. Combining Continuous Smartphone Native Sensors Data Capture and Unsupervised Data Mining Techniques for Behavioral Changes Detection: A Case Series of the Evidence-Based Behavior (eB2) Study. JMIR mHealth and uHealth. 2018; 6(12) -. FI: 4,301. Cuartil: 1. (Article)*

Publications of the main WOS collection in journals without impact factor

.

- *Ramirez, D; Santamaria, I; Van Vaerenbergh, S; Scharf, LL. An alternating optimization algorithm for two-channel factor analysis with common and uncommon factors. Conference Record of the Asilomar Conference on Signals Systems and Computers. 2018; 1743-1747. (Proceedings Paper).*
- *Liu, YF; Olmos, PM; Mitchell, DGM. On Generalized LDPC Codes for 5G Ultra Reliable Communication. Information Theory Workshop. 2018; 81-85. (Proceedings Paper).*

Aditional UC3M Publications

- *Crisan, Dan ; Míguez, Joaquín ; Ríos-Muñoz, Gonzalo.On the performance of parallelisation schemes for particle filtering. Article*
- *Luengo, David ; Ríos-Muñoz, Gonzalo ; Elvira, Victor ; Sánchez, Carlos ; Artés-Rodríguez, AntonioHierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. Article*
- *Reiners, A; Ribas, I; Zechmeister, M; Caballero, JA ; Trifonov, T; Dreizler, S; Morales, JC ; Tal-Or, L; Lafarga, M; Quirrenbach, A; others,The CARMENES search for exoplanets around M dwarfs-High-resolution optical and near-infrared spectroscopy of 324 survey stars Article*
- *Reale, Fabio ; Lopez-Santiago, Javier ; Flaccomio, Ettore ; Petralia, Antonino ; Sciortino, Salvatore X-Ray Flare Oscillations Track Plasma Sloshing along Star-disk Magnetic Tubes in the Orion Star-forming Region Article*
- *Bravi, L; Zari, E; Sacco, GG ; Randich, S; Jeffries, RD ; Jackson, RJ ; Franciosini, E; Moraux, E; López-Santiago, J; Pancino, E; others,The Gaia-ESO Survey: a kinematical and dynamical study of four young open clusters. Article*
- *López-Santiago, Javier. On the use of wavelets to reveal oscillatory patterns in stellar flare emission. Article*
- *Dan Crisan; Joaquín Míguez nested particle filters for online parameter estimation in discrete-time state-space Markov models. Article*
- *Lucas Lacasa, Inés P. Mariño, Joaquín Miguez, Vincenzo Nicosia, Edgar Roldán, Ana Lisica, Stephan W. Grill, Jesús Gómez-GardeñesMultiplex Decomposition of Non-Markovian Dynamics and the hidden Layer Reconstruction Problem. Article*
- *Javier López-Labraca; Miguel Ángel Fernández-Torres; Iván González-Díaz; Fernando Díaz-de-María; Ángel Pizarro Enriched demoscopic-structure-based cad system for melanoma diagnosis. Article*
- *Sara Pérez-Vieites; Inés P. Mariño; Joaquín Miguez Probabilistic scheme for joint parameter estimation and state prediction in complex dynamical systems Article*
- *Joaquín Míguez; Inés P.Mariño; Manuel A.Vázquez Analysis of a nonlinear importance sampling scheme for bayesian parameter estimation in state-space models. Article*

1.03 Computer architecture, communications, and systems: ARCOS

Group Director: **Jesús Carretero Pérez**
Organisms involved: **UC3M**
Consolidated (in the process of integration) Group

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.

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).

Group members

	Surname	*Name*	*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	
ORTIZ	NIETO	DANIEL	
RODRIGO	DURO	FRANCISCO JOSÉ	
SÁNCHEZ	GARCIA	LUIS MIGUEL	
SERRANO	LÓPEZ	ESTEFANÍA	FPU
SOTOMAYO	FERNANDEZ	RAFAEL	

Publications *Total Impact Factor: **24.5***

	Nº	IF
Own publications	3	14.0
Joint publications	5	10.5
First decile publications	1	5.8
First quartile publications	6	23.0
Second quartile publications	0	0.0
Third quartile publications	0	0.0
Fourth quartile publications	1	1.4
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**8**	**24.5**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *de Molina C; Serrano E; Garcia-Blas J; Carretero J; Desco M; Abella M. GPU-accelerated iterative reconstruction for limited-data tomography in CBCT systems. BMC BIOINFORMATICS. 2018; 19(1) 171-171. FI: 2,511. Cuartil: 1. (Article).*
- *Carretero, J; Garcia-Blas, J; Antoniu, G; Petcu, D. New directions in mobile, hybrid, and heterogeneous clouds for cyberinfrastructures. FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE. 2018; 87 615-617. FI: 5,768. Cuartil: 1. (Editorial Material).*
- *Dolz, MF; Astorga, DD; Fernandez, J; Garcia, JD; Carretero, J. Towards Automatic Parallelization of Stream Processing Applications. IEEE Access. 2018; 6 39944-39961. FI: 4,098. Cuartil: 1. (Article).*
- *Carretero, J; Izquierdo-Moreno, G; Vasile-Cabezas, M; Garcia-Blas, J. Federated Identity Architecture of the European eID System. IEEE Access. 2018; 6 75302-75326. FI: 4,098. Cuartil: 1. (Article).*
- *Gonzalez-Compean, JL; Sosa-Sosa, VJ; Diaz-Perez, A; Carretero, J; Marcelin-Jimenez, R. FedIDS: a federated cloud storage architecture and satellite image delivery service for building dependable geospatial platforms. INTERNATIONAL JOURNAL OF DIGITAL EARTH. 2018; 11(7) 730-751. FI: 3,985. Cuartil: 1. (Article).*
- *Gonzalez-Compean, JL; Sosa-Sosa, V; Diaz-Perez, A; Carretero, J; Yanez-Sierra, J. Sacbe: A building block approach for constructing efficient and flexible end-to-end cloud storage. JOURNAL OF SYSTEMS AND SOFTWARE. 2018; 135 143-156. FI: 2,559. Cuartil: 1. (Article).*
- *Galan, I; Goicoechea, M; Quiroga, B; Macias, N; Santos, A; de Vinuesa, MSG; Verdalles, U; Cedeno, S; Verde, E; de Jose, AP; Garcia, A; Luno, J. Hyperuricemia is associated with progression of chronic kidney disease in patients with reduced functioning kidney mass. NEFROLOGIA. 2018; 38(1) 73-78. FI: 1,439. Cuartil: 4. (Article).*

Publications of the main WOS collection in journals without impact factor

- Serrano, E; Garcia-Blas, J; Carretero, J. *A cloud environment for ubiquitous medical image reconstruction*. Ieee International Symposium On Parallel And Distributed Processing With Applications. 2018; 1048-1055. (Proceedings Paper).

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*	*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: **5.4***

	Nº	IF
Own publications	2	1.4
Joint publications	2	4.0
First decile publications	0	-
First quartile publications	1	4.0
Second quartile publications	0	0.0
Third quartile publications	1	0.8
Fourth quartile publications	1	0.6
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**4**	**5.4**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Flores, R; Lillo, R; Romo, J. Homogeneity test for functional data. J APPL STAT. 2018; 45(5) 868-883. FI: 0,767. Cuartil: 3. (Article).*
- *Azcorra, A; Chiroque, LF; Cuevas, R; Anta, AF; Laniado, H; Lillo, RE; Romo, J; Sguera, C. Unsupervised Scalable Statistical Method for Identifying Influential Users in Online Social Networks. Scientific Reports. 2018; 8 -. FI: 4,011. Cuartil: 1. (Article).*
- *Torrecilla, JL; Romo, J. Data learning from big data. STAT PROBABIL LETT. 2018; 136 15-19. FI: 0,615. Cuartil: 4. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Martinez-Laperche, C; Buces, E; Aguilera-Morillo, MC; Picornell, A; Gonzalez-Rivera, M; Lillo, R; Santos, N; Martin-Antonio, B; Guillem, V; Nieto, JB; Gonzalez, M; de la Camara, R; Brunet, S; Jimenez-Velasco, A; Espigado, I; Vallejo, C; Sampol, A; Bellon, JM; Serrano, D; Kwon, M; Gayoso, J; Balsalobre, P; Urbano-Izpizua, A; Solano, C; Gallardo, D; Diez-Martin, JL; Romo, J; Buno, I; Spanish Grp Hematopoietic. A novel predictive approach for GVHD after allogeneic SCT based on clinical variables and cytokine gene polymorphisms. Blood Advances. 2018; 2(14) 1719-1737. (Article).*

AREA 2

Area Coordinator**: Francisco Fernández-Avilés Díaz**

CARDIOVASCULAR DISEASES

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

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	Role
ACOSTA	OCAMPO	ALEJANDRA	Others
ALONSO	GARCIA	ANDRES	Others
ARENAL	MAIZ	ANGEL	Senior Researcher
ATIENZA	FERNANDEZ	FELIPE	Senior Researcher
BERMEJO	THOMAS	JAVIER	Senior Researcher
BRUÑA	FERNANDEZ	VANESA	Others
CARTA	BERGAZ	ALEJANDRO	Others
CASADO	PLASENCIA	ANA	Others
CHACÓN	TOMÉ	CARMEN	
CORISCO	BELTRÁN	RAFAEL	Others
CUENCA	PARRA	SOIFA	Postdoctoral
DATINO	ROMANIEGA	TOMAS	Postdoctoral
DE LA PAVA	ISAZA	SEBASTIAN	Data management
DEVESA	CORDERO	CAROLINA	Predoctoral
DIEZ	DEL HOYO	FELIPE	PostMIR IISGM
ELIZAGA	CORRALES	JAIME	Postdoctoral
ESPINOSA	CASTRO	MARIA ANGELES	Others
FERNÁNDEZ	ÁVILA	ANA ISABEL	Predoctoral
FERNÁNDEZ	BAZA	ANA MARIA	Management
FERNÁNDEZ	CORDÓN	CLARA	
FERNÁNDEZ	SANTOS	Mª EUGENIA	Senior Researcher
FERNANDEZ-AVILES	DIAZ	FRANCISCO JESUS	Senior Researcher
FERNANDEZ-YAÑEZ	GARCIA-MONGE	JUAN	Others
GARCIA	CARREÑO	JORGE	Others
GARCIA	DEL REY	MARIA DEL CARMEN	Others

Surname		Name	Role
GARCIA	DIAZ	ALEJANDRO JOSE	Predoctoral
GOMEZ	CARRILLO	VICTOR	Others
GOMEZ	CID	LIDIA	Others
GARCÍA	MONTERO	MARTA	Others
GOMEZ	GONZALEZ	CRISTINA	Others
GONZALEZ	CASAL	DAVID	Others
GONZALEZ	MANSILLA	ANA	Others
GONZALEZ	TORRECILLA	ESTEBAN	Postdoctoral
GRIGORIAN	SHAMAJIAN	LILIAN	
GUTIERREZ	IBAÑES	ENRIQUE	Others
HERRERA	FLORES	CRISTIAN	Others
JUAREZ	FERNANDEZ	MIRIAM	Others
JURADO	ÁLVAREZ	ELENA	Others
LOPEZ	GARCIA	JUAN CARLOS	Others
LORCA	GUTIERREZ	REBECA	Others
LUNA	LOPEZ	RAQUEL	Others
MARTIN	DE MIGUEL	IRENE	Others
MARTÍN	MANZANO	VIRGINIA MILAGROS	Others
MARTINEZ	CLIMENT	BATISTE ANDREU	Juan de la Cierva
MARTÍNEZ	SOLANO	JORGE	Others
MARTINEZ	SELLES	MANUEL	Senior Researcher
MARTINEZ-LEGAZPI	AGUILO	PABLO	Juan de la Cierva
MATARIN	UCLÉS	FRANCISCO	Gestión
MATEOS	GAILAN	ROBERTO	Others
MENDEZ	FERNANDEZ	IRENE	Others
MOMBIELA	RAMIREZ DE GANUZA	TERESA	Others
MUÑOZ	LOPEZ	IRENE	Data management
NAVAS	TEJEDOR	PAULA	Others
OLIVER	RUIZ	JOSÉ MARÍA	Other
PAREJA	MALAGON	A. MIRIAM	Others
PÉREZ	DAVID	ESTHER	Postdoctoral
PEREZ DEL VILLAR	MORO	MARIA CANDELAS	Juan Rodés
PIÑA	LANCHO	MARÍA JESÚS	Others
PLASENCIA	MARTIN	VIRGINIA	Support technician
POSTIGO	ESTEBAN	ANDREA	Others
PRIETO	AREVALO	RAQUEL	Postdoctoral
RÍOS	MIÑOZ	GONZALO RICARDO	
SANZ	RUIZ	RICARDO	Others
SOBRINO	GONZALEZ	OLGA	Data management
SORIANO	TRIGUERO	JAVIER	Others
SOUSA	CASANOVAS	IAGO	Others
SUAREZ	SANCHO	SUSANA	Predoctoral
TAMARGO	DELPÓN	MARÍA AMALIA	Others
VALERO	MASA	MARÍA JESUS	Others

Surname		Name	Role
VAZQUEZ	ALVAREZ	MARIA EUGENIA	Others
VAZQUEZ	CASTAÑO	ALEXANDRA	Data management
VICENT	ALAMINOS	MARIA LOURDES	Others
VILLA	ARRANZ	ADOLFO	Others
ZATARAIN	NICOLAS	EDUARDO	Others

Research Projects – Competitive Calls

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: 31/12/2020

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: 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: **Terapia celular basada en progenitores cardiacos para tratamiento taquicardia ventricular (CPCs-TV**) RTC-2015-4398-1
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: Research project
FUNDING BODY: MINECO PROYECTO RETOS 2015.
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **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

START DATE: 01/01/2017
END DATE: 29/12/2019

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
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: 31/12/2018

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: **Coste-efectividad y coste utilidad de una estrategia de transfusión de hematíes "liberal" vs. otra "restricitva" en pacientes con infarto agudo de miocardio y anemia. Estudio REALITY** PI15/01355
DIRECTOR: MARTINEZ- SELLES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Estimación del riesgo trombo-embólico tras infarto agudo de miocardio mediante la cuantificación de la estasis intraventricular"** PI15/02211
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY R: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Análisis de la interacción miocardo-flujo en pacientes con miocardiopatía hipertrófica de causa genética** PI15/02229
DIRECTOR: YOTTI ÁLVAREZ, RAQUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **JUAN RODES contract** JR15/00039
DIRECTOR: PEREZ DEL VILLAR MORO, MARIA CANDELAS
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **JUAN DE LA CIERVA-INCORPORACION Contract**. IJCI-2014-22178
DIRECTOR: BATISTE ANDREU MARTINEZ CLIMENT
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
PROJECT TYPE: Human resources
START DATE: 01/06/2016
END DATE: 31/05/2018

TITLE: **JUAN DE LA CIERVA-INCORPORACION Contract**. IJCI-2014-19507
DIRECTOR: MARTINEZ-LEGAZPI AGUILO PABLO
FUNDING BODY: MINISTERIO DE ECONOMIA INDUSTRIA Y COMPETITIVIDAD
PROJECT TYPE: Human resources
START DATE: 01/06/2016
END DATE: 31/05/2018

TITLE: **RIO HORTEGA Contract** CM16/00166
DIRECTOR: CUENCA PARRA, SOFIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2018

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: 09/03/20107
END DATE: 31/12/2020

Patents and intellectual property registrations

Patents

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

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 thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	**Lourdes Vicent Alaminos**	Intensidad y evolución de la disnea durante el ingreso hospitalario en pacientes con insuficiencia cardiaca y enfermedades respiratorias	Manuel Martinez Selles Doliveira Soares,	UCM	January 18th 2018
Ph Thesis	**María Jesús Valero Masa**	Diferencias en función del sexo en el pronóstico del infarto agudo de miocardio	Francisco Jesús Fernández-Aviles Diaz Manuel Martínez Selles D'oliveira Soares	UCM	March 3rd 2018

Clinical Practice Guidelines

Authors	Title	Journal / Reference
Fernandez-Aviles, F; Sanz-Ruiz, R; Climent, AM; Badimon, L; Bolli, R; Charron, D; Fuster, V; Janssens, S; Kastrup, J; Kim, HS; Luscher, TF; Martin, JF; Menasche, P; Pinto, FJ; Simari, RD; Stone, GW;	**Global Overview of the Transnational Alliance for Regenerative Therapies in Cardiovascular Syndromes (TACTICS) Recommendations: A Comprehensive**	CIRCULATION RESEARCH

Authors	Title	Journal / Reference
Terzic, A; Willerson, JT; Wu, JC; TACTICS Writing Grp.	**Series of Challenges and Priorities of Cardiovascular Regenerative Medicine.**	
Chamuleau, Steven A. J.; van der Naald, Mira; MARTINEZ CLIMENT, BATISTE ANDREU; Kraaijeveld, Adriaan O.; Wever, Kim E.; Duncker, Dirk J.; FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS; Bolli, Roberto; Cardiovascular Syndromes TACTICS.	**Translational Research in Cardiovascular Repair: A Call for a Paradigm Shift.**	CIRCULATION RESEARCH

Publications *Total Impact Factor: **484.0***

	Nº	IF
Own publications	24	172.7
Joint publications	52	311.4
First decile publications	24	314.6
First quartile publications	46	415.4
Second quartile publications	15	48.8
Third quartile publications	7	13.4
Fourth quartile publications	5	6.4
Nonindexed publications / No IF	3	-
Total publications (incluging those without IF)	**76**	**484.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Carrera-Bastos P; Picazo O; Fontes-Villalba M; Pareja-Galeano H; Lindeberg, S; Martinez-Selles, M; Lucia, A; Emanuele, E. Serum Zonulin and Endotoxin Levels in Exceptional Longevity versus Precocious Myocardial Infarction. Aging and Disease. 2018; 9(2) 317-321. FI: 4,232. Cuartil: 1. (Article).*
- *de Luna, AB; Baranchuk, A; Pulido, CN; Martinez-Selles, M; Bayes-Genis, A; Elosua, R; Elizari, MV. Second-degree interatrial block: Brief review and concept. ANNALS OF NONINVASIVE ELECTROCARDIOLOGY. 2018; 23(6) -. FI: 1,235. Cuartil: 4. (Article).*
- *Rosello-Diez, E; Cuerpo, G; Estevez, F; Munoz-Guijosa, C; Tauron, M; Cuenca, JJ; Gonzalez-Pinto, A; Padro, JM. Use of the Perceval Sutureless Valve in Active Prosthetic Aortic Valve Endocarditis. ANNALS OF THORACIC SURGERY. 2018; 105(4) 1168-1174. FI: 3,919. Cuartil: 1. (Article).*
- *Herrera, C; Marcos, M; Carbonell, C; Miron-Canelo, JA; Espinosa, G; Cervera, R; Chamorro, AJ. Association between allelic variants of the human glucocorticoid receptor gene and autoimmune diseases: A systematic review and meta-analysis. AUTOIMMUN REV. 2018; 17(5) 449-456. FI: 7,716. Cuartil: 1. (Article).*
- *Amat-Santos, IJ; Catala, P; del Hoyo, FD; Fernandez-Diaz, JA; Alonso-Briales, JH; Del Trigo, M; Regueiro, A; Juan-Salvadores, P; Serra, V; Gutierrez-Ibanes, E; Munoz-Garcia, AJ; Nombela-Franco, L; Sabate, M; Jimenez-Diaz, VA; del Blanco, BG; Lopez, J; Varela-Falcon, LH; Sevilla, T; Arnold, R; Revilla, A; San Roman, JA. Impact of renin-angiotensin system inhibitors on clinical outcomes and ventricular remodelling after transcatheter aortic valve implantation: rationale and design of the RASTAVI randomised multicentre study. BMJ Open. 2018; 8(2) -. FI: 2,376. Cuartil: 2. (Article).*
- *Vicent, L; Juarez, M; Martin, I; Garcia, J; Gonzalez-Saldivar, H; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Fernandez-Aviles, F; Martinez-Selles, M. Ventricular Arrhythmic Storm after Initiating Sacubitril/Valsartan. CARDIOLOGY. 2018; 139(2) 119-123. FI: 1,561. Cuartil: 4. (Article).*
- *Fernandez-Aviles F; Sanz-Ruiz R; Bogaert J; Plasencia, AC; Gilaberte I; Belmans A; Fernandez-Santos ME; Charron D; Mulet M; Yotti R; Palacios I; Luque M; Sadaba R; San Roman JA; Larman M; Sanchez PL; Sanchis J; Jimenez MF; Claus P; Al-Daccak R; Lombardo E; Abad JL; DelaRosa O; Corcostegui L; Bermejo J; Janssens S. Safety and Efficacy of Intracoronary Infusion of Allogeneic Human Cardiac Stem Cells in Patients With ST-Segment Elevation Myocardial Infarction and Left Ventricular Dysfunction: A Multicenter Randomized, Double-Blind, and Placebo-Controlled Clinical Trial. CIRCULATION RESEARCH. 2018; 123(5) 579-589. FI: 15,862. Cuartil: 1. (Article).*

- *Fernandez-Aviles, F; Sanz-Ruiz, R; Climent, AM; Badimon, L; Bolli, R; Charron, D; Fuster, V; Janssens, S; Kastrup, J; Kim, HS; Luscher, TF; Martin, JF; Menasche, P; Pinto, FJ; Simari, RD; Stone, GW; Terzic, A; Willerson, JT; Wu, JC; TACTICS Writing Grp. Global Overview of the Transnational Alliance for Regenerative Therapies in Cardiovascular Syndromes (TACTICS) Recommendations: A Comprehensive Series of Challenges and Priorities of Cardiovascular Regenerative Medicine. CIRCULATION RESEARCH. 2018; 122(2) 199-201. FI: 15,862. Cuartil: 1. (Editorial Material).*
- *Tompkins, BA; Balkan, W; Winkler, J; Gyongyosi, M; Goliasch, G; Fernandez-Aviles, F; Hare, JM. Preclinical Studies of Stem Cell Therapy for Heart Disease. CIRCULATION RESEARCH. 2018; 122(7) 1006-1020. FI: 15,862. Cuartil: 1. (Article).*
- *Chamuleau, SAJ; van der Naald, M; Climent, AM; Kraaijeveld, AO; Wever, KE; Duncker, DJ; Fernandez-Aviles, F; Bolli, R; Cardiovascular Syndromes TACTICS. Translational Research in Cardiovascular Repair: A Call for a Paradigm Shift. CIRCULATION RESEARCH. 2018; 122(2) 310-318. FI: 15,862. Cuartil: 1. (Article).*
- *Fanaroff, AC; Morrow, V; Krucoff, MW; Seltzer, JH; Perin, EC; Taylor, DA; Miller, LW; Zeiher, AM; Fernandez-Aviles, F; Losordo, DW; Henry, TD; Povsic, TJ. A Path Forward for Regenerative Medicine. CIRCULATION RESEARCH. 2018; 123(4) 495-505. FI: 15,862. Cuartil: 1. (Article).*
- *Broughton KM; Wang BJ; Firouzi F; Khalafalla F; Dimmeler S; Fernandez-Aviles F; Sussman MA. Mechanisms of Cardiac Repair and Regeneration. CIRCULATION RESEARCH. 2018; 122(8) 1151-1163. FI: 15,862. Cuartil: 1. (Review).*
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- *Ribera, A; Slof, J; Ferreira-Gonzalez, I; Serra, V; Garcia-del Blanco, B; Cascant, P; Andrea, R; Falces, C; Gutierrez, E; del Valle-Fernandez, R; Moris-de laTassa, C; Mota, P; Oteo, JF; Tornos, P; Garcia-Dorado, D. The impact of waiting for intervention on costs and effectiveness: the case of transcatheter aortic valve replacement. EUROPEAN JOURNAL OF HEALTH ECONOMICS. 2018; 19(7) 945-956. FI: 2,169. Cuartil: 1. (Article).*
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- *Martinez-Legazpi, P; Rossini, L; del Villar, CP; Benito, Y; Devesa-Cordero, C; Yotti, R; Delgado-Montero, A; Gonzalez-Mansilla, A; Kahn, AM; Fernandez-Aviles, F; del Alamo, JC; Bermejo, J. Stasis Mapping Using Ultrasound A Prospective Study in Acute Myocardial Infarction. JACC-Cardiovascular Imaging. 2018; 11(3) 514-515. FI: 10,975. Cuartil: 1. (Letter).*
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- *Sousa-Casasnovas I; Ávila-Alonso P; Juárez-Fernández M; Díez-Delhoyo F; Martínez-Sellés M; Fernández-Avilés F. Arrhythmic storm solved with ExtraCorporeal Membrane Oxygenation and consecutive percutaneous coronary intervention and ventricular tachycardia ablation. Medicina Intensiva. 2018; 42(8) 504-506. FI: 1,982. Cuartil: 3. (Letter).*
- *Frias, PT; Olmo, MRF; Vazquez, MR; Bueno, MM; Esteban, AP; Jimenez, MA. Selection of the Best of 2017 in Vascular Risk and Cardiac Rehabilitation. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(3) 227-228. FI: 5,126. Cuartil: 1. (Letter).*
- *Diez-Villanueva, P; Ariza-Sole, A; Lopez, J; Garcia-Pardo, H; Martin-Sanchez, FJ; Martinez-Selles, M. Selection of the Best of 2017 in Heart Failure in Elderly Patients. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(2) 120-121. FI: 5,126. Cuartil: 1. (Letter).*

- *Ogando, AR; Tejerizo, FB; Cebada, FS; Lopez, CM; Jaurena, JMG; Martinez, JLZ. Experience With the Absorb Bioresorbable Vascular Scaffold in Various Scenarios of Congenital Heart Disease. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(11) 988-990. FI: 5,126. Cuartil: 1. (Letter).*
- *Bernal, E; Ariza-Sole, A; Diez-Villanueva, P; Carol, A; Romaguera, R; Martinez-Selles, M. Selection of the Best of 2017 in Geriatric Assessment of Elderly Patients With Aortic Stenosis. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(2) 121-123. FI: 5,126. Cuartil: 1. (Letter).*
- *Gil-Jaurena JM; González-López MT; Pita-Fernández A; Pérez-Caballero R; Prieto R; Medrano C. The Cone Technique for Ebstein Repair. First Cases. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(6) 490-491. FI: 5,126. Cuartil: 1. (Letter).*

2.02 Cardiovascular pathophysiology

Group Director: **Victoria Cachofeiro Ramos**
Organisms involved: **UCM**
Consolidated Group

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

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

Group members

Surname		Name	Role
BARTOLOME	PASCUAL	MARIA VISITACION	Postdoctoral
CACHOFEIRO	RAMOS	VICTORIA	Senior researcher
DELGADO	VALERO	BEATRIZ	
JURADO	LOPEZ	RAQUEL	Support technician
MARIN	ROYO	GEMA	Predoctoral
MARTÍNEZ	MARTÍNEZ	ERNESTO	Postdoctoral
MUÑOZ	FERRERO	ENCARNACIÓN	Support technician
VASCONCELOS	DE SOUZA NETO	FRANCISCO DAS CHAGAS	Predoctoral

Research Projects – Competitive Calls

- **Not managed by the FIBHGM**

TITLE: **Aldosterone and mineralocorticoid receptor: Pathophysiology, clinical implications and therapeutic innovations**. BM1301
DIRECTOR: JAISSER FREDERIC
FUNDING BODY: EUROPEAN UNION
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Papel del estrés oxidativo mitocondrial y los cambios en el lipidoma en la fibrosis asociada a la obesidad en el infarto agudo de miocardio. Mecanismos implicados**. PI15/01060
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE **Mecanismos implicados en las alteraciones de la mecánica cardiaca asociada a la obesidad en el infarto agudo de miocardio. Utilidad de los niveles circulantes de miRNAs**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: SOCIEDAD ESPAÑOLA DE CARDIOLOGIA
PROJECT TYPE: Research project
START DATE: 20/10/2016
END DATE: 31/12/2018

TITLE **Mecanismos implicados en la fibrosis miocárdica difusa. Papel de los cambios metabólicos miocárdicos.**
DIRECTOR: CACHOFEIRO RAMOS, VICTORIA
FUNDING BODY: Fundación Eugenio Rodríguez Pascual
PROJECT TYPE: Research project
START DATE: 10/10/2016
END DATE: 01/10/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
CIBER	CIBER de Enfermedades Cardiovasculares (CIBERCV)	Collaborating group
COST	ADMIRE (BM1301)	Collaborating group

Doctoral theses, Bachelor thesis and Master's thesis

Type	*Candidate*	*Title*	*Name/s Director/s*	*University*	*Date Defended*
Ph Thesis	**Gema Marín Royo**	Papel de la lipotoxicidad y la disfunción mitocondrial en las alteraciones cardiacas y metabólicas asociadas a la obesidad.	Cachofeiro Ramos, María Victoria (Director), Martinez Martinez, Ernesto (Director) yLuaces Mendez, Maria (Director)	UCM	November 20th 2018

Publications *Total Impact Factor: **28.0***

	Nº	IF
Own publications	1	4.0
Joint publications	6	23.9
First decile publications	1	7.0

First quartile publications	5	24.5
Second quartile publications	1	3.5
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**7**	**28.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Ibarrola J; Arrieta V; Sadaba R; Martinez-Martinez E; Garcia-Pena A; Alvarez V; Fernandez-Celis A; Gainza A; Santamaria E; Fernandez-Irigoyen J; Cachofeiro V; Zalba G; Fay R; Rossignol, P; Lopez-Andres, N. Galectin-3 down-regulates antioxidant peroxiredoxin-4 in human cardiac fibroblasts: a new pathway to induce cardiac damage. CLINICAL SCIENCE. 2018; 132(13) 1471-1485. FI: 5,237. Cuartil: 1. (Article).*
- *Marin-Royo, G; Gallardo, I; Martinez-Martinez, E; Gutierrez, B; Jurado-Lopez, R; Lopez-Andres, N; Gutierrez-Tenorio, J; Rial, E; Bartolome, MV; Nieto, ML; Cachofeiro, V. Inhibition of galectin-3 ameliorates the consequences of cardiac lipotoxicity in a rat model of diet-induced obesity. DISEASE MODELS & MECHANISMS. 2018; 11(2) -. FI: 4,028. Cuartil: 1. (Article).*
- *Avendano MS; Garcia-Redondo AB; Zalba G; Gonzalez-Amor M; Aguado A; Martinez-Revelles S; Beltran LM; Camacho M; Cachofeiro V; Alonso MJ; Salaices M; Briones AM. mPGES-1 (Microsomal Prostaglandin E Synthase-1) Mediates Vascular Dysfunction in Hypertension Through Oxidative Stress. HYPERTENSION. 2018; 72(2) 492-502. FI: 7,017. Cuartil: 1. (Article).*
- *Ibarrola, J; Sadaba, R; Garcia-Pena, A; Arrieta, V; Martinez-Martinez, E; Alvarez, V; Fernandez-Celis, A; Gainza, A; Santamaria, E; Fernandez-Irigoyen, J; Cachofeiro, V; Fay, R; Rossignol, P; Lopez-Andres, N. A role for fumarate hydratase in mediating oxidative effects of galectin-3 in human cardiac fibroblasts. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2018; 258 217-223. FI: 3,471. Cuartil: 2. (Article).*
- *Martinez-Martinez, E; Ibarrola, J; Fernandez-Celis, A; Calvier, L; Leroy, C; Cachofeiro, V; Rossignol, P; Lopez-Andres, N. Galectin-3 pharmacological inhibition attenuates early renal damage in spontaneously hypertensive rats. J HYPERTENS. 2018; 36(2) 368-376. FI: 4,209. Cuartil: 1. (Article).*
- *Ibarrola J; Sadaba R; Martinez-Martinez E; Garcia-Pena A; Arrieta V; Alvarez V; Fernandez-Celis A; Gainza A; Cachofeiro V; Santamaria E; Fernandez-Irigoyen J; Jaisser F; Lopez-Andres, N. Aldosterone Impairs Mitochondrial Function in Human Cardiac Fibroblasts via A-Kinase Anchor Protein 12. Scientific Reports. 2018; 8(1) 6801-6801. FI: 4,011. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Marin-Royo, G; Martinez-Martinez, E; Gutierrez, B; Jurado-Lopez, R; Gallardo, I; Montero, O; Bartolome, MV; Roman, JAS; Salaices, M; Nieto, ML; Cachofeiro, V. The impact of obesity in the cardiac lipidome and its consequences in the cardiac damage observed in obese rats. Clinica e Investigacion en Arteriosclerosis. 2018; 30(1) 10-20. (Article).*

2.03 Cardiac celular electrophysiology

Group Director**: Eva Delpón Mosquera**
Organisms involved: **UCM**
Consolidated Group

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

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

Group members

Surname		*Name*	*Role*
CABALLERO	COLLADO	RICARDO	Senior researcher
CÁMARA	CHECA	ANABEL	Postdoctoral
CEBRIÁN	CASTILLO	JORGE	Predoctoral
CRESPO	GARCÍA	TERESA	Predoctoral
DELPON	MOSQUERA	EVA	Senior researcher
GARCIA	UTRILLA	RAQUEL	FPI
NIETO	MARIN	PALOMA	Predoctoral
SACRISTÁN	GONZÁLEZ	ANA SANDRA	Support technician
TAMARGO	MENÉNDEZ	JUAN	Senior researcher
TINAQUERO	FAURA	DAVID	Predoctoral
RUBIO	ALARCÓN	MARCOS	Predoctoral
VAQUERO	LÓPEZ	PALOMA	Data management

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: 21/12/2029

TITLE: **Análisis funcional de nuevas mutaciones asociadas al síndrome de repolarización temprana cardiaca**. AP153622014
DIRECTOR: CABALLERO, RICARDO / DELPÓN, EVA
PROJECT TYPE: Reseach project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 10/2012
END DATE: 04/2018

TITLE: **CantuTreat. Sulphonylureas to treate Canty Syndrom** AC14/00029
DIRECTOR: CABALLERO, RICARDO
PROJECT TYPE: Reseach project.
FUNDING BODY: UNION EUROPEA. Erare Joint Trasnational Call for Proposals 2014.

START DATE: 01/2015
END DATE: 04/2018

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

Clinical Practice Guidelines

Authors	*Title*	*Journal / Reference*
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.	**2018 ESC Guidelines for the management of cardiovascular diseases during pregnancy**	Eur Heart J. 2018 Sep 7;39(34):3165-3241.
Rosano GMC, Tamargo J, Kjeldsen KP, Lainscak M, Agewall S, Anker SD, Ceconi C, Coats AJS, Drexel H, Filippatos G, Kaski JC, Lund L, Niessner A, Ponikowski P, Savarese G, Schmidt TA, Seferovic P, Wassmann S, Walther T, Lewis BS.	**Expert consensus document on the management of hyperkalaemia in patients with cardiovascular disease treated with renin angiotensin aldosterone system inhibitors: coordinated by the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology.**	Eur Heart J Cardiovasc Pharmacother. 2018 Jul 1;4(3):180-188.
Niessner A, Tamargo J, Koller L, Saely CH, Schmidt TA, Savarese G, Wassmann S, Rosano G, Ceconi C, Torp-Pedersen C, Kaski JC, Kjeldsen KP, Agewall S, Walther T, Drexel H, Lewis BS.	Non-insulin antidiabetic pharmacotherapy in patients with established cardiovascular disease: a position paper of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy.	Eur Heart J. 2018 Jun 21;39(24):2274-2281.
Dan GA, Martinez-Rubio A, Agewall S, Boriani G, Borggrefe M, Gaita F, van Gelder I, Gorenek B, Kaski JC, Kjeldsen K, Lip GYH, Merkely B, Okumura K, Piccini JP, Potpara T, Poulsen BK, Saba M, Savelieva I, Tamargo JL, Wolpert C; ESC Scientific Document Group.	**Antiarrhythmic drugs-clinical use and clinical decision making: a consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacology, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS) and International Society of Cardiovascular Pharmacotherapy (ISCP)**	Europace. 2018 May 1;20(5):731-732an.

Authors/Task Force Members, Aboyans V, Ricco JB, Bartelink MEL, Björck M, Brodmann M, Cohnert T, Collet JP, Czerny M, De Carlo M, Debus S, Espinola-Klein C, Kahan T, Kownator S, Mazzolai L, Naylor AR, Roffi M, Röther J, Sprynger M, Tendera M, Tepe G, Venermo M, Vlachopoulos C, Desormais I, Document Reviewers, Widimsky P, Kolh P, Agewall S, Bueno H, Coca A, De Borst GJ, Delgado V, Dick F, Erol C, Ferrini M, Kakkos S, Katus HA, Knuuti J, Lindholt J, Mattle H, Pieniazek P, Piepoli MF, Scheinert D, Sievert H, Simpson I, Sulzenko J, Tamargo J, Tokgozoglu L, Torbicki A, Tsakountakis N, Tuñón J, de Ceniga MV, Windecker S, Zamorano JL.	**Editor's Choice - 2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS).**	Eur J Vasc Endovasc Surg. 2018 Mar;55(3):305-368.

Publications *Total Impact Factor:* ***83.2***

	Nº	IF
Own publications	4	23.6
Joint publications	6	59.6
First decile publications	3	42.7
First quartile publications	10	83.2
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 (incluging those without IF)	**10**	**83.2**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Tamargo, J; Caballero, R; Delpon, E. New Therapeutic Approaches for the Treatment of Hyperkalemia in Patients Treated with Renin-Angiotensin-Aldosterone System Inhibitors. CARDIOVASCULAR DRUGS AND THERAPY. 2018; 32(1) 99-119. FI: 4,181. Cuartil: 1. (Article).*
- *Ponce-Balbuena, D; Guerrero-Serna, G; Valdivia, CR; Caballero, R; Diez-Guerra, FJ; Jimenez-Vazquez, EN; Ramirez, RJ; da Rocha, AM; Herron, TJ; Campbell, KF; Willis, BC; Alvarado, FJ; Zarzoso, M; Kaur, K; Perez-Hernandez, M; Matamoros, M; Valdivia, HH; Delpon, E; Jalife, J. Cardiac Kir2.1 and NaV1.5 Channels Traffic Together to the Sarcolemma to Control Excitability. CIRCULATION RESEARCH. 2018; 122(11) 1501-1516. FI: 15,862. Cuartil: 1. (Article).*
- *Dan, GA; Martinez-Rubio, A; Agewall, S; Boriani, G; Borggrefe, M; Gaita, F; van Gelder, I; Gorenek, B; Kaski, JC; Kjeldsen, K; Lip, GYH; Merkely, B; Okumura, K; Piccini, JP; Potpara, T; Poulsen, BK; Saba, M; Savelieva, I; Tamargo, JL; Wolpert, C; ESC Sci Document Grp. Antiarrhythmic drugs-clinical use and clinical decision making: a consensus document from the European Heart Rhythm Association (EHRA) and European Society of Cardiology (ESC) Working Group on Cardiovascular Pharmacology, endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS) and International Society of Cardiovascular Pharmacotherapy (ISCP). EUROPACE. 2018; 20(5) 731-. FI: 6,1. Cuartil: 1. (Article).*
- *Niessner, A; Tamargo, J; Koller, L; Saely, CH; Schmidt, TA; Savarese, G; Wassmann, S; Rosano, G; Ceconi, C; Torp-Pedersen, C; Kaski, JC; Kjeldsen, KP; Agewall, S; Walther, T; Drexel, H; Lewis, BS. Non-insulin antidiabetic pharmacotherapy in patients with established cardiovascular disease: a position paper of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy. EUROPEAN HEART JOURNAL. 2018; 39(24) 2274-2281. FI: 23,239. Cuartil: 1. (Article).*
- *Rosano, GMC; Tamargo, J; Kjeldsen, KP; Lainscak, M; Agewall, S; Anker, SD; Ceconi, C; Coats, AJS; Drexel, H; Filippatos, G; Kaski, JC; Lund, L; Niessner, A; Ponikowski, P; Savarese, G; Schmidt, TA; Seferovic, P; Wassmann, S; Walther, T; Lewis, BS. Expert consensus document on the management of hyperkalaemia in patients with cardiovascular disease treated with renin angiotensin aldosterone system inhibitors: coordinated by the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology. European Heart Journal-Cardiovascular Pharmacotherapy. 2018; 4(3) 180-188. FI: 6,723. Cuartil: 1. (Article).*
- *Vonbank, A; Drexel, H; Agewall, S; Lewis, BS; Dopheide, JF; Kjeldsen, K; Ceconi, C; Savarese, G; Rosano, G; Wassmann, S; Niessner, A; Schmidt, TA; Saely, CH; Baumgartner, I; Tamargo, J. Reasons for disparity in statin adherence rates between clinical trials and real-world observations: a review. European Heart Journal-Cardiovascular Pharmacotherapy. 2018; 4(4) 230-236. FI: 6,723. Cuartil: 1. (Review).*

- *Tamargo, M; Tamargo, J. New potassium binders reduce the risk of hyperkalaemia in patients treated with renin-angiotensin-aldosterone system inhibitors. European Heart Journal-Cardiovascular Pharmacotherapy. 2018; 4(4) 193-194. FI: 6,723. Cuartil: 1. (Editorial Material).*
- *Aboyans, V; Ricco, JB; Bartelink, MLEL; Bjorck, M; Brodmann, M; Cohnert, T; Collet, JP; Czerny, M; De Carlo, M; Debus, S; Espinola-Klein, C; Kahan, T; Kownator, S; Mazzolai, L; Naylor, AR; Roffi, M; Rother, J; Sprynger, M; Tendera, M; Tepe, G; Venermo, M; Vlachopoulos, C; Desormais, I; Widimsky, P; Kolh, P; Agewall, S; Bueno, H; Coca, A; De Borst, GJ; Delgado, V; Dick, F; Erol, C; Ferrini, M; Kakkos, S; Katus, HA; Knuuti, J; Lindholt, J; Mattle, H; Pieniazek, P; Piepoli, MF; Scheinert, D; Sievert, H; Simpson, I; Sulzenko, J; Tamargo, J; Tokgozoglu, L; Torbicki, A; Tsakountakis, N; Tunon, J; de Ceniga, MV; Windecker, S; Zamorano, JL. Editor's Choice-2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS). EUROPEAN JOURNAL OF VASCULAR AND ENDOVASCULAR SURGERY. 2018; 55(3) 305-368. FI: 3,642. Cuartil: 1. (Article).*
- *Perez-Hernandez, M; Matamoros, M; Alfayate, S; Nieto-Marin, P; Utrilla, RG; Tinaquero, D; de Andres, R; Crespo, T; Ponce-Balbuena, D; Willis, BC; Jimenez-Vazquez, EN; Guerrero-Serna, G; da Rocha, AM; Campbell, K; Herron, TJ; Diez-Guerra, FJ; Tamargo, J; Jalife, J; Caballero, R; Delpon, E. Brugada syndrome trafficking-defective Nav1.5 channels can trap cardiac Kir2.1/2.2 channels. Jci Insight. 2018; 3(18) -. FI: 6,014. Cuartil: 1. (Article).*
- *Subirana, I; Fito, M; Diaz, O; Vila, J; Frances, A; Delpon, E; Sanchis, J; Elosua, R; Munoz-Aguayo, D; Degano, IR; Marrugat, J. Prediction of coronary disease incidence by biomarkers of inflammation, oxidation, and metabolism. Scientific Reports. 2018; 8 -. FI: 4,011. Cuartil: 1. (Article).*

2.05 Cardiology and heart transplantation in infants

Group Director: **Constancio Medrano López**
Organisms involved: **HGUGM**
Emerging group

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.

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.

Group members

Surname		Name	Role
ALVAREZ	GARCÍA-ROVES	REYES	
ÁLVAREZ	MARTIN	TERESA	Predoctoral
BALLESTEROS	TEJERIZO	FERNANDO	Predoctoral
CAMBRA	CONEJERO	ANA	Predoctoral
CANSADO	FUNES	CONSUELO	
CAMINO	LOPEZ	MANUELA	Predoctoral
CARCHENILLA	PULIDO	INMACULADA	Support technician
CENTENO	JIMENEZ	MIRIAN	Predoctoral
COBOS	HINOJAL	SUSANA	Postdoctoral
CUENCA	YUNTA	ALEJANDRA	Predoctoral
EZQUIETA	ZUBICARAY	BEGOÑA	Postdoctoral
GARCÍA	GONZÁLEZ	Mª DOLORES	Predoctoral
GIL	VILLANUEVA	NURIA	Predoctoral
GIL	JAURENA	JUAN MIGUEL	Predoctoral
GORMAZ	IBÁÑEZ	FRANCISCA	Predoctoral
LÓPEZ	BLÁZQUEZ	MARÍA	
MEDRANO	LOPEZ	CONSTANCIO	Postdoctoral
PANADERO	CARLAVILLA	MARIA ESTHER	Predoctoral
PARDO	PARDO	CARLOS ANDRÉS	
PINERO	DIAZ	GLORIA ISABEL	Postdoctoral
PITA	FERNANDEZ	ANA	Predoctoral
RELAÑO	GARCÍA	CRISTINA	Postdoctoral
RODRIGUEZ	OGANDO	ALEJANDRO	Postdoctoral
SOBRINO	BALADRÓN	ADOLFO	PostFSE
VÁZQUEZ	ÁLVAREZ	MARIA CARMEN	
WILKINSON		SAMANTHA	Support technician
ZUNZUNEGUI	MARTINEZ	JOSE LUIS	Predoctoral

Cooperative Research Structures

Type (RETIC, CIBER, others.)	Name of Network	Role
CIBER	CIBERCV (ENFERMEDADES CARDIOVASCULARES)	Associated group

Publications

Total Impact Factor: **16.9**

	Nº	IF
Own publications	4	9.4
Joint publications	4	7.5
First decile publications	0	-

First quartile publications	2	10.3
Second quartile publications	1	1.9
Third quartile publications	2	2.6
Fourth quartile publications	2	2.2
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**8**	**16.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Lopez, MV; de Castro, PC; Villanueva, NG; Romero, AJA; Pascual, SIP. Calidad de vida de ninos cardiopatas que han sufrido un ictus arterial isquemico. ANALES DE PEDIATRIA. 2018; 88(3) 167-169. FI: 1,166. Cuartil: 3. (Article).*
- *Iniguez, ED; Zubicaray, BE. Newborn screening of congenital adrenal hyperplasia. Endocrinologia Diabetes Y Nutricion. 2018; 65(1) 1-4. FI: 0,934. Cuartil: 4. (Editorial Material).*
- *Gil-Jaurena, JM; Gonzalez-Lopez, MT; Pita, A; Perez-Caballero, R; Hervias, M; Blanco, D. Beating-heart aortic arch surgery in neonates and infants. Interactive Cardiovascular and Thoracic Surgery. 2018; 27(4) 586-590. FI: 1,931. Cuartil: 2. (Article).*
- *Miera O; Schmitt KL; Akintuerk H; Boet A; Cesnjevar R; Chila T; Fleck T; Goldwasser R; Guereta LG; Heineking B; Hoerer J; Horke A; Hsia TY; Huebler M; Kansy, A; Karimova, A; Maruszewski, B; Medrano, C; Pawlak, S; Reinhardt, Z; Romlin, B; Sandica, E; Schmidt, F; Schramm, R; Schweiger, M; Sliwka, J; Stiller, B; Thul, J; Amodeo, A. Antithrombotic therapy in pediatric ventricular assist devices: Multicenter survey of the European EXCOR Pediatric Investigator Group. INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS. 2018; 41(7) 385-392. FI: 1,232. Cuartil: 4. (Article).*
- *Ogando, AR; Asensio, IP; de la Blanca, ARS; Tejerizo, FB; Luna, MS; Jaurena, JMG; Lopez, CM; Martinez, JLZ. Surgical Ligation Versus Percutaneous Closure of Patent Ductus Arteriosus in Very Low-Weight Preterm Infants: Which are the Real Benefits of the Percutaneous Approach?. PEDIATR CARDIOL. 2018; 39(2) 398-410. FI: 1,413. Cuartil: 3. (Article).*
- *Alonso-García A; Atienza F; Ávila P; Ugueto C; Centeno M; Álvarez R; Datino T; González-Torrecilla E; Castellanos E; Loughlin G; Medrano C; Arenal Á; Fernández-Avilés F. Pediatric Catheter Ablation: Characteristics and Results of a Series in a Tertiary Referral Hospital. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(10) 794-800. FI: 5,126. Cuartil: 1. (Article).*
- *Solana-Gracia, R; Rueda, F; Betrian, P; Gutierrez-Larraya, F; del Cerro, MJ; Pan, M; Alcibar, J; Coserria, JF; Velasco, JM; Zunzunegui, JL. Pediatrics Spanish Registry of Percutaneous Melody Pulmonary Valve Implantation in Patients Younger Than 18 Years. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(4) 283-290. FI: 5,126. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Santos, PE; Villanueva, NG; Ballesteros, F; Matamala-Morillo, MA; Zunzunegui, JL. A child with acquired Gerbode defect due to infective endocarditis: Successful percutaneous closure with Nit-occlud device (R). PROG PEDIATR CARDIOL. 2018; 49 77-80. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Coserria-Sanchez, F; Iglesias-Lopez, A; Gil-Ortega, MV; Moruno-Tirado, A; Garcia-Angleu, F; Zunzunegui-Martinez, JL. Percutaneous Pulmonary Melody Valve Implantation Through the Transhepatic Route in an 8-Year-old Patient. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(10) 861-862. FI: 5,126. Cuartil: 1. (Letter).*
- *Rodríguez Ogando A; Ballesteros Tejerizo F; Blanco Bravo D; Sánchez Luna M; Zunzunegui Martínez JL. Transcatheter Occlusion of Patent Ductus Arteriosus in Preterm Infants Weighing Less Than 2 kg With the Amplatzer Duct Occluder II Additional Sizes Device. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(10) 865-866. FI: 5,126. Cuartil: 1. (Letter).*
- *Ogando, AR; Tejerizo, FB; Cebada, FS; Lopez, CM; Jaurena, JMG; Martinez, JLZ. Experience With the Absorb Bioresorbable Vascular Scaffold in Various Scenarios of Congenital Heart Disease. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(11) 988-990. FI: 5,126. Cuartil: 1. (Letter).*
- *Gil-Jaurena JM; González-López MT; Pita-Fernández A; Pérez-Caballero R; Prieto R; Medrano C. The Cone Technique for Ebstein Repair. First Cases. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(6) 490-491. FI: 5,126. Cuartil: 1. (Letter).*

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	Role
ALVAREZ-SALA	WALTHER	LUIS ANTONIO	Postdoctoral
BELLO	MARTINEZ	ELENA	Postdoctoral
CABRERA	AGUILAR	FRANCISCO JAVIER	
CONTHE	GUTIERREZ	PEDRO	Postdoctoral
DE MIGUEL	YANES	JOSE Mª	Others
DEL TORO	CERVERA	JORGE	Predoctoral
DEMELO	RODRÍGUEZ	PABLO	Predoctoral
GALEANO	VALLE	FRANCISCO	
MILLAN	NUÑEZ-CORTES	JESUS	Senior research
PÉREZ	DE OTEYZA	CARLOS	
PÉREZ	RUS	GLORIA	Predoctoral
RECARTE	GARCIA-ANDRADE	CARLOS	Predoctoral
TORRES	DO REGO	ANA	
VALDES	GROSS	INES	

Publications

Total Impact Factor: **53.1**

	Nº	IF
Own publications	8	15.1
Joint publications	17	38.1
First decile publications	0	-
First quartile publications	7	28.5
Second quartile publications	5	15.3
Third quartile publications	6	7.9
Fourth quartile publications	1	1.5
Nonindexed publications / No IF	6	-
Total publications (incluging those without IF)	**25**	**53.1**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *de Miguel-Yanes, JM; Jimenez-Garcia, R; Hernandez-Barrera, V; Mendez-Bailon, M; de Miguel-Diez, J; Munoz-Rivas, N; Ezpeleta, D; Lopez-de-Andres, A. Hospital Admissions in People With Alzheimer's Disease or Senile Dementia According to Type 2 Diabetes Status: An Observational 10-Year Study. American Journal of Alzheimers Disease and Other Dementias. 2018; 33(1) 12-19. FI: 1,464. Cuartil: 4. (Article).*
- *Penaloza-Martinez, E; Demelo-Rodriguez, P; Proietti, M; Fernandez-Llamazares, GS; Llamazares-Mendo, C; Walther, LAS; Marra, AM; del Toro-Cervera, J. Update on extended treatment for venous thromboembolism. ANNALS OF MEDICINE. 2018; 50(8) 666-674. FI: 3,049. Cuartil: 1. (Review).*

- *Marco-Benedi, V; Lamiquiz-Moneo, I; Alvarez-Sala, LA; Civeira, F. Disappearance of recurrent pancreatitis after splenectomy in familial chylomicronemia syndrome. ATHEROSCLEROSIS. 2018; 275 342-345. FI: 4,255. Cuartil: 1. (Article).*
- *Moulin, P; Dufour, R; Averna, M; Arca, M; Cefalu, AB; Noto, D; D'Erasmo, L; Di Costanzo, A; Marcais, C; Walther, LAAS; Banach, M; Boren, J; Cramb, R; Gouni-Berthold, I; Hughes, E; Johnson, C; Pinto, X; Reiner, Z; van Lennep, JR; Soran, H; Stefanutti, C; Stroes, E; Bruckert, E. Identification and diagnosis of patients with familial chylomicronaemia syndrome (FCS): Expert panel recommendations and proposal of an "FCS score". ATHEROSCLEROSIS. 2018; 275 265-272. FI: 4,255. Cuartil: 1. (Article).*
- *Salinero-Fort, MA; Gomez-Campelo, P; San Andres-Rebollo, FJ; Cardenas-Valladolid, J; Abanades-Herranz, JC; de Santa Pau, EC; Chico-Moraleja, RM; Beamud-Victoria, D; de Miguel-Yanes, JM; Jimenez-Garcia, R; Lopez-de-Andres, A; Ramallo-Farina, Y; De Burgos-Lunar, C; MADIABETES Res Grp. Prevalence of depression in patients with type 2 diabetes mellitus in Spain (the DIADEMA Study) : results from the MADIABETES cohort. BMJ Open. 2018; 8(9) -. FI: 2,376. Cuartil: 2. (Article).*
- *Lopez-de-Andres, A; Perez-Farinos, N; de Miguel-Diez, J; 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 aortic valve replacement in Spain (2001-2015). CARDIOVASCULAR DIABETOLOGY. 2018; 17(1) 135-135. FI: 5,948. Cuartil: 1. (Article).*
- *Pedro-Botet, J; Ascaso, JF; Barrios, V; De la Sierra, A; Escalada, J; Millan, J; Mostaza, JM; Perez-Martinez, P; Pinto, X; Salas-Salvado, J; Valdivielso, P. COSMIC project: consensus on the objectives of the metabolic syndrome in clinic. DIABETES METABOLIC SYNDROME AND OBESITY-TARGETS AND THERAPY. 2018; 11 683-697. FI: 3,319. Cuartil: 2. (Article).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Esteban-Vasallo, MD; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Clostridium difficile infection in hospitalized patients with COPD in Spain (2001-2015). EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 57 76-82. FI: 3,66. Cuartil: 1. (Article).*
- *Galeano-Valle F; Higuera-Cabañes L. Mucocutaneous hyperpigmentation. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 54 1-2. FI: 3,66. Cuartil: 1. (Article).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Postoperative pneumonia among patients with and without COPD in Spain from 2001 to 2015. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 53 66-72. FI: 3,66. Cuartil: 1. (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. Influence of COPD on outcomes of patients hospitalized with heart failure: Analysis of the Spanish National Hospital Discharge Database (2001-2015). INTERNATIONAL JOURNAL OF CARDIOLOGY. 2018; 269 213-219. FI: 3,471. Cuartil: 2. (Article).*
- *Jimenez, D; Bikdeli, B; Barrios, D; Quezada, A; del Toro, J; Vidal, G; Mahe, I; Quereg, I; Loring, M; Yusen, RD; Monreal, M; RIETE Investigators. Epidemiology, patterns of care and mortality for patients with hemodynamically unstable acute symptomatic pulmonary embolism. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2018; 269 327-333. FI: 3,471. Cuartil: 2. (Article).*
- *Lopez-de-Andres, A; Esteban-Vasallo, MD; de Miguel-Diez, J; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Incidence and in-hospital outcomes of Clostridium difficile infection among type 2 diabetes patients in Spain. INTERNATIONAL JOURNAL OF CLINICAL PRACTICE. 2018; 72(10) -. FI: 2,613. Cuartil: 2. (Article).*
- *Galeano-Valle F; Demelo-Rodriguez P; Garcia-Fernandez-Bravo I; Rodriguez-Abella H; Irabien-Ortiz A; Fortuny-Ribas R; Del Toro-Cervera J. Early surgical treatment in patients with pulmonary embolism and thrombus-in-transit. Journal of Thoracic Disease. 2018; 10(4) 2338-2345. FI: 2,027. Cuartil: 3. (Article).*
- *de Miguel-Yanes, JM; Ezpeleta, D. Precision Medicine: precisely now. MEDICINA CLINICA. 2018; 150(6) 240-243. FI: 1,277. Cuartil: 3. (Article).*
- *Garcia-Fernandez-Bravo, I; Demelo-Rodriguez, P; de Ona, AA; Cervera, JD. Black spot or <<tache noire>> in mediterranean spotted fever. MEDICINA CLINICA. 2018; 151(3) 130-130. FI: 1,277. Cuartil: 3. (Article).*
- *Demelo-Rodriguez, P; Ordieres-Ortega, L; del Toro-Cervera, J. Usefulness of abdominal ultrasound and biomarkers in screening for occult cancer in patients with idiopathic venous thromboembolism. MEDICINA CLINICA. 2018; 151(10) 418-419. FI: 1,277. Cuartil: 3. (Article).*
- *Saucedo, MAC; Garcia-Gil, D; Romero, FMB; do Rego, AT; Romero, LB; Sala, ER; Guerra, GA; Martinez, JV; Rojo, JMC; Macho, JT; de Casasola-Sanchez, GG; Soc Espanola Med Interna; Grp Trabajo Ecografia Clinica. Prevalence of abdominal aortic aneurysm in patients with high cardiovascular risk. REVISTA CLINICA ESPANOLA. 2018; 218(9) 461-467. FI: 1,043. Cuartil: 3. (Article).*
- *Conthe, P. The clinician and their patient at the end of life. REVISTA CLINICA ESPANOLA. 2018; 218(1) 15-16. FI: 1,043. Cuartil: 3. (Editorial Material).*

Publications of the main WOS collection in journals without impact factor

- *Ortega, LO; Demelo-Rodriguez, P; Fernandez-Bravo, IG; del Toro-Cervera, J. Methacrylate pulmonary embolism after percutaneous vertebroplasty. Blood Research. 2018; 53(3) 186-186. (Article).*

- *Brea A; Millan J; Ascaso JF; Blasco M; Diaz A; Hernandez-Mijares A; Mantilla T; Pedro-Botet JC; Pinto X. Fibrates in primary prevention of cardiovascular disease. Comments on the results of a systematic review of the Cochrane Collaboration. Clinica e Investigacion en Arteriosclerosis. 2018; 30(4) 188-192. (Review).*
- *Parra-Virto, A; do Rego, AT; Demelo-Rodriguez, P; Nunez-Cortes, JM; Alvarez-Sala, LA. Usefulness of compounds with monacolin K in a case of statins intolerance. Clinica e Investigacion en Arteriosclerosis. 2018; 30(6) 268-270. (Article).*
- *Moulin, P; Dufour, R; Averna, M; Arca, M; Cefalu, AB; Noto, D; D'Erasmo, L; Di Costanzo, A; Marcais, C; Walther, LAAS; Banach, M; Boren, J; Cramb, R; Gouni-Berthold, I; Hughes, E; Johnson, C; Pinto, X; Reiner, Z; van Lennep, JR; Soran, H; Stefanutti, C; Stroes, E; Bruckert, E. Characterisation of patients with familial chylomicronaemia syndrome (FCS) and multifactorial chylomicronaemia syndrome (MCS): Establishment of an FCS clinical diagnostic score. Data in Brief. 2018; 21 1334-1336. (Article).*
- *Galeano-Valle, F; Demelo-Rodriguez, P; Alvarez-Sala-Walther, L; Pinilla-Llorente, B; Echenagusia-Boyra, MJ; Rodriguez-Abella, H; Del-Toro-Cervera, J. Intracardiac thrombosis in Behcet's Disease successfully treated with immunosuppressive agents: A case of vascular pathergy phenomenon. INTRACTABLE & RARE DISEASES RESEARCH. 2018; 7(1) 54-57. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R; Lopez-de-Andres, A. Comment on Burrows et al. Declining Rates of Hospitalization for Selected Cardiovascular Disease Conditions Among Adults Aged >/=35 Years With Diagnosed Diabetes, U.S., 1998-2014. Diabetes Care 2018;41:293-302. DIABETES CARE. 2018; 41(4) 58-58. FI: 15,27. Cuartil: 1. (Letter).*
- *Salinero-Fort, MA; San-Andres-Rebollo, FJ; Jimenez-Garcia, R; de Miguel-Yanes, JM. Body mass index and all-cause mortality among type 2 diabetes mellitus patients. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 47 28-28. FI: 3,66. Cuartil: 1. (Letter).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Chronic obstructive pulmonary disease and community acquired pneumonia: Additional studies are required. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 50 39-40. FI: 3,66. Cuartil: 1. (Letter).*
- *de Miguel-Yanes, JM; Garcia-Cano, J; Jimenez-Garcia, R; Lopez-de-Andres, A. Post-ERCP pancreatitis in patients with type 2 diabetes mellitus. GASTROINTEST ENDOSC. 2018; 87(1) 321-321. FI: 7,229. Cuartil: 1. (Letter).*
- *Galeano Valle F; Muñoz Roldán I; Donis Sevillano E. Azathioprine-induced hepatic sinusoidal obstruction syndrome. MEDICINA CLINICA. 2018; 151(3) 127-128. FI: 1,277. Cuartil: 3. (Letter).*
- *Galeano-Valle F; Solan Blanco, Laura; Álvarez-Sala Walther, Luis Antonio. Extramedullary ureteral plasmocytoma causing postrenal acute renal failure. MEDICINA CLINICA. 2018; 151(5) 211-212. FI: 1,277. Cuartil: 3. (Letter).*

Other publications:

- *Garcia-Fernandez-Bravo, I; Demelo-Rodriguez, P; Ordieres-Ortega, L; Alvarez-Luque, A; Del Toro-Cervera, J. Cancer associated phlegmasia cerulea dolens successfully treated with apixaban. Blood Research. 2018; 53(1) 90-92. (Letter).*

2.07 Acute cerebral ischemia. Stroke.

Group Director**: Antonio Gil Núñez**
Organisms involved: **HGUGM**
Emerging group

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

Group members

Surname		Name	Role
DÍAZ	OTERO	FERNANDO	Predoctoral
FERNÁNDEZ	BULLIDO	YOLANDA	Predoctoral
GARCIA	PASTOR	ANDRES	Predoctoral
GIL	NUÑEZ	ANTONIO	Postdoctoral
IGLESIAS	MOHEDANO	ANA MARIA	Predoctoral
VÁZQUEZ	ALEN	PILAR	Predoctoral
VALES	MONTERO	MARTA	

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: **6.0**

	Nº	IF
Own publications	0	0.0
Joint publications	2	6.0
First decile publications	1	6.0
First quartile publications	1	6.0
Second quartile publications	0	0.0
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**2**	**6.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Ntaios, G; Lip, GYH; Lambrou, D; Michel, P; Perlepe, K; Eskandari, A; Nannoni, S; Sirimarco, G; Strambo, D; Vemmos, K; Koroboki, E; Manios, E; Vemmou, A; Rodriguez-Campello, A; Cuadrado-Godia, E; Roquer, J; Arnao, V; Caso, V; Paciaroni, M; Diez-Tejedor, E; Fuentes, B; Pardo, JR; Arauz, A; Ameriso, SF; Pertierra, L; Gomez-Schneider, M; Hawkes, MA; Bandini, F; Cano, BC; Mohedano, AMI; Pastor, AG; Gil-Nunez, A; Putaala, J; Tatlisumak, T; Barboza, MA; Karagkiozi, E; Makaritsis, K; Papavasileiou, V. *Renal Function and Risk Stratification of Patients With Embolic Stroke of Undetermined Source.* STROKE. 2018; 49(12) 2904-2909. FI: 6,046. Cuartil: 1. (Article).

Publications of the main WOS collection in journals without impact factor

- Zapata-Wainberg, G; Quintas, S; Rico, AXC; Vallejo, JM; Cardona, P; Rodrigo, MC; Fernandez, LB; Pastor, AG; Egido, J; Macineiras, J; Serena, J; Guerrero, MDF; Moniche, F; Vivancos, J; TAC 2 Study Investigators. *Epidemiology of Intracranial Hemorrhage Associated with Oral Anticoagulants in Spain: Trends in Anticoagulation Complications Registry - The TAC 2 Study*. Interventional Neurology. 2018; 7(5) 284-295. (Article).

Other publications

- *Rivaroxaban or aspirin for patent foramen ovale and embolic stroke of undetermined source: a prespecified subgroup analysis from the NAVIGATE ESUS trial. Kasner SE, Swaminathan B, Lavados P, Sharma M, Muir K, Veltkamp R, Ameriso SF, Endres M, Lutsep H, Messé SR, Spence JD, Nedeltechev K, Perera K, Santo G, Olavarria V, Lindgren A, Bangdiwala S, Shoamanesh A, Berkowitz SD, Mundl H,*

Connolly SJ, Hart RG; NAVIGATE ESUS Investigators. Lancet Neurol. 2018 Dec;17(12):1053-1060. doi: 10.1016/S1474-4422(18)30319-3. Epub 2018 Sep 28. Erratum in: Lancet Neurol. 2018 Oct 23;:PMID:30274772

- *[Recommendations on the treatment of hypertension in the secondary prevention of ischemic stroke].Sierra C, Castilla-Guerra L, Masjuan J, Gil-Nuñez A, Álvarez-Sabín J, Egocheaga MI, Armario P; en representación del Grupo de Estudio sobre Hipertensión y Cerebro (GEHYC) de la Sociedad Española de Hipertensión Arterial (SEHLELHA). Hipertens Riesgo Vasc. 2018 Oct - Dec;35(4):e11-e18. doi: 10.1016/j.hipert.2018.05.003. Epub 2018 Jul 2. Spanish.PMID:30042028*
- *Factors associated with poor anticoagulation control with vitaminK antagonists among outpatients attended in Internal Medicine and Neurology. The ALADIN study.Contreras Muruaga MM, Reig G, Vivancos J, González A, Cardona P, Ramírez-Moreno JM, Martí-Fábregas J, Suárez Fernández C; en nombre de los investigadores del estudio ALADIN; Listado de investigadores del estudio ALADIN.Rev Clin Esp. 2018 Oct;218(7):327-335. doi: 10.1016/j.rce.2018.04.020. Epub 2018 Jul 6. English, Spanish.PMID:29983190*
- *A new protocol reduces median door-to-needle time to the benchmark of 30 minutes in acute stroke treatment.Iglesias Mohedano AM, García Pastor A, Díaz Otero F, Vázquez Alen P, Martín Gómez MA, Simón Campo P, Salgado Cámara P, Esteban de Antonio E, Lázaro García E, Funes Molina C, Del Valle Diéguez M, Saura Lorente J, Fernández Bullido Y, Gil Nuñez A.Neurologia. 2018 Jun 14. pii: S0213-4853(18)30119-1. doi: 10.1016/j.nrl.2018.04.001. [Epub ahead of print] English, Spanish.PMID: 29910083*
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AREA 3

Coordinador de Área: **Celso Arango López**

NEUROSCIENCE AND MENTAL HEALTH

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

Research lines

Axis 1: Consolidation of research networks and alliances in neuroscience

L1: Consolidation of a network for the pathophysiological continuum between autism spectrum disorders and schizophrenia spectrum disorders. Leader: Mara Parellada

L 2: More efficient integration of basic research carried out at UCM and clinical research carried out in HGUGM by means of collaborative projects and animal models. Leaders: Celso Arango, Carmen Moreno,David Fraguas.

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, David Fraguas.

Axis 2: Consolidation of research lines in neuroscience

L 1: Consolidation of a line of functional neuroimaging in the children of patients with schizophrenia and bipolar disorder. Leader: Dolores Moreno.

L 2: Extension of additional sources of funding; autonomous communities, national, international. Leaders: Celso Arango, Covadonga Martínez.

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: CelsoArango.

L 5: Continuation and promotion of transnational and collaborative research in schizophrenia and other psychoses. Leaders: Celso Arango, David Fraguas.

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

Description of the research group

The group "Psychological and neurobiological bases of mental disorders. Neurodevelopmental disorders", led by Dr. Celso Arango, has been engaged in 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 schizophrenia and early onset psychosis. The group's scientific output is reflected in the number of externally evaluated projects funded by competitive public funds and private funds (Instituto de Salud Carlos III, Ministerio de Educación, NARSAD, Fundación Mutua Madrileña, Fundación Alicia Koplowitz, industry-sponsored clinical trials), incorporation of contracted researchers and research trainees, publications, and collaborations, as well as in the introduction of several research lines with other hospital departments (biochemistry, medical imaging, experimental medicine, cardiology, genetics, and nutrition).

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 Adolescent and Child Psychiatry Unit "Nivel +500 puntos Modelo EFQM de Excelencia". Various members of the group participate or have participated in 9 projects funded by the European Union Seventh Framework Programme, a project funded "Network of European Funding for Neuroscience Research (ERANET-NEURON)", 2 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 (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 taken shape in clinical practice through the development and publication of clinical practice guidelines for the management of children and adolescents with conditions such as psychosis, bipolar disorder, and autism spectrum disorder.

Group members

	Surname	Name	Role
ABREGU	CRESPO	RENZO	
ALLOZA	ROMERO	CLARA	
ANDREU	BERNABEU	ÁLVARO	
ARANGO	LOPEZ	CELSO	Senior researcher
ARANGO	VICTORIA	MANUEL JOVINO	Data management
ARIAS	SAMPERIZ	BARBARA	Postdoctoral
AYORA	RODRÍGUEZ	MIRIAM	Predoctoral
BALTASAR	TELLO	ITZIAR	Predoctoral
BARCENILLA	GONZALEZ	MIGUEL ANGEL	CIBER
BOADA	MUÑOZ	LETICIA	Predoctoral
BRAVO	SANCHEZ	MARTA	Predoctoral
BURDEUS	OLAVARRIETA	MÓNICA	Predoctoral
CALVO	CALVO	ANA BELEN	Postdoctoral
CARBALLO	BELLOSO	JUAN JOSÉ	Postdoctoral
CEREZO	ROMAN	LOURDES	Predoctoral
CONEJO	GALINDO	JAVIER	Predoctoral
CORRAL	ZARAPUZ	AZUCENA	Support technician
CUADRADO	CALLEJA	PEDRO	Postdoctoral
DE MATTEIS		MARIO	Predoctoral
DE PORTUGAL	FERNANDEZ DEL RIVERO	ENRIQUE	Predoctoral
DELGADO	LACOSTA	CARLOS	Predoctoral
DORADO	MARTINEZ	MARIA LUISA	Predoctoral
DURÁN	CUTILLAS	MANUEL	Río Hortega
ESGUEVILLAS	CUESTA	ALVARO	Predoctoral
ESPLIEGO	FELIPE	ANA	Predoctoral
FERRE	NAVARRETE	FRANCISCO	
FRAGUAS	HERRAEZ	DAVID	Predoctoral
GARCIA	ALCON	ALICIA	Predoctoral
GARCIA	BERNARDO	ENRIQUE	Predoctoral
GARCIA	CABEZA	IGNACIO	
GARCIA	MARTINEZ	ELISA	Predoctoral
GARCIA	TRAVERSO	MARIA	
GARIBI	PEREZ	AINHOA	Predoctoral
GIL	MOLINA	SANTIAGO	Predoctoral
GONZÁLEZ	PEÑAS	JAVIER	Predoctoral
GONZALEZ	VIOQUE	EMILIANO	Postdoctoral
HERNANDEZ	JUSDADO	PATRICIA	Predoctoral
HERNANDEZ	ÁLVAREZ	FABIÁN	CIBER
HUETE	DIEGO	MIGUEL ANGEL	Data management
JANSSEN	JEUCKEN	JOOST	i3- Ramón y Cajal
LAORDEN	NIETO	ALEJANDRA TERESA	Predoctoral
LLORENTE	SARABIA	CLOE	Predoctoral
LOPEZ	MONTOYA	GONZALO	Postdoctoral
LUQUE	BUZO	ELISA	Postdoctoral

	Surname	Name	Role
MAGAZ	MUÑOZ	ANA MARÍA	
MARTINEZ	DIAZ-CANEJA	MARIA COVADONGA	Predoctoral
MARTÍNEZ	RODRIGUEZ	KENIA	Juan de la Cierva
MAYORAL	ARAGON	MARIA	Postdoctoral
MERCHAN	NARANJO	JESSICA	CIBER
MERCHAN	RIBERA	SUSANA	Data management
MOLINA	GARCÍA	MARÍA DOLORES	Predoctoral
MORÁN	MOYA	PURIIFCACIÓN	CIBER
MORENO	PARDILLO	Mª DOLORES	Postdoctoral
MORENO	RUIZ	CARMEN	Postdoctoral
MUNILLA	SUÁREZ	ESTRELLA	Predoctoral
OLMEDA	GARCÍA	MARÍA SOLEDAD	
PARELLADA	REDONDO	Mª JOSE	Intensified
PARRO	TORRES	CARLOS	
PENZOL	ALONSO	MARIA JOSE	Predoctoral
PÉREZ	SANTONJA	JAVIER	Others
PICOUTO	GONZÁLEZ	MARÍA DOLORES	
PINA	CAMACHO	LAURA	
RAMOS	RODRÍGUEZ	MARÍA JOSÉ	Predoctoral
RAPADO	CASTRO	MARTA	Postdoctoral
RECIO	LAMPARERO	SANDRA	CIBER
RIVAS	CAMBRONERO	EVA	Predoctoral
RODRIGUEZ	LATORRE	PAMELA	CIBER
RODRIGUEZ	SOLANO	JOSE JUAN	Postdoctoral
RODRÍGUEZ	QUIROGA	ALBERTO	CIBER
RODRÍGUEZ	TOSCANO	ELISA	PIFS
ROLDAN	DIAZ	LAURA	Predoctoral
ROMO	VILLA	JOSÉ	Predoctoral
RUBIO	FERNÁNDEZ	PATRICIA	Predoctoral
SAINZ	CORTON	ENRIQUE	Postdoctoral
SAN JOSÉ	CÁCERES	ANTONIA	
SANCHEZ	GUTIERREZ	TERESA	Postdoctoral
SÁNCHEZ	DÍAZ	EMILIO IGNACIO	Predoctoral
SERRANO	DROZDOWSKYJ	ELENA	Postdoctoral
SIPOS	GÁLVEZ	LOURDES	
STELLA		CAROL	
SZERMAN	BOLOTNER	NÉSTOR	
TAPIA	CASELLAS	CECILIA	CIBER
URBIOLA	MERINA	ELENA	
VERDURA	VIZCAÍNO	ERNESTO	Predoctoral
VICENTE	MORENO	RAQUEL PILAR	Predoctoral
VICENTE	SANCHEZ	ISABEL	Predoctoral
VIDAL	DE LA FUENTE	JORGE	Predoctoral

Research Projects – Competitive Calls

TITLE: **Aggression Subtyping for Improved Insight and Treatment Innovation in Psychiatric Disorders.**
7PM13/AGGRESSOTYPE
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: EUROPEAN UNION
PROJECT TYPE: European research project
START DATE: 01/11/2013
END DATE: 01/11/2018

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

TITLE: **Neuroimaging platform for characterisation of metabolic co-morbidities in psychotic disorders** 7PM13/METSY
DIRECTOR: MORENO RUIZ, CARMEN
FUNDING BODY: EUROPEAN UNION
PROJECT TYPE: European research project
START DATE: 01/09/2013
END DATE: 01/05/20108

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
PROJECT TYPE: Integrated research project of excellence
START DATE: 01/01/2017
END DATE: 31/12/2019

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
PROJECT TYPE: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, Mª DOLORES
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Estudio multicentrico 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
PROJECT TYPE:Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

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 AND BEHAVIOUR RESEARCH FOUNDATION
PROJECT TYPE:Research project
START DATE: 01/03/2016
END DATE: 28/02/2018

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
PROJECT TYPE:Research project
START DATE: 01/11/2017
END DATE: 31/10/2019

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

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

TITLE: **POSTDOCTORAL CM Contract** PEJD-2016/BMD-3061
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE:Human resources
START DATE: 01/01/2017
END DATE: 05/02/2018

TITLE: **Young employement contract** Laboratory Technician PEJ15/BIO/TL-0409
DIRECTOR: ARANGO LÓPEZ, CELSO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE:Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Ayudante investigación.** PEJ15/BIO/AI-0339
DIRECTOR: MONTEAGUADO ROMERO, LAURA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE:Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract:** Ayudante investigación. PEJ15/BIO/AI-0328
DIRECTOR: GEREZ DE ANDRES, DIEGO
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE:Human resources
START DATE: 01/03/2016
END DATE: 01/03/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	Name of Network	Role
CIBER	CIBERSAM (CIBER de Salud Mental)	Coordinating group

Publications

Total Impact Factor: **235.6**

	Nº	IF
Own publications	11	67.1
Joint publications	34	168.5
First decile publications	14	133.1
First quartile publications	31	204.9
Second quartile publications	10	26.5
Third quartile publications	2	3.5
Fourth quartile publications	1	0.7
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**45**	**235.6**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Amoretti, S; Cabrera, B; Torrent, C; Mezquida, G; Lobo, A; Gonzalez-Pinto, A; Parellada, M; Corripio, I; Vieta, E; de la Serna, E; Butjosa, A; Contreras, F; Sarro, S; Penades, R; Sanchez-Torres, AM; Cuesta, M; Bernardo, M; PEPsGrp. Cognitive reserve as an outcome predictor: first-episode affective versus non-affective psychosis. ACTA PSYCHIATRICA SCANDINAVICA. 2018; 138(5) 441-455. FI: 4,694. Cuartil: 1. (Article).*
- *Belbasis, L; Kohler, CA; Stefanis, N; Stubbs, B; van Os, J; Vieta, E; Seeman, MV; Arango, C; Carvalho, AF; Evangelou, E. Risk factors and peripheral biomarkers for schizophrenia spectrum disorders: an umbrella review of meta-analyses. ACTA PSYCHIATRICA SCANDINAVICA. 2018; 137(2) 88-97. FI: 4,694. Cuartil: 1. (Article).*
- *Sanchez-Moreno J; Bonnin CM; González-Pinto A; Amann BL; Solé B; Balanzá-Martinez V; Arango C; Jiménez E; Tabarés-Seisdedos R; Garcia-Portilla MP; Ibáñez A; Crespo JM; Ayuso-Mateos JL; Martinez-Aran A; Torrent C; Vieta E; CIBERSAM Functional Remediation Group. Factors associated with poor functional outcome in bipolar disorder: sociodemographic, clinical, and neurocognitive variables. ACTA PSYCHIATRICA SCANDINAVICA. 2018; 138(2) 145-154. FI: 4,694. Cuartil: 1. (Article).*
- *Bobes, J; Pascual, F; Sabater, E; Colom, J; Ferre, F; Szerman, N; Casado, MA; Grp Trabajo MCDA-OUD. Multicriteria decision analysis in opioid substitution treatment programs in opioid use disorders. Adicciones. 2018; 30(3) 167-169. FI: 3,167. Cuartil: 1. (Editorial Material).*
- *Tirado-Munoz, J; Farre, A; Mestre-Pinto, J; Szerman, N; Torrens, M. Dual diagnosis in Depression: treatment recommendations. Adicciones. 2018; 30(1) 66-76. FI: 3,167. Cuartil: 1. (Review).*
- *Fiksinski, AM; Schneider, M; Murphy, CM; Armando, M; Vicari, S; Canyelles, JM; Gothelf, D; Eliez, S; Breetvelt, EJ; Arango, C; Vorstman, JAS. Understanding the pediatric psychiatric phenotype of 22q11.2 deletion syndrome. AMERICAN JOURNAL OF MEDICAL GENETICS PART A. 2018; 176(10) 2182-2191. FI: 2,197. Cuartil: 3. (Article).*
- *van Rooij, D; Anagnostou, E; Arango, C; Auzias, G; Behrmann, M; Busatto, GF; Calderoni, S; Daly, E; Deruelle, C; Di Martino, A; Dinstein, I; Duran, FLS; Durston, S; Ecker, C; Fair, D; Fedor, J; Fitzgerald, J; Freitag, CM; Gallagher, L; Gori, I; Haar, S; Hoekstra, L; Jahanshad, N; Jalbrzikowski, M; Janssen, J; Lerch, J; Luna, B; Martinho, MM; McGrath, J; Muratori, F; Murphy, CM; Murphy, DGM; O'Hearn, K; Oranje, B; Parellada, M; Retico, A; Rosa, P; Rubia, K; Shook, D; Taylor, M; Thompson, PM; Tosetti, M; Wallace, GL; Zhou, FF; Buitelaar, JK. Cortical and Subcortical Brain Morphometry Differences Between Patients With Autism Spectrum Disorder and Healthy Individuals Across the Lifespan: Results From the ENIGMA ASD Working Group. AMERICAN JOURNAL OF PSYCHIATRY. 2018; 175(4) 359-369. FI: 13,655. Cuartil: 1. (Article).*
- *Munoz-Negro, JE; Ibanez-Casas, I; de Portugal, E; Lozano-Gutierrez, V; Martinez-Leal, R; Cervilla, JA. A Psychopathological Comparison between Delusional Disorder and Schizophrenia. CAN J PSYCHIAT. 2018; 63(1) 12-19. FI: 4,08. Cuartil: 1. (Article).*

- *Fernandez A; Al-Timemy AH; Ferre F; Rubio G; Escudero J. Complexity analysis of spontaneous brain activity in mood disorders: A magnetoencephalography study of bipolar disorder and major depression. COMPREHENSIVE PSYCHIATRY. 2018; 84 112-117. FI: 2,586. Cuartil: 2. (Article).*
- *Baltasar-Tello, I; Miguelez-Fernandez, C; Penuelas-Calvo, I; Carballo, JJ. Ecological Momentary Assessment and Mood Disorders in Children and Adolescents: a Systematic Review. CURRENT PSYCHIATRY REPORTS. 2018; 20(8) 66-66. FI: 3,816. Cuartil: 1. (Article).*
- *Csillag C; Nordentoft M; Mizuno M; McDaid D; Arango C; Smith J; Lora A; Verma S; Di Fiandra T; Jones PB. Early intervention in psychosis: From clinical intervention to health system implementation. EARLY INTERVENTION IN PSYCHIATRY. 2018; 12(4) 757-764. FI: 3,323. Cuartil: 1. (Article).*
- *Sanchez-Torres, AM; Moreno-Izco, L; Lorente-Omenaca, R; Cabrera, B; Lobo, A; Gonzalez-Pinto, AM; Merchan-Naranjo, J; Corripio, I; Vieta, E; de la Serna, E; Butjosa, A; Contreras, F; Sarro, S; Mezquida, G; Ribeiro, M; Bernardo, M; Cuesta, MJ; PEPs Grp. Individual trajectories of cognitive performance in first episode psychosis: a 2-year follow-up study. EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE. 2018; 268(7) 699-711. FI: 3,192. Cuartil: 2. (Article).*
- *Arango, C. Science and fashion: inflammation and oxidative stress in psychiatry. EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE. 2018; 268(2) 105-106. FI: 3,192. Cuartil: 2. (Editorial Material).*
- *Moreno, C. Towards understanding and acting on risk factors for developmental psychopathology. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2018; 27(1) 1-3. FI: 3,74. Cuartil: 1. (Editorial Material).*
- *Castro-Fornieles, J; Bargallo, N; Calvo, A; Arango, C; Baeza, I; Gonzalez-Pinto, A; Parellada, M; Graell, M; Moreno, C; Otero, S; Janssen, J; Rapado-Castro, M; de la Serna, E. Gray matter changes and cognitive predictors of 2-year follow-up abnormalities in early-onset first-episode psychosis. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2018; 27(1) 113-126. FI: 3,74. Cuartil: 1. (Article).*
- *Diaz-Caneja, CM; Moron-Nozaleda, MG; Vicente-Moreno, RP; Rodriguez-Toscano, E; Pina-Camacho, L; de la Serna, E; Sugranyes, G; Baeza, I; Romero, S; Sanchez-Gistau, V; Castro-Fornieles, J; Moreno, C; Moreno, D. Temperament in child and adolescent offspring of patients with schizophrenia and bipolar disorder. EUROPEAN CHILD & ADOLESCENT PSYCHIATRY. 2018; 27(11) 1459-1471. FI: 3,74. Cuartil: 1. (Article).*
- *Marrodan, IA; Perez, BSB; Acosta, MN; Vizcaino, EJV; Alvarez, MBC; Faci, TV. Limits on the use of the MMSE for assessment of capacity to consent for treatment. EUROPEAN JOURNAL OF PSYCHIATRY. 2018; 32(3) 153-157. FI: 0,702. Cuartil: 4. (Article).*
- *Vieta, E; Arango, C; Rush, AJ. The need for paediatric registries to assess long-term brain effects of psychotropic medications: The case of bipolar disorder. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2018; 28(11) 1181-1184. FI: 4,468. Cuartil: 1. (Editorial Material).*
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3.03B Neurological diseases

Group Director: **Francisco Grandas Pérez**
Organisms involved: **HGUGM**
Emerging group

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

Description of the research group

The "Neurological diseases" consists mostly of the medical assistants of the Neurology, Neurosurgery, Neuroradiology, Neurophysiology and Neuropediatria service.

Group members

Surname		*Name*	*Role*
CASTRO	DE CASTRO	PEDRO	Postdoctoral
CATALINA	ÁLVAREZ	IRENE	
CONTRERAS	CHICOTE	ANA	

Surname		Name	Role
CUELLO		JUAN PABLO	
DE LA CASA	FAGES	BEATRIZ	Postdoctoral
FERNANDEZ	CARBALLAL	CARLOS	Predoctoral
GARCIA	DOMINGUEZ	JOSE MANUEL	Predoctoral
GOICOECHEA	BRICEÑO	HAYDEE	Support technician
GRANDAS	PEREZ	FRANCISCO JAVIER	Senior researcher
GUISASOLA	ZULUETA	MARIA CONCEPCION	Postdoctoral
GUZMAN DE VILLORIA	LEBIEDZIEJEWSKI	JUAN ADAN	Postdoctoral
HIGUERAS	HERNANDEZ	YOLANDA	Postdoctoral
LOZANO	ROS	ALBERTO	Predoctoral
MARI	HUALDE	AMAIA	Predoctoral
MARTINEZ	GINES	MARIA LUISA	Predoctoral
MASSOT	TARRUS	ANDREU	Postdoctoral
MELDAÑA	RIVERA	ARIANA	
MIRANDA	HERRERO	Mª CONCEPCION	Postdoctoral
MUÑOZ	BLANCO	JOSÉ LUÍS	Predoctoral
OLAZARÁN	RODRÍGUEZ	FRANCISCO JAVIER	Postdoctoral
PEREZ	RIVAS	MARIA DE LOS ANGELES	
PEREZ	SANCHEZ	JAVIER RICARDO	Predoctoral
PEREZ	VIVAS	MARÍA DEL MAR	
PRIETO	MONTALVO	JULIO IGNACIO	Postdoctoral
ROMERO	MARTINEZ	JULIA	Predoctoral
SANCHEZ	FERNANDEZ	MARÍA JESÚS	
TRABA	LÓPEZ	ALFREDO	Predoctoral
VALES	MONTERO	MARTA	
VELAZQUEZ	PEREZ	JOSE MIGUEL	Predoctoral

Research Projects – Competitive Calls

TITLE: **Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
PROJECT TYPE: European research project
FUNDING BODY: EUROPEAN COMMISSION
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
PROJECT TYPE: European research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
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

TITLE: **Young employment program:Laboratory technician** PEJ-2017-TL/BMD-7589
DIRECTOR: GUISASOLA ZULUETA, MARIA CONCEPCIÓN
FUNDING BODY: MICINN-MINECO
PROJECT TYPE: Human resources
START DATE: 00/01/2018
END DATE: 31/12/2018

Patents and intellectual property registrations

Patents

Title	*Reference*	*Owner*	*Inventors*
Procedimiento mejorado para evaluar el riesgo cardiovascular	P200901923 (Familia con 2 patentes)	FIBHGM	María Concepción Guisasola, Elena Dulín

Publications *Total Impact Factor: 64.3*

	Nº	IF
Own publications	12	28.9
Joint publications	20	35.4
First decile publications	1	5.1
First quartile publications	4	17.7
Second quartile publications	12	35.1
Third quartile publications	4	8.3
Fourth quartile publications	5	3.3
Nonindexed publications / No IF	7	-
Total publications (incluging those without IF)	**32**	**64.3**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Boyano I; Ramos A; Lopez-Alvarez, J; Mendoza-Rebolledo, C; Osa-Ruiz, E; Rodriguez, I; Perez, A; Alfayate, E; Gonzalez, B; Fernandez, L; Aguera-Ortiz, L; Rabano, A; Olazaran, J. Cerebral Microbleeds in Advanced Dementia: Clinical and Pathological Correlates. American Journal of Alzheimers Disease and Other Dementias. 2018; 33(6) 362-372. FI: 1,464. Cuartil: 4. (Article).*
- *de Miguel-Yanes, JM; Jimenez-Garcia, R; Hernandez-Barrera, V; Mendez-Bailon, M; de Miguel-Diez, J; Munoz-Rivas, N; Ezpeleta, D; Lopez-de-Andres, A. Hospital Admissions in People With Alzheimer's Disease or Senile Dementia According to Type 2 Diabetes Status: An Observational 10-Year Study. American Journal of Alzheimers Disease and Other Dementias. 2018; 33(1) 12-19. FI: 1,464. Cuartil: 4. (Article).*
- *Lopez, MV; de Castro, PC; Villanueva, NG; Romero, AJA; Pascual, SIP. Calidad de vida de ninos cardiopatas que han sufrido un ictus arterial isquemico. ANALES DE PEDIATRIA. 2018; 88(3) 167-169. FI: 1,166. Cuartil: 3. (Article).*
- *Cortes-Vicente E; Rojas-Garcia R; Diaz-Manera J; Querol L; Casasnovas C; Guerrero-Sola, A; Munoz-Blanco, JL; Barcena-Llona, JE; Marquez-Infante, C; Pardo, J; Martinez-Fernandez, EM; Uson, M; Oliva-Nacarino, P; Sevilla, T; Illa, I. The impact of rituximab infusion protocol on the long-term outcome in anti-MuSK myasthenia gravis. Annals of Clinical and Translational Neurology. 2018; 5(6) 710-716. FI: 4,656. Cuartil: 1. (Article).*
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- *Guisasola, MC; Alonso, B; Bravo, B; Vaquero, J; Chana, F. An overview of cytokines and heat shock response in polytraumatized patients. CELL STRESS & CHAPERONES. 2018; 23(4) 483-489. FI: 2,903. Cuartil: 3. (Review).*
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- *Marzal-Alfaro, MB; Barbero, MLM; Dominguez, JMG; Romero-Delgado, F; Gines, MLM; Herranz, A; Sanjurjo-Saez, M. Impact of fampridine on quality of life: clinical benefit in real-world practice. European Journal of Hospital Pharmacy-Science and Practice. 2018; 25(3) 138-143. FI: 0,717. Cuartil: 4. (Article).*
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- *Fernandez Ruano ML; Besga Garcia B; Montero Plata A; Dulin Iniguez E. Falsos positivos en el cribado neonatal: Elevacion de C5-carnitina en neonatos por tratamiento pre- parto con cefditoreno pivoxilo. REVISTA ESPANOLA DE SALUD PUBLICA. 2018; 92 -. FI: 0,635. Cuartil: 4. (Article).*
- *Montalvo Afonso A; Mateo Sierra O; Gil de Sagredo Del Corral OL; Vargas Lopez AJ; Gonzalez-Quarante LH; Sola Vendrell E; Romero Martinez J. Misdiagnosis of posterior sequestered lumbar disc herniation: report of three cases and review of the literature. Spinal Cord Series And Cases. 2018; 4 61-61. (Article).*

AREA 4

Area Coordinator: **Emilio Bouza Santiago**

INFECTIOUS DISEASES AND AIDS

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

Group Director: **Emilio Bouza Santiago**
Organisms involved: **HGUGM**
Consolidated Group

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 6.6. Antifungal stewardship
- L 6.7. Fungal infection: animal models.
- L 6.8. Studies of virulence and biofilm production.
- L 6.9. 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

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

Group members

	Surname	Name	Role
ABASCAL	SAIZ	ESTEFANIA	Predoctoral ISCIII

Surname		Name	Role
ACOSTA	GARCÍA	FERMÍN	Predoctoral
ADAN	RODRIGUEZ	IVAN	Predoctoral CIBER
ADRADOS	RUIZ	DANIEL	Resident doctor
AGNELLI	BENTO	CAROLINE	
ALCALA	HERNANDEZ	LUIS	Senior Researcher
ALONSO	FERNANDEZ	ROBERTO	Senior Researcher
ALONSO	FERNANDEZ	BEATRIZ	Predoctoral
ÁLVAREZ	ROMASANTA	BEATRIZ	Resident doctor
ÁLVAREZ	VALDIVIESO	JOSÉ MIGUEL	
ALVAREZ-URIA	MIYARES	ANA MARÍA	Resident doctor
ARROYO	PEDRERO	LUIS ANTONIO	Resident doctor
BARRANCO	BENITO	MÓNICA	
BORDALLO	CARDONA	Mª ANGELES	Predoctoral
BOUZA	SANTIAGO	EMILIO	Senior Researcher
BURILLO	ALBIZUA	ALMUDENA	Senior Researcher
CABRERO	BALLESTEROS	INMACULADA	
CANDELA	GONZLEZ	ANA	Resident doctor
CERCENADO	MANSILLA	EMILIA	Senior Researcher
COBOS	FERNANDEZ	ALEJANDRO	
DE EGEA	GARABANO	VIVIANA	
DIAZ	PEREZ	NADIRE MARIA	CAM Technician
ESCRIBANO	MARTOS	PILAR	Miguel Servet I
ESTEVEZ	PRIETO	AGUSTIN	
FERNANDEZ	REY	ROCIO	Management
GALAR	RECALDE	ALICIA	Postdoctoral
GARCIA	MORALES	PAULA	Support technician
GARCIA DE VIEDMA	DEL ALAMO	DARIO	Senior Researcher
GIJON	VIDAURRETA	PALOMA	Senior Researcher
GOMEZ	NUÑEZ	ANA	Support technician
GONZALEZ	SAEZ	ADOLFO	
GOYANES	GALAN	Mª JOSE	Junior researcher
GUEMBE	RAMIREZ	MARIA	Miguel Servet I
GUINEA	ORTEGA	JESUS VICENTE	Miguel Servet II
HACES	PINTO	LAURA VANESSA	Resident doctor
HERRANZ	MARTIN	MARTA	Predoctoral CIBER
HORTAL	IGLESIAS	FRANCISCO JAVIER	Senior Researcher
JIMENEZ	NAVARRO	LAURA	CAM Technician
KESTLER	HERNÁNDEZ	MARTHA JEANNETTE	Postdoctoral
LOSADA	MACHUCA	CARMEN NARCISA	Resident doctor
LOZANO	GARCÍA	LAURA	Predoctoral
MACHADO	VILCHEZ	MARINA	Predoctoral
MARIN	ARRIAZA	MARIA DE LAS MERCEDES	Senior Researcher
MARTIN	LOPEZ	ADORACION	Postdoctoral
MARTÍN-RABADÁN	CABALLERO	PABLO	

Surname		Name	Role
MARTÍN-RABADÁN	CABALLERO	PABLO	Senior Researcher
MUÑOZ	GARCIA-PAREDES	PATRICIA	Senior Researcher
NAVARRO	GARCIA	YURENA DE LOS ANGELES	
NAVARRO	RODRIGUEZ	RAQUEL	Predoctoral
OLMEDO	SAMPERIO	MARÍA	Predoctoral
PADILLA	ORTEGA	BELÉN	Senior Researcher
PALOMO	LASTRAS	MARÍA	Resident doctor
PEREZ	GRANDA	MARIA JESUS	Senior Researcher
PEREZ	GARCIA	LAURA	Miguel Servet I
QUIROGA	MAROTO	LIDIA	CAM Technician
REIGADAS	RAMÍREZ	ELENA MANUELA	Senior Researcher
RODRIGUEZ	SANCHEZ	BELEN	Miguel Servet I
RODRÍGUEZ	FERNÁNDEZ	SARA	Nursing
RODRÍGUEZ	MAUS	SANDRA	Support technician
ROJAS	WETTIG	LORETO	
RUIZ	SERRANO	MARÍA JESUS	Senior Researcher
SANCHEZ	SOMOLINOS	MAR	Senior Researcher
SERRANO	LOBO	JULIA	
VALERIO	MINERO	MARICELA	Senior Researcher
VAZQUEZ	CUESTA	SILVIA	Technician
VEINTIMILLA	YAÑEZ	MARÍA CRISTINA	Resident Doctor
VILLA	MARTÍNEZ	SOIFA	Resident Doctor
VILLAR	GOMARA	LAURA	Predoctoral-UCM
ZAMORA	CINTAS	MARÍA ISABEL	Resident Doctor

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: **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: **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: 31/12/2018

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: 31/12/2018

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: 31/12/2018

TITLE**: Estudio Randomizado para evaluar el sellado de catéteres venosos periféricos con Heparina vs. Suero Salino en pacientes Ingresados en Medicina Interna**. PI14/01933
DIRECTOR: GUEMBE RAMÍREZ, MARÍA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2015
END DATE: 31/12/2017

TITLE: **Impacto clínico de la integración de la triada compuesta por datos de farmacocinética, farmacodinamia y patogenicidad de Candida en el pronóstico del paciente con candidemia**. PI14/00740
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **PROMULGA II: Validación de la eficacia de un "bundle" de medidas en la incidencia, diagnóstico rápido, tratamiento y mortalidad de la infección fungica nosocomial.** PI13/01148
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE:Research project
START DATE: 01/01/2014

END DATE: 30/06/2018

TITLE: **Estudio randomizado para evalluar el sellado de catéteres venosos periféricos con heparina vs. suero salino en pacientes ingresados en medicina interna**. FEMI14/01
DIRECTOR: BOUZA SANTIAGO, EMILIO
FUNDING BODY: FUNDACIÓN ESPAÑOLA DE MEDICINA INTERNA
PROJECT TYPE:Research project
START DATE: 21/01/2015
END DATE: 21/01/2018

TITLE: **Miguel Servet II Contract** CPII15/00006
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Human resources
START DATE: 01/07/2016
F END DATE: 31/12/2018

TITLE: **Miguel Servet Contract** I 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 II 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** CP13/00268
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: **Young employement contract**: **Laboratory technician**. PEJ16/MED/TL-1507
DIRECTOR: RODRIGUEZ SÁNCHEZ, BELEN
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2018

TITLE: **Young employement contract: Laboratory technician**.PEJ15/BIO/TL-0243
DIRECTOR: MARTINEZ LOZANO, ANDREA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract**: **Laboratory technician**. PEJ15/BIO/TL-0228
DIRECTOR: SANTANTON GARRIDO, SHEILA
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid

PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract**: **Laboratory technician**.PEJ15/BIO/TL-0211
DIRECTOR: DIAZ PEREZ, NADIRE Mª
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contract: Research Assistant**. PEJ15/BIO/AI-0406
DIRECTOR: ALONSO FERNÁNDEZ, BEATRIZ
FUNDING BODY: CONSERJERÍA DE EDUCACIÓN Comunidad de Madrid
PROJECT TYPE: Human resources
START DATE: 01/02/2016
END DATE: 01/02/2018

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

Patents and intellectual property registrations

Patents

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

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

Publications *Total Impact Factor: **321.9***

	Nº	IF
Own publications	45	160.4
Joint publications	34	161.4
First decile publications	23	175.4
First quartile publications	40	246.0
Second quartile publications	11	31.0
Third quartile publications	9	21.8
Fourth quartile publications	17	23.1
Nonindexed publications / No IF	2	-
Total publications (incluging those without IF)	**79**	**321.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

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- *Zamora-Cintas, M; Marin, M; Quiroga, L; Martinez, A; Fernandez-Chico, MA; Bouza, E; Rodriguez-Sanchez, B; Alcala, L. Identification of Porphyromonas isolates from clinical origin using MALDI-TOF Mass Spectrometry. ANAEROBE. 2018; 54 197-200. FI: 2,704. Cuartil: 3. (Article).*
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Publications of the main WOS collection in journals without impact factor

- *Valerio, M; Machado, M; Cedeno, S; Rodriguez, ML; Anaya, F; Vena, A; Guinea, J; Escribano, P; Bouza, E; Munoz, P. Donor-derived invasive aspergillosis after kidney transplant. Medical Mycology Case Reports. 2018; 22 24-26. (Article).*

- *Perez, LA; Lago, EN; Ortiz, AI; Iglesias, JH. Incidental finding of thrombus in patent foramen ovale in patient with major pulmonary embolism. Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(2) 122-123. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Pericas, JM; Moreno, A; Almela, M; Garcia-de-la-Maria, C; Marco, F; Munoz, P; Pena, C; de Alarcon, A; del Rio, A; Eworo, A; Cruceta, A; Pare, JC; Mestres, CA; Miro, JM; FOSIMI Investigators. Efficacy and safety of fosfomycin plus imipenem versus vancomycin for complicated bacteraemia and endocarditis due to methicillin-resistant Staphylococcus aureus: a randomized clinical trial. CLINICAL MICROBIOLOGY AND INFECTION. 2018; 24(6) 673-676. FI: 6,425. Cuartil: 1. (Letter).*

- *Vicent, L; Saldivar, HG; Munoz, P; Bouza, E; Martinez-Selles, M. The role of echocardiography as a risk-stratification tool in infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 53 23-24. FI: 3,66. Cuartil: 1. (Letter).*

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- *Onori, R; Marin, M; Rodriguez-Sanchez, B; Oliver, C; Munoz, P; Bouza, E; Alcala, L. First isolation of Skermanella aerolata from a human sample. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2018; 31(6) 552-553. FI: 0,76. Cuartil: 4. (Letter).*

Other publications

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- *Alonso B; Cruces R; Perez A; Fernandez-Cruz A; Guembe M. Activity of maltodextrin and vancomycin against staphylococcus aureus biofilm. Frontiers in Bioscience - Scholar. 2018; 10 300-308. (Article).*

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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	Role
ALDAMIZ-ECHEVARRIA	LOIS	Mª TERESA	Juan Rodés (Postdoctoral)
BERENGUER	BERENGUER	JUAN	Senior researcher
DIEZ	ROMERO	CRISTINA	RETICs (Postdoctoral)
FANCIULLI		CHIARA	Predoctoral
GUTIERREZ	CUELLAR	ISABEL	Enfermera Investigación
LOPEZ	BERNALDO DE QUIROS	JUAN CARLOS	Senior researcher
MIRALLES	MARTÍN	PILAR	Predoctoral
PARRAS	VAZQUEZ	FRANCISCO	Postdoctoral
PÉREZ	LATORRE	LEIRE	Río Hortega (Postdoctoral)
RAMIREZ	SCHACKE	MARGARITA	Research nurse
RYAN	MURUA	PABLO	Postdoctoral
TEJERINA	PICADO	FRANCISCO	Predoctoral

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

Cooperative Research Structures

Type (RETIC, CIBER, others.)	Name of Network	Role
RETICS	Red Española de Investigación en SIDA (RIS). RD16/0025/0017	Collaborating group

Patents and intellectual property registrations

Patents

Title	*Reference*	*Owner*	*Inventors*
Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P201500669	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 201600726	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

Publications *Total Impact Factor:* ***81.9***

	Nº	IF
Own publications	6	27.6
Joint publications	11	54.3
First decile publications	3	38.0
First quartile publications	9	63.9
Second quartile publications	4	10.8
Third quartile publications	2	3.8
Fourth quartile publications	2	3.4
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**17**	**81.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

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- *Berenguer J. Elimination of hepatitis C virus in Spain: A pending challenge. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2018; 36(6) 323-324. FI: 1,685. Cuartil: 4. (Editorial Material).*
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- *Berenguer, J; Gil-Martin, A; Jarrin, I; Moreno, A; Dominguez, L; Montes, M; Aldamiz-Echevarria, T; Tellez, MJ; Santos, I; Benitez, L; Sanz, J; Ryan, P; Gaspar, G; Alvarez, B; Losa, JE; Torres-Perea, R; Barros, C; San Martin, JV; Arponen, S; de Guzman, MT; Monsalvo, R; Vegas, A; Garcia-Benayas, MT; Serrano, R; Gotuzzo, L; Menendez, MA; Belda, LM; Malmierca, E; Calvo, MJ; Cruz-Martos, E; Gonzalez-Garcia, JJ. All-oral direct-acting antiviral therapy against hepatitis C virus (HCV) in human immunodeficiency virus/HCV-coinfected subjects in real-world practice: Madrid coinfection registry findings. HEPATOLOGY. 2018; 68(1) 32-47. FI: 14,971. Cuartil: 1. (Article).*
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Other publications

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AREA 5

Area Coordinator: **Eduardo Fernández-Cruz Pérez**

DISEASES OF THE IMMUNE SYSTEM

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
5.08. Pediatric allergic diseases

5.01 Pathophysiology and clinical investigation of chronic inflammatory and immune diseases

Group Director: **Eduardo Fernández-Cruz Pérez**
Organisms involved: **HGUGM**
Consolidated Group

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: Identification of genetic markers associated with anti-HIV-1 protective immune responses induced after antiretroviral therapy, with and without immunomodulation, in patients with chronic HIV-1 infection. Leader: Eduardo Fernández-Cruz.

Axis 2: Immunotherapy
L 1: Anti-influenza virus hyperimmune intravenous immunoglobulin. 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.

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.

Axis 4: Reproductive immunology
L 1: Study of immunophenotypic markers and immunogenotyping in diseases of the reproductive system. Leader: Juana Gil Herrera.
L 2: Cellular and humoral alterations in women with recurrent 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.

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: Paloma Sánchez-Mateos.

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, José Manuel Martín Villa.
L 2: HLA genetics and pharmacogenetics in humans. Leaders: Antonio Arnáiz, José Manuel Martín Villa.
L 3: Evolution of MHC-G. Immunosuppression. Leaders: Antonio Arnáiz, José Manuel Martín Villa.
L 4: Evolution of MHC in primates and wild birds. Antonio Arnáiz, José Manuel Martín Villa.

Axis 18: Population genetics

L 1: Population genetics and obesity: Globesity. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

Axis 19: Mucosal immunology

L 1: Mucosal immunology. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

Axis 20: Molecular genetics and tumors

L 1: Molecular genetics and tumors. Leaders: Antonio Arnáiz, José Manuel Martín Villa

Axis 21: Signal transduction. Leader: Martínez Quiles.

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.

Group members

Surname		*Name*		*Role*
AVILES	IZQUIERDO	JOSE ANTONIO		Predoctoral
ARNAIZ	VILLENA	ANTONIO		
BANIANDRES	RODRIGUEZ	OFELIA	Predoctoral	
BARCHINO	ORTIZ	LUCIA		
BERGON	SENDIN	MARTA		
CAMARA	MARQUES	SILVIA		
CARBONE	CAMPOVERDE	JAVIER ALBERTO	Senior Researcher	
CIUDAD	BLANCO	CRISTINA		
EGIDO	BALZATEGUI	JOSE		
ESTECHA	PALOMERO	ANA		
FERNANDEZ-CRUZ	PEREZ	EDUARDO	Senior Researcher	
FUENTELSAZ	ROMERO	SARA	RETICS Research	
GARCIA	CAMPOS	RAQUEL	Technician	
GIL	HERRERA	JUANA	Senior Researcher	
GUTIERREZ	SEIJO	ALBA	CAM Research Assistant	
JIMENEZ	LOPEZ	MARICELA		
MARTÍN	VILLA	JOSÉ MANUEL		
MARTINEZ	QUILES	NARCISA	Senior Researcher	
NAVARRO	CASPISTEGUI	JOAQUÍN	Postdoctoral	
PALACIO	GRUBER	JOSE		
PEREZ	GARCIA	YAIZA		
PUIG	KRÖGER	AMAYA ROCIO	Senior Researcher	
PULIDO	PÉREZ	ANA	Predoctoral	

Surname		Name	Role
PALACIO	GRUBER	JOSE	
RODRÍGUEZ	MOLINA	JUAN JOSÉ	Postdoctoral
RODRÍGUEZ	SAINZ	CARMEN	Postdoctoral
SAMANIEGO	GARCÍA	RAFAEL	Senior Researcher
SÁNCHEZ-MATEOS	RUBIO	PALOMA	Senior Researcher
SARMIENTO	MARCHESE	ELIZABETH ANGÉLICA	Postdoctoral
SOLER	PALACIOS	BLANCA	Predoctoral
SUAREZ	FERNANDEZ	RICARDO	Senior Researcher
TORRES	TORRESANO	MÓNICA	
VILLAREJO	GOMEZ	JULIA	Nurse

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: **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: **Evaluación de la respuesta a un inmunógeno polivalente administrado vía mucosa sublingual en la prevención de infecciones recurrentes en pacientes con EPOC**. PI12/02936
DIRECTOR: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2013
END DATE03/10/2018

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: **Biomarcadores de respuesta terapéutica y de hepatoxicidad a anti-folatos en enfermedades inflamatorias** PI14/00075
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2015
END DATE:30/01/2019

TITLE: **Estudio Multicéntrico internacional de escalas de riesgo de infección en trasplante de órgano sólido**. PI15/01472
DIRECTOR: CARBONE CAMPOVERDE, JAVIER ALBERTO
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
PROJECT TYPE: Research project
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **Regulación microambiental de la migración de células tumorales e inflamatorias en modelos 3D: estudio de las interacciones erm/microtúbulos y quimiocinas (CAME)** SAF2010-16102
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: MINECO
PROJECT TYPE: Research project
START DATE: 01/01/2011
END DATE:20/09/2018

TITLE: **Artritis reumatoide: Mecanismos fisiopatológicos e identificación de posibles dianas terapeúticas PROYECTO RAPHYME** S2010/BMD-2350
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
FUNDING BODY: COMUNIDAD DE MADRID
PROJECT TYPE: Research project
START DATE: 01/01/2012
END DATE:20/09/2018

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 (Comunidad de Madrid**). 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: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). 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: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). PEJ-2017-TL/BMD-6471
DIRECTOR: RODRIGUEZ SAINZ, CARMEN
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2018
END DATE: 31/12/2018

TITLE: **Predoctoral Contract (Comunidad de Madrid**). PEJD-2016/BMD-2762
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2017

TITLE: **Young employement contract: Ayudante Investigacion.** PEJ16/MED/AI-1868
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/01/2017
END DATE: 31/12/2018

TITLE: **Young employement** contract:Técnico de Laboratorio. PEJ15/BIO/TL-0609
DIRECTOR: LERMA GOMEZ, RAQUEL
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
PROJECT TYPE: Human resources
START DATE: 01/03/2016
END DATE: 01/03/2018

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 thesis and Master's thesis

Type	*Candidate*	*Title*	*Name/s Director/s*	*University*	*Date Defended*
Ph Thesis	**María Isabel Jaramillo Lopetegui**	Estudio de alteraciones de la inmunidad humoral y su asociación con el riesgo de infecciones en pacientes sometidos a trasplantes cardíaco, renal y pulmonar	Javier Alberto Carbone Campoverde Elizabeth Angélica Sarmiento Marchese	UAH	September 17th 2018
Ph Thesis	**Leticia Calahorra Melero**	Estudio del estado de maduración del linfocito B y factores solubles asociados a rechazo e infección en pacientes sometidos a trasplante de órgano sólido.	Elizabeth Angélica Sarmiento Marchese Javier Alberto Carbone Campoverde	UCM	December 20th 2018

Publications *Total Impact Factor:* ***102.4***

	Nº	IF
Own publications	8	63.9
Joint publications	17	38.5
First decile publications	7	65.3
First quartile publications	9	75.9
Second quartile publications	6	19.9
Third quartile publications	4	6.5
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	6	-
Total publications (incluging those without IF)	**25**	**102.4**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Pinas, L; Alkhraisat, MH; Suarez-Fernandez, R; Anitua, E. Biomolecules in the treatment of lichen planus refractory to corticosteroid therapy: Clinical and histopathological assessment. ANNALS OF ANATOMY-ANATOMISCHER ANZEIGER. 2018; 216 159-163. FI: 2,241. Cuartil: 2. (Article).*
- *Municio, C; Dominguez-Soto, A; Fuentelsaz-Romero, S; Lamana, A; Montes, N; Cuevas, VD; Campos, RG; Pablos, JL; Gonzalez-Alvaro, I; Puig-Kroger, A. Methotrexate limits inflammation through an A20-dependent cross-tolerance mechanism. ANNALS OF THE RHEUMATIC DISEASES. 2018; 77(5) 752-759. FI: 14,299. Cuartil: 1. (Article).*
- *Anitua, E; Pinas, L; Escuer-Artero, V; Fernandez, RS; Alkhraisat, MH. Short dental implants in patients with oral lichen planus: a long-term follow-up. BRIT J ORAL MAX SURG. 2018; 56(3) 216-220. FI: 1,164. Cuartil: 3. (Article).*
- *Samaniego, R; Gutierrez-Gonzalez, A; Gutierrez-Seijo, A; Sanchez-Gregorio, S; Garcia-Gimenez, J; Mercader, E; Marquez-Rodas, I; Aviles, JA; Relloso, M; Sanchez-Mateos, P. CCL20 Expression by Tumor-Associated Macrophages Predicts Progression of Human Primary Cutaneous Melanoma. Cancer Immunology Research. 2018; 6(3) 267-275. FI: 8,619. Cuartil: 1. (Article).*
- *Boas, PV; Hernandez-Aragues, I; Suarez-Fernandez, R; Campos-Dominguez, M. Hypopigmented patches on the buttocks of a 7-year-old boy. CLINICAL AND EXPERIMENTAL DERMATOLOGY. 2018; 43(4) 485-487. FI: 1,771. Cuartil: 3. (Article).*
- *Sanchez-Herrero A; Mateos-Mayo A; Rodriguez-Lomba E; Molina-Lopez I; Campos-Dominguez M; Fernandez, RS. Allergic contact cheilitis in an adolescent to Ricinus communis seed oil (castor oil) in a lip balm. CONTACT DERMATITIS. 2018; 79(3) 176-178. FI: 5,504. Cuartil: 1. (Article).*
- *Martinez-Quiles, N; Goldbach-Mansky, R. Updates on autoinflammatory diseases. CURRENT OPINION IN IMMUNOLOGY. 2018; 55 97-105. FI: 7,667. Cuartil: 1. (Article).*
- *Rodriguez-Lomba, E; Sanchez-Herrero, A; Morales, P; Suarez-Fernandez, R. Transparent Film Dressings for Patch Testing Leads to Better Adhesion and Patient Comfort. Dermatitis. 2018; 29(5) 289-289. FI: 2,63. Cuartil: 2. (Article).*
- *Nieto, C; Bragado, R; Municio, C; Sierra-Filardi, E; Alonso, B; Escribese, MM; Dominguez-Andres, J; Ardavin, C; Castrillo, A; Vega, MA; Puig-Kroger, A; Corbi, AL. The Activin A-Peroxisome Proliferator-Activated Receptor Gamma Axis Contributes to the Transcriptome of GM-CSF-Conditioned Human Macrophages. Frontiers in Immunology. 2018; 9 31-31. FI: 4,716. Cuartil: 2. (Article).*
- *Salinas-Munoz L; Campos-Fernandez R; Mercader E; Olivera-Valle I; Fernandez-Pacheco C; Matilla L; Garcia-Bordas J; Brazil JC; Parkos CA; Asensio F; Munoz-Fernandez MA; Hidalgo A; Sanchez-Mateos P; Samaniego R; Relloso M. Estrogen Receptor-Alpha (ESR1) Governs the Lower Female Reproductive Tract Vulnerability to Candida albicans. Frontiers in Immunology. 2018; 9 1033-1033. FI: 4,716. Cuartil: 2. (Article).*
- *Boas, PV; Suarez-Fernandez, R; Campos-Dominguez, M. Flat-topped papules on the face of a young boy. INTERNATIONAL JOURNAL OF DERMATOLOGY. 2018; 57(5) 529-530. FI: 1,794. Cuartil: 3. (Article).*
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- *Camarero-Mulas, C; Jimenez, YD; Sanmartin-Jimenez, O; Garces, JR; Rodriguez-Prieto, MA; Alonso-Alonso, T; Medrano, RM; Lopez-Estebaranz, JL; Murillo, ED; Redondo, P; Ciudad-Blanco, C; Toll-Abello, A; Igarza, JLA; Markixana, IA; Fernandez, RS; Rubio, AA; Pacheco, MLA; Vazquez-Veiga, H; Dobao, PD; Ruiz-Salas, V; Rull, EV; Barchino, L; Morales-Gordillo, V; Ocerin-Guerra, I; Tejedor, RN; Hueso, L; Arenal, MM; Seoane-Pose, MJ; Cano-Martinez, N; Garcia-Doval, I; Descalzo, MA; REGESMOHS Registro Espanol Cirugi. Mohs micrographic surgery in the elderly: comparison of tumours, surgery and first-year follow-up in patients younger and older than 80 years old in REGESMOHS. JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY. 2018; 32(1) 108-112. FI: 5,113. Cuartil: 1. (Article).*

- *Prieto-Perez, R; Solano-Lopez, G; Cabaleiro, T; Roman, M; Ochoa, D; Talegon, M; Baniandres, O; Lopez-Estebaranz, JL; de la Cueva, P; Dauden, E; Abad-Santos, F. New polymorphisms associated with response to anti-TNF drugs in patients with moderate-to-severe plaque psoriasis. PHARMACOGENOMICS J. 2018; 18(1) 70-75. FI: 3,503. Cuartil: 2. (Article).*

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Publications of the main WOS collection in journals without impact factor

- *Ruiz-Salas, V; Garces, JR; Alonso-Alonso, T; Rodriguez-Prieto, MA; Toll-Abello, A; Murillo, EE; Minano, R; Lopez-Estebaranz, JL; Sanmartin-Jimenez, O; Barona, CG; Markixana, IA; Rubio, AA; Jimenez, YD; Navarro, R; Ortiz, LB; Ochaita, PL; Vilarasa, E; Blanco, CC; Vazquez-Veiga, H; Igarza, JLA; Alonso, ML; Garcia-Doval, I; Descalzo, MA; Bellon, PR. Description of patients excluded for Mohs surgery after pre-surgical evaluation: data from the Regesmohs Spanish registry. Actas Dermo-Sifiliograficas. 2018; 109(4) 346-350. (Article).*

- *Rodriguez-Lomba, E; Molina-Lopez, I; Parra-Blanco, V; Suarez-Fernandez, R; Pulido-Perez, A. Clinical and Histopathologic Findings of Cutaneous Leiomyosarcoma: Correlation with Prognosis in 12 Patients. Actas Dermo-Sifiliograficas. 2018; 109(2) 140-147. (Article).*

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- *Rodriguez-Lomba, E; Molina-Lopez, I; Suarez-Fernandez, R; Baniandres-Rodriguez, O. Vitiligo-like lesions and immune checkpoint inhibition therapy: is it truly an adverse event exclusive to patients with melanoma?. CLINICAL AND EXPERIMENTAL DERMATOLOGY. 2018; 43(5) 598-599. FI: 1,771. Cuartil: 3. (Letter).*

- *Descalzo, MA; Carretero, G; Ferrandiz, C; Rivera, R; Dauden, E; Gomez-Garcia, FJ; de la Cueva, P; Herrera-Ceballos, E; Belinchon, I; Lopez-Estebaranz, JL; Alsina, M; Sanchez-Carazo, JL; Ferran, M; Baniandres, O; Carrascosa, JM; Llamas-Velasco, M; Ruiz-Genao, D; Herrera-Acosta, E; Munoz-Santos, C; Garcia-Doval, I; Biobadaderm Study Grp. Change over time in the rates of adverse events in patients receiving systemic therapy for psoriasis: A cohort study. JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY. 2018; 78(4) 798-800. FI: 7,102. Cuartil: 1. (Letter).*

- *Rodriguez-Lomba, E; Molina-Lopez, I; Parra-Blanco, V; Suarez-Fernandez, R; Ciudad-Blanco, C. Cutaneous implantation of papillary thyroid carcinoma secondary to percutaneous ethanol injection into nodal metastasis. JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY. 2018; 32(1) 11-13. FI: 5,113. Cuartil: 1. (Letter).*

Other publications

- *Boas, PV; Herrero, AS; Aragues, IH; Fernandez, RS. Macro lens for mirrorless cameras in digital photography in dermatology. Actas Dermo-Sifiliograficas. 2018; 109(4) 379-380. (Letter).*

- *Rodriguez, OB. Biologic Therapy as a First-Line Treatment in Patients with Psoriasis: An Unstudied Population. Actas Dermo-Sifiliograficas. 2018; 109(7) 579-579. (Letter).*

- *Perez, AP. Histoplasmosis: An Emerging Endemic Mycosis. Actas Dermo-Sifiliograficas. 2018; 109(4) 295-295. (Letter).*

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- *Lozano-Masdemont, B; Pulido-Perez, A; Parra-Blanco, V; Aviles-Izquierdo, JA. Edema and dermatomyositis. Migratory edema and edematous and vesiculobullous dermatomyositis overlap. Reumatologia Clinica. 2018; 14(5) 313-314. (Letter).*
- *Hernandez Aragues I; Vilas Boas P; Sanchez Herrero A; Suarez Fernandez R. Ampolla de contenido hematico a nivel lingual. Semergen. 2018; 44(1) -. (Article).*
- *Conde Montero E; Guisado Munoz S; Perez Jeronimo L; Peral Vazquez A; Montoro Lopez JJ; Hocajada Reales C; Baniandres Rodriguez O; de la Cueva Dobao P. Martorell Hypertensive Ischemic Ulcer Successfully Treated With Punch Skin Grafting. WOUNDS. 2018; 30(2) -. FI: 1,611. Cuartil: 3. (Article).*

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	Role
ALONSO	GARCIA	ESTHER	
ALVAREZ	LOSADA	SUSANA	Postdoctoral
CABRERA	HEREDIA	JORGE RUBEN	
CEÑA	DIEZ	RAFAEL	Predoctoral
CLEMENTE	MAYORAL	MARIA ISABEL	Senior researcher
CONSUEGRA	FERNANDEZ	IRENE	Predoctoral
DIAZ	MUÑOZ	LAURA	Senior researcher
FERRANDO	MARTÍNEZ	SARA	
GALLEGO	DE LA FUENTE	JORGE LUIS	RETICS researcher
GARCIA	ALONSO	DOLORES	Estabilizado
GARCIA	BRONCANO	PILAR	
GARCIA	MERINO	ISABEL MARIA	RETICS researcher

Surname		Name	Role
GOMEZ	RICO	CORAL	RETICS researcher
JIMENEZ	DE ORY	SANTIAGO	Data management
JIMENEZ	FUENTES	JOSE LUIS	Senior researcher
LASARTE	RAMIRO	SANDRA	
MARTIN	MORENO	ALBA	FPU
MUÑOZ	FERNANDEZ	Mª ANGELES	Senior researcher
PALAU	CONCEJO	PAULA	RETICS researcher
PERISE	BARRIOS	ANA JUDITH	
RODRIGUEZ	IZQUIERDO	IGNACIO	Predoctoral
RODRÍGUEZ	RELAÑO	IGNACIO	Predoctoral
SEPÚLVEDA	CRESPO	DANIEL	Postdoctoral
SERRAMÍA	LOBERA	Mª JESÚS	Senior support technician
TORNERO	PRIETO	DANIEL	
VACAS	CORDOBA	ENRIQUE	

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: 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: **Nanosistemas dendríticos como agentes y vectores terapéuticos en distintas aplicaciones biomédicas NANODENDMED (II)**. S2017/BMD-3703
DIRECTOR: JIMENEZ FUENTES, JOSE LUIS
PROJECT TYPE: Rresearch project
FUNDING BODY: MCIU
START DATE: 01/01/2018
END DATE: 31/12/2021

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: 31/12/2018

TITLE: **SARA BORRELL Contract**. CD14/003203
DIRECTOR: GONZALEZ-SERNA MARTIN, MANUEL ALEJANDRO
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 31/12/2018

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 (ISBER)	International Society for Biological and Environmental Repositories	Associated group

Patents and intellectual property registrations

Patent

Title	*Reference*	*Owner*	*Inventors*
Dendrímeros carbosilanos catiónicos obtenidos mediante "click chemistry", su preparación y sus usos	P201130804	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	P201030450	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	P201030233 (Familia con 8 patentes)	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
Compuestos dendríticos carbosilanos homo y hetero-funcionalizados	P201231187 (Familia con 2 patentes)	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

Publications *Total Impact Factor:* ***110.5***

	Nº	IF
Own publications	2	11.3
Joint publications	22	99.1
First decile publications	3	22.5
First quartile publications	14	77.6
Second quartile publications	8	31.4

Third quartile publications	1	1.2
Fourth quartile publications	1	0.2
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**24**	**110.5**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Medrano, LM; Garcia-Broncano, P; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Guardiola, JM; Crespo, M; Quereda, C; Sanz, J; Canorea, I; Carrero, A; Hontanon, V; Munoz-Fernandez, MA; Resino, S; GESIDA 3603B Study Grp. Elevated liver stiffness is linked to increased biomarkers of inflammation and immune activation in HIV/hepatitis C virus-coinfected patients. AIDS. 2018; 32(9) 1095-1105. FI: 4,499. Cuartil: 1. (Article).*
- *Tarancon-Diez, L; De Pablo-Bernal, RS; Jimenez, JL; Alvarez-Rios, AI; Genebat, M; Rosado-Sanchez, I; Munoz-Fernandez, MA; Ruiz-Mateos, E; Leal, M. Role of toll-like receptor 4 Asp299Gly polymorphism in the development of cardiovascular diseases in HIV-infected patients. AIDS. 2018; 32(8) 1035-1041. FI: 4,499. Cuartil: 1. (Article).*
- *Calvo, C; Sainz, T; Codoner-Franch, P; Santiago, B; Garcia-Garcia, ML; Vera, CG; Munoz-Fernandez, MA; Perez-Martinez, A; Rivero, I; Perez, CF; Mejias, A; Martinon-Torres, F; Cabanas, F. Paediatric research in Spain: Challenges and priorities. INVEST-AEP Platform. ANALES DE PEDIATRIA. 2018; 89(5) -. FI: 1,166. Cuartil: 3. (Article).*
- *Herrero-Fernandez, I; Pacheco, YM; Genebat, M; Rodriguez-Mendez, MD; Lozano, MD; Polaino, MJ; Rosado-Sanchez, I; Tarancon-Diez, L; Munoz-Fernandez, MA; Ruiz-Mateos, E; Leal, M. Association between a Suppressive Combined Antiretroviral Therapy Containing Maraviroc and the Hepatitis B Virus Vaccine Response. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2018; 62(1) -. FI: 4,715. Cuartil: 1. (Article).*
- *Ruiz-Mateos, E; Tarancon-Diez, L; Alvarez-Rios, AI; Dominguez-Molina, B; Genebat, M; Pulido, I; Abad, MA; Munoz-Fernandez, MA; Leal, M. Association of heterozygous CCR5Delta32 deletion with survival in HIV-infection: A cohort study. ANTIVIR RES. 2018; 150 15-19. FI: 4,13. Cuartil: 1. (Article).*
- *Guerrero-Beltran, C; Rodriguez-Izquierdo, I; Serramia, MJ; Araya-Duran, I; Marquez-Miranda, V; Gomez, R; de la Mata, FJ; Leal, M; Gonzalez-Nilo, F; Munoz-Fernandez, MA. Anionic Carbosilane Dendrimers Destabilize the GP120-CD4 Complex Blocking HIV-1 Entry and Cell to Cell Fusion. BIOCONJUGATE CHEM. 2018; 29(5) 1584-1594. FI: 4,349. Cuartil: 1. (Article).*
- *Benito, JM; Ortiz, MC; Leon, A; Sarabia, LA; Ligos, JM; Montoya, M; Garcia, M; Ruiz-Mateos, E; Palacios, R; Cabello, A; Restrepo, C; Rodriguez, C; del Romero, J; Leal, M; Munoz-Fernandez, MA; Alcami, J; Garcia, F; Gorgolas, M; Rallon, N; ECRIS Integrated Spanish AIDS Res. Class-modeling analysis reveals T-cell homeostasis disturbances involved in loss of immune control in elite controllers. BMC MEDICINE. 2018; 16(1) 30-30. FI: 8,285. Cuartil: 1. (Article).*
- *Garcia-Broncano, P; Medrano, LM; Berenguer, J; Gonzalez-Garcia, J; Jimenez-Sousa, MA; Carrero, A; Hontanon, V; Guardiola, JM; Crespo, M; Quereda, C; Sanz, J; Garcia-Gomez, AB; Jimenez, JL; Resino, S; GESIDA 3603b Study Grp. Dysregulation of the Immune System in HIV/HCV-Coinfected Patients According to Liver Stiffness Status. Cells. 2018; 7(11) -. FI: 5,656. Cuartil: 1. (Article).*
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5.03 Autoinmune systemic diseases

Group Director**: Indalecio Monteagudo Saez**
Organisms involved: **HGUGM**
Consolidated Group

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

Axix 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.

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

Group members

Surname		Name	Role
DEL RIO	BLASCO	TAMARA	Predoctoral
GONZÁLEZ	BENITEZ	ROBERTO DANIEL	Predoctoral
GONZALEZ	FERNANDEZ	CARLOS MANUEL	Senior researchr
JANTA		IUSTINA	Predoctoral
LOPEZ	LONGO	FRANCISCO JAVIER	Senior researchr
MARTINEZ	BARRIO	JULIA	Postdoctoral
MONTEAGUDO	SAEZ	INDALECIO	Senior researchr
NIETO	GONZÁLEZ	JUAN CARLOS	Postdoctoral
OVALLES	BONILLA	JUAN GABRIEL	Predoctoral
RIVERA	REDONDO	FRANCISCO JAVIER	
SERRANO	BENAVENTE	BELEN	

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:31/12/209

TITLE: **Predoctoral Contract (Comunidad de Madrid)** PEJD-2016/BMD-3154
DIRECTOR: LOPEZ LONGO, FRANCISCO JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/01/2017
END DATE: 31/12/2019

Patents 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

Publications

Total Impact Factor: ***53.9***

Nº	IF

Own publications	5	12.2
Joint publications	18	41.8
First decile publications	1	7.7
First quartile publications	4	19.5
Second quartile publications	8	26.5
Third quartile publications	4	7.9
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	7	-
Total publications (incluging those without IF)	**23**	**53.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

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- *Gonzalez-Serna D; Ortiz-Fernandez L; Vargas S; Garcia A; Raya E; Fernandez-Gutierrez B; Lopez-Longo FJ; Balsa A; Gonzalez-Alvaro I; Narvaez J; Gomez-Vaquero C; Sabio JM; Garcia-Portales R; Gonzalez-Escribano MF; Tolosa C; Carreira P; Kiemeney L; Coenen, MJH; Witte T; Schneider M; Gonzalez-Gay MA; Martin J. Association of a rare variant of the TNFSF13B gene with susceptibility to Rheumatoid Arthritis and Systemic Lupus Erythematosus. Scientific Reports. 2018; 8(1) 8195-8195. FI: 4,011. Cuartil: 1. (Article).*

- *Ramirez, J; Nieto-Gonzalez, JC; Rodriguez, RC; Castaneda, S; Carmona, L. Prevalence and risk factors for osteoporosis and fractures in axial spondyloarthritis: A systematic review and meta-analysis. SEMINARS IN ARTHRITIS AND RHEUMATISM. 2018; 48(1) 44-52. FI: 5,072. Cuartil: 1. (Article).*

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- *Uson, J; Loza, E; Moller, I; Acebes, C; Andreu, JL; Batlle, E; Bueno, A; Collado, P; Fernandez-Gallardo, JM; Gonzalez, C; Palop, MJ; Lisbona, MP; Macarron, P; Maymo, J; Narvaez, JA; Navarro-Compan, V; Sanz, J; Rosario, MP; Vicente, E; Naredo, E. Recommendations for the Use of Ultrasound and Magnetic Resonance in Patients With Spondyloarthritis, Including Psoriatic Arthritis, and Patients With Juvenile Idiopathic Arthritis. Reumatologia Clinica. 2018; 14(1) 27-35. (Article).*

- *Moller, I; Loza, E; Uson, J; Acebes, C; Andreu, JL; Batlle, E; Bueno, A; Collado, P; Fernandez-Gallardo, JM; Gonzalez, C; Palop, MJ; Lisbona, MP; Macarron, P; Maymo, J; Narvaez, JA; Navarro-Compan, V; Sanz, J; Rosario, MP; Vicente, E; Naredo, E. Recommendations for the use of ultrasound and magnetic resonance in patients with rheumatoid arthritis. Reumatologia Clinica. 2018; 14(1) 9-19. (Article).*

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Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Siddle, HJ; Mandl, P; Aletaha, D; Vlieland, TPV; Backhaus, M; Cornell, P; D'Agostino, MA; Ellegaard, K; Iagnocco, A; Jakobsen, B; Jasinski, T; Kildal, NH; Lehner, M; Moller, I; Supp, GM; O'Connor, P; Redmond, AC; Naredo, E; Wakefield, RJ. *The EULAR points to consider for health professionals undertaking musculoskeletal ultrasound for rheumatic and musculoskeletal diseases.* ANNALS OF THE RHEUMATIC DISEASES. 2018; 77(2) 311-313. FI: 14,299. Cuartil: 1. (Letter).

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- Valor, L; Hernandez-Florez, D; Martinez-Barrio, J; Longo, FJL. *A reflection on how we define, determine and interpret the finding of lupus anticoagulant.* Reumatologia Clinica. 2018; 14(2) 120-122. (Letter).

- Cea-Calvo L; Raya E; Marras C; Salman-Monte TC; Ortiz A; Salvador G; Monteagudo I; Carmona L; Fernandez S; Arteaga MJ; Calvo-Alen J. *Correction to: The beliefs of rheumatoid arthritis patients in their subcutaneous biological drug: strengths and areas of concern.* RHEUMATOLOGY INTERNATIONAL. 2018; 38(9) 1741-1741. FI: 2,2. Cuartil: 3. (Correction).

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	Role
ALVAREZ	PEREA	ALBERTO	Senior Researcher
BAEZA	OCHOA DE OCARIZ	MARIA LUÍSA	Senior Researcher
FUENTES	APARICIO	VICTORIA	Predoctoral
INFANTE	HERRERO	SONSOLES	Predoctoral
MORALES	CABEZA	CRISTINA	Predoctoral
PRIETO	GARCÍA	ALICIA	Senior Researcher
TORNERO	MOLINA	PILAR	Predoctoral
ZAPATERO	REMÓN	LYDIA	Senior Researcher
ZUBELDIA	ORTUÑO	JOSE MANUEL	Senior 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: **159.2**

	Nº	IF
Own publications	8	32.9
Joint publications	11	119.4
First decile publications	5	110.1

First quartile publications	8	126.8
Second quartile publications	5	17.7
Third quartile publications	4	9.7
Fourth quartile publications	3	4.9
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**20**	**159.2**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

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- Alonso-Lebrero, E; Bento, L; Martorell-Aragones, A; Ribeiro, L; Expert CIBAL Panel. *Iberian consensus on cow's milk allergy: The CIBAL Study.* ALLERGOLOGIA ET IMMUNOPATHOLOGIA. 2018; 46(6) 517-532. FI: 1,64. Cuartil: 4. (Article).

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- Infante, S; Marco-Martin, G; Sanchez-Dominguez, M; Rodriguez-Fernandez, A; Fuentes-Aparicio, V; Alvarez-Perea, A; Cabrera-Freitag, P; Morales-Cabeza, C; Zubeldia, JM; Zapatero, L. *Food protein-induced enterocolitis syndrome by fish: Not necessarily a restricted diet*. ALLERGY. 2018; 73(3) 728-732. FI: 6,771. Cuartil: 1. (Article).

- Molina-Infante, J; Gutierrez-Junquera, C; Savarino, E; Penagini, R; Modolell, I; Bartolo, O; Prieto-Garcia, A; Mauro, A; Alcedo, J; Perello, A; Guarner-Argente, C; Alcaide, N; Vegas, AM; Barros-Garcia, P; Murzi-Pulgar, M; Perona, M; Gisbert, JP; Lucendo, AJ; Upper GI Tract Study Grp Spanish. *Helicobacter pylori infection does not protect against eosinophilic esophagitis: results from a large multicenter case-control study.* AMERICAN JOURNAL OF GASTROENTEROLOGY. 2018; 113(7) 972-979. FI: 10,241. Cuartil: 1. (Article).

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- Fabra, C; Infante, S; Miras, I; Pretus, S; Santiago, MJ; Fernandez, SN; Lopez-Herce, J. *Hematologic Disorders in Children with Continuous Renal Replacement Therapies.* ASAIO JOURNAL. 2018; 64(3) 375-381. FI: 2,494. Cuartil: 2. (Article).

- Tortajada-Girbes, M; Bousquet, R; Bosque, M; Martinez, JJC; Ibanez, MD; Moreira, A; Nieto, A; Plaza, AM; Rivas, C; Requena, G; Sanchez-Solis, M; Tabar, A; Torres-Borrego, J; Zapatero, L. *Efficacy and effectiveness of omalizumab in the treatment of childhood asthma.* Expert Review of Respiratory Medicine. 2018; 12(9) 745-754. FI: 2,622. Cuartil: 3. (Article).

- Torrijos, EG; Gonzalez-Mendiola, R; Alvarado, M; Avila, R; Prieto-Garcia, A; Valbuena, T; Borja, J; Infante, S; Lopez, MP; Marchan, E; Prieto, P; Moro, M; Rosado, A; Saiz, V; Somoza, ML; Uriel, O; Vazquez, A; Mur, P; Poza-Guedes, P; Bartra, J. *Eosinophilic Esophagitis: Review and Update.* Frontiers In Medicine. 2018; 5 247-247. FI: 3,113. Cuartil: 1. (Article).

- de la Torre, MV; Baeza, ML; Najera, L; Zubeldia, JM. *Comparative study of adjuvants for allergen-specific immunotherapy in a murine model.* IMMUNOTHERAPY. 2018; 10(14) 1219-1228. FI: 3,028. Cuartil: 3. (Article).

- Micozzi, S; Infante, S; Fuentes-Aparicio, V; Alvarez-Perea, A; Zapatero, L. *Celiac Disease and Wheat Allergy: A Growing Association?*. INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. 2018; 176(3-4) -. FI: 2,932. Cuartil: 3. (Article).

- Molina-Infante, J; Arias, A; Alcedo, J; Garcia-Romero, R; Casabona-Frances, S; Prieto-Garcia, A; Modolell, I; Gonzalez-Cordero, PL; Perez-Martinez, I; Martin-Lorente, JL; Guarner-Argente, C; Masiques, ML; Vila-Miravet, V; Garcia-Puig, R; Savarino, E; Sanchez-Vegazo, CT; Santander, C; Lucendo, AJ. *Step-up empiric elimination diet for pediatric and adult eosinophilic esophagitis: The 2-4-6 study.* J ALLERGY CLIN IMMUN. 2018; 141(4) 1365-1372. FI: 14,11. Cuartil: 1. (Article).

- Alvarez-Perea, A; Ojeda, P; Zubeldia, JM. *Trends in Twitter use during the Annual Meeting of the Spanish Society of Allergology and Clinical Immunology (2013-2016).* Journal of Allergy and Clinical Immunology-In Practice. 2018; 6(1) 310-312. FI: 7,55. Cuartil: 1. (Article).

- Rojas-Perez-Ezquerra, P; Noguerado-Mellado, B; Garcia, MSD; Roa-Medellin, D; Hernandez-Aragues, I; Ortuno, JMZ. *Sweet syndrome caused by sensitization to gabapentin.* Journal of Allergy and Clinical Immunology-In Practice. 2018; 6(2) 685-686. FI: 7,55. Cuartil: 1. (Article).

- Laguna, JJ; Archilla, J; Dona, I; Corominas, M; Gastaminza, G; Mayorga, C; Berjes-Gimeno, P; Tornero, P; Martin, S; Planas, A; Moreno, E; Torres, MJ. *Practical Guidelines for Perioperative Hypersensitivity Reactions.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2018; 28(4) 216-232. FI: 3,802. Cuartil: 2. (Article).

- Caralli, ME; Zubeldia, JM; Alvarez-Perea, A; Baeza, ML. *One of the Faces of Facial Swelling: Melkersson-Rosenthal Syndrome*. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2018; 28(4) 265-267. FI: 3,802. Cuartil: 2. (Article).
- Basagana, M; Prieto-Garcia, A; Miguel, S; Micozzi, S; Bartolome, B; Labrador-Horrillo, M; Roger, A. *Anaphylaxis Induced by Conlinin, a 2S Storage Protein in Flaxseed.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2018; 28(1) 56-58. FI: 3,802. Cuartil: 2. (Article).
- Alvarez-Perea, A; Cabrera-Freitag, P; Fuentes-Aparicio, V; Infante, S; Zapatero, L; Zubeldia, JM. *Social Media as a Tool for the Management of Food Allergy in Children.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2018; 28(4) 233-240. FI: 3,802. Cuartil: 2. (Article).
- Aygoren-Pursun, E; Bygum, A; Grivcheva-Panovska, V; Magerl, M; Graff, J; Steiner, UC; Fain, O; Huissoon, A; Kinaciyan, T; Farkas, H; Lleonart, R; Longhurst, HJ; Rae, W; Triggiani, M; Aberer, W; Cancian, M; Zanichelli, A; Smith, WB; Baeza, ML; Du-Thanh, A; Gompels, M; Gonzalez-Quevedo, T; Greve, J; Guilarte, M; Katelaris, C; Dobo, S; Cornpropst, M; Clemons, D; Fang, L; Collis, P; Sheridan, W; Maurer, M; Cicardi, M. *Oral Plasma Kallikrein Inhibitor for Prophylaxis in Hereditary Angioedema.* NEW ENGLAND JOURNAL OF MEDICINE. 2018; 379(4) 352-362. FI: 70,67. Cuartil: 1. (Article).

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- Garcia, MSDM; Ordonez, MDL; Diaz-Zorita, B; Baeza, ML. *An infrequent case of anaphylaxis.* ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. 2018; 120(1) 104-105. FI: 3,56. Cuartil: 2. (Letter).

Other publications

- Infante, S; Marco-Martin, G; Sanchez-Dominguez, M; Rodriguez-Fernandez, A; Fuentes-Aparicio, V; Alvarez-Perea, A; Cabrera-Freitag, P; Morales-Cabeza, C; Zubeldia, JM; Zapatero, L. *Food protein-induced enterocolitis syndrome by fish: Not necessarily a restricted diet.* ALLERGY. 2018; 73(3) 728-732. FI: 6,771. Cuartil: 1. (Article).

5.06 Immune regulation and homeostasis in diseases of the immune system

Group Director**: Rafael Correa Rocha**
Organisms involved: **HGUGM**
Emerging group

Research lines

Axis 1: Immunology of solid organ transplantation
Line 1: Cellular immunotherapy with Treg cells in pediatric solid organ transplantation
Axis 2: Immune regulation in pediatric patients
Line 1: Regulation and Immunological Homeostasis in Pediatric Diseases.
Line 2: Advanced immunotherapies in Pediatrics
Axis 3: Advanced immunotherapies and genetic modification of immune cells
Line 1: Development of genetically modified cells to induce immune tolerance
Line 2: Exosomes and immune cell communication mechanisms.

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 IP 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

Group members

Surname		NAme	Role
BERNALDO DE QUIROS	PLAZA	ESTHER	Predoctoral
CAMPOS	DOMINGUEZ	MINIA	Senior researcher
CORREA	ROCHA	RAFAEL	Group Director
FERNANDEZ	CASTILLO	MARTA	Predoctoral
GALLEGO	VALLE	JORGE	Predoctoral
GONZALEZ	CRESPO	ALMUDENA	Research manager
KENNEDY	BATALLA	REBECA	Predoctoral
LÓPEZ	ESTEBAN	ROCÍO	Support technician
MARTINEZ	BONET	MARTA	Postdoctoral
PION		MARJORIE	Senior researcher
SEOANE	REULA	ELENA	Senior 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: **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: 31/12/2018

TITLE: **Estudio de los mecanismos de desregulación de las poblaciones celulares implicadas en la homeostasis inmune y en la híper-activación inmunológica presente en pacientes VIH**. PI15/00923
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

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: 01/01/2015
END DATE: 31/12/2018

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: **Contract ESTABILIDAD DOCTORES** IEDI-2015-00616
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Human Resources
FUNDING BODY: MICINN/MINECO
START DATE: 13/07/2015
END DATE: 13/04/2018

TITLE: **PREDOCTORAL Contract (Comunidad de Madrid)** PEJD-2016/BMD-3191
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/01/2017
END DATE: 31/12/2017

TITLE: **Young employement contract: Ayudante Investigación.**PEJ15/BIO/AI-0251
DIRECTOR: BERNALDO DE QUIROS PLAZA, ESTHER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0094
DIRECTOR: PRIETO SANCHEZ, ADRIAN
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0094
DIRECTOR: PEREZ FERNANDEZ, VERONICA ASTRID
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE DE LA COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

Publications *Total Impact Factor: **34.1***

	Nº	IF
Own publications	6	20.4
Joint publications	5	13.8
First decile publications	0	-
First quartile publications	2	13.7
Second quartile publications	3	11.7
Third quartile publications	5	7.1
Fourth quartile publications	1	1.6
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**11**	**34.1**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *de Quiros, EB; Seoane-Reula E; Alonso-Lebrero E; Pion M; Correa-Rocha R. The role of regulatory T cells in the acquisition of tolerance to food allergens in children. ALLERGOLOGIA ET IMMUNOPATHOLOGIA. 2018; 46(6) 612-618. FI: 1,64. Cuartil: 4. (Review).*
- *Lopez-Abente J; Prieto-Sanchez A; Muñoz-Fernandez MÁ; Correa-Rocha R; Pion M. Human immunodeficiency virus type-1 induces a regulatory B cell-like phenotype in vitro. CELLULAR & MOLECULAR IMMUNOLOGY. 2018; 15(10) 917-933. FI: 8,213. Cuartil: 1. (Article).*

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- *Valdivielso-Ramos, M; Torrelo, A; Martin-Santiago, A; Campos, M; Conde, E; de la Cueva, P; Lopez-Gutierrez, JC. Infantile hemangioma with minimal or arrested growth as the skin manifestation of PHACE syndrome. PEDIATRIC DERMATOLOGY. 2018; 35(5) 622-627. FI: 1,178. Cuartil: 3. (Article).*
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- *Correa-Rocha, R; Lopez-Abente, J; Gutierrez, C; Perez-Fernandez, VA; Prieto-Sanchez, A; Moreno-Guillen, S; Munoz-Fernandez, MA; Pion, M. CD72/CD100 and PD-1/PD-L1 markers are increased on T and B cells in HIV-1+ viremic individuals, and CD72/CD100 axis is correlated with T-cell exhaustion. PLoS One. 2018; 13(8) -. FI: 2,776. Cuartil: 2. (Article).*

Other publications

- Lopez-Abente J; Correa-Rocha R; Pion M. *Corrigendum: Functional Mechanisms of Treg in the Context of HIV Infection and the Janus Face of Immune Suppression.* Frontiers in Immunology. 2018; 9 792-792. FI: 4,716. Cuartil: 2. (Correction).

5.07 Infections in pediatric patients

Group Director: **Mª Luisa Navarro Gómez**
Organisms involved: **HGUGM**
Consolidated Group

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.

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.

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.

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 pediatric patient

Line 1: Clinical characterisitcs, 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 Marisa 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.
- **c.** Validate the criteria for low risk of severe bacterial infection proposed in the retrospective study.

Leaders: Elena Rincón and Marisa Navarro.

Axis 8: Plan for research in other infectious diseases that are prevalent in the healthy population and in the highly complex patient

Line 1: Study of invasive mucosal disease. Leaders: Felipe González and Teresa Hernández Sampelayo.

Line 2: Role of viral coinfections and genomic transcriptional profiles in the severity of pertussis in infants. Leader: Jesús Ruiz.

Line 3: Congenital CMV infection. Leaders: Jesús Saavedra and Mar Santos.

Line 4: ZIKA infection network during pregnancy and in the newborn. Leaders: Mar Santos, Begoña Santiago, and Marisa Navarro.

Line 5: Program for optimization of antifungal therapy in pediatric patients (POPA). Leaders: Teresa Hernández-Sampelayo and Begoña Santiago.

Line 6: National Kawasaki network (Kawa-RACE). Leaders: Mar Santos and Marisa Navarro.

Line 7: Infections after heart surgery. Leader: Jesús Saavedra.

Axis 8: 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.

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.

Group members

Surname		Name	Role
AGUILERA	ALONSO	DAVID	
CARRASCO	GARCÍA	ITZIAR	
DUEÑAS	MORENO	EVA	
GONZALEZ	MARTINEZ	FELIPE	Predoctoral
GONZALEZ	SANCHEZ	MARIA ISABEL	Predoctoral
HERNANDEZ	BARTOLOME	ANGEL	
HERNANDEZ-SAMPELAYO	MATO	TERESA	Postdoctoral
HERNANZ	LOBO	ALICIA	
NAVARRO	GÓMEZ	MARÍA LUISA	Postdoctoral
PÉREZ	MORENO	JIMENA	Predoctorla
RINCON	LOPEZ	ELENA	Predoctoral
RODRIGUEZ	FERNANDEZ	ROSA MARIA	Postdoctoral
SAAVEDRA	LOZANO	JESÚS	Postdoctoral
SANTIAGO	GARCÍA	BEGOÑA	Postdoctoral
SANTOS	SEBASTIAN	MAR	Predoctoral
SUAREZ	ARRABAL	Mª CARMEN	Postdoctoral

Research Projects – Competitive Calls

TITLE: **Antibiotic 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: NAVARRO GÓMEZ, MARÍA LUISA
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: **Young employement contract**: **Soporte al Desarrollo de la Cohorte Nacional de Pacientes Coinfectados Perinatalmente Por Vih-Vhc**. PEJ-2014-P-01122
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Human resources
FUNDING BODY: MICINN/MINECO
START DATE: 12/11/2015
END DATE: 13/11/2017

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 groupr
Others (Scientific Societies Networks)	Pediatric Tuberculosis Network European Trialsgroup	Coordinator groupr
Others (Scientific Societies Networks	Red Española de Estudio de la Tuberculosis pediátrica	Coordinator groupr
Others (Scientific Societies Networks)	Grupo de Estudio EREMITA (Estudio de Tuberculosis Resistente en Niños de la Comunidad de Madrid)	Coordinator groupr
Others (Scientific Societies Networks)	Estudio de la influencia genética en la infección grave en pediatría	Coordinator groupr
Others (Scientific Societies Networks)	RED de Infección Congénita por CMV	Coordinator groupr
Others (Scientific Societies Networks)	Pedatric European Network Treatment on AIDS	Coordinator groupr
Others (Scientific Societies Networks)	Estudio de la Infección Meningocócica	Coordinator groupr
Others (Scientific Societies Networks)	Pediatric infections Staphylococcus aureus meticilin resistence ESPID	Coordinator groupr
Others (Scientific Societies Networks)	Estudio de los aspectos neurocognitivos en la Cohorte de infección VIH Pediátrica	Coordinator groupr
Others (Scientific Societies Networks)	Red para el estudio de la enfermedad invasiva por SGA.	Coordinator groupr
Others (Scientific Societies Networks)	Red Nacional para el Estudio de la infección osteoarticular	Coordinator groupr
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 groupr
Others (Scientific Societies Networks)	Red europea de ZIKA	Coordinator groupr
Others (Scientific Societies Networks)	Red de Giardiasis pediátrica Nacional	Coordinator groupr
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 groupr

Publications *Total Impact Factor:* ***59.1***

	Nº	**IF**

Own publications	3	7.6
Joint publications	10	51.5
First decile publications	3	31.2
First quartile publications	7	49.1
Second quartile publications	3	6.9
Third quartile publications	1	1.2
Fourth quartile publications	2	1.9
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**13**	**59.1**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Carbonell-Estrany, X; Dall'Agnola, A; Fullarton, JR; Rodgers-Gray, BS; Girardi, E; Mussa, A; Paniagua, N; Pieretto, M; Rodriguez-Fernandez, R; Manzoni, P. Interaction between healthcare professionals and parents is a key determinant of parental distress during childhood hospitalisation for respiratory syncytial virus infection (European RSV Outcomes Study [EROS]). ACTA PAEDIATRICA. 2018; 107(5) 854-860. FI: 2,265. Cuartil: 2. (Article).*

- *Calvo, C; Sainz, T; Codoner-Franch, P; Santiago, B; Garcia-Garcia, ML; Vera, CG; Munoz-Fernandez, MA; Perez-Martinez, A; Rivero, I; Perez, CF; Mejias, A; Martinon-Torres, F; Cabanas, F. Paediatric research in Spain: Challenges and priorities. INVEST-AEP Platform. ANALES DE PEDIATRIA. 2018; 89(5) -. FI: 1,166. Cuartil: 3. (Article).*

- *Goetghebuer, T; Hainaut, M; Van der Kelen, E; Delforge, M; Warszawski, J; Le Chenadec, J; Ramos, E; Dialla, O; Wack, T; Laurent, C; Selmi, LA; Leymarie, I; Benali, FA; Brossard, M; Boufassa, L; Floch-Tudal, C; Firtion, G; Hau, I; Chace, A; Bolot, P; Blanche, S; Granier, M; Labrune, P; Lachassine, E; Dollfus, C; Levine, M; Fourcade, C; Heller-Roussin, B; Runel-Belliard, C; Tricoire, J; Monpoux, F; Chirouze, C; Reliquet, V; Brouard, J; Kebaili, K; Fialaire, P; Lalande, M; Mazingue, F; Partisani, ML; Konigs, C; Schultze-Strasser, S; Baumann, U; Niehues, T; Neubert, J; Kobbe, R; Feiterna-Sperling, C; Konigs, C; Buchholz, B; Notheis, G; Spoulou, V; Tovo, PA; Galli, L; Chiappini, E; 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; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijsenfeld, AM; van der Plas, A; Jurriaans, S; Back, NKT; Zaaijer, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriet, SSV; de Flier, MV; 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; Ang, CW; van Houdt, R; Pettersson, AM; Vandenbroucke-Grauls, CMJE; Reiss, P; Bezemer, DO; van Sighem, AI; Smit, C; Wit, FWMN; Boender, TS; Zaheri, S; Hillebregt, M; de Jong, A; Bergsma, D; Grivell, S; Jansen, A; Raethke, M; Meijering, R; de Groot, L; van den Akker, M; Bakker, Y; Claessen, E; El Berkaoui, A; Koops, J; Kruijne, E; Lodewijk, C; Munjishvili, L; Peeck, B; Ree, C; Regtop, R; Ruijs, Y; Rutkens, T; Schoorl, M; Timmerman, A; Tuijn, E; Veenenberg, L; van der Vliet, S; Wisse, A; Woudstra, T; Tuk, B; Marczynska, M; Oldakowska, A; Popielska, J; Coupland, U; Doroba, M; Marques, L; Teixeira, C; Fernandes, A; Prata, F; Ene, L; Gingaras, C; Radoi, R; Okhonskaia, L; 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; Fortuny, C; Noguera-Julian, A; Mellado, MJ; Escosa, L; Hortelano, MG; Sainz, T; Gonzalez-Tome, MI; Rojo, P; Blazquez, D; Ramos, JT; Prieto, L; Guillen, S; Navarro Gómez, María Luisa; Saavedra Lozano, Jesús; Santos Sebastian, Mar; Muñoz Fernandez, Mª Angeles; Ruiz, B; Fernandez Mcphee, Carolina; de Ory, Sj; Álvarez Losada, Susana; 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; Asner, S; Aubert, V; Battegay, M; Baumann, M; Bernasconi, E; Boni, J; Brazzola, P; 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; Kahlert, C; Kaiser, L; Keiser, O; Klimkait, T; Kovari, H; Kouyos, RD; Ledergerber, B; Martinetti, G; de Tejada, BM; Metzner, KJ; Muller; Nicca, D; Paioni, P; Pantaleo, G; Polli, CH; Posfay-Barbe, K; Rauch, A; Rudin, C; Schmid, P; Scherrer, AU; Speck, R; Tarr, P; Lecompte, MT; Trkola, A; Vernazza, P; Wagner, N; Wandeler, G; Weber, R; Wyler, CA; Yerly, S; Techakunakorn, P; Prachanukroh, C; Hansudewechakul, R; Wanchaitanawong, V; Theansavettrakul, S; Nanta, S; Ngampiyaskul, C; Phanomcheong, S; Hongsiriwon, S; Karnchanamayul, W; Chacheongsao, B; Kwanchaipanich, R; Kanjanavanit, S; Prapinklao, S; Kamonpakorn, N; Nantarukchaikul, M; Adulyadej, B; 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; Phuket, V; Lawtongkum, W; Kheunjan, P; Suriyaboon, T; Saipanya, A; Than-In-At, K; Jaisieng, N; Suaysod, R; Chailoet, S; Naratee, N; Kawilapat, S; Kaleeva, T; Baryshnikova, Y; Soloha, S; Bashkatova, N; Raus, I; Glutshenko, O; Ruban, Z; Prymak, N; Kiseleva, G; Bailey, H; Lyall, H; Butler, K; Doerholt, K; Foster, C; Klein, N; Menson, E; Riordan, A; Shingadia, D; Tudor-Williams, G; 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C; Hague, R; Price, V; Bamford, A; Bundy, H; Clapson, M; Flynn, J; Gibb, DM; Klein, N; Novelli, V; Shingadia, D; Ainsley-Walker, P; Tovey, P; Gurtin, D; Garside, JP; Fall, A; Porter, D; Segal, S; Ball, C; Hawkins, S; Chetcuti, P; Dowie, M; Bandi, S; McCabe, A; Eisenhut, M; Handforth, J; Roy, PK; Flood, T; Pickering, A; Liebeschuetz, S; Kavanagh, C; Murphy, C; Rowson, K; Tan, T; Daniels, J; Lees, Y; Kerr, E; Thompson, F; Le Provost, M; Williams, A; Cliffe, L; Smyth, A; Stafford, S; Freeman, A; Reddy, T; Fidler, K; Christie, S; Gordon, A; Rogahn, D; Harris, S; Hutchinson, L; Collinson, A; Hutchinson, L; Jones, L; Offerman, B; Van Someren, V; Benson, C; Riordan, A; Riddell, A; O'Connor, R; Brown, N; Ibberson, L; Shackley, F; Faust, SN; Hancock, J; Doerholt, K; Donaghy, S; Prime, K; Sharland, M; Storey, S; Gorman, S; Lyall, EGH; Monrose, C; Seery, P; Tudor-Williams, G; Walters, S; Cross, R; Menson, E; Broomhall, J; Hutchinson, L; Scott, D; Stroobant, J; Bridgwood, A; McMaster, P; Evans, J; Gardiner, T; Jones, R; Gardiner, K; European Pregnancy Paediat HIV Coh. Time to Switch to Second-line Antiretroviral Therapy in Children With Human Immunodeficiency Virus in Europe and Thailand. CLINICAL INFECTIOUS DISEASES. 2018; 66(4) 594-603. FI: 9,055. Cuartil: 1. (Article).

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- *Rodriguez-Fernandez, R; Tapia, LI; Yang, CF; Torres, JP; Chavez-Bueno, S; Garcia, C; Jaramillo, LM; Moore-Clingenpeel, M; Jafri, HS; Peeples, ME; Piedra, PA; Ramilo, O; Mejias, A. Respiratory Syncytial Virus Genotypes, Host Immune Profiles, and Disease Severity in Young Children Hospitalized With Bronchiolitis. J INFECT DIS. 2018; 217(1) 24-34. FI: 5,045. Cuartil: 1. (Article).*

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- *Leal Barceló AM; Carrascosa García P; Rincón López EM; Miranda Herrero MC; Navarro ML. Infection outbreak due to an enterovirus causing severe neurological complications in a tertiary hospital. ANALES DE PEDIATRIA. 2018; 89(6) 378-381. FI: 1,166. Cuartil: 3. (Letter).*

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- *Santiago-Garcia, B; Mellado-Pena, MJ; Baquero-Artigao, F; Baquero-Artigao, F. Re: "Mycobacterial Disease in Immunocompromised Children in a High Endemic Area". PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2018; 37(4) 376-376. FI: 2,317. Cuartil: 2. (Letter).*
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AREA 6

Area Coordinator: **Miguel Martín Jiménez**

TRASLATIONAL ONCOLOGY

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	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	
ORTIZ	QUINTANA	LUIS	
PELIGROS	GÓMEZ	MARÍA ISABEL	Postdoctoral
PRIETO	RODRIGUEZ	MARIA JESUS	

Surname	Name	Role
RAMON BOTELLA	ENRIQUE	
RODRÍGUEZ MARTÍN	MARCOS	Predoctoral
ROTGER REGÍ	AMANDA	
RUIZ GALAN	GEMA	
SERRANO ANDREU	FRANCISCO JAVIER	Postdoctoral
SIERRA DÍAZ	FERNANDO	Predoctoral
SOLE PESUTIC	CLAUDIO VICENTE	Postdoctoral
TOUSIDONIS RIAL	MANUEL ALEJANDRO	

Research Projects – Competitive Calls

TITLE: **Optimización de la radioterapia intraoperatoria adaptada en quirófano tecnológico: navegación, imagen, miniaturización y dosimetría**. PI15/02121
DIRECTOR: CALVO MANUEL, FELIPE ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Young employement Contract: Técnico laboratorio.** PEJ15/BIO/TL-0347
DIRECTOR: POLA CABALLERO, PATRICIA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	Name of Network	Role
CIBER	CIBERSAM	Collaborating group

Publications *Total Impact Factor:* ***24.8***

	Nº	IF
Own publications	5	9.2
Joint publications	8	15.6
First decile publications	1	3.7
First quartile publications	2	6.9
Second quartile publications	2	6.6
Third quartile publications	3	6.6
Fourth quartile publications	4	4.7
Nonindexed publications / No IF	2	-
Total publications (incluging those without IF)	**13**	**24.8**

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- Roeder, F; de Paoli, A; Saleh-Ebrahimi, L; Alldinger, I; Bertola, G; Boz, G; Navarria, F; Cuervo, M; Uhl, M; Alvarez, A; Buechler, M; Lehner, B; Debus, J; Calvo, FA; Krempien, R. *Intraoperative Electron Radiation Therapy Combined with External Beam Radiation Therapy after*

Gross Total Resection in Extremity Soft Tissue Sarcoma: A European Pooled Analysis. ANNALS OF SURGICAL ONCOLOGY. 2018; 25(13) 3833-3842. FI: 3,681. Cuartil: 1. (Article).

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- Alfonso, PG; Podesta, MC; Martin, AM; Codeisido, MB; Calvo A; Peligros I; Corcuera A; Blanco, ABR; Custodio-Cabello S; Trabada, DL; Martin M; DE Ramon E. *Chemotherapy Plus Bevacizumab as Neoadjuvant or Conversion Treatment in Patients with Colorectal Liver Metastases*. ANTICANCER RESEARCH. 2018; 38(5) 3069-3077. FI: 1,935. Cuartil: 4. (Article).
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- Henriquez, I; Rodriguez-Antolin, A; Cassinello, J; San Segundo, CG; Unda, M; Gallardo, E; Lopez-Torrecilla, J; Juarez, A; Arranz, J. *Consensus statement on definition, diagnosis, and management of high-risk prostate cancer patients on behalf of the Spanish Groups of Uro-Oncology Societies URONCOR, GUO, and SOGUG*. CLINICAL & TRANSLATIONAL ONCOLOGY. 2018; 20(3) 392-401. FI: 2,441. Cuartil: 3. (Article).
- Arenas, M; Sabater, S; Biete, A; Lara, P; Calvo, F. *Radiation Oncology Teaching Programmes as Part of the Undergraduate Degree in Medicine in Spanish Universities: the Need for an Update of the Contents and Structure*. J CANCER EDUC. 2018; 33(2) 352-358. FI: 1,69. Cuartil: 3. (Article).
- Garcia-Vazquez, V; Sese-Lucio, B; Calvo, FA; Vaquero, JJ; Desco, M; Pascau, J. *Surface scanning for 3D dose calculation in intraoperative electron radiation therapy.* Radiation Oncology. 2018; 13(1) 243-243. FI: 2,895. Cuartil: 2. (Article).
- Orcajo-Rincon J; Caresia-Aroztegui AP; Cozar-Santiago, MD; Garcia-Garzon JR; de Arcocha-Torres M; Delgado-Bolton RC; Garcia-Velloso MJ; Alvarez-Ruiz S; Garcia-Vicente AM. *Radium-223 in the treatment of bone metastasis in patients with castration-resistant prostate cancer. Review and procedure*. Revista Espanola de Medicina Nuclear e Imagen Molecular. 2018; 37(5) 330-337. FI: 0,928. Cuartil: 4. (Review).
- Viedma, SS; Rincon, JO. *A step forward in radiometabolic treatment of bone metastases with (223)Ra*. Revista Espanola de Medicina Nuclear e Imagen Molecular. 2018; 37(5) 271-272. FI: 0,928. Cuartil: 4. (Editorial Material).
- Mota-Cobian, A; Alonso-Farto, JC; Fernandez-Friera, L; Sanchez-Gonzalez, J; Lopez-Melgar, B; Jimenez-Borreguero, LJ; Fuster, V; Ruiz-Cabello, J; Espana, S. *The effect of tissue-segmented attenuation maps on PET quantification with a special focus on large arteries.* Revista Espanola de Medicina Nuclear e Imagen Molecular. 2018; 37(2) 94-102. FI: 0,928. Cuartil: 4. (Article).
- Jullien-Petrelli, AC; Garcia-Sabrido, JL; Orue-Echebarria, MI; Lozano, P; Alvarez, A; Serrano, J; Calvo, FM; Calvo-Haro, JA; Lasso, JM; Asencio, JM. *Role of intraoperative radiotherapy in the treatment of sacral chordoma*. SPINE JOURNAL. 2018; 18(4) 632-638. FI: 3,196. Cuartil: 1. (Article).

Publications of the main WOS collection in journals without impact factor

- Alfano, F; Garcia, FP; Fisac, JEO; Conde, MH; Zamora, OB; Calvo, FA; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. *TUMOR LOCALIZATION USING PRONE TO SUPINE SURFACE BASED REGISTRATION FOR BREAST CANCER SURGICAL PLANNING*. IEEE International Symposium on Biomedical Imaging. 2018; 788-791. (Proceedings Paper).
- Martin-Aragon, T; Serrano, J; Benedi, J; Meirino, RM; Garcia-Alonso, P; Calvo, FA. *The value of oxaliplatin in the systemic treatment of locally advanced rectal cancer.* Journal of Gastrointestinal Oncology. 2018; 9(4) 631-640. (Article).

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

Lines:

- Prognostic and predictive value of circulating tumor cells in breast cancer. Leader: Dr. Martín.
- Search for predictors of response to neoadjuvant chemotherapy with docetaxel carboplatin in patients with triple negative breast cancer. Leader: Dr. Martín.
- Genetic counseling. Leader: Dr. Márquez.
- Development of murine Tumorgrafts in breast cancer. Leader: Dr. Martín.
- Immunotherapy for cancer. Leader: Dr. Martín.
- Innovation in treatment of colorectal cancer. Leader: Dr. García Alfonso.
- Innovation in treatment of stomach cancer. Leader: Dr. García Alfonso.
- Innovation in treatment of lung cancer. Leader: Dr. Álvarez.
- Innovation in treatment of genitourinary tumors. Leader: Dr. Arranz.
- Innovation in systemic treatment of brain tumors. Leader: Dr. Márquez.
- Innovation in systemic treatment of melanoma. Leader: Dr. Márquez.
- Innovation in the diagnosis of patients with stage I-III breast cancer. Leader: Dr. Martín.
- Neoadjuvant chemotherapy for breast cancer. Leader: Dr. Martín.
- Organoid development

These strategic lines are organized around 5 strategic axes:

Axis 1: Scientific leadership, integration, and organization.
Axis 2: International relations, alliances, and visibility.
Axis 3: Consolidation of innovation.
Axis 4: Competitiveness (sustainability) and resources available for research.
Axis 5: Quality and management of research and innovation.

Group members

Surname		*Name*	*Euraxess Profile*
AGUADO	ORIHUELA	GEMA	R1
AGUILAR	CABALLERO	IKER	R1
ALONSO	MARTINEZ	NOELIA	R1
ALONSO	LEDESMA	ISABEL	R1
ALVA	BIANCHI	MANUEL	R1
ALVAREZ	ALVAREZ	ROSA MARIA	R3
ÁLVAREZ	CASTILLO	ENRIQUE LUIS	R1
APARICIO	SALCEDO	INMACULADA	R1
ARIAS	GARCIA	AINHOA	R1
ARRANZ	ARIJA	JOSE ÁNGEL	R3
ARREGUI	VALLES	MARTA	R1
AYLLON	GARCIA	CAROLINA	R1
BERNAT	GOMEZ	REBECA	R1
BLANCO	VELILLA	ALBA	R1
BLANCO	CODESIDO	MONSERRAT	R2
BRINGAS	BERANEK	MARIANELA	R1
BUENO	ZAMORA	OSCAR	R1
CALLES	BLANCO	ANTONIO	R1
CALVO	FERRÁNDIZ	PILAR AITANA	R2
CANTERO	MARTIN	MARTA	R1
CAÑETE	GAMEZ	MARIA ISABEL	R1

Surname		Name	Euraxess Profile
CEBOLLERO	PRESMANES	MARÍA	R2
CIUDAD	BABIANO	FRANCISCO	R1
DE TOMÁS	PALACIOS	JORGE	R2
DEL BARRIO	VAN WECHEM	ELISA	R1
DEL MONTE	MILLAN	MARIA	R1
DELGADO	SALAS	GUADALUPE	R1
DELGADO	ORDOÑEZ	SONIA	R1
ECHAVARRIA	DIAZ-GUARDAMINO	ISABEL	R2
ESCOBAR	ALVAREZ	YOLANDA	R1
ESTEBAN	ARRANZ	MAGDALENA	R1
FERNANDEZ	GONZALEZ	SARA	R1
FLORES	SANCHEZ	CARMEN	R1
FLOREZ	PEÑASCO	SANDRA	R1
FOX	ANZORENA	BARBARA	R1
GALINDO	BARREALES	FERNANDO	R1
GALLEGO	GALLEGO	MARIA IRIA	R1
GARCIA	LABORDA	ELSA	R1
GARCIA	PARDO DE SANTAYANA	MIGUEL ANGEL	R1
GARCIA	HIDALGO	MARIA ELENA	R1
GARCIA	MALDONADO	ANA	R1
GARCÍA	ALFONSO	Mª PILAR	R3
GAYARRE	NAVARRO	JAVIER	R2
GONZALEZ	BLAZQUEZ	Mª VICTORIA	na
GONZALEZ DEL VAL	SUBIRATS	RICARDO	R2
GRAS	PERAL	INMACULADA CONCEPCION	R1
GUTIERREZ	ALONSO	NATALIA	R1
HERENCIA	PUENTE	MIREN	R1
ILAS		CLAUDIA RENATA	R1
IRUELA	DE PEDRO	MARIA ENCARNACION	R1
JEREZ	GILARRANZ	YOLANDA	R2
JIMENEZ	VICENTE	MERCEDES	R1
KHOSRAVI	SHAHI	PARHAM	R2
LLORCA	ESCRIVA	MIREIA	R1
LOBATO	VIDAL	NEREA	R1
LOPEZ	JUAREZ	ESTELA	R1
LOPEZ	LOPEZ	CRISTINA	R1
LOPEZ	JIMENEZ	CARLOS	R1
LÓPEZ-TARRUELLA	COBO	SARA	R2
LUQUE	MOLINA	MARIA SOLEDAD	R2
MARQUEZ	RODAS	IVAN	R2
MARTIN	ALONSO	ALHELIES	R1
MARTIN	JIMENEZ	MIGUEL	R4
MARTINEZ	PEREZ	MONICA	R1
MARTINEZ	DELFRADE	IÑIGO	R1
MASSARRAH	SANCHEZ	TATIANA	R1

Surname		Name	Euraxess Profile
MORON	GARCIA	BLANCA ISABEL	R1
MUÑANA	VILLAR	ALBERTO	R1
MUÑOZ	MARTÍN	ANDRES	R2
OCAÑA	TORRES	INMACULADA	R1
OLCOZ	MONREAL	FRANCISCO JAVIER	R1
ORTEGA	MORAN	LAURA	R1
PALOMERO	PLAZA	MARIA ISABEL	R1
PARRA	HERNANDEZ	IRENE	R1
PEÑA	VIDAL	NURIA	na
PEREZ	RAMIREZ	SARA	R2
PEREZ	DE LA FUENTE	INES	R1
PEREZ	MONTIJANO	MARTA	R1
PICORNELL	COMPANY	ANTONIO CLEMENTE	R2
PUENTE	VAZQUEZ	BEATRIZ	R1
RAMOS	MEDINA	ROCIO	R2
RANZ	HERRANZ	MARIA ISABEL	R1
REINOSO	KUKLINSKI	SILVIA	R1
RINCÓN	OLBÉS	PATRICIA	R1
RODRIGUEZ	VILLAR	CRISTINA	R1
ROMERO	PICAZO	PAULA	R1
RUIZ	BOLAÑOS	ANA BELEN	R1
SABIN	DOMINGUEZ	MARÍA PILAR	R2
SANCHEZ	HERRERO	ROSA MARIA	R1
SÁNCHEZ	CUESTA	MªTERESA	na
SANDOVAL	GARCÍA	CARMEN	R1
SOTO	ALSAR	JAVIER	R1
TALEGON	GARCIA	MARIA DEL PILAR	R1
TIRADO	ANULA	VICTORIA CLARA	R1
TORO	CARMENA	MARIA DE	R1
TORRES	PEREZ-SOLERO	GABRIELA	R1
TORVISCO	NAJARRO	JOSE MARIA	R1
VARGAS	SANCHEZ	AROA	R1
VIOQUE	MUÑOZ	LUCIA	na
ZAZO	LEON	MARIA TERESA	R1

Research Projects – Competitive Calls

TITLE: **Predictores genómicos de respuesta a la quimioterapia neoadyuvante docetaxel-carboplatino en pacientes con cancer de mama triple negativo** PI12/02684
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 13/12/2018

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: **Predicción de la respuesta completa patológica tras tratamiento neoadyuvante mediante biopsia por radiofrecuencia robotizada en el cancer de mama estadios II-III UICC**. FS12/04
DIRECTOR: MARTIN JIMENEZ, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SALUD 2000
START DATE: 05/07/2013
END DATE: 20/09/2018

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

TITLE: **Young employement Contract."Implementación de tecnologías de NGS en el pronóstico clínico del subtipo de cáncer de mama triple**. PEJ-2014-P-01124
DIRECTOR: MUÑOZ MARTÍN, ANDRES
PROJECT TYPE: Human resources
FUNDING BODY: MICINN/MINECO
START DATE: 01/01/2016
END DATE: 18/09/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
RETICS	Redes Temáticas de Investigación Cooperativa en Salud en el área de Cáncer. RD12/0036/0076	Collaborating group
CIBER	CIBERONC CB16/12/00471	Collaborating group

Patents and intellectual property registrations

Patents

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

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

Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Master's thesis	**Paula Romero**	Caracterización ex-vivo de las subpoblaciones de células tumorales circulantes presentes en pacientes con cáncer de mama metastásico.	Miguel Martín Jiménez y Rocío Ramos	UCM	June 26th 2018
Master's thesis	**Beatriz González Sanz**	Perfil de toxicidad emética de la quimioterapia intravenosa actual en cáncer de mama.	Miguel Martín Jiménez Sara López-Tarruella Cobo.	UCM	September 25th 2018

Clinical Practice Guidelines

Year	Authors	Title	Journal / Reference
2017	Muñoz Martín AJ, Adeva J, Martínez-Galán J, Reina JJ, Hidalgo M.	**Pancreatic ductal adenocarcinoma: metastatic disease.**	Clin Transl Oncol. 2017 Jun 16. doi: 10.1007/s12094-017-1690-6. [Epub ahead of print] Review. Pmid: 28623515
2017	Jimenez-Fonseca P, Carmona-Bayonas A, Calderon C, Fontcuberta Boj J, Font C, Lecumberri R, Monreal M, Muñoz Martín AJ, Otero R, Rubio A, Ruiz-Artacho P, Suarez Fernández C, Colome E, Pérez Segura P.	**FOTROCAN Delphi consensus statement regarding the prevention and treatment of cancer-associated thrombosis in areas of uncertainty and low quality of evidence.**	Clin Transl Oncol. 2017 Feb 27. doi: 10.1007/s12094-017-1632-3. [Epub ahead of print] pmid: 28243988
2018	Garrido P., Aldaz A., Calleja MA, De Alava E., Lamas MJ, Martín M, Matías Guiu X, Palacios J, Vera R.	**Proposal for the creation of a national strategy for precisión medicine in cancer: a position statement of SEOM, SEAP,and SEFH**	Farm. Hosp. 2017 Nov 1;41(6):688-691
2018	Carla Blanco Vidal, Andrés Muñoz Martín, Juan Pedro Justel Pérez, María Ángeles Nieto Díez, Javier Castellanos Martínez, Miguel Martín Jiménez y Begoña Berriatua Ena.	**"COLANGIOCARCINOMA".**	Guías clínicas. Fisterra.com 15/05/2018. Editada por: Elsevier, S.L.U. (https://www.fisterra.com/guias-clinicas/colangiocarcinoma/)
2018	Cassinello, J; Arranz, JA; Piulats, JM; Sanchez, A; Perez-Valderrama, B; Mellado, B; Climent, MA; Olmos, D; Carles, J; Lazaro, M	**SEOM clinical guidelines for the treatment of metastatic prostate cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):57-68. doi: 10.1007/s12094-017-1783-2. Epub 2017 Nov 13. Erratum in: Clin Transl Oncol. 2018 Jan 5;:.
2018	Cassinello J; Arranz JA; Piulats JM; Sanchez A; Perez-Valderrama B; Mellado B; Climent MA; Olmos D; Carles J; Lazaro M	**Correction to: SEOM clinical guidelines for the treatment of metastatic prostate cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):110-111. doi: 10.1007/s12094-017-1823-y.
2018	Berrocal, A; Arance, A; Castellon, VE; de la Cruz, L; Espinosa, E; Cao, MG; Larriba, JLG; Marquez-Rodas, I; Soria, A; Algarra, SM	**SEOM clinical guideline for the management of malignant melanoma (2017).**	Clin Transl Oncol. 2018 Jan;20(1):69-74. doi: 10.1007/s12094-017-1768-1. Epub 2017 Nov 7.
2018	Docampo, LCI; Arrula, VA; Rotllan, NB; Maseda, AC; Cirauqui, BC; Escobar, Y; Sorrosal, JJL; Borgonon, MP; Rueda, A; Hernandez, JJC	**SEOM clinical guidelines for the treatment of head and neck cancer (2017).**	Clin Transl Oncol. 2018 Jan;20(1):75-83. doi: 10.1007/s12094-017-1776-1. Epub 2017 Nov 20.

Publications *Total Impact Factor: **588.6***

	Nº	IF
Own publications	15	108.9
Joint publications	50	479.7
First decile publications	23	455.4
First quartile publications	35	518.3
Second quartile publications	13	41.4
Third quartile publications	11	27.0
Fourth quartile publications	1	1.9
Nonindexed publications / No IF	5	-
Total publications (incluging those without IF)	**65**	**588.6**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Turner, NC; Finn, RS; Martin, M; Im, SA; DeMichele, A; Ettl, J; Dieras, V; Moulder, S; Lipatov, O; Colleoni, M; Cristofanilli, M; Lu, DR; Mori, A; Giorgetti, C; Iyer, S; Bartlett, CH; Gelmon, KA. Clinical considerations of the role of palbociclib in the management of advanced breast cancer patients with and without visceral metastases. ANNALS OF ONCOLOGY. 2018; 29(3) 669-680. FI: 14,196. Cuartil: 1. (Article).*
- *Ettl, J; Quek, RGW; Lee, KH; Rugo, HS; Hurvitz, S; Goncalves, A; Fehrenbacher, L; Yerushalmi, R; Mina, LA; Martin, M; Roche, H; Im, YH; Markova, D; Bhattacharyya, H; Hannah, AL; Eiermann, W; Blum, JL; Litton, JK. Quality of life with talazoparib versus physician's choice of chemotherapy in patients with advanced breast cancer and germline BRCA1/2 mutation: patient-reported outcomes from the EMBRACA phase III trial. ANNALS OF ONCOLOGY. 2018; 29(9) 1939-1947. FI: 14,196. Cuartil: 1. (Article).*
- *Martin, M; Campone, M; Bondarenko, I; Sakaeva, D; Krishnamurthy, S; Roman, L; Lebedeva, L; Vedovato, JC; Aapro, M. Randomised phase III trial of vinflunine plus capecitabine versus capecitabine alone in patients with advanced breast cancer previously treated with an anthracycline and resistant to taxane. ANNALS OF ONCOLOGY. 2018; 29(5) 1195-1202. FI: 14,196. Cuartil: 1. (Article).*
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- *Abad, A; Martinez-Balibrea, E; Vieitez, JM; Alonso-Orduna, V; Alfonso, PG; Manzano, JL; Massuti, B; Benavides, M; Carrato, A; Zanui, M; Gallego, J; Gravalos, C; Conde, V; Provencio, M; Valladares-Ayerbes, M; Salazar, R; Sastre, J; Montagut, C; Rivera, F; Aranda, E. Genotype-based selection of treatment of patients with advanced colorectal cancer (SETICC): a pharmacogenetic-based randomized phase II trial. ANNALS OF ONCOLOGY. 2018; 29(2) 439-444. FI: 14,196. Cuartil: 1. (Article).*
- *Calin, A; Martin, M; Lopez-Tarruella, S. Simulation modeling approaches to answer clinically relevant questions in breast cancer low-risk populations. Annals of Translational Medicine. 2018; 6(Suppl 1) -. FI: 3,689. Cuartil: 2. (Editorial Material).*
- *Alfonso, PG; Podesta, MC; Martin, AM; Codeisido, MB; Calvo A; Peligros I; Corcuera A; Blanco, ABR; Custodio-Cabello S; Trabada, DL; Martin M; DE Ramon E. Chemotherapy Plus Bevacizumab as Neoadjuvant or Conversion Treatment in Patients with Colorectal Liver Metastases. ANTICANCER RESEARCH. 2018; 38(5) 3069-3077. FI: 1,935. Cuartil: 4. (Article).*
- *Fernandez, A; Salgado, M; Garcia, A; Buxo, E; Vera, R; Adeva, J; Jimenez-Fonseca, P; Quintero, G; Llorca, C; Canabate, M; Lopez, LJ; Munoz, A; Ramirez, P; Gonzalez, P; Lopez, C; Reboredo, M; Gallardo, E; Sanchez-Canovas, M; Gallego, J; Guillen, C; Ruiz-Miravet, N; Navarro-Perez, V; De la Camara, J; Ales-Diaz, I; Pazo-Cid, RA; Carmona-Bayonas, A. Prognostic factors for survival with nab-paclitaxel plus gemcitabine in metastatic pancreatic cancer in real-life practice: the ANICE-PaC study. BMC CANCER. 2018; 18(1) 1185-1185. FI: 2,933. Cuartil: 3. (Article).*
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- *Garrido, P; Aldaz, A; Vera, R; Calleja, MA; de Alava, E; Martin, M; Matias-Guiu, X; Palacios, J. Proposal for the creation of a national strategy for precision medicine in cancer: a position statement of SEOM, SEAP, and SEFH. CLINICAL & TRANSLATIONAL ONCOLOGY. 2018; 20(4) 443-447. FI: 2,441. Cuartil: 3. (Article).*
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- *Mountzios, G; Calles, A; Addeo, A. Atezolizumab Treatment of Nonsquamous NSCLC. NEW ENGLAND JOURNAL OF MEDICINE. 2018; 379(12) 1187-1187. FI: 70,67. Cuartil: 1. (Letter).*

Other publications

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- *Santonja A; Sanchez-Munoz A; Lluch A; Chica-Parrado MR; Albanell J; Chacon JI; Antolin S; Jerez JM; de la Haba J; de Luque V; Fernandez-De Sousa CE; Vicioso L; Plata Y; Ramirez-Tortosa CL; Alvarez M; Llacer C; Zarcos-Pedrinaci I; Carrasco E; Caballero R; Martin M; Alba E. Triple negative breast cancer subtypes and pathologic complete response rate to neoadjuvant chemotherapy. Oncotarget. 2018; 9(41) 26406-26416. (Article).*

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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)
Line 2. **Adjuvant therapy in pediatric hematology-oncology**.
Line 3. **Fanconi anemia**.
Line 4. **Solid tumors in children**.
Line 5. **Leukemia in children.**

Group members

Surname		Name	Euraxess Profile
ANDRÉS	ZAYAS	CRISTINA	R1
ANGUITA	VELASCO	JAVIER	R3
BAILEN	ALMOROX	REBECA	R1
BALSALOBRE	LOPEZ	PASCUAL	R3
BASTOS	OREIRO	MARIANA BEATRIZ	R2
BARDÓN	CANCHO	EDUARDO	R1
BELENDEZ	BIELER	CRISTINA	R3
BÉLIZ	MENDIOLA	CRISTINA	Others
BORREGO	VILLEGAS	LAURA	CT Coordinator
BUÑO	BORDE	ISMAEL	R4
CARBONELL	MUÑOZ	DIEGO	R1
CELA	DE JULIAN	ELENA	R3
CHICANO	LAVILLA	MARIA	R2
DIEZ	MARTIN	JOSE LUIS	R4
DORADO	HERRERO	NIEVES	R1
ENCINAS	RODRIGUEZ	CRISTINA	R1
FONT	LOPEZ	PATRICIA	R2
GARCIA	GARCIA	ANA MARIA	CT Coordinator
GARCIA	MORIN	MARINA	R1
GARRIDO	COLINO	CARMEN	R2
HERNANDEZ	MARTIN	MARTA	CT Coordinator
HUERTA	ARAGONES	JORGE	R1
KWON		MI	R3
MARTINEZ	LAPERCHE	CAROLINA	R3
MATA	FERNÁNDEZ	CRISTINA	R3
MEDIN	DE BLOCK	HILDA GABRIELA	Support Technician
MENARGUEZ	PALANCA	FRANCISCO JAVIER	R3
MONSALVO	SAORNIL	SILVIA	R1
MUÑIZ	SEVILLA	PAULA	R1
MUÑOZ	MARTÍNEZ	CRISTINA	CT Coordinator
OARBEASCOA	ROYUELA	GUILLÉN	R1
OSORIO	PRENDES	SANTIAGO	R3
PASCUAL	IZQUIERDO	CRISTINA	R2
PÉREZ	BALSERA	GONZALO	R1
PÉREZ	CORRAL	ANA	R2
PRIETO	MEDINA	MARIA DEL MAR	R2
SUÁREZ	GONZÁLEZ	JULIA	R1
ZAMARRO	ARRANZ	ROSARIO	R1

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: 31/12/2018

TITLE: **Valor pronóstico de un perfil genómico de riesgo para el tratamiento personalizado de complicaciones en pacientes sometidos a trasplante alogénico de progenitores hematopoyéticos**. PI14/01731
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

TITLE: **Papel de la senescencia en la actividad inmunorreguladora de las células madre mesenquimales humanas**. PLE2009/0112
DIRECTOR: DÍEZ MARTÍN, JOSÉ LUÍS
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/11/2009
END DATE: 21/09/2018

TITLE: **Hacia la curación de la leucemia aguda mediante medicina personalizada basada en terapia celular alogénica**. FMM15/04
DIRECTOR: DÍEZ MARTÍN, JOSÉ LUÍS
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 05/03/2015
END DATE: 05/03/2018

TITLE: **Estudio de la alorreactidad kir en el trasplante haploidéntico: valoración integral para la elección del mejor donante**. FMM13/28
DIRECTOR: ANGUITA VELASCO, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/07/2013
END DATE: 21/09/2018

TITLE: **Cuantificación de las células madre mesenquimales autólogas infundidas en el tratamiento de pacientes diagnósticos de necrosis vascular de la cabeza del fémur**. FMAP12/06
DIRECTOR: SERRANO SIMONNEAU, DAVID
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MAPFRE
START DATE: 01/03/2013
END DATE: 31/12/2018

TITLE: **Detección de mutaciones en el dominio ABL cinasa mediante secuenciación masiva profunda en pacientes LMC y LLA Ph positivos**. IB1
DIRECTOR: MARTÍNEZ LAPERCHE, CAROLINA / BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY:
START DATE: 01/01/2016
END DATE: 31/12/2018

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: **Young employement Contract: Tecnico Laboratorio.** PEJ15/BIO/TL-0592
DIRECTOR: PACHECO AGUADO, ANA Mª
PROJECT TYPE: Research project
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

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

Patents and intellectual property registrations

Patent

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

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

Year	Authors	Title	Journal / Reference
13/07/2018	Miralles P, Navarro JT, Berenguer J, Gómez Codina J, Kwon M, Serrano D, Díez-Martín JL, Villà S, Rubio	**GESIDA/PETHEMA recommendations on the diagnosis and treatment of lymphomas in patients infected by the human immunodeficiency virus**	Medicina Clinica

Year	Authors	Title	Journal / Reference
	R, Menárguez J, Ribera Santasusana JM.		

Doctoral theses, Bachelor thesis and Master's thesis

TYPE	CANDIDATE	TITLE	Name/S DIRECTOR/S	UNIVERSITY	DATE DEFENDED
Ph Thesis	**María Chicano Lavilla**	Estudio de metilación en los genes cdh1, p15, p16 y bik en pacientes afectos de mieloma múltiple	Maria Rosa Caballín Fernández Yolanda Álvarez Cobo	UAB	July 24th 2017

Publications

Total Impact Factor: **116.4**

	Nº	IF
Own publications	5	38.6
Joint publications	18	77.7
First decile publications	5	54.3
First quartile publications	13	93.5
Second quartile publications	3	10.3
Third quartile publications	6	12.5
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**23**	**116.4**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Osorio, S; Escudero-Vilaplana, V; Gomez-Centurion, I; Perez-Lopez, R; Ayala, R; Vall-Llovera, F; Garcia-Gutierrez, V; Casares, MTG; Miguel, JDGS; Hernandez-Rivas, JA; Sanchez-Guijo, F; Martinez-Garcia, AB; Villalon, L; Conesa-Garcia, V; Rodriguez, A; Casado, F; Garcia-Gonzalez, X; Perdomo, MNS; Banos, U; Steegmann, JL; CML Spanish Grp GELMC. *Drug-to-drug interactions of tyrosine kinase inhibitors in chronic myeloid leukemia patients. Is it a real problem?*. ANNALS OF HEMATOLOGY. 2018; 97(11) 2089-2098. FI: 2,85. Cuartil: 3. (Article).

- Santos, N; Rodriguez-Romanos, R; de la Camara, R; Brunet, S; Nieto, JB; Buno, I; Martinez, C; Jimenez-Velasco, A; Vallejo, C; Gonzalez, M; Solano, C; Ferra, C; Sampol, A; Perez-Simon, JA; Lopez-Jimenez, J; Diez, JL; Gallardo, D; Spanish Grp Hematopoietic. *PD-1 genotype of the donor is associated with acute graft-versus-host disease after HLA-identical sibling donor stem cell transplantation.* ANNALS OF HEMATOLOGY. 2018; 97(11) 2217-2224. FI: 2,85. Cuartil: 3. (Article).

- Salgado, M; Kwon, M; Galvez, C; Badiola, J; Nijhuis, M; Bandera, A; Balsalobre, P; Miralles, P; Buno, I; Martinez-Laperche, C; Vilaplana, C; Jurado, M; Clotet, B; Wensing, A; Martinez-Picado, J; Diez-Martin, JL; IciStem Consortium. *Mechanisms That Contribute to a Profound Reduction of the HIV-1 Reservoir After Allogeneic Stem Cell Transplant.* ANNALS OF INTERNAL MEDICINE. 2018; 169(10) 674-683. FI: 19,315. Cuartil: 1. (Article).

- Suarez-Gonzalez, J; Martinez-Laperche, C; Kwon, M; Balsalobre, P; Carbonell, D; Chicano, M; Rodriguez-Macias, G; Serrano, D; Gayoso, J; Diez-Martin, JL; Buno, I. *Donor Cell-Derived Hematologic Neoplasms after Hematopoietic Stem Cell Transplantation: A Systematic Review.* BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION. 2018; 24(7) 1505-1513. FI: 3,599. Cuartil: 2. (Article).

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6.04 Surgical oncology

Group Director: **Luis González- Bayón**
Organisms involved: **HGUGM**
Emerging group

Research lines

Axis1: 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	Role
GONZALEZ	BAYON	LUIS	Senior researcher
LOZANO	LOMINCHAR	PABLO	
PALENCIA	GARCIA	NATIVIDAD	
VASQUEZ	JIMENEZ	WENCESLAO	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

ÁREA 7

Area Coordinator: **Rafael Bañares Cañizares**

SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

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
7.30. Pathophysiology in women, pregnancy, labor, and puerperium
7.31. 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

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: Morbidity, mortality, and cardiovascular risk in dialysis patients
- L1. Prevention of sarcopenia in patients with advanced CKD and in dialysis. Leaders: Dra.Abad, Dra.Vega, Dra.Aragoncillo and Dr. Luño.
- L2. Cardiac arrhythmias and prognosis in patients with advanced CKD and in dialysis. Leaders: Dr.Verde, Dra.Abad and Dra. Vega.
- L3. Clearance of medium molecular weight uremic toxins bound to proteins: HFR
- L4. MRI in dialysis patients. Evaluation of the cerebral effect of intradialysis hypotension episodes. Leades: 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. Tejedor, Dr. Lázaro, Dr. Rodríguez Benítez and Dra. Melero.
- L2. Kidney disorders related to pregnancy
- L3. Acute renal failure and metformin
- L4. Venovenous hemofiltration techniques continue in acute renal failure

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

Axis 7: Morbidity, mortality, and cardiovascular risk in patients with CKD
- L1. CKD

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
- L2. Kidney Transplant Infections

Group members

	Surname	*Name*	*Euraxess Profile*
ABAD	ESTEBANEZ	SORAYA	R1

Surname		Name	Euraxess Profile
ANAYA	FERNANDEZ-LOMANA	FERNANDO	R3
GARCIA DE VINUESA	ROJAS	SOLEDAD	R1
GOICOECHEA	DIEZHANDINO	MARIA ANGELES	R4
GONZALEZ-NICOLAS	GONZALEZ	MARIA ANGELES	Other
LAZARO	FERNANDEZ	ALBERTO	R3
LAZARO	MANERO	JOSE ANTONIO	Other
LÓPEZ	GÓMEZ	JUAN MANUEL	R3
LUÑO	FERNÁNDEZ	JOSÉ	R4
MACÍAS	CARMONA	NICOLÁS	R1
MELERO	MARTIN	ROSA	R1
MOJENA	SÁNCHEZ	MARINA	Other
PÉREZ	DE JOSÉ	ANA MARÍA	R2
RENGEL	ARANDA	MANUEL ANTONIO	R3
RODRÍGUEZ	BENÍTEZ	PATROCINIO	R1
RODRÍGUEZ	FERRERO	MARÍA LUISA	R1
SANCHEZ	CAMARA	LUIS ALBERTO	R1
TEJEDOR	JORGE	ALBERTO	R4
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 asociado al paludismo y limita la propagación del fallo renal séptico**. PI14/01195
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/01/2018

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

Patents and intellectual property registrations

Patents

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

Publications *Total Impact Factor:* ***54.2***

	Nº	IF
Own publications	9	25.2
Joint publications	9	29.0
First decile publications	0	-
First quartile publications	10	43.4
Second quartile publications	1	2.1
Third quartile publications	2	3.0
Fourth quartile publications	4	5.7
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**18**	**54.2**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Lopez-Sanchez A; Perez-Cantero A; Torrado-Salmeron, C; Martin-Vicente, A; Garcia-Herrero, V; Gonzalez-Nicolas, MA; Lazaro, A; Tejedor, A; Torrado-Santiago, S; Garcia-Rodriguez, JJ; Capilla, J; Torrado, S. Efficacy, Biodistribution, and Nephrotoxicity of Experimental Amphotericin B-Deoxycholate Formulations for Pulmonary Aspergillosis. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2018; 62(7) -. FI: 4,715. Cuartil: 1. (Article).*
- *Goicoechea, M; de Vinuesa, SG; Quiroga, B; Verde, E; Bernis, C; Morales, E; Fernandez-Juarez, G; de Sequera, P; Verdalles, U; Delgado, R; Torres, A; Arroyo, D; Abad, S; Ortiz, A; Luno, J. Aspirin for Primary Prevention of Cardiovascular Disease and Renal Disease Progression in Chronic Kidney Disease Patients: a Multicenter Randomized Clinical Trial (AASER Study). CARDIOVASCULAR DRUGS AND THERAPY. 2018; 32(3) 255-263. FI: 4,181. Cuartil: 1. (Article).*
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- *Garcia-Prieto, A; Vega, A; Linares, T; Abad, S; Macias, N; Aragoncillo, I; Torres, E; Hernandez, A; Barbieri, D; Luno, J. Evaluation of the efficacy of a medium cut-off dialyser and comparison with other high-flux dialysers in conventional haemodialysis and online haemodiafiltration. Clinical Kidney Journal. 2018; 11(5) 742-746. FI: 2,975. Cuartil: 1. (Article).*
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- *Vega, A; Abad, S; Aragoncillo, I; Galan, I; Macias, N; Cedeno, S; Santos, A; Garcia, A; Linares, T; Martinez-Villaescusa, M; Lopez-Gomez, JM. Comparison of urea recirculation and thermodilution for monitoring of vascular access in patients undergoing hemodialysis. JOURNAL OF VASCULAR ACCESS. 2018; 19(3) 283-290. FI: 1,397. Cuartil: 4. (Article).*

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- *Galan, I; Verdalles, U; de Vinuesa, MG; Quiroga, B; Goicoechea, M; Perez, A; Verde, E; Luno, J. Impact of the application of the JNC 8 and KDIGO-2013 guidelines on hypertension and lipid control in a Nephrology outpatient clinic. NEFROLOGIA. 2018; 38(4) 379-385. FI: 1,439. Cuartil: 4. (Article).*
- *Sauco, IA; Ramos, JML; Martinez, AV; Munoz, ALM; Estebanez, SA; Carmona, NM; Chiriboga, DR; Pajares, RG; Bravo, TC; Lopez-Gomez JM; Grossi, SM; Sanchez, EM; Gomez, JR; Prieto, AMG; Gravalos, TL; Boyano, FG; Asensio, LMR; Ramon, MA; Ortiz, PD; Casares, BG; Mencia, JA; Castellano S; Perez, BM; Conty, JLM; Garcia, AS; Fernandez, JL. Vascular access clinic results before and after implementing a multidisciplinary approach adding routine Doppler ultrasound. NEFROLOGIA. 2018; 38(6) 616-621. FI: 1,439. Cuartil: 4. (Article).*
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- *Castillo-Rodriguez, E; Fernandez-Prado, R; Esteras, R; Perez-Gomez, MV; Gracia-Iguacel, C; Fernandez-Fernandez, B; Kanbay, M; Tejedor, A; Lazaro, A; Ruiz-Ortega, M; Gonzalez-Parra, E; Sanz, AB; Ortiz, A; Sanchez-Nino, MD. Impact of Altered Intestinal Microbiota on Chronic Kidney Disease Progression. Toxins. 2018; 10(7) -. FI: 3,895. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Valerio, M; Machado, M; Cedeno, S; Rodriguez, ML; Anaya, F; Vena, A; Guinea, J; Escribano, P; Bouza, E; Munoz, P. Donor-derived invasive aspergillosis after kidney transplant. Medical Mycology Case Reports. 2018; 22 24-26. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Barbieri, D; Garcia-Prieto, A; Verde, E; Goicoechea, M; Luno, J. Atypical haemolytic uremic syndrome: when multiple etiologies meet. INTERNATIONAL UROLOGY AND NEPHROLOGY. 2018; 50(11) 2109-2110. FI: 1,596. Cuartil: 3. (Letter).*
- *Garcia, AS; Vega, LC; Carmona, NM; Gravalos, TL; Ferrero, MR. Unnoticed iron overload leading to irreversible pancreatic damage. NEFROLOGIA. 2018; 38(2) 223-224. FI: 1,439. Cuartil: 4. (Letter).*

7.02 Pathophysiology and natural history of liver and digestive diseases

Group Director: **Rafael Bañares Cañizares**
Organisms involved: **HGUGM**
Consolidated Group

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

Description of the research group

It is a translational, multidisciplinary research group with clinical and basic research lines aimed globally at the knowledge of the natural history and pathophysiology 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 dedicates its efforts to inflammatory bowel disease and to 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 performs a considerable number of phase II-III clinical trials. Among the latest projects, it is worth mentioning the inclusion of the first patients in an H2020 project (ALIVER Project) aimed at the clinical assessment of a new artificial liver support device.
The group also acts as a coordinating group for the EXOHEP-CM program, aimed at the study of cellular communication by exosomes and other extracellular vesicles, granted for the creation of networks between Research Groups of the Community of Madrid in Technology and Biomedicine, and as a group
Responsible for the NanoLiver-CM program aimed at the application of nanotechnology and biomedical imaging in liver disease granted in the call for synergistic R&D projects of the Community of Madrid, both co-financed with ERDF funds and European Social Fund.
The group is part of the CIBER of liver and digestive diseases since its inception.
It also highlights his strong teaching vocation both undergraduate and graduate.

Group members

Surname		Name	Role
AHUMADA		ADRIANA	Precdoctoral
ALONSO	LÓPEZ	SONIA	Postdoctoral
ARANDA		JAVIER	Precdoctoral
ASENSIO	GRACÍA	IRIS	Others
BALAREZO	SALDIVAR	ALEJANDRA ESTEFANIA	Precdoctoral
BAÑARES	CAÑIZARES	RAFAEL	Senior researcher
BLAZQUEZ	LÓPEZ	ELENA	Precdoctoral
BOROBIA	SANCHEZ	RODRIGO	Precdoctoral
CABALLERO	MARCOS	ARANTXA	Precdoctoral
CARBONELL	BLANCO	CARLOS	Precdoctoral
CARRION	MARTIN	LAURA	Precdoctoral
CATALINA	RODRIGUEZ	MARIA DE LA VEGA	Predoctoral
CLAMENTE	SÁNCHEZ	ANA	Others
FERNANDEZ	YUNQUERA	AINHOA	Predoctoral
DE GRACIA	FERNANDEZ	CELIA	Predoctoral
DIAZ	FONTENLA	FERNANDO	Predoctoral
DIAZ	GOMEZ	ARANTXA	Predoctoral
DIAZ	RUIZ	RAQUEL	Predoctoral
FERNANDEZ	YUNQUERA	AINHOA	Predoctoral
FLORES	GARCIA	VIRGINIA	Predoctoral
FRANCO	HERRERA	CAROLINA	Predoctoral
GARCIA	LLEDO	JAVIER	Predoctoral
GARCIA	MARTINEZ	RITA	Juan Rodés
HERNANDO	ALONSO	ANA	Others
IBAÑEZ	SAMANIEGO	LUIS	Rio Hortega
LÓPEZ	CAUCE	BEATRIZ	Others

	Surname	Name	Role
LOPEZ	IBAÑEZ	MARIA	Predoctoral
MARIN	JIMENEZ	IGNACIO	Predoctoral
MARQUEZ	PEREZ	LAURA	Predoctoral
MARTIN	GUERRA	MARIA ROCIO	Predoctoral
MARTINEZ	LOZANO	HELENA	Predoctoral
MARTOS	VIZCAINO	ESPERANZA	Predoctoral
MATILLA	PEÑA	ANA MARÍA	Postdoctoral
MENCHEN	VISO	LUIS ALBERTO	Senior researcher
MERINO	RODRÍGUEZ	BEATRIZ	Predoctoral
MIRANDA	BAUTISTA	JOSE	Predoctoral
NOGALES	RINCON	OSCAR	Predoctoral
PAJARES	DÍAZ	JOSÉ ANTONIO	Predoctoral
PEREZ	CARAZO	LETICIA	Predoctoral
PUERTO	CANTERO	MARTA	Postdoctoral
RINCÓN	RODRÍGUEZ	DIEGO	Postdoctoral
ROMERO	CRISTOBAL	MARIO	Predoctoral
RUBIO	CABALLERO	CARMEN	Predoctoral
RUIZ	MARTIN	CHRISTIAN	Support Technician
SALCEDO	PLAZA	MAGDALENA	Postdoctoral
SECADAS	RINCÓN	LAURA	Predoctoral
SIERRA	ROJAS	JOHANNA	Predoctoral
VAQUERO	MARTIN	JAVIER	Ramón y Cajal
VAZQUEZ	OGANDO	ELENA	Others

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: **Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatologia 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: **Evaluación de la asociación entre el volumen hepático determinado por procedimientos de imagen y acontecimientos clave en la historia natural de la cirrosis. Un enfoque traslacional.** PI15/02037
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
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 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: 31/12/2018

TITLE: **Disfunción de barrera, fibrosis y carcinogénesis asociadas a inflamación crónica en un modelo murino de enterocolitis: análisis mediante imagen y evaluación de un nuevo marcador molecular** PI13/02555
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/12/2018

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: **Cognitive Function and Quality of Live Following HCV Erradication.** GILEAD15-01
DIRECTOR: GARCIA MARTINEZ, RITA
PROJECT TYPE: Research project
FUNDING BODY: GILEAD III FELLOWSHIP
START DATE: 21/01/2016
END DATE: 21/01/2018

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.** CM14/00023
DIRECTOR: IBAÑEZ SAMANIEGO, LUIS
PROJECT TYPE: Human Resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 16/02/2018

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 :Ayudante de investigación.** PEJ16/MED/AI-1104
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Human Resources
FUNDING BODY: CONSEJERIA EDUCACION CULTURA Y DEPORTE.COMUNIDAD DE MADRID
START DATE: 01/01/2017
END DATE: 13/12/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
CIBER	CIBEREHD	Fully fledged group Program Coordinator

Clinical Practice Guidelines

Year	*Authors*	*Title*	*Journal / Reference*
2018	Aller R, Fernández-Rodríguez C, Lo Iacono O, Bañares R, Abad J, Carrión JA, García-Monzón C, Caballería J, Berenguer M, Rodríguez-Perálvarez M, Miranda JL, Vilar-Gómez E, Crespo J,	**Documento de consenso. Manejo de la enfermedad hepática grasa no alcohólica (EHGNA). Guía de práctica clínica**	Gastroenterol Hepatol. 2018; 41:328-349
2018	Albeniz, E; Pellise, M; Gimeno-Garcia, AZ; Lucendo, AJ; Alonso-Aguirre, PA; Herreros-de-Tejada, A; Alvarez, MA; Fraile, M; Herraiz-Bayod, M; Lopez-Roses, L; Martinez-Ares, D; Ono, A; Parra-Blanco, A; Redondo, E; Sanchez-Yague, A; Soto, S; Diaz-Tasende, J; Montes-Diaz, M; Rodriguez-Tellez, M; Garcia, O; Zuniga-Ripa, A; Hernandez-Conde, M; Alberca-de-las-Parras, F; Gargallo, C; Saperas, E; Munoz-Navas, M; Gordillo, J; Ramos-Zabala, F; Echevarria, JM; Bustamante, M; Gonzalez-Haba, M; Gonzalez-Huix, F; Gonzalez-Suarez, B; Vila-Costas, JJ; Guarner-Argente, C; Mugica, F; Cobian, J; Rodriguez-Sanchez, J; Lopez-Viedma, B; Pin, N; Marin-Gabriel, JC; Nogales, O; de-la-Pena, J; Navajas-Leon, FJ; Leon-Brito, H; Remedios, D; Esteban, JM; Barquero, D; Martinez-Cara, JG; Martinez-Alcala, F; Fernandez-Urien, I; Valdivielso, E; Spanish Endoscopic Resection Grp S.	**Clinical guidelines for endoscopic mucosal resection of non-pedunculated colorectal lesions**	Revista española de enfermedades digestivas. 2018; 110(3) 179-194

Publications *Total Impact Factor:* ***99.6***

	Nº	**IF**

Own publications	4	15.6
Joint publications	17	84.1
First decile publications	4	51.6
First quartile publications	9	78.3
Second quartile publications	2	6.1
Third quartile publications	3	5.9
Fourth quartile publications	7	9.3
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**21**	**99.6**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Chaparro, M; Verreth, A; Lobaton, T; Gravito-Soares, E; Julsgaard, M; Savarino, E; Magro, F; Biron, IA; Lopez-Serrano, P; Casanova, MJ; Gompertz, M; Vitor, S; Arroyo, M; Pugliese, D; Zabana, Y; Vicente, R; Aguas, M; Shitrit, ABG; Gutierrez, A; Doherty, GA; Fernandez-Salazar, L; Cadilla, JM; Huguet, JM; O'Toole, A; Stasi, E; Marcos, NM; Villoria, A; Karmiris, K; Rahier, JF; Rodriguez, C; Palomares, MDL; Fiorino, G; Benitez, JM; Principi, M; Naftali, T; Taxonera, C; Mantzaris, G; Sebkova, L; Iade, B; Lissner, D; Bradley, IF; Roman, ALS; Marin-Jimenez, I; Merino, O; Sierra, M; Van Domselaar, M; Caprioli, F; Guerra, I; Peixe, P; Piqueras, M; Rodriguez-Lago, I; Ber, Y; van Hoeve, K; Torres, P; Gravito-Soares, M; Rudbeck-Resdal, D; Bartolo, O; Peixoto, A; Martin, G; Armuzzi, A; Garre, A; Donday, MG; de Carpi, FJM; Gisbert, JP. Long-Term Safety of In Utero Exposure to Anti-TNFalpha Drugs for the Treatment of Inflammatory Bowel Disease: Results from the Multicenter European TEDDY Study. AMERICAN JOURNAL OF GASTROENTEROLOGY. 2018; 113(3) 396-403. FI: 10,241. Cuartil: 1. (Article).*

- *Manzardo, C; Londono, MC; Castells, L; Testillano, M; Montero, JL; Penafiel, J; Subirana, M; Moreno, A; Aguilera, V; Gonzalez-Dieguez, ML; Calvo-Pulido, J; Xiol, X; Salcedo, M; Cuervas-Mons, V; Sousa, JM; Suarez, F; Serrano, T; Herrero, JI; Jimenez, M; Fernandez, JR; Gimenez, C; del Campo, S; Esteban-Mur, JI; Crespo, G; Moreno, A; de la Rosa, G; Rimola, A; Miro, JM; FIPSE LT-HIV Investigators. Direct-acting antivirals are effective and safe in HCV/HIV-coinfected liver transplant recipients who experience recurrence of hepatitis C: A prospective nationwide cohort study. AMERICAN JOURNAL OF TRANSPLANTATION. 2018; 18(10) 2513-2522. FI: 7,163. Cuartil: 1. (Article).*

- *Perez-Latorre L; Sanchez-Conde M; Miralles P; Lopez JC; Parras F; Tejerina F; Aldamiz-Echevarria T; Carrero A; Diez C; Ramirez M; Gutierrez I; Bellon JM; Banares R; Berenguer J. Prognostic value of liver stiffness in HIV/HCV-Coinfected patients with decompensated cirrhosis. BMC INFECTIOUS DISEASES. 2018; 18(1) 170-170. FI: 2,565. Cuartil: 3. (Article).*

- *Aller R; Fernandez-Rodriguez C; Lo Iacono O; Banares R; Abad J; Carrion JA; Garcia-Monzon C; Caballeria J; Berenguer M; Rodriguez-Peralvarez M; Miranda JL; Vilar-Gomez E; Crespo J; Garcia-Cortes M; Reig M; Navarro JM; Gallego R; Genesca J; Arias-Loste, MT; Pareja, MJ; Albillos, A; Muntane, J; Jorquera, F; Sola, E; Hernandez-Guerra, M; Rojo, MA; Salmeron, J; Caballeria, L; Diago, M; Molina, E; Bataller, R; Romero-Gomez, M. Consensus document. Management of non-alcoholic fatty liver disease (NAFLD). Clinical practice guideline. Gastroenterologia y Hepatologia. 2018; 41(5) 328-349. FI: 1,126. Cuartil: 4. (Review).*

- *Albeniz, E; Pellise, M; Garcia, AZG; Lucendo, AJ; Aguirre, PAA; de Tejada, AH; Alvarez, MA; Fraile, M; Bayod, MH; Roses, LL; Ares, DM; Ono, A; Blanco, AP; Redondo, E; Yague, AS; Soto, S; Tasende, JD; Diaz, MM; Tellez, MR; Garcia, O; Ripa, AZ; Conde, MH; de las Parras, FA; Gargallo, C; Saperas, E; Navas, MM; Gordillo, J; Zabala, FR; Echevarria, JM; Bustamante, M; Haba, MG; Huix, FG; Suarez, BG; Costas, JJV; Argente, CG; Mugica, F; Cobian, J; Sanchez, JR; Viedma, BL; Pin, N; Gabriel, JCM; Nogales, O; de la Pena, J; Leon, FJN; Brito, HL; Remedios, D; Esteban, JM; Barquero, D; Cara, JGM; Alcala, FM; Urien, IF; Valdivielso, E; Nombre Grp Espanol Reseccion Endos. Clinical guidelines for endoscopic mucosal resection of non-pedunculated colorectal lesions. Gastroenterologia y Hepatologia. 2018; 41(3) 175-190. FI: 1,126. Cuartil: 4. (Article).*

- *Barreiro-de Acosta, M; Marin-Jimenez, I; Panadero, A; Guardiola, J; Canas, M; Montoya, MG; Modino, Y; Alcain, G; Bosca-Watts, MM; Calvet, X; Casellas, F; Chaparro, M; Salazar, LF; Ferreiro-Iglesias, R; Ginard, D; Iborra, M; Mancenido, N; Manosa, M; Merino, O; Rivero, M; Roncero, O; Sempere, L; Vega, P; Zabana, Y; Minguez, M; Nos, P; Gisbert, JP. Recommendations of the Spanish Working Group on Crohn's Disease and Ulcerative Colitis (GETECCU) and the Association of Crohn's Disease and Ulcerative Colitis Patients (ACCU) in the management of psychological problems in Inflammatory Bowel Disease patients. Gastroenterologia y Hepatologia. 2018; 41(2) 118-127. FI: 1,126. Cuartil: 4. (Article).*

- *Lopez-Sanroman, A; Clofent, J; Garcia-Planella, E; Menchen, L; Nos, P; Rodriguez-Lago, I; Domenech, E. Reviewing the therapeutic role of budesonide in Crohn's disease. Gastroenterologia y Hepatologia. 2018; 41(7) 458-471. FI: 1,126. Cuartil: 4. (Article).*

- *Gobbo, M; Carmona, L; Panadero, A; Canas, M; Modino, Y; Romero, C; Guardiola, J; Marin-Jimenez, I; Barreiro-de Acosta, M. The psychosocial impact of inflammatory bowel disease and its management. From the patients' perspective. Gastroenterologia y Hepatologia. 2018; 41(10) 640-642. FI: 1,126. Cuartil: 4. (Article).*

- *Simon-Talero, M; Roccarina, D; Martinez, J; Lampichler, K; Baiges, A; Low, G; Llop, E; Praktiknjo, M; Maurer, MH; Zipprich, A; Triolo, M; Vangrinsven, G; Garcia-Martinez, R; Dam, A; Majumdar, A; Picon, C; Toth, D; Darnell, A; Abraldes, JG; Lopez, M; Kukuk, G; Krag, A; Banares, R; Laleman, W; La Mura, V; Ripoll, C; Berzigotti, A; Trebicka, J; Calleja, JL; Tandon, P; Hernandez-Gea, V; Reiberger, T; Albillos, A; Tsochatzis, EA; Augustin, S; Genesca, J; Baveno VI-SPSS Grp Baveno Cooper. Association Between Portosystemic Shunts and Increased Complications and Mortality in Patients With Cirrhosis. GASTROENTEROLOGY. 2018; 154(6) 1694-. FI: 19,233. Cuartil: 1. (Article).*

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Other publications

- *Marin-Jimenez I; Saro C; Diaz V; Acosta MB; Gomez-Garcia M; Casbas AG. Epidemiology and hospital resources use in the treatment of ulcerative colitis at gastroenterology units in Spain (EPICURE study). Drugs in Context. 2018; 7 212505-212505. (Article).*
- *Aller R; Fernandez-Rodriguez C; Lo Iacono O; Banares R; Abad J; Carrion JA; Garcia-Monzon C; Caballeria J; Berenguer M; Rodriguez-Peralvarez M; Lopez Miranda J; Vilar-Gomez E; Crespo J; Garcia-Cortes M; Reig M; Navarro JM; Gallego-Duran R; Genesca J; Aria. Erratum to <<Consensus document. Management of non-alcoholic fatty liver disease (NAFLD). Clinical practice guideline>> [Gastroenterol Hepatol. 2018;41(5):328-349]. Gastroenterologia y Hepatologia. 2018; 41(7) 475-476. FI: 1,126. Cuartil: 4. (Correction).*
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7.04 Diseases of the critically ill child

Group Director: **Jesús López-Herce Cid**
Organisms involved: **HGUGM**
Consolidated Group

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

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*]).

Group members

Surname		Name	Role
BUSTINZA	ARRIORTUA	AMAYA	Predoctoral
BUTRAGUEÑO	LAISECA	LAURA	Predoctoral

Surname		Name	Role
CARRILLO	ALVAREZ	ANGEL	Postdoctoral
DEL CASTILLO	PERAL	JIMENA	Predoctoral
FERNANDEZ	LAFEVER	SARAH	Río Hortega
GARCÍA	SAN PRUDENCIO	MIRIAM	Predoctoral
GONZALEZ	CORTES	RAFAEL	Río Hortega
LOPEZ	GONZALEZ	JORGE	Predoctoral
LOPEZ-HERCE	CID	JESUS	Senior Researcher
MANRIQUE	MARTÍN	GEMA	Predoctoral
MENCÍA	BARTOLOMÉ	SANTIAGO	Postdoctoral
SANCHEZ	SANCHEZ	CESAR	Postdoctoral
SÁNCHEZ	GALINDO	AMELIA	Predoctoral
SANTIAGO	LOZANO	MARÍA JOSÉ	Postdoctoral
SLOCKER	BARRIO	MARÍA	Predoctoral
SOLANA	GARCÍA	MARÍA JOSÉ	Postdoctoral
URBANO	VILLAESCUSA	JAVIER	Postdoctoral

Research Projects – Competitive Calls

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: **Juan Rodés Contract**. JR15/00038
DIRECTOR: SOLANA GARCÍA, MARÍA JOSÉ
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

TITLE: **Río Hortega Contract.** CM15/00140
DIRECTOR: FERNANDEZ LAFEVER, SARAH NICOLE
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2016
END DATE: 31/12/2018

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

Patents and intellectual property registrations

Patent

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

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

Publications *Total Impact Factor: **40.5***

	Nº	IF
Own publications	6	14.1
Joint publications	5	26.4
First decile publications	2	23.5
First quartile publications	4	29.1
Second quartile publications	3	7.2
Third quartile publications	1	2.0
Fourth quartile publications	2	2.2
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**11**	**40.5**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *de la Red, YA; Martin, GM; Marquez, GG; Herrero, CG; Lopez, PV; Navarro, CM. Assessment of orofacial pain management in a pediatric emergency department and at home after discharge. Archivos Argentinos de Pediatria. 2018; 116(1) 28-34. FI: 0,506. Cuartil: 4. (Article).*
- *Lafever, SNF; Santiago, MJ; Lopez, J; Gonzalez, R; Solana, MJ; Urbano, J; Lopez-Herce, J. Hemodynamic Effects of Connection to Continuous Renal Replacement Therapy in a Pediatric Animal Model. ARTIFICIAL ORGANS. 2018; 42(6) 640-646. FI: 2,379. Cuartil: 2. (Article).*
- *Fabra, C; Infante, S; Miras, I; Pretus, S; Santiago, MJ; Fernandez, SN; Lopez-Herce, J. Hematologic Disorders in Children with Continuous Renal Replacement Therapies. ASAIO JOURNAL. 2018; 64(3) 375-381. FI: 2,494. Cuartil: 2. (Article).*

- *Santiago-Lozano, MJ; Barquin-Conde, ML; Fuentes-Moreno, L; Leon-Vela, RM; Madrid-Vazquez, L; Sanchez-Galindo, A; Cid, JLH. Infectious complications in paediatric patients treated with extracorporeal membrane oxygenation. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2018; 36(9) 563-567. FI: 1,685. Cuartil: 4. (Article).*
- *Puerta Y; Garcia M; Heras E; Lopez-Herce J; Fernandez SN; Mencia S; Sleep Study Group. Corrigendum: Sleep Characteristics of the Staff Working in a Pediatric Intensive Care Unit Based on a Survey. Frontiers In Pediatrics. 2018; 6 287-287. FI: 2,349. Cuartil: 2. (Article).*
- *Oulego-Erroz, I; Gonzalez-Cortes, R; Garcia-Soler, P; Balaguer-Gargallo, M; Frias-Perez, M; Mayordomo-Colunga, J; Llorente-de-la-Fuente, A; Santos-Herraiz, P; Menendez-Suso, JJ; Sanchez-Porras, M; Palanca-Arias, D; Clavero-Rubio, C; Holanda-Pena, MS; Renter-Valdovinos, L; Fernandez-De-Miguel, S; Rodriguez-Nunez, A; RECANVA Collaborative Study. Ultrasound-guided or landmark techniques for central venous catheter placement in critically ill children. INTENSIVE CARE MEDICINE. 2018; 44(1) 61-72. FI: 18,967. Cuartil: 1. (Article).*
- *Lopez-Herce, J; Alvarez, AC. Guidelines of admission, discharge and organization of the pediatric intensive care. Medicina Intensiva. 2018; 42(4) 203-204. FI: 1,982. Cuartil: 3. (Editorial Material).*
- *Lopez-Herce, J; Almonte, E; Alvarado, M; Bogado, NB; Cyunel, M; Escalante, R; Finardi, C; Guzman, G; Jaramillo-Bustamante, JC; Madrid, CC; Matamoros, M; Moya, LA; Obando, G; Reboredo, G; Lopez, LR; Scheu, C; Valenzuela, A; Yerovi, R; Yock-Corrales, A. Latin American Consensus for Pediatric Cardiopulmonary Resuscitation 2017: Latin American Pediatric Critical Care Society Pediatric Cardiopulmonary Resuscitation Committee. PEDIATRIC CRITICAL CARE MEDICINE. 2018; 19(3) 152-156. FI: 2,798. Cuartil: 1. (Article).*
- *Mencia, S; Palacios, A; Garcia, M; Llorente, AM; Ordonez, O; Toledo, B; Lopez-Herce, J. An Exploratory Study of Sevoflurane as an Alternative for Difficult Sedation in Critically Ill Children. PEDIATRIC CRITICAL CARE MEDICINE. 2018; 19(7) 335-341. FI: 2,798. Cuartil: 1. (Article).*
- *Sweberg T; Sen, AI; Mullan, PC; Cheng, A; Knight, L; del Castillo, J; Ikeyama, T; Seshadri, R; Hazinski, MF; Raymond, T; Niles, DE; Nadkarni, V; Wolfe, H; Pediat Resuscitation Quality Pedi. Description of hot debriefings after in-hospital cardiac arrests in an international pediatric quality improvement collaborative. RESUSCITATION. 2018; 128 181-187. FI: 4,572. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Velasco P; Alcaraz AJ; Oikonomopoulou N; Benito M; Moya R; Sanchez A. Hospital-acquired hyponatremia: Does the type of fluid therapy affect children admitted to intensive care?. REVISTA CHILENA DE PEDIATRIA-CHILE. 2018; 89(1) 42-49. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Laiseca, LB; del Castillo, BT; Jimenez, CR; Moreno, JP. Nystagmus due to ranitidine. EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY. 2018; 22(1) 216-216. FI: 2,496. Cuartil: 1. (Letter).*
- *Hosokawa, K; Shime, N; Oulego-Erroz, I; Gonzalez-Cortes, R; Rodriguez-Nunez, A. Ultrasound-guided central venous catheter placement in children: what is a really good practice?. INTENSIVE CARE MEDICINE. 2018; 44(4) 546-547. FI: 18,967. Cuartil: 1. (Letter).*
- *Lopez-Herce, J; Urbano, J; Carrillo, A. Train the trainer education in limited resource settings. RESUSCITATION. 2018; 129 14-14. FI: 4,572. Cuartil: 1. (Letter).*

Other publications

- *López-Herce Cid J; Rodríguez Núñez A; Carrillo Álvarez Á; Zeballos Sarrato G; Martínez Fernández-Llamazares C; Calvo Macías C; Grupo Español de Reanimación Cardiopulmonar Pediátrica y Neonatal. Recomendaciones de expertos sobre el material del carro y mochila de reanimacion cardiopulmonar pediatrica y neonatal. ANALES DE PEDIATRIA. 2018; 88(3) -. FI: 1,166. Cuartil: 3. (Article).*

7.05B. Medical-surgical, physiological, and therapeutic aspects of respiratory diseases

Group Directors**: Luis Puente Maestu &Ignacio Garutti**
Organisms involved: **HGUGM**
Consolidated Group

Research lines

Axis 1: Prevention of respiratory complications of chest surgery

L1: Prevention of respiratory complications of chest surgery. 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 (PAGE, NOVELTY, and ENEAS studies). Leader: Luis Puente Maestu.

Axis 3: Pathophysiology and biology of exercise and skeletal muscle in COPD

L1: Muscle dysfunction in COPD. 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 (PT100005 study) of the new molecule PT010 in exacerbations of COPD: Luis Puente Maestu.
L2: Clinical trials with the pharmaceutical industry (BACTECK study) of a bacterial vaccine for the prevention of exacerbations. Leader: Javier de Miguel.

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.

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*
BENEDETTI		PAOLA ANTONELLA	R1
CASANOVA	BAREA	JAVIER	R2
CEREZO	LAJAS	ALICIA	
CRUZ	PARDOS	PATRICIA	R2
DE LA GALA	GARCIA	FRANCISCO ANDRES	R2
DE MIGUEL	DIEZ	MIGUEL JAVIER	R4
FUENTES	ALONSO	MARTA	R1
GALLARDO	BERMEJO	MARÍA	Other:Nurse
GARCIA	DE PEDRO	JULIA	R2
GARCIA	GARCIA	MARIA CRUZ	R2l
GRACÍA	LÓPEZ	JOSÉ JAVIER	Others
GARUTTI	MARTINEZ	IGNACIO	R2l
GIRON	MATUTE	WHALTER IVAN	
GONZALEZ	CASAURRAN	GUILLERMO	R1
GONZALEZ	MORAGA	FRANCISCO	R1l
HERNANDEZ	YAÑEZ	MARGARITA	Other:Nurse
HUERTA	MARTINEZ	LUIS JAVIER	R2
LLANOS	FLORES	MILAGROS	Others
LOPEZ	MARTIN	SOLEDAD	R1
LÓPEZ	PADILLA	DANIEL EDUARDO	Others
OJEDA	CASTILLEJO	ELENA	R2

Surname		Name	Euraxess Profile
OLIVA	RAMOS	ALICIA	Others
PAREDES	ROYANO	SERGIO	R2
PEDRAZA	SERRANO	FERNANDO	R1
PIÑEIRO	OTERO	PATRICIA	R2
PUENTE	MAESTU	LUIS	R4
RANCAN		LISA	R2
ROJAS	MORENO_TOME	ROSAMARIA	Nurse
SANCHEZ	PEDROSA	GUILLERMO	R2
SÁNCHEZ	MUÑOZ	GEMA	R1
SANZ	SANZ	PILAR	R1l
SAÑUDO	TEJERO	JOSE RAMON	R2
SIMÓN	ADIEGO	CARLOS MARIA	R2
SOLANO	REINA	SEGISMUNDO	R1
VARA	AMEIGEIRAS	ELENA	R2
VARA	RUIZ	ELENA	
VAZQUEZ	OSORIO	MARIA TERESA	R3

Research Projects – Competitive Calls

TITLE: **Estudio aleatorio, controlado de eficacia y seguridad del uso de cpap en el postoperatorio inmediato de reseccion pulmonar como profilaxis de complicaciones respiratorias.** PI12/02734
DIRECTOR: PUENTE MAESTU, LUIS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/01/2019

TITLE: **Efecto de la administración de sevoflurano y de lidocaína durante la perfusión pulmonar exvivo en un modelo experimental de trasplante de donante en asistolia** PI13/00002
DIRECTOR: SIMÓN ADIEGO, CARLOS MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 30/06/2018

TITLE: **Intervenciones terapéuticas sobre las balsas de colesterol epitelial epiteliales destinadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/0026
DIRECTOR: LÁZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2018
END DATE: 31/12/2020

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: LÁZARO FERNANDEZ, ALBERTO
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 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

Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	**Juan Carlos Cano Ballesteros**	Ventilación no invasiva en la insuficiencia respiratoria aguda en urgencias. Aplicabilidad y pronóstico a medio plazo.	Miguel Diez, Javier De, Pérez De Oteyza, Carlos Antonio Y Alvarez-Sala Walther, Luis Antonio	UCM	April 18th 2018
Ph Thesis	**Paola Antonella. Benedetti**	Uso de la presión continua de la vía aérea(CPAP BOUSSIGNAC) como profilaxis de las complicaciones respiratorias postoperatorias en los pacientes sometidos a cirugía de resección pulmonar	Puente Maestu, Luis, Fernandez-Cruz Perez, Eduardo, y Alvarez-Sala Walther, Luis Antonio	UCM	December 12st 2018

Publications *Total Impact Factor: **178.7***

	Nº	IF
Own publications	18	69.8
Joint publications	25	108.9
First decile publications	5	60.1
First quartile publications	19	126.3
Second quartile publications	13	39.5
Third quartile publications	6	11.5
Fourth quartile publications	1	1.5
Nonindexed publications / No IF	4	-
Total publications (incluging those without IF)	**43**	**178.7**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *de Miguel-Yanes, JM; Jimenez-Garcia, R; Hernandez-Barrera, V; Mendez-Bailon, M; de Miguel-Diez, J; Munoz-Rivas, N; Ezpeleta, D; Lopez-de-Andres, A. Hospital Admissions in People With Alzheimer's Disease or Senile Dementia According to Type 2 Diabetes Status: An Observational 10-Year Study. American Journal of Alzheimers Disease and Other Dementias. 2018; 33(1) 12-19. FI: 1,464. Cuartil: 4. (Article).*

- *Chai-Adisaksopha, C; Iorio, A; Crowther, MA; de Miguel, J; Salgado, E; Zdraveska, M; Fernandez-Capitan, C; Nieto, JA; Barillari, G; Bertoletti, L; Monreal, M; RIETE investigators. Vitamin K Antagonists After 6 Months of Low-Molecular-Weight Heparin in Cancer Patients with Venous Thromboembolism. AMERICAN JOURNAL OF MEDICINE. 2018; 131(4) 430-437. FI: 4,76. Cuartil: 1. (Article).*
- *Biccard, BM; Scott, DJA; Chan, MTV; Archbold, A; Wang, CY; Sigamani, A; Urratia, G; Cruz, P; Srinathan, SK; Szalay, D; Harlock, J; Tittley, JG; Rapanos, T; Elias, F; Jacka, MJ; Malaga, G; Abraham, V; Berwanger, O; Montes, FR; Heels-Ansdell, DM; Hutcherson, MT; Chow, CK; Polanczyk, CA; Szczeklik, W; Ackland, GL; Dubois, L; Sapsford, RJ; Williams, C; Cortes, OL; Le Mananch, Y; Devereaux, PJ. Myocardial Injury After Noncardiac Surgery (MINS) in Vascular Surgical Patients: A Prospective Observational Cohort Study. ANNALS OF SURGERY. 2018; 268(2) 357-363. FI: 9,476. Cuartil: 1. (Article).*
- *Lajas, AC; Serrano, FA; de Guzman, MDCR; Diez, JDM. Primary Pleural Synovial Sarcoma: Differential Diagnosis with Small Cell Lung Carcinoma. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(9) 488-489. FI: 4,214. Cuartil: 1. (Article).*
- *Izquierdo JL; Miravitlles M; Esquinas, C; Perez, M; Calle, M; Campos, JLL; Gonzalez-Moro, JMR; Casanova, C; Esteban, C; de Lucas, P. Characteristics of COPD Patients Managed in Respiratory Medicine Departments in Spain, According to GOLD Groups and GesEPOC Clinical Phenotypes. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(11) 559-567. FI: 4,214. Cuartil: 1. (Article).*
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- *Maestu, LP; Diez, JD; Padilla, DL. Single-breath diffusion testing. Longevity is the reward for virtue. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(10) 501-502. FI: 4,214. Cuartil: 1. (Article).*
- *Soler-Cataluna, JJ; Maestu, LP; Roman-Rodriguez, M; Esteban, C; Gea, J; Mora, RB; Cobo, EP; Ancochea, J; Ruiz, GM; Rio, FG. Creation of the SAQ-COPD Questionnaire to Determine Physical Activity in COPD Patients in Clinical Practice. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(9) 467-475. FI: 4,214. Cuartil: 1. (Article).*
- *Lajas, AC; Luna, JAC; Guzman, MDR; Diez, JD. Antituberculosis Treatment in a Patient with Celiac Disease. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(6) 337-338. FI: 4,214. Cuartil: 1. (Article).*
- *Maestu, LP; de Pedro, JG; Benedetti, PA. The Future of Exercise Tolerance Testing. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(8) 405-406. FI: 4,214. Cuartil: 1. (Editorial Material).*
- *de Granda-Orive, JI; Jimenez-Ruiz, CA; Solano-Reina, S. World Health Organization positioning. The Impact of Tobacco in the Environment: Cultivation, Curing, Manufacturing, Transport, and Third and Fourth-hand Smoking. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(7) 357-358. FI: 4,214. Cuartil: 1. (Editorial Material).*
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- *Lopez-de-Andres, A; Perez-Farinos, N; de Miguel-Diez, J; 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 aortic valve replacement in Spain (2001-2015). CARDIOVASCULAR DIABETOLOGY. 2018; 17(1) 135-135. FI: 5,948. Cuartil: 1. (Article).*
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- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; del Barrio, JL; Puente-Maestu, L; Martinez-Huedo, MA; Jimenez-Garcia, R. Prevalence of Pain in COPD Patients and Associated Factors: Report From a Population-based Study. CLINICAL JOURNAL OF PAIN. 2018; 34(9) 787-794. FI: 2,893. Cuartil: 2. (Article).*
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- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; Jimenez-Trujillo, I; Mendez-Bailon, M; de Miguel-Yanes, JM; Jimenez-Garcia, R. Postoperative pneumonia among patients with and without COPD in Spain from 2001 to 2015. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 53 66-72. FI: 3,66. Cuartil: 1. (Article).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Esteban-Vasallo, MD; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Clostridium difficile infection in hospitalized patients with COPD in Spain (2001-2015). EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 57 76-82. FI: 3,66. Cuartil: 1. (Article).*
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- *Sanchez-Pedrosa, G; Ameigeiras, EV; Barea, JC; Rancan, L; Adiego, CMS; Martinez, IG. Role of surgical manipulation in lung inflammatory response in a model of lung resection surgery. Interactive Cardiovascular and Thoracic Surgery. 2018; 27(6) 870-877. FI: 1,931. Cuartil: 2. (Article).*
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- *de Miguel-Diez, J; Lopez-de-Andres, A; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Munoz-Rivas, N; Jimenez-Garcia, R. Influence of COPD on outcomes of patients hospitalized with heart failure: Analysis of the Spanish National Hospital Discharge Database (2001-2015). INTERNATIONAL JOURNAL OF CARDIOLOGY. 2018; 269 213-219. FI: 3,471. Cuartil: 2. (Article).*
- *de Miguel-Diez, J; Lopez-de-Andres, A; Herandez-Barrera, V; Jimenez-Trujillo, I; Puente-Maestu, L; Cerezo-Lajas, A; Jimenez-Garcia, R. Effect of the economic crisis on the use of health and home care services among Spanish COPD patients. International Journal of Chronic Obstructive Pulmonary Disease. 2018; 13 725-739. FI: 3,274. Cuartil: 2. (Article).*
- *Lopez-de-Andres, A; Vazquez-Vazquez, L; Martinez-Huedo, MA; Hernandez-Barrera, V; Jimenez-Trujillo, I; Tapias-Ledesma, MA; de Miguel-Diez, J; Jimenez-Garcia, R. Is COPD associated with periodontal disease? A population-based study in Spain. International Journal of Chronic Obstructive Pulmonary Disease. 2018; 13 3435-3445. FI: 3,274. Cuartil: 2. (Article).*
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- *Lopez-de-Andres, A; Esteban-Vasallo, MD; de Miguel-Diez, J; Hernandez-Barrera, V; de Miguel-Yanes, JM; Mendez-Bailon, M; Jimenez-Garcia, R. Incidence and in-hospital outcomes of Clostridium difficile infection among type 2 diabetes patients in Spain. INTERNATIONAL JOURNAL OF CLINICAL PRACTICE. 2018; 72(10) -. FI: 2,613. Cuartil: 2. (Article).*
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- *Jimenez-Garcia R; Del Barrio JL; Hernandez-Barrera V; de Miguel-Diez J; Jimenez-Trujillo I; Martinez-Huedo MA; Lopez-de-Andres A. Is there an association between diabetes and neck pain and lower back pain? Results of a population-based study. Journal of Pain Research. 2018; 11 1005-1015. FI: 2,236. Cuartil: 3. (Article).*
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- *Pedraza-Serrano F; Jimenez-Garcia R; Lopez-de-Andres A; Hernandez-Barrera V; Esteban-Hernandez J; Sanchez-Munoz G; Puente-Maestu L; de-Miguel-Diez J. Comorbidities and risk of mortality among hospitalized patients with idiopathic pulmonary fibrosis in Spain from 2002 to 2014. RESPIRATORY MEDICINE. 2018; 138 137-143. FI: 3,237. Cuartil: 2. (Article).*

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- *Paredes, SD; Rancan, L; Garcia, C; Garcia, JC; Garutti, I; Simon, C; Zueco, JA; Fernandez-Tresguerres, JA; Vara, E. Evaluation of the acquisition of competences through an educational innovation tool based on formal debate. Inted Proceedings. 2018; 7410-7414. (Proceedings Paper).*
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Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *de Miguel-Diez, J; Lopez-de-Andres, A; Jimenez-Garcia, R. Non-Invasive Mechanical Ventilation in Pneumonia Patients Without Chronic Obstructive Pulmonary Disease. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(6) 351-351. FI: 4,214. Cuartil: 1. (Letter).*
- *Lajas, AC; Pinacho, JJM; Benzant, IF; de Miguel-Diez, J. Recurrent Chylothorax Due To Secondary Superior Vena Cava Obstruction. ARCHIVOS DE BRONCONEUMOLOGIA. 2018; 54(8) 434-435. FI: 4,214. Cuartil: 1. (Letter).*
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Other publications

- *de Granda-Orive JI; Alonso-Arroyo A; Lopez-Padilla D; Segrelles-Calvo G; Jimenez-Ruiz CA; Solano-Reina S. Analisis bibliometrico de los estudios IBERPOC y EPI-SCAN. Contribucion de la tematica tabaquismo al estudio IBERPOC. Semergen. 2018; 44(2) 90-99. (Article).*

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	Role
ARENAS	DOMINGO	LUIS JAVIER	R1
CORTINA	ACEVEDO	EDGAR ALFONSO	R1
LASSO	VAZQUEZ	JOSE MARIA	R4
NAVA	PÉREZ	PAOLA	
PEREZ	CANO	ROSA	R4I

Patents and intellectual property registrations

Patent

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

Publications

Total Impact factor: ***11.8***

	Nº	IF
Own publications	3	8.6
Joint publications	2	3.2
First decile publications	0	-
First quartile publications	2	7.1
Second quartile publications	1	3.9
Third quartile publications	0	0.0
Fourth quartile publications	1	0.8
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**5**	**11.8**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

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- *Vallejo, A; Garcia-Ruano, AA; Pinilla, C; Castellano, M; Deleyto, E; Perez-Cano, R. Comparing Efficacy and Costs of Four Facial Fillers in Human Immunodeficiency Virus-Associated Lipodystrophy: A Clinical Trial. PLASTIC AND RECONSTRUCTIVE SURGERY. 2018; 141(3) 613-623. FI: 3,946. Cuartil: 1. (Article).*
- *Jullien-Petrelli, AC; Garcia-Sabrido, JL; Orue-Echebarria, MI; Lozano, P; Alvarez, A; Serrano, J; Calvo, FM; Calvo-Haro, JA; Lasso, JM; Asencio, JM. Role of intraoperative radiotherapy in the treatment of sacral chordoma. SPINE JOURNAL. 2018; 18(4) 632-638. FI: 3,196. Cuartil: 1. (Article).*
- *Lasso JM; Poletti D; Scola B; Gomez-Vilda P; Garcia-Martin AI; Fernandez-Santos ME. Injection Laryngoplasty Using Autologous Fat Enriched with Adipose-Derived Regenerative Stem Cells: A Safe Therapeutic Option for the Functional Reconstruction of the Glottal Gap after Unilateral Vocal Fold Paralysis. Stem Cells International. 2018; 2018 8917913-8917913. FI: 3,902. Cuartil: 2. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Lasso, JM; Castellano, M; Pinilla, C; Gonzalez-Pozega, C; Perez-Cano, R. Circumferential Pharyngoesophageal Reconstruction and Total Larynx Preservation with Extra-anatomical Free Flaps. Plastic And Reconstructive Surgery-Global Open. 2018; 6(11) -. (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*		*Role*
ESCRIBANO	PATIÑO	GREGORIO		
HERNANDEZ	FERNANDEZ	CARLOS	Postdoctoral	
HERRANZ	AMO	FELIPE BERNARDO	Postdoctoral	
JARA	RASCON	JOSE	Postdoctoral	
LLEDÓ	GARCIA	ENRIQUE	Postdoctoral	
OGAYA	PINIES	GABRIEL		
SUBIRA	RIOS	DAVID	Predoctoral	

Publications

Total Impact Factor: ***25.5***

	Nº	**IF**
Own publications	4	4.7
Joint publications	3	20.8
First decile publications	1	17.3
First quartile publications	2	20.2
Second quartile publications	1	2.4
Third quartile publications	0	0.0
Fourth quartile publications	4	2.9
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**7**	**25.5**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Cano-Velasco J; Herranz-Amo F; Barbas-Bernardos G; Mayor-de Castro J; Aragon-Chamizo J; Arnal-Chacon G; Garcia, EL; Hernandez-Fernandez C. Postsurgical complications in patients with renal tumours with venous thrombosis treated with surgery. Actas Urologicas Espanolas. 2018; 42(8) 531-537. FI: 1,136. Cuartil: 4. (Article).*
- *Angulo JC; Fonseca J; Esquinas C; Ojea A; Rodriguez A; Rabassa M; Teba F; Escribano G; Cruz F. Adjustable transobturator male system (ATOMS (R)) as treatment of stress urinary incontinence secondary to transurethral resection of the prostate. Actas Urologicas Espanolas. 2018; 42(9) 567-573. FI: 1,136. Cuartil: 4. (Article).*

- *Cano-Velasco, J; Herranz-Amo, F; Gonzalez-Leyte, M; Barbas-Bernardos, G; Escudero, RM; Pujol, LP; Hernandez-Fernandez, C. Intense urethrorrhagia after retropubic radical prostatectomy with selective embolization of the internal pudendal artery. ARCHIVOS ESPANOLES DE UROLOGIA. 2018; 71(10) 856-859. FI: 0,335. Cuartil: 4. (Article).*
- *de Castro, JM; Velasco, JC; Chamizo, JA; Boville, GA; Amo, FH; Fernandez, CH. Locally advanced prostate cancer. Definition, diagnosis and treatment. ARCHIVOS ESPANOLES DE UROLOGIA. 2018; 71(3) 231-238. FI: 0,335. Cuartil: 4. (Article).*
- *Font, P; Subira, D; Matarraz, S; Benavente, C; Cedena, MT; Morado, M; Corral, AP; Bellon, JM; Diez-Martin, JL. Multicenter comparison of CD34+ myeloid cell count by flow cytometry in low-risk myelodysplastic syndrome. Is it feasible?. CYTOM PART B-CLIN CY. 2018; 94(3) 527-535. FI: 2,938. Cuartil: 1. (Article).*
- *Boissier, R; Hevia, V; Bruins, HM; Budde, K; Figueiredo, A; Lledo-Garcia, E; Olsburgh, J; Regele, H; Taylor, CF; Zakri, RH; Yuan, CY; Breda, A. The Risk of Tumour Recurrence in Patients Undergoing Renal Transplantation for End-stage Renal Disease after Previous Treatment for a Urological Cancer: A Systematic Review. EUROPEAN UROLOGY. 2018; 73(1) 94-108. FI: 17,298. Cuartil: 1. (Article).*
- *Angulo, JC; Cruz, F; Esquinas, C; Arance, I; Manso, M; Rodriguez, A; Pereira, J; Ojea, A; Carballo, M; Rabassa, M; Teyrouz, A; Escribano, G; Rodriguez, E; Teba, F; Celada, G; Madurga, B; Alvarez-Ossorio, JL; Marcelino, JP; Martins, FE. Treatment of male stress urinary incontinence with the adjustable transobturator male system: Outcomes of a multi-center Iberian study. NEUROUROLOGY AND URODYNAMICS. 2018; 37(4) 1458-1466. FI: 2,36. Cuartil: 2. (Article).*

Other publications

- *Rodriguez Faba O; Boissier R; Budde K; Figueiredo A; Taylor CF; Hevia V; Lledo Garcia E; Regele H; Zakri RH; Olsburgh J; Breda A. European Association of Urology Guidelines on Renal Transplantation: Update 2018. European Urology Focus. 2018; 4(2) 208-215. (Guideline).*
- *Hevia V; Boissier R; Rodriguez-Faba O; Fraser-Taylor C; Hassan-Zakri R; Lledo E; Regele H; Buddde K; Figueiredo A; Olsburgh J; Breda A. Management of Localised Prostate Cancer in Kidney Transplant Patients: A Systematic Review from the EAU Guidelines on Renal Transplantation Panel. European Urology Focus. 2018; 4(2) 153-162. (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	Role
MONTERO	GARCIA	VIRGINIA	Predoctoral
MORILLAS	CANTERO	ISABEL	Predoctoral
RODRIGUEZ	ARNAO	MARIA DOLORES	Postdoctoral
RODRIGUEZ	SANCHEZ	AMPARO	Predoctoral
ROLDÁN	MARTÍN	BELÉN	Predoctoral

Publications

Total Impact factor: ***1.2***

	Nº	IF
Own publications	0	0.0
Joint publications	1	1.2

First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	0	0.0
Third quartile publications	1	1.2
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**1**	**1.2**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Segura, SA; Molina, CT; Guindulain, MJC; Bolado, GG; Merillas, MJA; Jaume, MC; Sancho, PC; Navarro, JCM; Rodriguez, JMR; Sanchez, AR; Soc Espanola Endocrinologia Pediat. Recommendations for the diagnosis and follow up of the foetus and newborn child born to mothers with autoimmune thyroid disease. ANALES DE PEDIATRIA. 2018; 89(4) -. FI: 1,166. Cuartil: 3. (Article).*

7.10 Regeneration and biomaterials in musculoskeletal diseases

Group Director**: Francisco Javier Vaquero Martín**
Organisms involved: **HGUGM**
UCM
Associated Group

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.

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 3 universities in various projects (San Pablo CEU, Universidad Juan Carlos I, and ICAI, all of which are in Madrid). In some research lines, work had already begun, thus confirming the group's viability and its role in promoting projects and doctoral theses. The group currently has 16 members.

Group members

Surname		*Name*	*Role*
CALVO	HARO	JOSE ANTONIO	Predoctoral
CARBO	LASO	ESTHER	Postdoctoral
CHANA	RODRIGUEZ	FRANCISCO	Postdoctoral

FORRIOL	CAMPOS	FRANCISCO	Postdoctoral
GUISASOLA	ZULUETA	M.CONCEPCIÓN	Postdoctoral
LAGUNA	ARANDA	RAFAEL	Predoctoral
LÓPEZ	TORRES	IRENE ISABEL	
MATAS	DIAZ	JOSE ANTONIO	Predoctoral
NARBONA	CARCELES	FRANCISCO JAVIER	Postdoctoral
OTEO	ALVARO	ANGEL	Predoctoral
PEREZ	MAÑANES	RUBEN	Postdoctoral
ROJO	MANAUTE	JOSÉ MANUEL	Postdoctoral
SANZ	RUIZ	PABLO	Postdoctoral
VAQUERO	MARTÍN	JAVIER	Postdoctoral

Research Projects – Competitive Calls

TITLE: **Young employement Contract**: **Rompiendo Brecha Comunicativa: Colaboración Áreas Imagen Médica e Impresión 3D Quirúrgica**. PEJ-2014-P-01128
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Human resources
FUNDING BODY: MICINN/MINECO
START DATE: 13/11/2015
END DATE: 18/09/2018

Doctoral theses, Bachelor thesis and Master's thesis

TYPE	*CANDIDATE*	*TITLE*	*Name/S DIRECTOR/S*	*UNIVERSITY*	*DATE DEFENDED*
Ph Thesis	**Rodriguez Maruri, Guillermo Emilio**	Cirugía ultra-minimamente invasiva guiada por ecografía para el dedo en resorte: desarrollo y aplicación de una nueva técnica	José Manuel Rojo Manaute y Francisco Javier Vaquero Martín	UCM	April 9th 2018
Ph Thesis	**Irene Isabel López Torres**	Estudio in vivo de la eficacia del cemento óseo con rifampicina contenida en microcápsulas de alginato en el tratamiento de la infección protésica	Pablo Sanz Ruiz y Francisco Javier Vaquero Martín	UCM	November 5th 2018

Publications *Total Impact Factor: **21.9***

	Nº	**IF**
Own publications	6	14.8
Joint publications	3	7.1
First decile publications	0	-
First quartile publications	3	9.2
Second quartile publications	4	9.8
Third quartile publications	1	2.9
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**9**	**21.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Bravo, B; Arguello, JM; Gortazar, AR; Forriol, F; Vaquero, J. Modulation of Gene Expression in Infrapatellar Fat Pad-Derived Mesenchymal Stem Cells in Osteoarthritis. Cartilage. 2018; 9(1) 55-62. FI: 2,961. Cuartil: 1. (Article).*
- *Guisasola, MC; Alonso, B; Bravo, B; Vaquero, J; Chana, F. An overview of cytokines and heat shock response in polytraumatized patients. CELL STRESS & CHAPERONES. 2018; 23(4) 483-489. FI: 2,903. Cuartil: 3. (Review).*
- *Sanchez-Perez, C; Rodriguez-Lozano, G; Rojo-Manaute, J; Vaquero-Martin, J; Chana-Rodriguez, F. 3D surgical printing for preoperative planning of trabecular augments in acetabular fracture sequel. INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2018; 36-43. FI: 1,834. Cuartil: 2. (Article).*
- *Lopez-Torres, II; Sanz-Ruiz, P; Sanchez-Perez, C; Andrade-Albarracin, R; Vaquero, J. Clinical and radiological outcomes of trabecular metal systems and antiprotrusion cages in acetabular revision surgery with severe defects: a comparative study. INTERNATIONAL ORTHOPAEDICS. 2018; 42(8) 1811-1818. FI: 2,384. Cuartil: 2. (Article).*
- *Sanz-Ruiz, P; Carbo-Laso, E; Del Real-Romero, JC; Aran-Ais, F; Ballesteros-Iglesias, Y; Paz-Jimenez, E; Sanchez-Navarro, M; Perez-Liminana, MA; Vaquero-Martin, J. Microencapsulation of rifampicin: A technique to preserve the mechanical properties of bone cement. J ORTHOP RES. 2018; 36(1) 459-466. FI: 3,043. Cuartil: 1. (Article).*
- *Iborra, A; Villanueva, M; Barrett, SL; Rodriguez-Collazo, E; Sanz, P. Anatomic Delineation of Tarsal Tunnel Innervation via Ultrasonography. J ULTRAS MED. 2018; 37(6) 1325-1334. FI: 1,718. Cuartil: 2. (Article).*
- *Jullien-Petrelli, AC; Garcia-Sabrido, JL; Orue-Echebarria, MI; Lozano, P; Alvarez, A; Serrano, J; Calvo, FM; Calvo-Haro, JA; Lasso, JM; Asencio, JM. Role of intraoperative radiotherapy in the treatment of sacral chordoma. SPINE JOURNAL. 2018; 18(4) 632-638. FI: 3,196. Cuartil: 1. (Article).*
- *Gomez-Barrena, E; Padilla-Eguiluz, NG; Avendano-Sola, C; Payares-Herrera, C; Velasco-Iglesias, A; Torres, F; Rosset, P; Gebhard, F; Baldini, N; Rubio-Suarez, JC; Garcia-Rey, E; Cordero-Ampuero, J; Vaquero-Martin, J; Chana, F; Marco, F; Garcia-Coiradas, J; Caba-Dessoux, P; de la Cuadra, P; Hernigou, P; Flouzat-Lachaniette, CH; Gouin, F; Mainard, D; Laffosse, JM; Kalbitz, M; Marzi, I; Sudkamp, N; Stockle, U; Ciapetti, G; Donati, DM; Zagra, L; Pazzaglia, U; Zarattini, G; Capanna, R; Catani, F. A Multicentric, Open-Label, Randomized, Comparative Clinical Trial of Two Different Doses of Expanded hBM-MSCs Plus Biomaterial versus Iliac Crest Autograft, for Bone Healing in Nonunions after Long Bone Fractures: Study Protocol. Stem Cells International. 2018; 2018 6025918-6025918. FI: 3,902. Cuartil: 2. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Moreta-Martinez, R; Garcia-Mato, D; Garcia-Sevilla, M; Perez-Mananes, R; Calvo-Haro, J; Pascau, J. Augmented reality in computer-assisted interventions based on patient-specific 3D printed reference. Healthcare Technology Letters. 2018; 5(5) 162-166. (Article).*

Other publications

- *Sanz-Ruiz P; Calvo-Haro JA; Villanueva-Martinez M; Matas-Diez JA; Vaquero-Martin J. Biarticular total femur spacer for massive femoral bone loss: the mobile solution for a big problem. Arthroplasty Today. 2018; 4(1) 58-64. (Article).*
- *Carbo-Laso E; Sanz-Ruiz P; Del Real-Romero JC; Ballesteros-Iglesias Y; Paz-Jimenez E; Aran-Ais F; Sanchez-Navarro M; Perez-Liminana MA; Lopez-Torres I; Vaquero-Martin J. New method for antibiotic release from bone cement (polymethylmethacrylate): Redefining boundaries. Revista Espanola de Cirugia Ortopedica y Traumatologia. 2018; 62(1) 86-92. (Article).*

7.11 Iron metabolism disorders

Group Director**: Alejandro del Castillo Rueda**
Organisms involved: **HGUGM**
Associated Group

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	Role
CLAVERO	OLMOS	MARTA	Predoctoral
DEL CASTILLO	RUEDA	ALEJANDRO	Postdoctoral
GARCÍA-ESPONA	PANCORBO	ALEJANDRO	Predoctoral
LOPEZ	APARICIO	ANA	Predoctoral
MATSKIV		NADIYA	
PERAITA	ADRADOS	ROSA	Postdoctoral
SANCHEZ	PABLO	MIGUEL ANGEL	

Publications *Total Impact Factor: **7.9***

	Nº	IF
Own publications	2	3.9
Joint publications	1	4.0
First decile publications	0	-
First quartile publications	1	4.0
Second quartile publications	1	3.4
Third quartile publications	0	0.0
Fourth quartile publications	1	0.5
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**3**	**7.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Calvo-Ferrandiz, E; Peraita-Adrados, R. Narcolepsy with cataplexy and pregnancy: a case-control study. J SLEEP RES. 2018; 27(2) 268-272. FI: 3,432. Cuartil: 2. (Article).*
- *Medrano-Martinez, P; Ramos-Platon, MJ; Peraita-Adrados, R. Alteraciones neuropsicologicas en la narcolepsia con cataplejia: una revision. REVISTA DE NEUROLOGIA. 2018; 66(3) 89-96. FI: 0,485. Cuartil: 4. (Article).*
- *Zhang, ZX; Mayer, G; Dauvilliers, Y; Plazzi, G; Pizza, F; Fronczek, R; Santamaria, J; Partinen, M; Overeem, S; Peraita-Adrados, R; da Silva, AM; Sonka, K; del Rio-Villegas, R; Heinzer, R; Wierzbicka, A; Young, P; Hogl, B; Bassetti, CL; Manconi, M; Feketeova, E; Mathis, J; Paiva, T; Canellas, F; Lecendreux, M; Baumann, CR; Barateau, L; Pesenti, C; Antelmi, E; Gaig, C; Iranzo, A; Lillo-Triguero, L; Medrano-Martinez, P; Haba-Rubio, J; Gorban, C; Luca, G; Lammers, GJ; Khatami, R. Exploring the clinical features of narcolepsy type 1 versus narcolepsy type 2 from European Narcolepsy Network database with machine learning. Scientific Reports. 2018; 8(1) 10628-10628. FI: 4,011. Cuartil: 1. (Article).*

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	Role
DE LA CALLE	REVIRIEGO	BRAULIO	Predoctoral
GARCIA	OLIVARES	PABLO	Predoctoral
GUERRERO	SANZ	JOSE EUGENIO	Postdoctoral
MUÑOZ	GONZALEZ	JAVIER	Postdoctoral
SÁNCHEZ	FERNÁNDEZ	GUIOMAR	
SANTA TERESA	ZAMARRO	PATRICIA	Postdoctoral
SOTILLO	DÍAZ	JUAN CARLOS	Postdoctoral
TOMEY	SORIA	MARÍA JESÚS	Predoctoral

Publications

Total Impact Factor: ***21.8***

	Nº	IF
Own publications	0	0.0
Joint publications	2	21.8
First decile publications	1	19.0
First quartile publications	1	19.0
Second quartile publications	1	2.8
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**2**	**21.8**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Guerin, C; Beuret, P; Constantin, JM; Bellani, G; Garcia-Olivares, P; Roca, O; Meertens, JH; Maia, PA; Becher, T; Peterson, J; Larsson, A; Gurjar, M; Hajjej, Z; Kovari, F; Assiri, AH; Mainas, E; Hasan, MS; Morocho-Tutillo, DR; Baboi, L; Chretien, JM; Francois, G; Ayzac, L; Chen, L; Brochard, L; Mercat, A; Investigators APRONET Study Grp; REVA Network; Reseau Rech Soc Francaise Anesthes; ESICM Trials Grp.*

A prospective international observational prevalence study on prone positioning of ARDS patients: the APRONET (ARDS Prone Position Network) study. INTENSIVE CARE MEDICINE. 2018; 44(1) 22-37. FI: 18,967. Cuartil: 1. (Article).

- *Garnacho-Montero, J; Leon-Moya, C; Gutierrez-Pizarraya, A; Arenzana-Seisdedos, A; Vidaur, L; Guerrero, JE; Gordon, M; Martin-Loeches, I; Rodriguez, A; GETGAG Study Grp. Clinical characteristics, evolution, and treatment-related risk factors for mortality among immunosuppressed patients with influenza A (H1N1) virus admitted to the intensive care unit. JOURNAL OF CRITICAL CARE. 2018; 48 172-177. FI: 2,783. Cuartil: 2. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Munoz, J; Keough, EA; Visedo, LC. ECMO for Severe Acute Respiratory Distress Syndrome. NEW ENGLAND JOURNAL OF MEDICINE. 2018; 379(11) 1091-1091. FI: 70,67. Cuartil: 1. (Letter).*

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*	*Role*
ARNALICH	MONTIEL	ANA	Postdoctoral
ARRIBAS	RODRIGUEZ	SILVIA MAGDALENA	Postdoctoral
DELGADO	BAEZA	EMILIO	Senior researcher
DELGADO	MARTOS	MARIA JESUS	Postdoctoral
DÍAZ	GARCÍA	JESÚS	Technician
FERNÁNDEZ	RIVEIRA	CARMEN	Postdoctoral
GOMEZ	DE DIEGO	JOSE JUAN	Postdoctoral
GONZALEZ	GARCIA	MARIA DEL CARMEN	Postdoctoral
IGLESIAS	DE LA VEGA	MARIO	Postdoctoral
MARTOS	RODRÍGUEZ	ANTONIA	Predoctoral
MORILLAS	SENDÍN	PALOMA	Postdoctoral
QUINTANA	VILLAMANDOS	MARÍA BEGOÑA	Group Director.Senior 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

TITLE: **Regresión precoz del remodelado cardiovascular tras tratamiento con dronedarona en un modelo experimental de rata hipertensa.** PI13/01261
DIRECTOR: QUINTANA VILLAMANDOS, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/12/2018

Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date sefended
Ph Thesis	**Laia Pazó Sayós**	Regresión del remodelado arterial coronario con un betabloqueante multicanal en un modelo experimental de rata hipertensa	Begoña Quintana Villamandos y Carmen González García	UCM	January 17th 2018
Ph Thesis	**David Ramiro Cortijo**	Biomarcadores predictivos del desarrollo de complicaciones maternas y fetales. Influencia del estado psicológico	Silvia Arribas Rodríguez y Angel Luis López de Pablo	UAM	April 20th 2018
Ph Thesis	**Cynthia Guadalupe Reyes Hernández**	Influencia de intervenciones nutricionales durante la gestación sobre el desarrollo fetal en la rata. Papel del estrés oxidativo de la placenta	Silvia Arribas Rodriguez, Angel Luis López de Pablo y Rodrigo Enrique Elizondo Omaña	UAM	December 18th 2018

Patents and intellectual property registrations

Patent

Title	Reference	Owner	Inventors
Use of esmolol for early regresion of left ventricular hypertrophy	EP10382141 (Familia con 2 patentes)	FIBHGM	Emilio Delgado Begoña Quintana
Dispositivo protector bucal con depresor lingual	P 201531508	FIBHGM	Guillermo Juan Rodríguez Javier Casanova

Publications

Total Impact Factor: **2.2**

	Nº	IF
Own publications	1	2.2
Joint publications	0	0.0
First decile publications	0	-
First quartile publications	0	0.0

Second quartile publications	0	0.0
Third quartile publications	1	2.2
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**1**	**2.2**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Quintana-Villamandos B; Goukassian DA; Sasi SP; Delgado-Baeza E. Short-Term Treatment with Esmolol Reverses Left Ventricular Hypertrophy in Adult Spontaneously Hypertensive Rats via Inhibition of Akt/NF-kappa B and NFATc4. Biomed Research International. 2018; 2018 2691014-2691014. FI: 2,197. Cuartil: 3. (Article).*

Other publications

- *Gallego-Ligorit L, Vives M, Vallés-Torres J, Sanjuán-Villarreal TA, Pajares A, Iglesias M. Use of Dexmedetomidine in Cardiothoracic and Vascular Anesthesia. J Cardiothorac Vasc Anesth. 2018;32(3):1426-1438.*
- *Vicent L, Devesa C, Sousa-Casasnovas I, Juárez M, Iglesias M, Bruña V, Valero-Masa MJ, Gonzalez-Saldivar H, Fernández-Avilés F, Martínez-Sellés M. Use of dexmedetomidine in a cardiac intensive care unit. J Clin Anesth. 2018;44:102-103*

7.18 Peritransplant evaluation of the liver

Group Director: **José María Pérez Peña**
Organisms involved: **HGUGM**
Associated Group

Research lines

L1: Evaluation of early function of the liver graft.
L2: Usefulness of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients during liver transplant.
L3: Infl uence of anesthetic agents during major liver surgery.

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.

Group members

Surname		Name	Role
DUQUE	GONZÁLEZ	PATRICIA	Postdoctoral
JIMENEZ	DE LA FUENTE	CONSOLACION	Predoctoral
LISBONA	SAEZ	CRISTINA JULIA	Predoctoral
OLMEDILLA	ARNAL	LUÍS ENRIQUE	Postdoctoral
PÉREZ	PEÑA	JOSÉ MARÍA	Postdoctoral
VILCHEZ	MONGE	ALMUDENA	Predoctoral

Publications

Total Impact Factor: **11.9**

	Nº	IF
Own publications	1	6.2
Joint publications	1	5.7
First decile publications	2	11.9
First quartile publications	2	11.9
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 (incluging those without IF)	**2**	**11.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Vilchez-Monge, AL; Garutti, I; Lisbona, CJ; Olmedilla, L; Perez-Pena, JM. Are high-sensitivity troponins always reliable? Donor-recipient troponin transfusion in liver transplantation. BRITISH JOURNAL OF ANAESTHESIA. 2018; 121(6) 1212-1214. FI: 6,199. Cuartil: 1. (Article).*
- *Bermejo-Martin, JF; Martin-Fernandez, M; Lopez-Mestanza, C; Duque, P; Almansa, R. Shared Features of Endothelial Dysfunction between Sepsis and Its Preceding Risk Factors (Aging and Chronic Disease). Journal of Clinical Medicine. 2018; 7(11) -. FI: 5,688. Cuartil: 1. (Article).*

7.19 Perianesthesia assessment

Group Director: **Mª Carmen Fernández Riveira**
Organisms involved: **HGUGM**
Associated Group

Group members

Surname		Name	Role
DEL CASTILLO		TERESA	Predoctoral
DIAZ	RUANO	SUSANA	Predoctoral
FERNANDEZ	FERNANDEZ	ALEJANDRO	Predoctoral
FERNANDEZ	RIVEIRA	Mª CARMEN	Senior Researcher

MEMBRILLO	RUBALCABA	MARIA JOSE	Predoctoral
MIGUEL	GUIJARRO	Mª ANGELES	Predoctoral
OROZCO	GALEANO	HUGO DAVID	Predoctoral
PALENCIA	JORGE	MARIA	Predoctoral
REYES	OSORIO	IFDEL EDUARDO	Predoctoral
RIAÑO	MENDEZ	BIBIANA	Predoctoral
SAN JUAN	LÓPEZ	ERIKA	Predoctoral
SANZ	FERNANADEZ	JAVIER	Postdoctoral
TORRE	OÑATE	Mª TERESA	Predoctoral
VALERA	CABO	JESUS ALBERTO	Predoctoral

Publications *Total Impact factor: **3.8***

	Nº	*IF*
Own publications	0	0.0
Joint publications	1	3.8
First decile publications	0	-
First quartile publications	1	3.8
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 (incluging those without IF)	**1**	**3.8**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Lopez-Gomez, L; Diaz-Ruano, S; Giron, R; Lopez-Perez, AE; Vera, G; Pliego, EH; Lopez-Miranda, V; Nurgali, K; Martin-Fontelles, MI; Uranga, JA; Abalo, R. *Preclinical evaluation of the effects on the gastrointestinal tract of the antineoplastic drug vincristine repeatedly administered to rats.* NEUROGASTROENTEROLOGY AND MOTILITY. 2018; 30(11) -. FI: 3,803. Cuartil: 1. (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*	*Role*
ALMENDRAL	GARROTE	JESUS	Senior researcher
ANADON	BASELGA	MARIA JOSE	Postdoctoral

CALLEJO	CRESPO	DAVID	Predoctoral
QUINTELA	JORGE	OSCAR	Predoctoral
SEVILLA	BAYÓN	RAÚL	Postdoctoral
VARELA	GARCÍA	OLALLA	Predoctoral
ZABALLOS	GARCIA	MATILDE	Postdoctoral

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

Doctoral theses, Bachelor thesis and Master's thesis

Type	*Candidate*	*Title*	*Name/s Director/s*	*University*	*Date Defended*
Ph Thesis	**Cristina Monteserín Matesanz**	Ensayo clínico para evaluar la concentración de sevoflurano asociada a remifentanilo requerida para la inserción de la mascarilla laríngea supreme vs la mascarilla laríngea pro-seal. Implicaciones para la seguridad del paciente.	Maria José Anadón Baselga y Matilde Zaballos García	UCM	October 10th 2018

Publications *Total Impact Factor: **6.1***

	Nº	IF
Own publications	0	0.0
Joint publications	5	6.1
First decile publications	0	-
First quartile publications	1	6.1
Second quartile publications	0	0.0
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	4	-
Total publications (incluging those without IF)	**5**	**6.1**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Bravo L; Atienza F; Eidelman G; Ávila P; Pelliza M; Castellanos E; Loughlin G; Datino T; Torrecilla EG; Almendral J; Sánchez PL; Arenal Á; Martínez-Alzamora N; Fernández-Avilés F. Safety and efficacy of cryoablation vs. radiofrequency ablation of septal accessory pathways: systematic review of the literature and meta-analyses. EUROPACE. 2018; 20(8) 1334-1342. FI: 6,1. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Zaballos, M; Reyes, A; Etulain, J; Monteserin, C; Rodriguez, M; Velasco, E. Desflurane versus propofol in post-operative quality of recovery of patients undergoing day laparoscopic cholecystectomy. Prospective, comparative, non-inferiority study. Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(2) 96-102. (Article).*
- *Varela O; Melone A; Lopez-Menchaca R; Sevilla R; Collejo, D; Lopez-Alvarez S; Fernandez, AR; Garcia S; Mantilla I; Zaballos M. Radiological study to evaluate the spreading of two volumes (10 vs. 20 ml) of radiological contrast in the block of cutaneous branches of intercostal nerves in medial axillary line (BRILMA) in a porcine experimental model. Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(8) 441-446. (Article).*
- *Portas, M; Canal, MI; Barrio, M; Alonso, M; Cabrerizo, P; Lopez-Gil, M; Zaballos, M. Air-Q((R)) versus LMA Fastrach for fiberoptic-guided intubation: A randomized cross-over manikin trial. Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(3) 135-142. (Article).*

Other publications

- *Zaballos, M; Reyes, A. Response to the letter to the editor "Anesthesia technique and quality of recovery after laparoscopic cholecystectomy: Case closed?". Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(7) 417-419. (Letter).*

7.21 Biopathology of aging

Group Director: **José Antonio Serra Rexach**
Organisms involved: **HGUGM**
Consolidated Group

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

Description of the research group

Our group carries out its research work in the clinical setting, with an apparent translational vocation. At present, three principal clinical investigators (Vidán, Ortiz, Serra) and one postdoctoral (Mayordomo) make up the group, who successfully apply to competitive calls, regarding both projects and human resources.

Our research covers a wide range of conditions associated with aging, especially frailty, cardiovascular disease, hip fracture, and physical activity. We have also designed interventions aimed at improving the prognosis of hospitalized older adults (prevention of functional impairment and confusional state). Similarly, we have evaluated the usefulness of information and communication technology in the care of the elderly. Our most relevant contributions have helped to modify clinical practice in conditions as important as acute confusional state or hip fracture.

Our solid history has ensured that our group is one of the 20 groups that make up the new CIBER on frailty and aging (CIBERFES). In this context, we collaborate with another CIBER groups as well as with others research groups

We would like to highlight the collaboration with the Cardiology Department of Hospital 12 de Octubre in Madrid, of the National Center for Cardiovascular Research.

Group members

	Surname	*Name*	*Euraxess Profile*
MAYORDOMO	CAVA	JENNIFER	R2)
MONTERO	FERNANDEZ	NURIA	R1
ORTIZ	ALONSO	JAVIER	R3
SERRA	REXACH	JOSÉ ANTONIO	R4
VIDAN	ASTIZ	MARIA TERESA	R3
ZARRALANGA	LASOBRAS	TERESA	R1

Research Projects – Competitive Calls

TITLE: I**ntegrated prevention and detection solutions tailored to the population and risk factors asociated with falls**. CIP11/IDONTFALL
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: EUROPEAN COMMISSION
START DATE: 01/04/2012
END DATE: 21/09/2018

TITLE: **Prevencion del deterioro funcional asociado a la hospitalización en ancianos mediante un programa de ejercicio físico.** PI12/02852
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2013
END DATE: 31/12/2018

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: **38.9***

	Nº	**IF**
Own publications	1	3.4
Joint publications	11	35.6
First decile publications	2	9.6
First quartile publications	6	24.6
Second quartile publications	3	10.2
Third quartile publications	1	1.8
Fourth quartile publications	2	2.3
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**12**	**38.9**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Ayesta, A; Astiz, MTV; Masa, MJV; Segovia, J; Cosio, MDG; Martinez-Selles, M. Rationale and design of the FELICITAR registry (Frailty Evaluation After List Inclusion, Characteristics and Influence on Transplantation and Results). CLINICAL CARDIOLOGY. 2018; 41(3) 293-299. FI: 2,455. Cuartil: 2. (Article).*
- *Martin-Sanchez FJ; Rodriguez-Adrada E; Vidan MT; Villanueva, PD; Garcia, GL; del Castillo, JG; Rizzi, MA; Alquezar A; Mateo, SH; Pinera P; Nicolas, JAS; Aragues, PL; Llorens P; Herrero P; Jacob J; Gill, V; Fernandez, C; Bueno, H; Miro, O. Impact of geriatric assessment variables on 30-day mortality among older patients with acute heart failure. Emergencias. 2018; 30(3) 149-155. FI: 3,35. Cuartil: 1. (Article).*

- *Vidan, MT. Falls in older people: a nonspecific warning sign. Emergencias. 2018; 30(4) 219-220. FI: 3,35. Cuartil: 1. (Editorial Material).*
- *Llao, I; Ariza-Sole, A; Sanchis, J; Alegre, O; Lopez-Palop, R; Formiga, F; Marin, F; Vidan, MT; Martinez-Selles, M; Sionis, A; Vives-Borras, M; Gomez-Hospital, JA; Gomez-Lara, J; Roura, G; Diez-Villanueva, P; Nunez-Gil, I; Maristany, J; Asmarats, L; Bueno, H; Abu-Assi, E; Cequier, A; LONGEVO-SCA Registry Investigators. Invasive strategy and frailty in very elderly patients with acute coronary syndromes. EuroIntervention. 2018; 14(3) 336-342. FI: 4,018. Cuartil: 2. (Article).*
- *Walker, DM; Gale, CP; Lip, G; Martin-Sanchez, FJ; McIntyre, HF; Mueller, C; Price, S; Sanchis, J; Vidan, MT; Wilkinson, C; Zeymer, U; Bueno, H. Editor's Choice - Frailty and the management of patients with acute cardiovascular disease: A position paper from the Acute Cardiovascular Care Association. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2018; 7(2) 176-193. FI: 3,734. Cuartil: 2. (Article).*
- *Bernal, E; Bayes-Genis, A; Ariza-Sole, A; Formiga, F; Vidan, MT; Escobar-Robledo, LA; Aboal, J; Alcoberro, L; Guerrero, C; Ariza-Segovia, I; de Benito, AH; Vilardell, P; Sanchez-Salado, JC; Lorente, V; de Luna, AB; Martinez-Selles, M. Interatrial block, frailty and prognosis in elderly patients with myocardial infarction. JOURNAL OF ELECTROCARDIOLOGY. 2018; 51(1) 1-7. FI: 1,166. Cuartil: 4. (Article).*
- *Bernal E; Bayes-Genis A; Ariza-Sole A; Formiga F; Vidan MT; Escobar-Robledo LA; Aboal J; Alcoberro L; Guerrero C; Ariza-Segovia I; de Benito AH; Vilardell P; Sanchez-Salado JC; Lorente V; de Luna AB; Martinez-Selles M. Corrigendum to "Interatrial block, frailty and prognosis in elderly patients with myocardial infarction" [J Electrocardiol 51(2018) 1-7]. JOURNAL OF ELECTROCARDIOLOGY. 2018; 51(4) 747-747. FI: 1,166. Cuartil: 4. (Article).*
- *Guerrero, C; Ariza-Sole, A; Formiga, F; Martinez-Selles, M; Vidan, MT; Aboal, J. Applicability of the PRECISE-DAPT score in elderly patients with myocardial infarction. Journal of Geriatric Cardiology. 2018; 15(12) 713-717. FI: 1,763. Cuartil: 3. (Article).*
- *Yang, XB; Lupon, J; Vidan, MT; Ferguson, C; Gastelurrutia, P; Newton, PJ; Macdonald, PS; Bueno, H; Bayes-Genis, A; Woo, J; Fung, E. Impact of Frailty on Mortality and Hospitalization in Chronic Heart Failure: A Systematic Review and Meta-Analysis. Journal of the American Heart Association. 2018; 7(23) -. FI: 4,66. Cuartil: 1. (Article).*
- *Alegre, O; Formiga, F; Lopez-Palop, R; Marin, F; Vidan, MT; Martinez-Selles, M; Carol, A; Sionis, A; Diez-Villanueva, P; Aboal, J; Palau-Vendrel, A; Bueno, H; Rivera, AP; Sanchis, J; Abu-Assi, E; Corbi, M; Castillo, JC; Baneras, J; Gonzalez-Salvado, V; Cequier, A; Ariza-Sole, A; LONGEVO-SCA Registry Investigators. An Easy Assessment of Frailty at Baseline Independently Predicts Prognosis in Very Elderly Patients With Acute Coronary Syndromes. JOURNAL OF THE AMERICAN MEDICAL DIRECTORS ASSOCIATION. 2018; 19(4) 296-303. FI: 4,899. Cuartil: 1. (Article).*
- *Vicent, L; Ariza-Sole, A; Gonzalez-Juanatey, JR; Uribarri, A; Ortiz, J; de Sa, EL; Sans-Rosello, J; Querol, CT; Codina, P; Sousa-Casasnovas, I; Martinez-Selles, M; Cardiac Arrest Myocardial. Exercise-related severe cardiac events. SCAND J MED SCI SPOR. 2018; 28(4) 1404-1411. FI: 3,631. Cuartil: 1. (Article).*
- *Ariza-Sole, A; Guerrero, C; Formiga, F; Aboal, J; Abu-Assi, E; Marin, F; Bueno, H; Alegre, O; Lopez-Palop, R; Vidan, MT; Martinez-Selles, M; Diez-Villanueva, P; Vilardell, P; Sionis, A; Vives-Borras, M; Sanchis, J; Baneras, J; Rafecas, A; Llibre, C; Lopez, J; Gonzalez-Salvado, V; Cequier, A; LONGEVO-SCA Registry Investigators. Global Geriatric Assessment and In-Hospital Bleeding Risk in Elderly Patients with Acute Coronary Syndromes: Insights from the LONGEVO-SCA Registry. THROMBOSIS AND HAEMOSTASIS. 2018; 118(3) 581-590. FI: 4,733. Cuartil: 1. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Martin-Sanchez, FJ; Diez-Villanueva, P; Vidan, M. Authors' reply. Emergencias. 2018; 30(5) 363-364. FI: 3,35. Cuartil: 1. (Letter).*
- *Valenzuela, PL; Morales, JS; Santos-Lozano, A; Serra-Rexach, JA; Izquierdo, M; Lucia, A. mHealth and Aging. JOURNAL OF THE AMERICAN MEDICAL DIRECTORS ASSOCIATION. 2018; 19(9) 810-811. FI: 4,899. Cuartil: 1. (Letter).*

Other publications

- *Romero Estarlich V; Gonzalez-Senac NM; Yulissa Pena Lora D; Vidan Astiz MT; Serra Rexach JA. Elevacion progresiva del marcador tumoral CA 19-9 en nonagenaria con fibrosis pulmonar idiopatica avanzada. Revista Espanola de Geriatria y Gerontologia. 2018; 53(6) 360-361. (Article).*
- *Martin-Asenjo R; Bueno H; Vidan MT. Anticoagulacion en el anciano: inverted question markson suficientes guias y algoritmos para ejercer bien la medicina o todavia queda lugar para el arte?. Revista Espanola de Geriatria y Gerontologia. 2018; 53(6) 314-316. (Editorial Material).*
- *Romero Estarlich V; Vasquez Grande JP; Gomez-Olano Picabea FJ; Ortiz Alonso FJ; Vidan Astiz MT. Octogenaria con artritis reumatoide, febricula, derrame pericardico severo y esplenomegalia. Revista Espanola de Geriatria y Gerontologia. 2018; 53(5) 301-302. (Letter).*
- *Gonzalez-Senac NM; Romero Estarlich V; Maranon Fernandez E; Serra-Rexach JA. Aspergilosis pulmonar invasiva en paciente anciano con absceso cerebral de origen odontogenico. Revista Espanola de Geriatria y Gerontologia. 2018; 53(4) 237-239. (Letter).*
- *Saez-Lopez P; Gonzalez-Montalvo JI; Ojeda-Thies C; Mora-Fernandez J; Munoz-Pascual A; Cancio JM; Tarazona FJ; Pareja T; Gomez-Campelo P; Montero-Fernandez N; Alarcon T; Mesa-Lampre P; Larrainzar-Gar R; Duaso E; Gil-Garay E; Diez-Perez A; Prieto-Alhambra D; Queipo-Matas R; Otero-Puime A; participants in the RNFC. Spanish National Hip Fracture Registry (SNHFR): a description of its objectives, methodology and implementation. Revista Espanola de Geriatria y Gerontologia. 2018; 53(4) 188-195. (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
ARRIAGA	REDONDO	MARIA	R2
BERNARDO	ATIENZA	BELEN	R1
BLANCO	BRAVO	DOROTEA	R2
CABALLERO	MARTIN	SYLVIA	R1
CHIMENTI	CAMACHO	PAZ	R1
FRANCO	FERNANDEZ	MARIA LUISA	R1
GONZALEZ	PACHECO	NOELIA	R1
MADERUELO	RODRIGUEZ	ELENA	R1
MARSINYACH	ROS	MARIA ITZIAR	R2
PÉREZ	PÉREZ	ALBA	R1
PESCADOR	CHAMORRO	MARIA ISABEL	R1
RAMOS	NAVARRO	CRISTINA	R1
RODRIGUEZ	SANCHEZ DE LA BLANCA	ANA	R1
SANCHEZ	LUNA	MANUEL	R4
SÁNCHEZ	GÓMEZ DE ORGAZ	MARÍA DEL CARMEN	R1
SANZ	LÓPEZ	ESTHER	R1
VILLAR	CASTRO	SONIA	R1
ZAMORA	FLORES	ELENA	R1
ZEBALLOS	SARRATO	GONZALO	R1
ZEBALLOS	SARRATO	SUSANA ELENA	R1

Research Projects – Competitive Calls

TITLE: **Uso de heliox en la prevencion del daño respiratorio crónico tras la exposición a diferentes concentraciones de oxígeno en rats recien nacidas**. PI11/01338
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2012
END DATE: 20/09/2018

TITLE: V**entilación mecánica de alta frecuencia con frecuencias elevadas de protección pulmonar en el sindrome de distrés respiratorio de lechones recien nacidos**. PI14/00149
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2015
END DATE: 31/12/2018

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

Clinical Practice Guidelines

Year	*Authors*	*Title*	*Journal / Reference*
2017	Sánchez-Redondo Sánchez-Gabriel MD, Leante Castellanos JL, Benavente Fernández I, Pérez Muñuzuri A, Rite Gracia S, Ruiz Campillo CW, Sanz López E, Sánchez Luna M.	**Guidelines for prevention, detection and management of hyperbilirubinaemia in newborns of 35 or more weeks of gestation**	An Pediatr (Barc) 2017; 87 (5): 294.e1-294.e8.
2017	Sanz López E, Sánchez Luna M, Rite Gracia S, Benavente Fernández I, Leante Castellanos JL, Pérez Muñuzuri A, Ruiz Campillo CW, Sánchez Redondo MD.	**Recommendations for the unequivocal identification of the newborn**	An Pediatr (Barc) 2017; 87 (4): 235.e1-235.e4.
2017	Benavente Fernández I, Sánchez Redondo MD, Leante Castellanos JL, Pérez Muñuzuri A, Rite Gracia S, Ruiz Campillo CW, Sanz López E, Sánchez Luna M.	**Hospital discharge criteria for very low birth weight newborns**	An Pediatr (Barc) 2017; 87 (1): 54.e1-54.e8.
2017	Rite Gracia S, Pérez Muñuzuri A, Sanz López E, Leante Castellanos JL, Benavente Fernández I, Ruiz Campillo CW, Sánchez Redondo MD, Sánchez Luna M.	**Criteria for hospital discharge of the healthy term newborn after delivery**	n Pediatr (Barc) 2017; 86 (5): 289.e1-289.e6.
2018	Sánchez Luna M, Pérez Muñuzuri A, Sanz López E, Leante Castellanos JL, Benavente Fernández I, Ruiz Campillo CW, Sánchez Redondo MD, Vento Torres M, Rite Gracia S.	**Pulse oximetry screening of critical congenital heart defects in the neonatal period. The Spanish National Neonatal Society recommendation**	An Pediatr (Barc) 2018; 88 (2): 112.e1-112.e6.
2018	Leante Castellanos JL, Pérez Muñuzuri A, Ruiz Campillo CW, Sanz López E, Benavente Fernández I, Sánchez Redondo MD, Rite Gracia S, Sánchez Luna M.	**Recommendations for the care of the umbilical cord in the newborn**	An Pediatr (Barc) 2019; 90 (6): 401.e1-401.e5.

Publications *Total Impact Factor:* ***13.5***

	Nº	**IF**

Own publications	3	5.8
Joint publications	3	7.8
First decile publications	0	-
First quartile publications	1	4.2
Second quartile publications	3	6.4
Third quartile publications	2	3.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**6**	**13.5**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Luna, MS; Fernandez-Perez, C; Bernal, JL; Elola, FJ. Spanish population-study shows that healthy late preterm infants had worse outcomes one year after discharge than term-born infants. ACTA PAEDIATRICA. 2018; 107(9) 1529-1534. FI: 2,265. Cuartil: 2. (Article).*
- *Sanchez-Luna M; Gonzalez-Pacheco N; Belik J; Santos M; Tendillo F. New Ventilator Strategies: High-Frequency Oscillatory Ventilation Combined with Volume Guarantee. AM J PERINAT. 2018; 35(6) 545-548. FI: 1,581. Cuartil: 3. (Article).*
- *de La Blanca, ARS; Luna, MS; Pacheco, NG; Redondo, MA; Patio, NN. Electrical velocimetry for non-invasive monitoring of the closure of the ductus arteriosus in preterm infants. EUROPEAN JOURNAL OF PEDIATRICS. 2018; 177(2) 229-235. FI: 2,188. Cuartil: 2. (Article).*
- *Gil-Jaurena, JM; Gonzalez-Lopez, MT; Pita, A; Perez-Caballero, R; Hervias, M; Blanco, D. Beating-heart aortic arch surgery in neonates and infants. Interactive Cardiovascular and Thoracic Surgery. 2018; 27(4) 586-590. FI: 1,931. Cuartil: 2. (Article).*
- *Vandenplas, Y; Berger, B; Carnielli, VP; Ksiazyk, J; Lagstrom, H; Luna, MS; Migacheva, N; Mosselmans, JM; Picaud, JC; Possner, M; Singhal, A; Wabitsch, M. Human Milk Oligosaccharides: 2'-Fucosyllactose (2'-FL) and Lacto-N-Neotetraose (LNnT) in Infant Formula. Nutrients. 2018; 10(9) -. FI: 4,171. Cuartil: 1. (Article).*
- *Ogando, AR; Asensio, IP; de la Blanca, ARS; Tejerizo, FB; Luna, MS; Jaurena, JMG; Lopez, CM; Martinez, JLZ. Surgical Ligation Versus Percutaneous Closure of Patent Ductus Arteriosus in Very Low-Weight Preterm Infants: Which are the Real Benefits of the Percutaneous Approach?. PEDIATR CARDIOL. 2018; 39(2) 398-410. FI: 1,413. Cuartil: 3. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Luna, MS; Munuzuri, AP; Spanish Soc Neonatology. Cribado de cardiopatias congenitas criticas en el periodo neonatal. Recomendacion de la Sociedad Espanola de Neonatologia. En respuesta al editor. ANALES DE PEDIATRIA. 2018; 88(4) 235-236. FI: 1,166. Cuartil: 3. (Letter).*
- *Perez, A; Vigil, S; Pescador, I; Fernandez, B; Jimenez, L; Agra, C; de Rojas, T; Sanchez-Luna, M. Infantile hemangiopericytoma leading to hypovolemic shock in a neonate. PEDIATRIC BLOOD & CANCER. 2018; 65(5) -. FI: 2,486. Cuartil: 1. (Letter).*
- *Rodríguez Ogando A; Ballesteros Tejerizo F; Blanco Bravo D; Sánchez Luna M; Zunzunegui Martínez JL. Transcatheter Occlusion of Patent Ductus Arteriosus in Preterm Infants Weighing Less Than 2 kg With the Amplatzer Duct Occluder II Additional Sizes Device. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(10) 865-866. FI: 5,126. Cuartil: 1. (Letter).*

Other publications

- *López-Herce Cid J; Rodríguez Núñez A; Carrillo Álvarez Á; Zeballos Sarrato G; Martínez Fernández-Llamazares C; Calvo Macías C; Grupo Español de Reanimación Cardiopulmonar Pediátrica y Neonatal. Recomendaciones de expertos sobre el material del carro y mochila de reanimacion cardiopulmonar pediatrica y neonatal. ANALES DE PEDIATRIA. 2018; 88(3) -. FI: 1,166. Cuartil: 3. (Article).*
- *Sanchez Luna M; Perez Munuzuri A; Sanz Lopez E; Leante Castellanos JL; Benavente Fernandez I; Ruiz Campillo CW; Sanchez Redondo MD; Vento Torres M; Rite Gracia S; en representacion del Comite de Estandares de la Sociedad Espanola de Neonatolog. Cribado de cardiopatias congenitas criticas en el periodo neonatal. Recomendacion de la Sociedad Espanola de Neonatologia. ANALES DE PEDIATRIA. 2018; 88(2) -. FI: 1,166. Cuartil: 3. (Article).*
- *Nunez A; Benavente I; Blanco D; Boix H; Cabanas F; Chaffanel M; Fernandez-Colomer B; Fernandez-Lorenzo JR; Loureiro B; Moral MT; Pavon A; Tofe I; Valverde E; Vento M; co-investigadores del ensayo clinico. Estres oxidativo en la asfixia perinatal y la encefalopatia hipoxico-isquemica. ANALES DE PEDIATRIA. 2018; 88(4) -. FI: 1,166. Cuartil: 3. (Article).*

7.25 Artificial circulation laboratory

Group Director: **Juan Francisco del CañizoLópez**

Organisms involved: **HGUGM**

Emerging group

Research lines

L 1: Circulatory support devices. Effects of the different types of flow (pulsatile and nonpulsatile) on perfusion of different organs
L 2: Normothermic perfusion of the isolated liver
L 3: Decellularization of the liver
L 4: 3D printing of tissues
L 5: Simulation of various medical devices.

Group members

Surname		Name	Role
BARRIO	GUTIERREZ	JOSE MARIA	Postdoctoral
BENEYTO	CRUZ	ROSARIO	Others
CUERPO	CABALLERO	GREGORIO PABLO	Postdoctoral
DEL CAÑIZO	LOPEZ	JUAN FRANCISCO	Senior researcher
FERNÁNDEZ	LÓPEZ	IGNACIO	Others (MIR)
PÉREZ-CABALLERO	MARTINEZ	RAMÓN	Postdoctoral
RIVERA	MUÑOZ	ANDRES	Otros (Mir)
RUIZ	FERNÁNDEZ	MANUEL	Postdoctoral
SICILIA	ALONSO	JAVIER	
ZAMORANO	SERRANO	JOSÉ ÁNGEL	

Research Projects – Competitive Calls

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: 31/12/2018

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

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

Patents and intellectual property registrations

Patents

Title	Reference	Owner	Inventors
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 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

Publications *Total Impact Factor:* ***22.8***

	Nº	IF
Own publications	1	1.2
Joint publications	8	21.6
First decile publications	1	5.3
First quartile publications	3	12.8
Second quartile publications	3	6.6
Third quartile publications	1	2.1
Fourth quartile publications	1	1.2
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**9**	**22.8**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Rosello-Diez, E; Cuerpo, G; Estevez, F; Munoz-Guijosa, C; Tauron, M; Cuenca, JJ; Gonzalez-Pinto, A; Padro, JM. Use of the Perceval Sutureless Valve in Active Prosthetic Aortic Valve Endocarditis. ANNALS OF THORACIC SURGERY. 2018; 105(4) 1168-1174. FI: 3,919. Cuartil: 1. (Article).*
- *Vicent, L; Saldivar, HG; Bouza, E; Munoz, P; Cuerpo, G; de Alarcon, A; Vidal, B; Cobo, M; Goenaga, MA; Carrasco-Chinchilla, F; Montejo, M; Galvez-Acebal, J; Hidalgo-Tenorio, C; Vinuesa-Garcia, D; Martinez-Selles, M; GAMES investigators. Prognostic implications of a negative echocardiography in patients with infective endocarditis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2018; 52 40-48. FI: 3,66. Cuartil: 1. (Article).*
- *Garcia, EB; Rosell, MLC; Cid, FE; Dominguez, ES; Barrera, RR; Sbraga, F; Puente, JG; Diez, ER; Caballero, GPC; Munguira, JB; Copa, GR; Pajuelo, MT; Fiz, SS; Minano, JAB; Martin, IG; Castillo, JC; Lopez, SC; Pinto, AG; Baliarda, XR. Perceval Less Invasive Aortic Replacement Register: multicentric Spanish experience with the Perceval S bioprosthesis in moderate-high-risk aortic surgery. Interactive Cardiovascular and Thoracic Surgery. 2018; 26(4) 596-601. FI: 1,931. Cuartil: 2. (Article).*
- *Gil-Jaurena, JM; Gonzalez-Lopez, MT; Pita, A; Perez-Caballero, R; Hervias, M; Blanco, D. Beating-heart aortic arch surgery in neonates and infants. Interactive Cardiovascular and Thoracic Surgery. 2018; 27(4) 586-590. FI: 1,931. Cuartil: 2. (Article).*
- *Gullon, L; Gutierrez-Gutierrez, J; del Arco, RTS; Rivera, A; Fernandez, I; Del Canizo, JF. Development of an automated liver perfusion system: The benefit of a hemofilter. INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS. 2018; 41(11) 723-729. FI: 1,232. Cuartil: 4. (Article).*
- *Perez-Granda MJ; Barrio JM; Hortal J; Burillo A; Munoz P; Bouza E. Impact of selective digestive decontamination without systemic antibiotics in a major heart surgery intensive care unit. JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY. 2018; 156(2) 685-693. FI: 5,261. Cuartil: 1. (Article).*
- *Bouza, E; Burillo, A; Munoz, P; Valerio, M; Barrio, JM; Hortal, J; Cuerpo, G; Perez-Granda, MJ. Do lower respiratory tract samples contribute to the assessment of carriage of Staphylococcus aureus in patients undergoing mechanical ventilation after major heart surgery?. PLoS One. 2018; 13(12) -. FI: 2,776. Cuartil: 2. (Article).*
- *Munoz, P; Valerio, M; Vasquez, V; Velasquez-Rodriguez, J; Sousa, I; Zatarain, E; Barrio, JM; Ruiz, M; Cuerpo, G; Rodriguez-Abella, H; Hortal, J; Bouza, E; Grp Apoyo Manejo Asistencias Ventr. Infections in patients after Berlin Heart((R)) EXCOR assist device implantation. TRANSPLANT INFECTIOUS DISEASE. 2018; 20(5) -. FI: 2,112. Cuartil: 3. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Zaballos, M; Reyes, A; Etulain, J; Monteserin, C; Rodriguez, M; Velasco, E. Desflurane versus propofol in post-operative quality of recovery of patients undergoing day laparoscopic cholecystectomy. Prospective, comparative, non-inferiority study. Revista Espanola de Anestesiologia y Reanimacion. 2018; 65(2) 96-102. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Garcia, MSDM; Ordonez, MDL; Diaz-Zorita, B; Baeza, ML. An infrequent case of anaphylaxis. ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. 2018; 120(1) 104-105. FI: 3,56. Cuartil: 2. (Letter).*
- *Gil-Jaurena JM; González-López MT; Pita-Fernández A; Pérez-Caballero R; Prieto R; Medrano C. The Cone Technique for Ebstein Repair. First Cases. REVISTA ESPANOLA DE CARDIOLOGIA. 2018; 71(6) 490-491. FI: 5,126. Cuartil: 1. (Letter).*

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.

Group members

Surname		Name	Role
DIAZ	REDONDO	ALICIA	Predoctoral
GRANDE	ARMESTO	MARTA	Predoctoral
IZQUIERDO	MEMBRILLA	ISABEL	Predoctoral
LLORENTE	PARRADO	CESAR	Predoctoral
MOLINA	VILLAVERDE	DIANA	
NIETO	PEREDA	BEATRIZ	Predoctoral
PLA	MESTRE	ROSA	Predoctoral
PUENTE	GONZALEZ	DOLORES	Predoctoral
VIGIL	ESCRIBANO	M.DOLORES	Predoctoral

Publications

Total Impact Factor:**4.6**

	Nº	IF
Own publications	1	2.4
Joint publications	1	2.2
First decile publications	1	2.4
First quartile publications	1	2.4
Second quartile publications	0	0.0
Third quartile publications	1	2.2
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-

Total publications (incluging those without IF)	**2**	**4.6**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Trivino-Juarez, JM; Romero-Ayuso, D; Nieto-Pereda, B; Forjaz, MJ; Oliver-Barrecheguren, C; Mellizo-Diaz, S; Aviles-Gamez, B; Arruti-Sevilla, B; Criado-Alvarez, JJ; Soto-Lucia, C; Pla-Mestre, R. Resumption of intercourse, self-reported decline in sexual intercourse and dyspareunia in women by mode of birth: A prospective follow-up study. J ADV NURS. 2018; 74(3) 637-650. FI: 2,376. Cuartil: 1. (Article).*
- *Lajas, AC; Gonzalez, EG; Parrado, CL; Maestu, LP; de Miguel-Diez, J. Readmission Due to Exacerbation of COPD: Associated Factors. LUNG. 2018; 196(2) 185-193. FI: 2,231. Cuartil: 3. (Article).*

Other publications

- *Amor-Garcia MA; Ibáñez-García S; Diaz-Redondo A; Herranz Alonso A; Sanjurjo Saez M. Multidisciplinary strategy to reduce errors with the use of medical gases. Farmacia Hospitalaria. 2018; 42(3) 103-107. (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.
Line 2: Genetics in biomedicine.
Line 3: Nanomedicine

Group members

	Surname	*Name*	*Role*
AIS	LARISGOITIA	Mª ARANZAZU	Predoctoral
AMOR	GARCIA	MIGUEL ÁNGEL	Predoctoral
ARAGONESES		GUADALUPE	
BLANCO	AGUDO	CAROLINA PILAR	Support technician
CHAMORRO	DE VEGA	ESTHER	Predoctoral
COLLADO	BORREL	ROBERTO	Predoctoral
DE LORENZO	PINTO	ANA	Postdoctoral
DURAN	GARCIA	MARIA ESTHER	Postdoctoral
ESCUDERO	VILAPLANA	VICENTE	Postdoctoral
GARCIA	GARCIA	MARIA ISABEL	Support technician
GARCIA	GONZALEZ	XANDRA	Predoctoral
GARCIA	MARTIN	ESTELA	Predoctoral
GARCÍA	MORENO	FÉLIX JESÚS	Predoctoral
GARCIA	SANCHEZ	RAQUEL	Predoctoral
GARCÍA	SÁNCHEZ	SEBASTIÁN	Predoctoral
GIMENEZ	MANZORRO	ALVARO	Postdoctoral
GONZALEZ-HABA	PEÑA	EVA	Predoctoral
HERRANZ	ALONSO	ANA	Postdoctoral
HOYO	MUÑOZ	ÁNGELA	
IBAÑEZ	GARCIA	SARA	Predoctoral
LOBATO	MATILLA	MARIA ELENA	Predoctoral
LOPEZ	FERNANDEZ	LUIS ANDRES	Miguel Servet

	Surname	Name	Role
MANRIQUE	RODRIGUEZ	SILVIA	Postdoctoral
MARTIN	BARBERO	MARIA LUISA	Predoctoral
MARTINEZ	FERNANDEZ-LLAMAZARES	CECILIA	Postdoctoral
MARTINEZ	ORTEGA	PILAR	Predoctoral
MARZAL	ALFARO	BELEN	Predoctoral
MELGALEJO	ORTUÑO	ALEJANDRA	Predoctoral
MUR	MUR	ANA	Predoctoral
NARRILLOS	MORAZA	ALVARO	
ORTEGA	NAVARRO	MARIA CRISTINA	Predoctoral
PERNIA	LÓPEZ	Mª SAGRARIO	Predoctoral
REVUELTA	HERRERO	JOSE LUIS	Predoctoral
RIBED	SANCHEZ	ALMUDENA	Postdoctoral
RODRÍGUEZ	GONZÁLEZ	CARMEN GUADALUPE	Postdoctoral
ROMERO	JIMENEZ	ROSA MARIA	Postdoctoral
RUIZ	MARTÍNEZ	CRISTINA	Predoctoral
SALVADOR	MARTÍN	SARA	Support Technician
SÁNCHEZ	FRESNEDA	Mª NORBERTA	Predoctoral
SANJURJO	SÁEZ	MARÍA	Senior Researcher
SAROBE	GONZALEZ	CAMINO	Predoctoral
SEVILLA	FERNÁNDEZ	PAULA	Predoctoral

Research Projects – Competitive Calls

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

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: **E-OncoSalud: programa de tele-medicina aplicado al tratamiento ambulatorio del paciente onco-hematológico**. PI13/02056
DIRECTOR: SANJURJO SÁEZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2017
END DATE: 30/09/2018

TITLE: **Patient-reported Outcomes in Lung cancer: Estudio PeOpLe** VEV-PUL-2017-01
DIRECTOR: ESCUDERO VILAPLANA, VICENTE
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE FARMACIA HOSPITALARIA
START DATE: 01/01/2014
END DATE: 31/12/2018

TITLE: **Young employement contract: Ayudante de Investigación** PEJ16/MED/AI-1260
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/01/2018

END DATE: 31/12/2020

TITLE: **Young employement contract: Técnico de laboratorio.** PEJ15/BIO/TL-0603
DIRECTOR: BLANCO AGUDO, CAROLINA PILAR
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/03/2016
END DATE: 01/03/2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
ISCIII Platform	SCReN: Spanish Clinical Research Network	Collaborating group

Patents and intellectual property registrations

Intellectual property

Title	*Reference*	*Owner*	*Inventors*
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
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**
Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal sanitaria de enfermería de planta y evaluación de su competencia	Nº Asiento Registral: 16/2015/503	FIBHGM	Elena Lobato **María Sanjurjo** Ana Herranz Carmen Rodríguez
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.
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.
Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes/antiagregados	Nº Asiento Registral: 16/2017/507	FIBHGM	Sara Ibáñez Ana de Lorenzo Ana Herranz **María Sanjurjo** 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	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

Title	Reference	Owner	Inventors
tratamientos mediante monitorización farmacocinética			
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 thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	**Sara Salvador Martín**	Polimorfismos genéticos asociados con respuesta sostenida a fármacos anti-TNFs en enfermedad inflamatoria intestinal	Luis López Fernandez	UCM	June 26th /2018
Ph Thesis	**María Jarama Ruiz**	Genotipado y análisis de la expresión de DPYD a partir de mRNA de células de sangre periférica	Luis López Fernandez	UPM	September 5th 2018
Ph Thesis	**Esther Chamorro de Vega**	Impacto de un programa de atención farmacéutica especializada al paciente con infección por el virus de la hepatitis c en tratamiento con antivirales de acción direct	Iglesias Peinado, Irene / Escudero Vilaplana, Vicente Damián /Giménez Manzorro, Álvar	UCM	July 19th 2018

Clinical Practice Guides

Year	Authors	Title	Journal/Reference
2018	Fuentes-Irigoyen R; Martin de Rosales Cabrera AM; Riestra AC; Vila MN; Davila-Pousa C; Alonso Herreros JM; Lopez-Cabezas C; Canete C; Pernia-Lopez MS; Garcia-Palomo M; Arriola Villalobos P; Ibares-Frias L; Urcelay Segura JL; Yanez Martinez JR	**Consensus SEO-SEFH of recommendations for use and compounding of ophthalmic preparations.**	Farm Hosp. 2018 Mar 1;42(2):82-88
2018	López-Herce Cid J; Rodríguez Núñez A; Carrillo Álvarez Á; Zeballos Sarrato G; Martínez Fernández-Llamazares C; Calvo Macías C; Grupo Español de Reanimación Cardiopulmonar Pediátrica y Neonatal	**Recomendaciones de expertos sobre el material del carro y mochila de reanimacion cardiopulmonar pediatrica y neonatal.**	An Pediatr. 2018;88(3):173
2017	Sanjurjo Sáez María, Herranz Alonso Ana María, Ibáñez García Sara, Galiano Fragua María Luisa, Rodríguez Macías María Gabriela, Vidán Astiz María Teresa, Sánchez Muñoz Gema	**Guía para la monitorización clínica de fármacos**	El copyright pertence a la FIBHGM
2017	Sanjurjo Sáez María, Herranz Alonso Ana María, Ibáñez García Sara, Galiano Fragua María Luisa, Rodríguez Macías María Gabriela, Vidán Astiz María Teresa, Sánchez Muñoz Gema	**Reglas clínicas para aumentar la seguridad u eficacia de los tratamientos mediante monitorización farmacocinética**	El copyright pertence a la FIBHGM

Publications

Total Impact Factor:***52.6***

	Nº	IF
Own publications	12	33.4
Joint publications	9	19.1
First decile publications	2	10.5
First quartile publications	4	18.8

Second quartile publications	5	15.7
Third quartile publications	6	14.5
Fourth quartile publications	3	3.5
Nonindexed publications / No IF	3	-
Total publications (incluging those without IF)	**21**	**52.6**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Revuelta-Herrero JL; Escudero-Vilaplana V; Álvarez-Álvarez R; Sanjurjo-Sáez M. Pazopanib-Associated Transient Ischemic Attack. AMERICAN JOURNAL OF THERAPEUTICS. 2018; 25(3) 393-394. FI: 1,133. Cuartil: 4. (Article).*
- *Revuelta-Herrero, JL; Chamorro-De-Vega, E; Rodriguez-Gonzalez, CG; Alonso, R; Herranz-Alonso, A; Sanjurjo-Saez, M. Effectiveness, Safety, and Costs of a Treatment Switch to Dolutegravir Plus Rilpivirine Dual Therapy in Treatment-Experienced HIV Patients. ANN PHARMACOTHER. 2018; 52(1) 11-18. FI: 2,443. Cuartil: 3. (Article).*
- *Osorio, S; Escudero-Vilaplana, V; Gomez-Centurion, I; Perez-Lopez, R; Ayala, R; Vall-Llovera, F; Garcia-Gutierrez, V; Casares, MTG; Miguel, JDGS; Hernandez-Rivas, JA; Sanchez-Guijo, F; Martinez-Garcia, AB; Villalon, L; Conesa-Garcia, V; Rodriguez, A; Casado, F; Garcia-Gonzalez, X; Perdomo, MNS; Banos, U; Steegmann, JL; CML Spanish Grp GELMC. Drug-to-drug interactions of tyrosine kinase inhibitors in chronic myeloid leukemia patients. Is it a real problem?. ANNALS OF HEMATOLOGY. 2018; 97(11) 2089-2098. FI: 2,85. Cuartil: 3. (Article).*
- *Garcia-Gonzalez, X; Lopez-Tarruella, S; Garcia, MI; Gonzalez-Haba, E; Blanco, C; Salvador-Martin, S; Jerez, Y; Thomas, F; Jarama, M; Saez, MS; Martin, M; Lopez-Fernandez, LA. Severe toxicity to capecitabine due to a new variant at a donor splicing site in the dihydropyrimidine dehydrogenase (DPYD) gene. Cancer Management and Research. 2018; 10 4517-4522. FI: 2,243. Cuartil: 3. (Article).*
- *Pérez-Granda MJ; Alonso B; Rodríguez-Huerta A; Rodríguez C; Guembe M. In vitro assessment of the anti-biofilm activity of ethanol alone and in combination with enoxaparin 60IU. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2018; 36(10) 627-632. FI: 1,685. Cuartil: 4. (Article).*
- *Valerio, M; Vena, A; Rodriguez-Gonzalez, CG; de Vega, EC; Mateos, M; Sanjurjo, M; Bouza, E; Munoz, P; COMIC Study Grp Collaborative. Repeated antifungal use audits are essential for selecting the targets for intervention in antifungal stewardship. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2018; 37(10) 1993-2000. FI: 2,591. Cuartil: 3. (Article).*
- *Marzal-Alfaro, MB; Barbero, MLM; Dominguez, JMG; Romero-Delgado, F; Gines, MLM; Herranz, A; Sanjurjo-Saez, M. Impact of fampridine on quality of life: clinical benefit in real-world practice. European Journal of Hospital Pharmacy-Science and Practice. 2018; 25(3) 138-143. FI: 0,717. Cuartil: 4. (Article).*
- *Chamorro-de-Vega, E; Gimenez-Manzorro, A; Rodriguez-Gonzalez, CG; Escudero-Vilaplana, V; De Lorenzo-Pinto, A; Iglesias-Peinado, I; Herranz-Alonso, A; Saezon, MS; GRUviC Study Grp. Twelve weeks of ombitasvir/paritaprevir/r and dasabuvir without ribavirin is effective and safe in the treatment of patients with HCV genotype 1b infection and compensated cirrhosis: results from a real-world cohort study. EXPERT OPINION ON DRUG SAFETY. 2018; 17(3) 235-241. FI: 3,22. Cuartil: 2. (Article).*
- *Gonzalez J; Quiroga M; Escudero-Vilaplana V; Collado-Borrell R; Herranz-Alonso A; Saez, MS. Posology adjustments of oral antineoplastic agents for special populations: patients with renal impairment, hepatic impairment and hematologic toxicities. EXPERT OPINION ON DRUG SAFETY. 2018; 17(6) 553-572. FI: 3,22. Cuartil: 2. (Article).*
- *Bouza, E; Valerio, M; Soriano, A; Morata, L; Carus, EG; Rodriguez-Gonzalez, C; Hidalgo-Tenorio, MC; Plata, A; Munoz, P; Vena, A; Dalbuse Study Grp Dalbavancina. Dalbavancin in the treatment of different gram-positive infections: a real-life experience. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2018; 51(4) 571-577. FI: 4,615. Cuartil: 1. (Article).*
- *Escudero-Vilaplana, V; Osorio-Prendes, S; Collado-Borrell, R; Gonzalez-Arias, E; Sanjurjo-Saez, M. Eosinophilia secondary to lenalidomide therapy. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2018; 43(2) 273-275. FI: 2,167. Cuartil: 3. (Article).*
- *Revuelta-Herrero JL; Giménez-Manzorro A; Matilla-Peña A; Herranz-Alonso A; Sanjurjo-Sáez M. Concomitant use of sorafenib with ombitasvir/paritaprevir/ritonavir and dasabuvir: Effectiveness and safety in clinical practice. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2018; 43(6) 906-909. FI: 2,167. Cuartil: 3. (Article).*
- *Romero-Jimenez RM; Escudero-Vilaplana V; Baniandres Rodriguez O; Garcia Martin E; Mateos Mayo A; Sanjurjo Saez M. Association between clinical factors and dose modification strategies in the treatment with ustekinumab for moderate-to-severe plaque psoriasis. JOURNAL OF DERMATOLOGICAL TREATMENT. 2018; 29(8) 792-796. FI: 2,112. Cuartil: 2. (Article).*
- *Alonso Fernandez, B; Perez Granda, MJ; Rodríguez Huerta, AM; Rodríguez González, CG; Bouza Santiago, Emilio. The optimal ethanol lock therapy regimen for treatment of biofilm-associated catheter infections: an in-vitro study. JOURNAL OF HOSPITAL INFECTION. 2018; 100(3) 187-195. FI: 3,704. Cuartil: 1. (Article).*

- *Collado-Borrell, R; Escudero-Vilaplana, V; Calles, A; Garcia-Martin, E; Marzal-Alfaro, B; Gonzalez-Haba, E; Herranz-Alonso, A; Sanjurjo-Saez, M. Oncology Patient Interest in the Use of New Technologies to Manage Their Disease: Cross-Sectional Survey. JOURNAL OF MEDICAL INTERNET RESEARCH. 2018; 20(10) -. FI: 4,945. Cuartil: 1. (Article).*

- *Jimenez, A; Ais, A; Beaudet, A; Gil, A. Determining the value contribution of selexipag for the treatment of pulmonary arterial hypertension (PAH) in Spain using reflective multi-criteria decision analysis (MCDA). ORPHANET JOURNAL OF RARE DISEASES. 2018; 13(1) 220-220. FI: 3,687. Cuartil: 2. (Article).*

- *De Andres, C; Garcia, MI; Goicoechea, H; Martinez-Gines, ML; Garcia-Dominguez, JM; Martin, ML; Romero-Delgado, F; Benguria, A; Sanjurjo, M; Lopez-Fernandez, LA. Genes differentially expressed by methylprednisolone in vivo in CD4 T lymphocytes from multiple sclerosis patients: potential biomarkers. PHARMACOGENOMICS J. 2018; 18(1) 98-105. FI: 3,503. Cuartil: 2. (Article).*

- *Salvador-Martin, 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. Clinical utility of ABCB1 genotyping for preventing toxicity in treatment with irinotecan. PHARMACOLOGICAL RESEARCH. 2018; 136 133-139. FI: 5,574. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Galve-Calvo, E; Gonzalez-Haba, E; Gostkorzewicz, J; Martinez, I; Perez-Mitru, A. Cost-effectiveness analysis of ribociclib versus palbociclib in the first-line treatment of HR+/HER2- advanced or metastatic breast cancer in Spain. ClinicoEconomics and Outcomes Research. 2018; 10 773-790. (Article).*

- *Gonzalez-Hada-Pena, E; Manrique-Rodriguez, S; Herranz-Alonso, AM; Iglesias-Peinado, I; Sanjurjo-Sáez M. A comparative study of contamination in three closed systems for the preparation of hazardous drugs through simulations with fluorescein. Farmacia Hospitalaria. 2018; 42(6) 234-238. (Article).*

- *Lopez-Fernandez, LA. ATP-Binding Cassette Transporters in the Clinical Implementation of Pharmacogenetics. Journal Of Personalized Medicine. 2018; 8(4) -. (Article).*

Letters of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor:

- *Chamorro-de-Vega E; Gimenez-Manzorro A; Sanjurjo M; GRUVIC Study Group. Sofosbuvir/ledipasvir as treatment of hepatitis C virus genotype 5 infection: Two case reports. MEDICINA CLINICA. 2018; 151(2) 85-86. FI: 1,277. Cuartil: 3. (Letter).*

Other publications

- *López-Herce Cid J; Rodríguez Núñez A; Carrillo Álvarez Á; Zeballos Sarrato G; Martínez Fernández-Llamazares C; Calvo Macías C; Grupo Español de Reanimación Cardiopulmonar Pediátrica y Neonatal. Recomendaciones de expertos sobre el material del carro y mochila de reanimacion cardiopulmonar pediatrica y neonatal. ANALES DE PEDIATRIA. 2018; 88(3) -. FI: 1,166. Cuartil: 3. (Article).*

- *Amor-Garcia MA; Ibáñez-García S; Diaz-Redondo A; Herranz Alonso A; Sanjurjo Saez M. Multidisciplinary strategy to reduce errors with the use of medical gases. Farmacia Hospitalaria. 2018; 42(3) 103-107. (Article).*

- *Fuentes-Irigoyen R; Martin de Rosales Cabrera AM; Riestra AC; Vila MN; Davila-Pousa C; Alonso Herreros JM; Lopez-Cabezas C; Canete C; Pernia-Lopez MS; Garcia-Palomo M; Arriola Villalobos P; Ibares-Frias L; Urcelay Segura JL; Yanez Martinez JR. Consensus SEO-SEFH of recommendations for use and compounding of ophthalmic preparations. Farmacia Hospitalaria. 2018; 42(2) 82-88. (Article).*

- *Mañes-Sevilla M; Marzal-Alfaro MB; Romero Jiménez R; Herranz-Alonso A; Sanchez Fresneda MN; Benedi Gonzalez J; Sanjurjo-Sáez M. Analisis modal de fallos y efectos para mejorar la calidad en los ensayos clinicos. Journal Of Healthcare Quality Research. 2018; 33(1) 33-47. (Article).*

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
ARHIP	-	LOREDANA	R1
BRETON	LESMES	IRENE	R1
CAMBLOR	ALVAREZ	MIGUEL	R1
CARRASCAL	FABIAN	Mª LUISA	Other
DE LA CUERDA	COMPES	MARIA CRISTINA	R3
FRIAS	SORIANO	LAURA	R1
GARCIA	PERIS	PILAR	R4
MORALES	CERCHIARO	ÁNGELA PATRICIA	R1
MOTILLA	DE LA CAMARA	MARTA LUISA	R1
SERRANO	MORENO	CLARA	R1
VELASCO	GIMENO	CRISTINA	R1

Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Master Thesis	**Ana Ergueta Carballo**	Polimorfismos genéticos asociados con respuesta sostenida a fármacos anti-TNFs en enfermedad inflamatoria intestinal	Cristina de la Cuerda	UCM	Julyne 5th /2018
Master Thesis	**María Jarama Ruiz**	Revisión de la evolución a largo plazo de pacientes intervenidos mediante gastrectomía vertical por obesidad mórbida	Pilar García Peris / Irene Bretón	UCM	June 16th 2018

Clinical Practice Guides

Year	Authors	Title	Journal/Reference
2018	Burgos, Rosa; BRETÓN LESMES, IRENE; Cereda, Emanuele; Desport, Jean Claude; Dziewas, Rainer; Genton, Laurence; Gomes, Filomena; Jesus, Pierre; Leischker, Andreas; Muscaritoli, Maurizio; Poulia, Kalliopi-Anna; Preiser, Jean Charles; Van der Marck, Marjolein; Wirth, Rainer; Singer, Pierre; Bischoff, Stephan C.	**ESPEN guideline clinical nutrition in neurology.**	Clin Nutr. 2018 Feb;37(1):354-396.
2018	Lal S, Pironi L, Wanten G, Arends J, Bozzetti F, Cuerda C, Joly F, Kelly D, Staun M, Szczepanek K, Van Gossum A, Schneider SM; Home Artificial Nutrition & Chronic Intestinal Failure Special Interest Group of the European Society for Clinical Nutrition and Metabolism (ESPEN).	**Clinical approach to the management of Intestinal Failure Associated Liver Disease (IFALD) in adults: A position paper from the Home Artificial Nutrition and Chronic Intestinal Failure Special Interest Group of ESPEN.**	Clin Nutr. 2018 Dec;37(6 Pt A):1794-1797
2018	Del Olmo García MªD, Virgili Casas N, Cantón Blanco A, Lozano Fuster FM, Wanden-Berghe C, Avilés V, Ashbaugh Enguídanos R, Ferrero López I, Molina Soria JB, Montejo González JC, Bretón Lesmes I, Álvarez Hernández J, Moreno Villares JM, Senpe GTÉS.	**Nutritional management of amyotrophic lateral sclerosis: summary of recommendations**	Nutr Hosp. 2018 Oct 8;35(5):1243-1251.

2018	Del Olmo García MD, Ocón Bretón J, Álvarez Hernández J, Ballesteros Pomar MD, Botella Romero F, Bretón Lesmes I, de Luis Román D, Luengo Pérez LM, Martínez Olmos MÁ, Olveira Fuster G; grupo de trabajo ConTSEEN del Área de Nutrición de la SEEN.	**Terms, concepts and definitions in clinical artificial nutrition. The ConT-SEEN Project.**	Endocrinol Diabetes Nutr. 2018 Jan;65(1):5-16.
2018	Camblor-Álvarez M, Ocón-Bretón MJ, Luengo-Pérez LM, Viruzuela JA, Sendrós-Maroño MJ, Cervera-Peris M, Grande E, Álvarez-Hernández J, Jiménez-Fonseca P.	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Nutr Hosp. 2018 Jan 10;35(1):224-233
2018	Ocón Bretón MJ, Luengo Pérez LM, Virizuela JA, Álvarez Hernández J, Jiménez Fonseca P, Cervera Peris M, Sendrós Madroño MJ, Grande E, Camblor Álvarez M.	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Endocrinol Diabetes Nutr. 2018 Mar;65 Suppl 1:17-23.
2018	Virizuela JA, Camblor-Álvarez M, Luengo-Pérez LM, Grande E, Álvarez-Hernández J, Sendrós-Madroño MJ, Jiménez-Fonseca P, Cervera-Peris M, Ocón-Bretón MJ	**Nutritional support and parenteral nutrition in the oncological patient: an expert group consensus report**	Clin Transl Oncol. 2018 May;20(5):619-629
2017	Lecube A, Monereo S, Rubio MÁ, Martínez-de-Icaya P, Martí A, Salvador J, Masmiquel L, Goday A, Bellido D, Lurbe E, García-Almeida JM, Tinahones FJ, García-Luna PP, Palacio E, Gargallo M, Bretón I, Morales-Conde S, Caixàs A,Menéndez E, Puig-Domingo M, Casanueva FF	**Prevention, diagnosis, and treatment of obesity. 2016 position statement of the Spanish Society for the Study of Obesity.**	Endocrinol Diabetes Nutr. 2017 Mar;64 Suppl 1:15-22.

Publications — *Total Impact Factor:* ***32.0***

	Nº	IF
Own publications	3	2.5
Joint publications	7	29.6
First decile publications	4	25.6
First quartile publications	4	25.6
Second quartile publications	0	0.0
Third quartile publications	1	2.4
Fourth quartile publications	5	4.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**10**	**32.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Virizuela, JA; Camblor-Alvarez, M; Luengo-Perez, LM; Grande, E; Alvarez-Hernandez, J; Sendros-Madrono, MJ; Jimenez-Fonseca, P; Cervera-Peris, M; Ocon-Breton, MJ. Nutritional support and parenteral nutrition in cancer patients: an expert consensus report. CLINICAL & TRANSLATIONAL ONCOLOGY. 2018; 20(5) 619-629. FI: 2,441. Cuartil: 3. (Article).*
- *Joly, F; Baxter, J; Staun, M; Kelly, DG; Hwa, YL; Corcos, O; De Francesco, A; Agostini, F; Klek, S; Santarpia, L; Contaldo, F; Jonker, C; Wanten, G; Chicharro, L; Burgos, R; Van Gossum, A; Cuerda, C; Virgili, N; Pironi, L; ESPEN HAN CIF Grp. Five-year survival and causes of death in patients on home parenteral nutrition for severe chronic and benign intestinal failure. CLINICAL NUTRITION. 2018; 37(4) 1415-1422. FI: 6,402. Cuartil: 1. (Article).*
- *Burgos, R; Breton, I; Cereda, E; Desport, JC; Dziewas, R; Genton, L; Gomes, F; Jesus, P; Leischker, A; Muscaritoli, M; Poulia, KA; Preiser, JC; Van der Marck, M; Wirth, R; Singer, P; Bischoff, SC. ESPEN guideline clinical nutrition in neurology. CLINICAL NUTRITION. 2018; 37(1) 354-396. FI: 6,402. Cuartil: 1. (Article).*
- *Pironi, L; Konrad, D; Brandt, C; Joly, F; Wanten, G; Agostini, F; Chambrier, C; Aimasso, U; Zeraschi, S; Kelly, D; Szczepanek, K; Jukes, A; Di Caro, S; Theilla, M; Kunecki, M; Daniels, J; Serlie, M; Poullenot, F; Wu, J; Cooper, SC; Rasmussen, HH; Compher, C; Seguy, D; Crivelli, A; Pagano, MC; Hughes, SJ; Guglielmi, FW; Kozjek, NR; Schneider, SM; Gillanders, L; Ellegard, L; Thibault, R; Matras, P; Zmarzly, A; Matysiak, K; Van Gossum, A; Forbes, A; Wyer, N; Taus, M; Virgili, NM; O'Callaghan, M; Chapman, B; Osland, E; Cuerda, C; Sahin, P; Jones, L; Lee, ADW; Bertasi, V;*

Orlandoni, P; Izbeki, F; Spaggiari, C; Diez, MB; Doitchinova-Simeonova, M; Garde, C; Serralde-Zuniga, AE; Olveira, G; Krznaric, Z; Czako, L; Kekstas, G; Sanz-Paris, A; Jauregui, EP; Murillo, AZ; Schafer, E; Arends, J; Suarez-Llanos, JR; Shaffer, J; Lal, S. Clinical classification of adult patients with chronic intestinal failure due to benign disease: An international multicenter cross-sectional survey. CLINICAL NUTRITION. 2018; 37(2) 728-738. FI: 6,402. Cuartil: 1. (Article).

- *Lal, S; Pironi, L; Wanten, G; Arends, J; Bozzetti, F; Cuerda, C; Joly, F; Kelly, D; Staun, M; Szczepanek, K; Van Gossum, A; Schneider, SM; Home Artificial Nutr & Chronic Int; European Soc Clinical Nutr Metab. Clinical approach to the management of Intestinal Failure Associated Liver Disease (IFALD) in adults: A position paper from the Home Artificial Nutrition and Chronic Intestinal Failure Special Interest Group of ESPEN. CLINICAL NUTRITION. 2018; 37(6 Pt A) 1794-1797. FI: 6,402. Cuartil: 1. (Article).*
- *Breton, MJO; Perez, LML; Virizuela, JA; Hernandez, JA; Fonseca, PJ; Peris, MC; Madrono, MJS; Grande, E; Alvarez, MC. Nutritional support and parenteral nutrition in cancer patients: An expert consensus report. Endocrinologia Diabetes Y Nutricion. 2018; 17-23. FI: 0,934. Cuartil: 4. (Article).*
- *Wanden-Berghe, C; Cunill, JLP; Compes, CC; Boluda, ER; Jimenez, MIM; Candela, CG; Casas, NV; Pelaez, RB; de la Cruz, AP; Lazaro, MAP; Martos, EAS; Roman, DAD; Faedo, CM; Fontalba, MDM; Hernandez, JA; Martin, PM; Guardiola, PD; Perez, FC; Paris, AS; Orbaiz, CG; Burdiel, OSV; Folgueras, TM; Palmero, MAM; Perez, LML; Murillo, AZ; Costa, CM; Llanos, JPS; Perez, CT; Rocamora, JAI; Irigoyen, CA; Delgado, YG; Martin, CC; Gonzalez, MAP; Roca, SM; Zafra, MVG; Lopez, JMM; Baeza, BM; Marin, MG; Ortiz, CJ; de la Maza, BP; Martinez, MCG; Santaliestra, MJC; Visa, MDF; Celaya, AA; Sanchez, RS; Planella, JRU; Grp NADYA-SENPE. Home and Ambulatory Artificial Nutrition (NADYA) Report. Home Parenteral Nutrition in Spain, 2017. NUTRICION HOSPITALARIA. 2018; 35(6) 1491-1496. FI: 0,759. Cuartil: 4. (Article).*
- *Garcia, MDD; Casas, NV; Blanco, AC; Fuster, FML; Wanden-Berghe, C; Aviles, V; Enguidanos, RA; Lopez, IF; Soria, JBM; Gonzalez, JCM; Lesmes, IB; Hernandez, JA; Villares, JMM; Soc Espanola Nutr Clinica. Nutritional management of amyotrophic lateral sclerosis: summary of recommendations. NUTRICION HOSPITALARIA. 2018; 35(5) 1243-1251. FI: 0,759. Cuartil: 4. (Article).*
- *Rodriguez, MA; Cordeu, MPD; Alvarez, MC; Lesmes, IB; de la Camara, MM; Gimeno, CV; Arhip, L; Peris, PG; Compes, CC. Clinical and economic impact of the taurolidine lock on home parenteral nutrition. NUTRICION HOSPITALARIA. 2018; 35(4) 761-766. FI: 0,759. Cuartil: 4. (Article).*
- *Alvarez, MC; Breton, MJO; Perez, LML; Virizuela, JA; Madrono, MJS; Peris, MC; Grande, E; Hernandez, JA; Fonseca, PJ. Soporte nutricional y nutricion parenteral en el paciente oncologico: informe de consenso de un grupo de expertos Nutritional support and parenteral nutritio. NUTRICION HOSPITALARIA. 2018; 35(1) 224-233. FI: 0,759. Cuartil: 4. (Article).*

Publications of the main WOS collection in journals without impact factor

- *Cuerda, C; Schneider, SM; Van Gossum, A. Reply, Letter to the Editor - Clinical nutrition education in medical schools - Comment on the ESPEN survey. CLINICAL NUTRITION. 2018; 37(3) 1083-1083. FI: 6,402. Cuartil: 1. (Letter).*
- *Cuerda, C; Schneider, SM; Van Gossum, A. Reply, Letter to the Editor- Undergraduate nutrition education of health professionals in Greek medical, dentistry, pharmacy, nursing and midwifery departments. CLINICAL NUTRITION. 2018; 37(1) 399-399. FI: 6,402. Cuartil: 1. (Letter).*

7.29 Pharmacology and vascular pathophysiology

Group Director: **Francisco Pérez Vizcaíno**
Organisms involved: **HGUGM**
UCM
Consolidated Group

Research lines

L1. Pulmonary vascular dysfunction in pulmonary hypertension (PH)
L2 Acute respiratory distress syndrome (ARDS)
L3 Pulmonary bronchodysplasia (BDP)

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

Group members

Surname		*Name*	*Euraxess Profile*
BARREIRA	BARBA	BIANCA	Other
CALLEJO	ARRANZ	MARIA	R1
COGOLLUDO	TORRALBA	ANGEL	R3
ESQUIVEL	RUIZ	SERGIO ANTONIO	R1
MONDEJAR	PARREÑO	GEMA	R1
MORALES	CANO	DANIEL	R3
MORENO	GUTIÉRREZ	LAURA	R4
PEREZ	VIZCAINO	FRANCISCO	OTROS

Research Projects – Competitive Calls

TITLE: **Miguel Servet tipo IIcontract** CPII17/00020
DIRECTOR: MORENO GUTIERREZ, MARIA
PROJECT TYPE: Human resources
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/02/2018
END DATE: 06/03/2018

TITLE: **Young employement contrac: Ayudante de investigación.** PEJ15/BIO/AI-0024
DIRECTOR: MONDEJAR PARREÑO, GEMA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

TITLE: **Young employement contrac: Ayudante de investigación.** PEJ15/BIO/AI-0030
DIRECTOR: CALLEJO ARRANZ, MARIA
PROJECT TYPE: Human resources
FUNDING BODY: CONSEJERIA EDUCACION COMUNIDAD DE MADRID
START DATE: 01/02/2016
END DATE: 01/02/2018

- **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: 31/12/2018

TITLE: **Terapia Celular en Hipertensión Pulmonar asociada a broncodisplasia: Estudio de los microRNas secretados por las células mesenquimales como tratamiento para la disfunción vascular.**
DIRECTOR: MORENO GUTIERREZ, LAURA; ÁLVAREZ LAFUENTE, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: Fundación de Pacientes contra la Hipertensión
START DATE: 01/06/2016
END DATE: 31/05/2018

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: **33.0***

	Nº	**IF**
Own publications	4	14.4
Joint publications	3	18.6
First decile publications	2	14.3
First quartile publications	5	26.7
Second quartile publications	2	6.3
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**7**	**33.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Mondejar-Parreno, G; Morales-Cano, D; Barreira, B; Callejo, M; Ruiz-Cabello, J; Moreno, L; Esquivel-Ruiz, S; Mathie, A; Butrous, G; Perez-Vizcaino, F; Cogolludo, A. HIV transgene expression impairs K(+) channel function in the pulmonary vasculature. AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. 2018; 315(5) 711-723. FI: 4,06. Cuartil: 1. (Article).*
- *Perez-Vizcaino, F; Fraga, CG. Research trends in flavonoids and health. ARCH BIOCHEM BIOPHYS. 2018; 646 107-112. FI: 3,559. Cuartil: 2. (Article).*

- *Alvarez-Fuente, M; Arruza, L; Lopez-Ortego, P; Moreno, L; Ramirez-Orellana, M; Labrandero, C; Gonzalez, A; Melen, G; del Cerro, MJ. Off-label mesenchymal stromal cell treatment in two infants with severe bronchopulmonary dysplasia: clinical course and biomarkers profile. CYTOTHERAPY. 2018; 20(11) 1337-1344. FI: 4,297. Cuartil: 1. (Article).*
- *Toral M; Romero M; Rodriguez-Nogales A; Jimenez R; Robles-Vera I; Algieri F; Chueca-Porcuna N; Sanchez M; de la Visitacion N; Olivares M; Garcia F; Perez-Vizcaino F; Galvez J; Duarte J. Lactobacillus fermentum Improves Tacrolimus-Induced Hypertension by Restoring Vascular Redox State and Improving eNOS Coupling. MOLECULAR NUTRITION & FOOD RESEARCH. 2018; 62(14) -. FI: 4,653. Cuartil: 1. (Article).*
- *Chamorro, V; Morales-Cano, D; Milara, J; Barreira, B; Moreno, L; Callejo, M; Mondejar-Parreno, G; Esquivel-Ruiz, S; Cortijo, J; Cogolludo, A; Barbera, JA; Perez-Vizcaino, F. Riociguat versus sildenafil on hypoxic pulmonary vasoconstriction and ventilation/perfusion matching. PLoS One. 2018; 13(1) -. FI: 2,776. Cuartil: 2. (Article).*
- *Callejo, M; Mondejar-Parreno, G; Barreira, B; Izquierdo-Garcia, JL; Morales-Cano, D; Esquivel-Ruiz, S; Moreno, L; Cogolludo, A; Duarte, J; Perez-Vizcaino, F. Pulmonary Arterial Hypertension Affects the Rat Gut Microbiome. Scientific Reports. 2018; 8(1) 9681-9681. FI: 4,011. Cuartil: 1. (Article).*
- *Milara, J; Ballester, B; Morell, A; Ortiz, JL; Escriva, J; Fernandez, E; Perez-Vizcaino, F; Cogolludo, A; Pastor, E; Artigues, E; Morcillo, E; Cortijo, J. JAK2 mediates lung fibrosis, pulmonary vascular remodelling and hypertension in idiopathic pulmonary fibrosis: an experimental study. THORAX. 2018; 73(6) 519-529. FI: 9,64. Cuartil: 1. (Article).*

7.31 Pathophysiology in women, pregnancy, labor, and puerperium

Group Director: **Santiago Lizarraga Bonelli & Juan Antonio deLeón**
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	Role
CABALLERO	CAMPO	MIGUEL	Postdoctoral
CAMPOS	FERNANDEZ	RAUL	
CEBALLOS	GARCÍA	ELENA	Predoctoral
COLLAZOS	BLANCO	ANA	
DE LEÓN	LUIS	JUAN ANTONIO	Group Director
GAMEZ	ALDERETE	FRANCISCO	Postdoctoral
GARCÍA-TIZÓN	LARROCA	SANTIAGO	Predoctoral
LIZARRAGA	BONELLI	SANTIAGO	Group Director
LLAMAS	SANTOS	LETICIA	Predoctoral

MENDIZABAL	VICENTE	ELSA	Postdoctoral
MERCADER	CIDONCHA	ENRIQUE	Predoctoral
MORENO	MOLINERO	VERÓNICA	Predoctoral
MUÑOZ-CHAPULÍ	GUTIÉRREZ	MARIA MAR	Predoctoral
NAVARRO	GONZÁLEZ	TERESA	Predoctoral
PEREIRA	SÁNCHEZ	AUGUSTO	Postdoctoral
PÉREZ	FERNÁNDEZ-PACHECO	RICARDO	Postdoctora
PÉREZ	MILÁN	FEDERICO	Postdoctora
PINTADO	RECARTE	PILAR	Postdoctora
RELLOSO	CERECEDA	MIGUEL	Miguel Servet
RUIZ	LABARTA	JAVIER	Predoctoral
TROBO	MARINA	DUNA	Predoctoral
VEIGA	FERNANDEZ	AMANDA	
VIÑUELA	BENEITEZ	M DEL CARMEN	Predoctoral

Research Projects – Competitive Calls

TITLE: **Busqueda de marcadores diferenciadores de neutrófilos intratumorales inflamatorios y antiinflamatorios para su uso en el pronóstico del cáncer de mama y su reprogramación**. FMM14/06
DIRECTOR: RELLOSO CERECEDA, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: MUTUA MADRILEÑA FOUNDATION
START DATE: 01/09/2014
END DATE: 20/09/2018

TITLE: **explicación de un algoritmo de exploración ecográfica del sistema cardiovascular fetal mediante cortes axiales (ALEESCA)**. PI13/02769
DIRECTOR: JUAN ANTONIO DE LEÓN LUIS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2014
END DATE: 31/12/2018

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

Patents and intellectual property registrations

Patent

Title	*Reference*	*Owner*	*Inventors*
Maqueta didáctica armable	U201530218	FIBHGM	Juan Antonio León

Publications *Total Impact Factor:* ***26.8***

	Nº	IF

Own publications	4	9.5
Joint publications	6	17.3
First decile publications	1	8.6
First quartile publications	2	11.1
Second quartile publications	3	10.0
Third quartile publications	1	1.8
Fourth quartile publications	3	3.9
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**10**	**26.8**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- *Atanasova, VB; Arevalo-Serrano, J; Alvarado, EA; Larroca, SGT. Maternal mortality in Spain and its association with country of origin: cross-sectional study during the period 1999-2015. BMC PUBLIC HEALTH. 2018; 18(1) 1171-1171. FI: 2,567. Cuartil: 2. (Article).*
- *Samaniego, R; Gutierrez-Gonzalez, A; Gutierrez-Seijo, A; Sanchez-Gregorio, S; Garcia-Gimenez, J; Mercader, E; Marquez-Rodas, I; Aviles, JA; Relloso, M; Sanchez-Mateos, P. CCL20 Expression by Tumor-Associated Macrophages Predicts Progression of Human Primary Cutaneous Melanoma. Cancer Immunology Research. 2018; 6(3) 267-275. FI: 8,619. Cuartil: 1. (Article).*
- *Sanz, SC; Pastor, GN; Larroca, SGT. First-Trimester Biochemical Screening For Low Birth Weight: Clinical Effectiveness of Low Pregnancy-Associated Plasma Protein-A and High Thyroid-Stimulating Hormone. CLINICAL LABORATORY. 2018; 64(9) 1501-1508. FI: 0,955. Cuartil: 4. (Article).*
- *Polo, R; Palacios, R; Andreu, A; Blanco, BJL; Blanco, JR; Camino, X; Castillo, O; Curran, A; del Romero, J; Diaz, A; Fernandez, C; Gil, L; Tome, MG; Hidalgo, C; de Munain, JL; Margall, N; Navarro, M; Otero, L; Perez-Molina, JA; Prieto, L; Munoz, E; Puerta, T; Pueyo, I; Vall, M; Vazquez, F; Viciana, P; Vinuela, MC; Barbera, MJ; AIDS Study Grp GESIDA; Natl AIDS Plan; STI Study Grp SEIMC GEITS; Spanish Acad Dermatology; Spanish Soc Pediat Infect SEIP. Consensus document on the diagnosis and treatment of sexually transmitted diseases in adults, children and adolescents. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2018; 36(9) 576-585. FI: 1,685. Cuartil: 4. (Article).*
- *Salinas-Munoz L; Campos-Fernandez R; Mercader E; Olivera-Valle I; Fernandez-Pacheco C; Matilla L; Garcia-Bordas J; Brazil JC; Parkos CA; Asensio F; Munoz-Fernandez MA; Hidalgo A; Sanchez-Mateos P; Samaniego R; Relloso M. Estrogen Receptor-Alpha (ESR1) Governs the Lower Female Reproductive Tract Vulnerability to Candida albicans. Frontiers in Immunology. 2018; 9 1033-1033. FI: 4,716. Cuartil: 2. (Article).*
- *Pereira, A; Perez-Medina, T; Rodriguez-Tapia, A; Chiverto, Y; Lizarraga, S. Correlation between Anatomical Segments of the Pudendal Nerve and Clinical Findings of the Patient with Pudendal Neuralgia. GYNECOLOGIC AND OBSTETRIC INVESTIGATION. 2018; 83(6) 593-599. FI: 1,302. Cuartil: 4. (Article).*
- *Ortega, MA; Asunsolo, A; Alvarez-Rocha, MJ; Romero, B; De Leon-Luis, J; Alvarez-Mon, M; Bujan, J; Garcia-Honduvilla, N. Remodelling of collagen fibres in the placentas of women with venous insufficiency during pregnancy. HISTOLOGY AND HISTOPATHOLOGY. 2018; 33(6) 567-576. FI: 1,777. Cuartil: 3. (Article).*
- *Garcia-Honduvilla, H; Ortega MA; Asunsolo A; Alvarez-Rocha MJ; Romero B; De Leon-Luis J; Alvarez-Mon M; Bujan J. Placentas from women with pregnancy-associated venous insufficiency show villi damage with evidence of hypoxic cellular stress. HUMAN PATHOLOGY. 2018; 77 45-53. FI: 2,74. Cuartil: 2. (Article).*
- *Lobo, M; Lopez-Tarruella, S; Luque, S; Lizarraga, S; Flores-Sanchez, C; Bueno, O; Solera, J; Jerez, Y; del Val, RG; Palomero, MI; Cebollero, M; Echavarria, I; Torres, G; Martin, M; Marquez-Rodas, I. Evaluation of Breast Cancer Patients with Genetic Risk in a University Hospital: Before and After the Implementation of a Heredofamilial Cancer Unit. Journal of Genetic Counseling. 2018; 27(4) 854-862. FI: 2,446. Cuartil: 1. (Article).*

Publications of the main WOS collection in journals without impact factor

- Alfano, F; Garcia, FP; Fisac, JEO; Conde, MH; Zamora, OB; Calvo, FA; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. *TUMOR LOCALIZATION USING PRONE TO SUPINE SURFACE BASED REGISTRATION FOR BREAST CANCER SURGICAL PLANNING*. IEEE International Symposium on Biomedical Imaging. 2018; 788-791. (Proceedings Paper).

7.32 Physical medicine and rehabilitation

Group Director: **Pilar Crespo Cobo & 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*	*Role*
ARROYO	RIAÑO	Mª OLGA	Postdoctoral
CRESPO	COBO	PILAR	Senior researcher
GARCÍA	DELGADO	ISABEL	Postdoctoral
LÓPEZ	CHICHARRO	JOSÉ	Senior researcher
MORENO	PALACIOS	ANTONIO	Postdoctoral
PÉREZ	RUIZ	MARGARITA	Senior researcher
SUPERVIA	POLA	MARTA	Senior researcher
UBEDA	TIKKANEN	ANA	Senior researcher

Publications *Total Impact Factor:* ***25.4***

	Nº	IF
Own publications	1	5.6
Joint publications	4	19.8
First decile publications	1	5.7
First quartile publications	4	22.6
Second quartile publications	1	2.8
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
Total publications (incluging those without IF)	**5**	**25.4**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Medina-Inojosa, JR; Batsis, JA; Supervia, M; Somers, VK; Thomas, RJ; Jenkins, S; Grimes, C; Lopez-Jimenez, F. *Relation of Waist-Hip Ratio to Long-Term Cardiovascular Events in Patients With Coronary Artery Disease.* AMERICAN JOURNAL OF CARDIOLOGY. 2018; 121(8) 903-909. FI: 2,843. Cuartil: 2. (Article).

- Tran, M; Pesah, E; Turk-Adawi, K; Supervia, M; Jimenez, FL; Oh, P; Baer, C; Grace, SL. *Cardiac Rehabilitation Availability and Delivery in Canada: How Does It Compare With Other High-Income Countries?*. CANADIAN JOURNAL OF CARDIOLOGY. 2018; 34(10S2) 252-262. FI: 5,592. Cuartil: 1. (Article).
- Saeidifard, F; Medina-Inojosa, JR; Supervia, M; Olson, TP; Somers, VK; Erwin, PJ; Lopez-Jimenez, F. *Differences of energy expenditure while sitting versus standing: A systematic review and meta-analysis.* European Journal of Preventive Cardiology. 2018; 25(5) 522-538. FI: 5,64. Cuartil: 1. (Article).
- Supervia, M; Lopez-Jimenez, F. *mHealth and cardiovascular diseases self-management: There is still a long way ahead of us.* European Journal of Preventive Cardiology. 2018; 25(9) 974-975. FI: 5,64. Cuartil: 1. (Article).
- Ghisi, GLD; Pesah, E; Turk-Adawi, K; Supervia, M; Jimenez, FL; Grace, SL. *Cardiac Rehabilitation Models around the Globe.* Journal of Clinical Medicine. 2018; 7(9) -. FI: 5,688. Cuartil: 1. (Article).

NURSING RESEARCH GROUP

Coordinator: **Ana García Pozo**

Research lines

Axis 1: Nursing care
- Line 1: Care for chronically ill patients
- Line 2: Care for critically ill patients
- Line 3: Physiotherapy and rehabiliation

Axis 2: Innovation in health care and services
- Line 1: Development of applications and patents

Axis 3: Management of human resources
- Line 1: Professional skills and comptence

Axis 4: Gender violence and violence in vulnerable populations
- Line 1: Strategies for detection of violence in patients who attend the health service
- Line 2: Training and sensitization strategies for nursing health professionals and students

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

Group members

Surname		*Name*	*Role*
BLANCO	DAZA	MÓNICA	Predoctoral
CALDERARI	FERNANDEZ	ELENA	Postdoctoral
CID	EXPÓSITO	GEMA	Postdoctoral
CORRAL	LIRIA	INMACULADA	Postdoctoral
DE LAS POZAS	ABRIL	JULIA	Predoctoral
DURANGO	LIMARQUEZ	MARIA ISABEL	Predoctoral
FERNANDEZ	ARRANZ	JULITA	Postdoctoral
FERNANDEZ	BLANCO	RAQUEL	Predoctoral
FLORES	GARCÍA	RUBÉN FRANCISCO	Predoctoral
GARCIA	POZO	ANA MARIA	Postdoctoral
GARCIA	PEREA	EVA	Postdoctoral
GONZALEZ	BAZ	Mª DOLORES	Predoctoral
GONZALEZ	LLUVA	CONCEPCION	Predoctoral
GUERRA	SANCHEZ	LUIS	Postdoctoral
GUERRERO	MARQUEZ	GLORIA	Predoctoral
GUIJARRO	JIMENEZ	ESTHER	Predoctoral
HARTO	CASTAÑO	ADELA	Predoctoral
LOBO	RODRIGUEZ	CARMEN	Postdoctoral
LOPEZ	SANCHEZ	RAQUEL	Postdoctoral
LUENGO	GONZALEZ	RAQUEL	Postdoctoral
MARTIN	FERNANDEZ	MILAGROS	Predoctoral
MARTÍNEZ	CASTELLANOS	TERESA	Predoctoral
MARTÍNEZ	CRUZ	Mª BELÉN	

MEDINA	TORRES	MARGARITA	Predoctoral
MORO	TEJEDOR	MARIA NIEVES	Postdoctoral
OLTRA	RODRIGUEZ	ENRIQUE	Postdoctoral
PALACIOS	CEÑA	DOMINGO	Postdoctoral
PASCUAL	FERNANDEZ	CRISTINA	Postdoctoral
PEÑA	GRANGER	MARÍA DE LAS MERCEDES	Predoctoral
PEÑA	OTERO	DAVID	Postdoctoral
RAMASCO	GUTIERREZ	MILAGROS	Postdoctoral
RECIO	VIVAS	ANA MARIA	Postdoctoral
ROBLEDO	MARTIN	JUANA	Postdoctoral
RUIZ HENESTROSA	CAMPOS	MANUEL JESÚS	Predoctoral
SOTO	LUCIA	MARÍA CONSUELO	Predoctoral
SUAREZ	BUSTAMANTE	ROSA	Predoctoral
TORAÑO	OLIVERA	Mª JOSÉ	Predoctoral
TRUJILLO	GALLEGO	FERNANDO	Predoctoral
VAQUERO	LOZANO	PAZ	Predoctoral
VELARDE	GARCIA	JUAN FRANCISCO	Postdoctoral
VISIERS	JIMENEZ	LAURA	Postdoctoral

Research Projects – Competitive Calls

TITLE: **Programa de intervención en la disfunción sexual de la paciente con cancer de mama, relacionado con su proceso y derivado del tratamiento, a través de talleres en una consulta de enfermería**. MSYPS09/05
DIRECTOR: MARÍA DOLORES ISAC PÉREZ / PIEDAD MORALES LOZANO
PROJECT TYPE: Research project
FUNDING BODY: MINECO
START DATE: 01/01/2009
END DATE: 20/09/2018

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

Doctoral theses, Bachelor thesis and Master's thesis

Type	*Candidate*	*Title*	*Name/s Director/s*	*University*	*Date Defended*
Master Thesis	**Carmen Inmaculada Corral Liria**	Experiencia vivida en personas con miastenia gravis	Gema Cid Exposito	URJC	June 12th 2018

Cooperative Research Structures

Type (RETIC, CIBER, others.)	*Name of Network*	*Role*
Plataforma ISCIII	Plataforma Española de Ensayos clínicos SCReN	Collaborating group

Patents 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 Paula Vázquez David García

Publications *Total Impact Factor:**13.0***

	Nº	IF
Own publications	1	0.5
Joint publications	7	12.5
First decile publications	2	4.9
First quartile publications	2	4.9
Second quartile publications	3	7.1
Third quartile publications	0	0.0
Fourth quartile publications	2	1.0
Nonindexed publications / No IF	1	-
Total publications (incluging those without IF)	**8**	**13.0**

Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Collados-Gomez, L; Ferrera-Camacho, P; Fernandez-Serrano, E; Camacho-Vicente, V; Flores-Herrero, C; Garcia-Pozo, AM; Jimenez-Garcia, R. *Randomised crossover trial showed that using breast milk or sucrose provided the same analgesic effect in preterm infants of at least 28 weeks.* ACTA PAEDIATRICA. 2018; 107(3) 436-441. FI: 2,265. Cuartil: 2. (Article).
- Marquez, GG; Serrano, AM; Juarez, MG; Lozano, AG; Casado, BM; Rodriguez, MIT; Pernia, CV; Morales, EF; Sanchez, P; Duran, AM; Navarro, MCM. *Effectiveness of an educational intervention to improve nurses' knowledge on pediatric nasogastric intubation.* Archivos Argentinos de Pediatria. 2018; 116(6) 402-408. FI: 0,506. Cuartil: 4. (Article).
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- Villar-Alvarez, F; Moreno-Zabaleta, R; Mira-Solves, JJ; Calvo-Corbella, E; Diaz-Lobato, S; Gonzalez-Torralba, F; Hernando-Sanz, A; Nunez-Palomo, S; Salgado-Aranda, S; Simon-Rodriguez, B; Vaquero-Lozano, P; Navarro-Soler, IM. *Do not do in COPD: consensus statement on overuse.* International Journal of Chronic Obstructive Pulmonary Disease. 2018; 13 451-463. FI: 3,274. Cuartil: 2. (Article).
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