# ANNUAL SCIENTIFIC REPORT

# 2025



"Debajo del mar" - Marta Puerto Cantero (Laboratorio de Hepatología y Gastroenterología HGUGM)

Instituto de Investigación Sanitaria
Gregorio Marañón

# 1. PRESENTATION

We are delighted to present the 2025 Scientific Report from the **Institute for Health Research at the Hospital General Universitario Gregorio Marañón (IiSGM)**. Our main goal is to share the research and innovative activities carried out within our institution with various stakeholders and the broader community. In addition, we would like to recognize the outstanding dedication of the researchers in each Research Group.

Over recent years, research activity has experienced significant growth. The **number of publications** has increased from the previous year to reach a total of 1260 publications in 2025. It is important to highlight the rigorous assessment process for publications associated with IiSGM, which strengthens the credibility of this indicator. Moreover, it's notable that IiSGM researchers led 35% of the publications, reflecting strong international collaboration. Additionally, 56% of our research outputs were published in first-decile or first-quartile journals, marking a maintenance over previous years.

**IiSGM's innovation efforts** are also remarkable, featuring a diverse portfolio of innovative projects, including four successful spin-offs (Corify Care, Telara Pharma, ThyTech, Ownmed Innovation), all aimed at meeting the evolving needs of the healthcare system. Notably that there are 45 copyright licensed and 78 patents licensed at 2025, showcasing significant potential for future development and generating interest from industrial and commercial sectors.

This outstanding research and innovation success is driven by our researchers' **exceptional ability to secure competitive funding for projects and human resources**. These resources are particularly essential as they lay the groundwork for the continuous renewal of researchers across generations. We must also highlight the commitment of IiSGM groups to **researcher training**, demonstrated by the large number of doctoral theses defended in 2025 and the ambitious Training Plan coordinated by the IiSGM Training Commission.

The managing entity of IiSGM, the **Foundation for Biomedical Research of the Hospital Gregorio Marañón (FIBHGM)**, remains dedicated to improving internal processes and upholding a commitment to ongoing quality improvement. Key achievements include receiving the European Excellence Award in Human Resources Management for the **Human Resources Strategy for Researchers (HRS4R)** and being the only Health Research Institute **fully certified under the ISO9001:2015 quality standard**.

These accomplishments result from the dedication of all IiSGM professionals, and we express our deepest gratitude to them, particularly in the context of the demanding environment of hospital-based scientific research. The exceptional results outlined in this report are the product of a coordinated, collective effort driven by a strategy focused on improving patient care. Notably, a new group was incorporated, **Group 7.36 "Translational Research and Biotechnology in Head and Neck Surgery", led by Santiago Ochandiano and Jose Ignacio Salmerón.**

Lastly, we would like to extend our appreciation to all **Area Coordinators, Group Leaders, Research Groups, Research Support Services (SAIs), Clinical Services, and especially our young researchers**, who form the core of IiSGM's progress and activities.

Once again, the results presented in this report confirm that our institution continues to evolve and grow, fostering high expectations for the future. This positions us well to face significant upcoming challenges while contributing to the pillars of biomedical research: observation, generating questions from clinical practice, and encouraging multidisciplinary collaboration to find solutions.

Thank you very much.

**Dr. Constancio Medrano López**
IiSGM Scientific Director

**Dra. Sonia García de San José**
Managing Director HGUGM
(Hospital General Universitario Gregorio Marañón)

# 2. INTRODUCTION

**Mission**

The IiSGM is an institution that develops excellent research and innovation, focused on the patient and aimed at obtaining results with high impact on the clinical practice and the productive sector, generating value for the efficiency of the SNS and the quality of life of the population as the final recipient.

**Vision**

The IiSGM must maintain its position as a leading center in biomedical research and scientific and technological innovation at a national and international level under quality standards, being a benchmark for the population as a multidisciplinary entity that offers innovative and efficient responses to health needs and challenges of the society.

**Values**

- Excellence and leadership.
- Competitiveness and innovation.
- Internationalization.
- Commitment.
- Ethics and social responsibility.
- Accessibility and transparency.
- Equality.

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


Instituto de Investigación Sanitaria
Gregorio Marañón
SaludMadrid
Hospital General Universitario
Gregorio Marañón
uc3m
Universidad
Carlos III
de Madrid
UNIVERSIDAD
COMPLUTENSE
MADRID
FUNDACIÓN INVESTIGACIÓN BIOMÉDICA
HOSPITAL GREGORIO MARAÑÓN
CONSEJERÍA DE SANIDAD
Comunidad de Madrid
Dirección General de Investigación,
Formación e Infraestructuras Sanitarias.

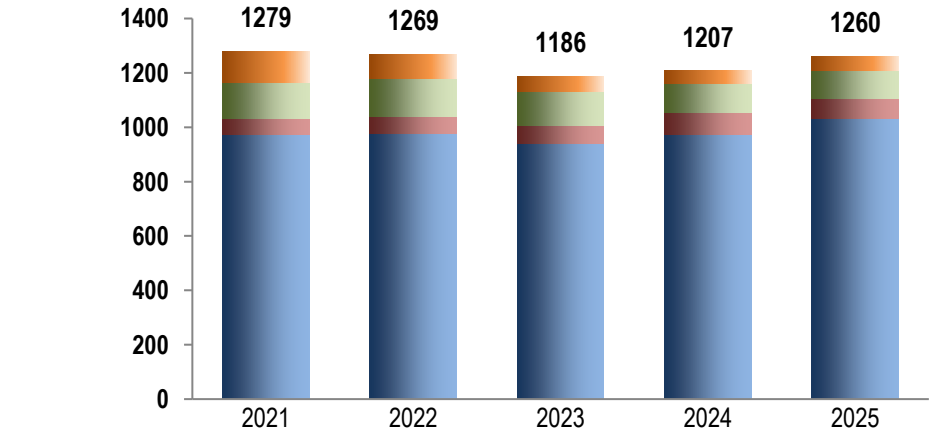
# 3. HIGHLIGHTS



# 4. EXECUTIVE SUMMARY

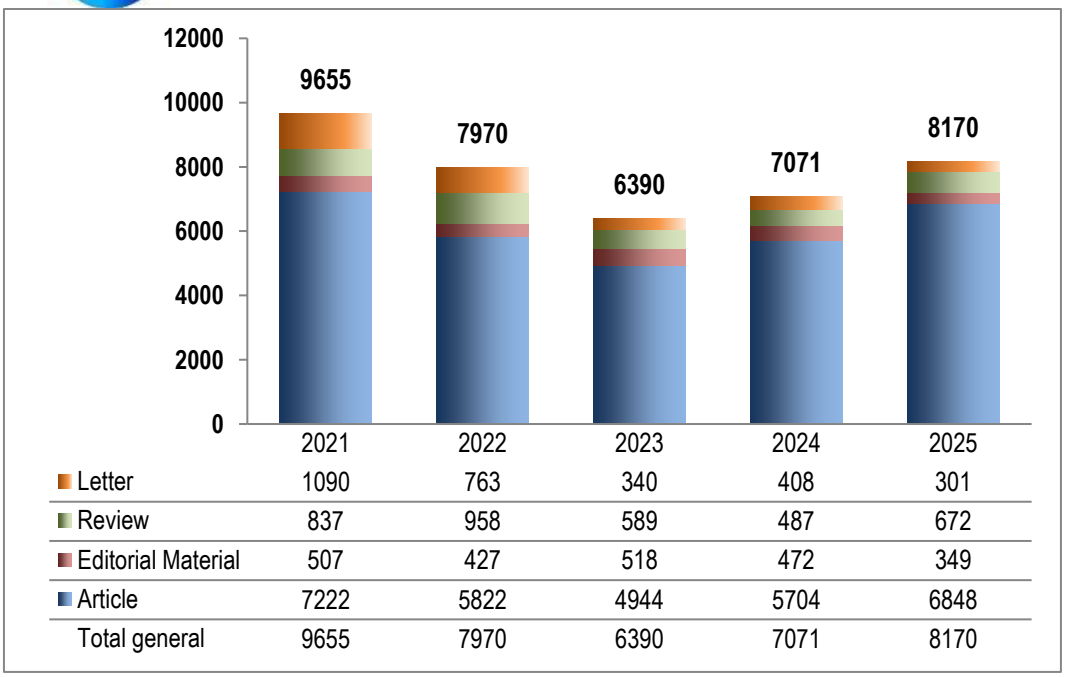
## 4.1 Global analysis

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 the main collection of the Web of Science (WOS) and in PubMed, the most popular 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, 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 2025 with a total of 1260 indexed publications (1210 excluding letters), which represent a global impact factor over 8170 points [7869 excluding letters]. Regardless of the increase in 2021 and 2022, derived from both the «COVID effect» and the change in the Impact Factor calculation procedure, the 2025 results maintain the increasing trend observed during recent years specifically regarding the number of publications an IF.




| | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| Letter | 114 | 88 | 56 | 46 | 50 |
| Review | 132 | 142 | 123 | 108 | 103 |
| Editorial Material | 58 | 62 | 67 | 78 | 76 |
| Article | 975 | 977 | 940 | 975 | 1031 |
| Total general | 1279 | 1269 | 1186 | 1207 | 1260 |

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

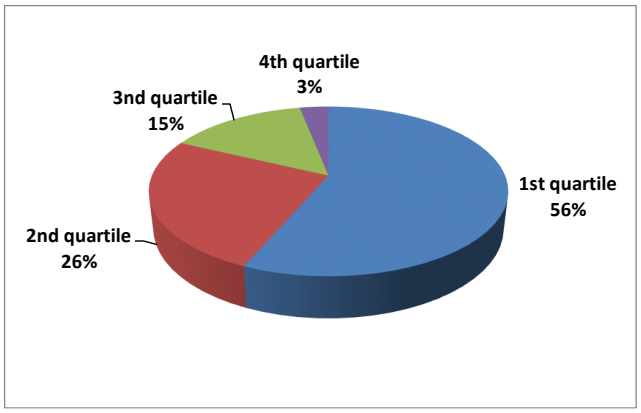



| | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| Letter | 1090 | 763 | 340 | 408 | 301 |
| Review | 837 | 958 | 589 | 487 | 672 |
| Editorial Material | 507 | 427 | 518 | 472 | 349 |
| Article | 7222 | 5822 | 4944 | 5704 | 6848 |
| Total general | 9655 | 7970 | 6390 | 7071 | 8170 |

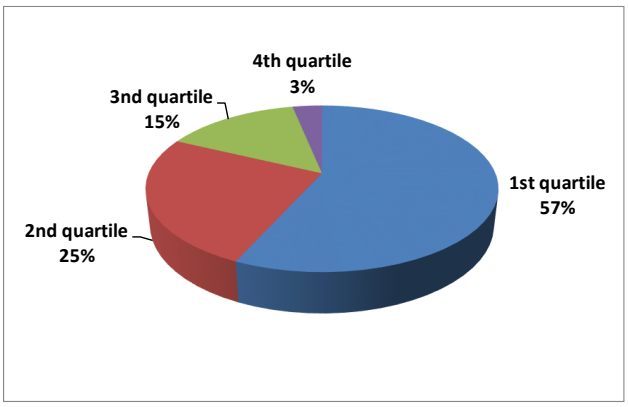
Scientific output of IiSGM:

## TOTAL IMPACT FACTOR BY TYPE OF PUBLICATION

The previous figures summarize the total impact factor corresponding to the scientific production of the IiSGM for each of the last 5 years and its distribution according to the different types of publication as can be observed, in this year 2025 the highest impact factor corresponds (in order) to: original articles, reviews, editorials and letters. It is important to note that, once again this year and as in the previous years, the increase in the overall impact factor was mainly due to the significant increase in the number of original articles.




Including letters

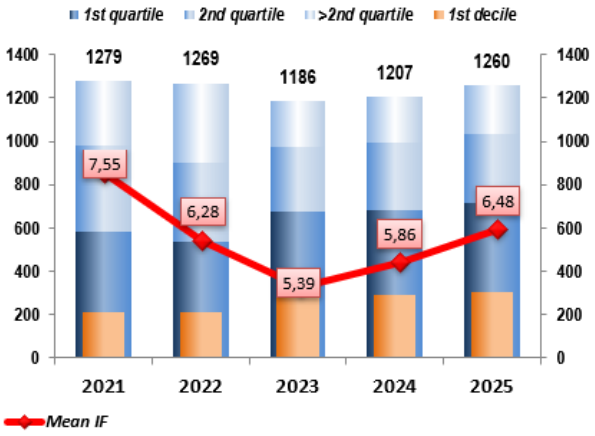



No letters

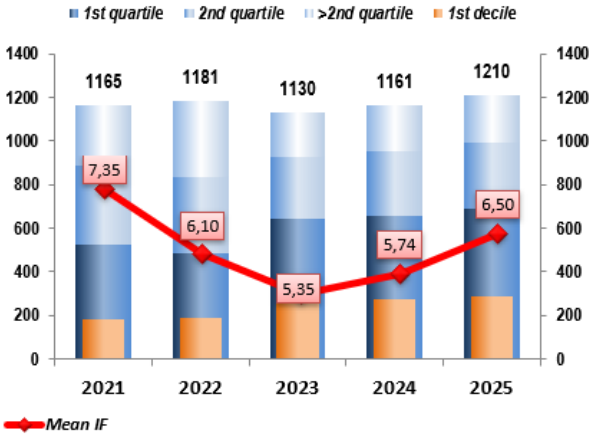
Scientific output of IiSGM in indexed journals with impact factor:

## DISTRIBUTION BY QUARTILES (Relative to 2025)

*Only publications in journals indexed in the JCR of the WOS main collection




Including letters

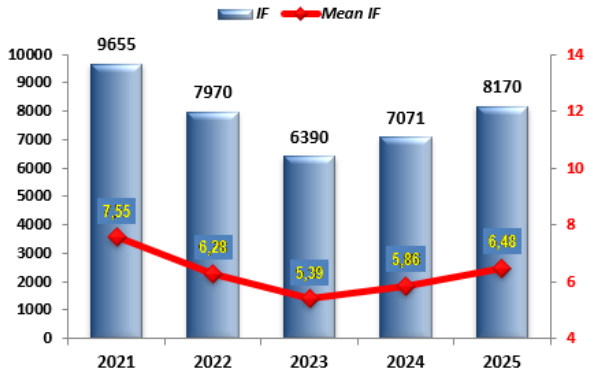



No letters

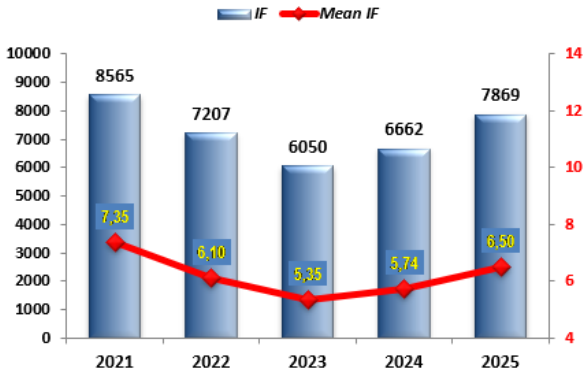
Scientific output of IiSGM in indexed journals with impact factor:

**DISTRIBUTION OF PUBLICATIONS BY DECILES AND QUARTILES**

(absolute values)

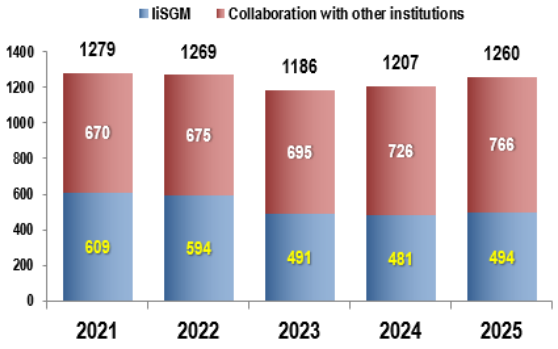



Including letters

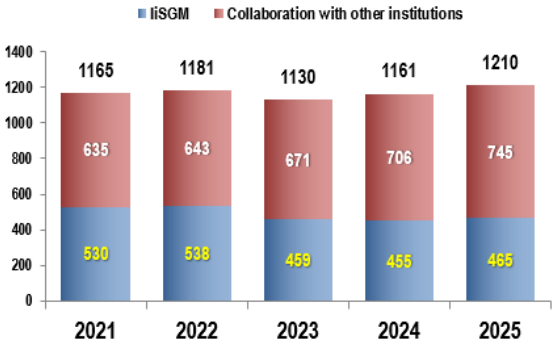



No letters

## GLOBAL IMPACT FACTOR AND MEAN IMPACT FACTOR BY PUBLICATION



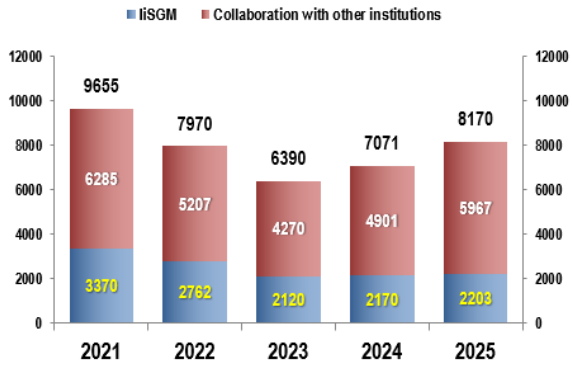

Including letters



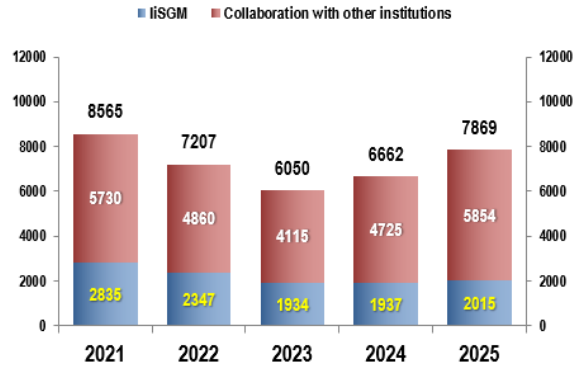

No letters

Scientific output of IiSGM in indexed journals with impact factor:

## TOTAL NUMBER OF PUBLICATIONS




Including letters




No letters

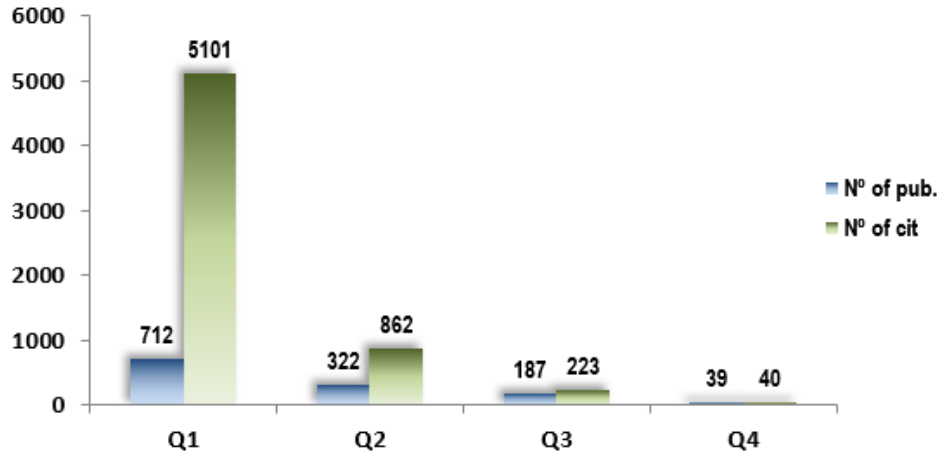
Scientific output of IiSGM in indexed journals with impact factor:

## IMPACT FACTOR



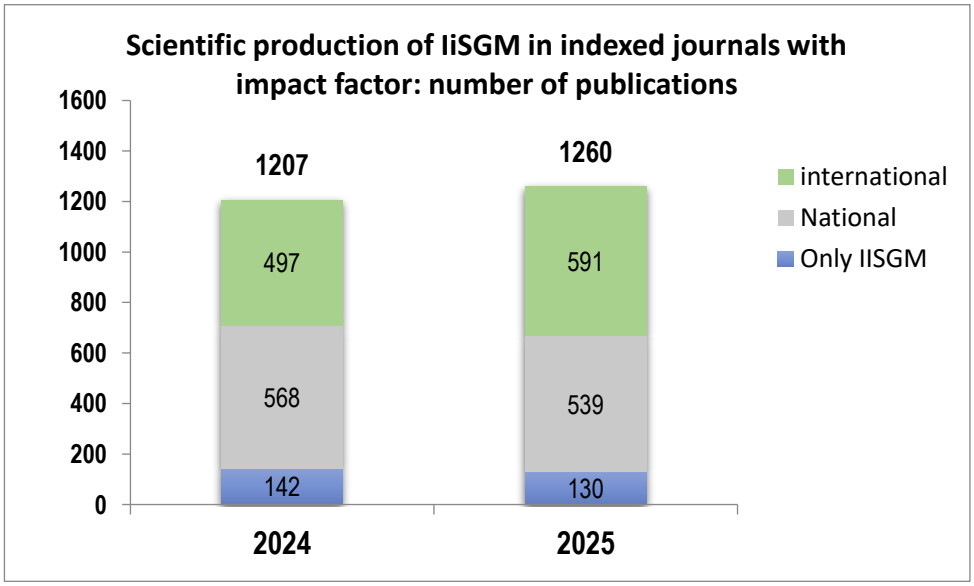

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Nº of pub. | 200 | 210 | 262 | 322 | 342 | 468 | 504 | 551 | 592 | 695 | 732 | 768 | 772 | 969 | 1043 | 1279 | 1184 | 1186 | 1207 | 1260 |
| Nº of citas | 10488 | 10941 | 17946 | 23191 | 18237 | 19708 | 29042 | 23282 | 29012 | 34618 | 34544 | 39060 | 35019 | 38483 | 44025 | 37235 | 30483 | 17501 | 12879 | 6226 |

NUMBER OF PUBLICATIONS AND CITATIONS




NUMBER OF PUBLICATIONS AND CITATIONS BY QUARTILE

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




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

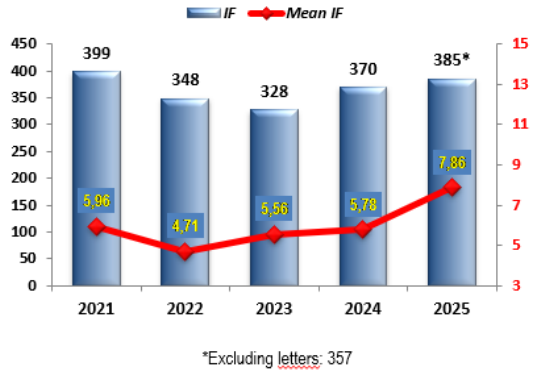
Finally, one of the most relevant elements within the scientific structure of Health Research Institutes is the grouping of research activity to priority areas, which are characterized by their scientific and social relevance and by their capacity for transferring to society. IiSGM has seven priority research areas whose scientific activity is set out in detail below in 2 figures per Research Area:

• the first (on the left) summarizes the total impact factor together with the mean impact factor by publication

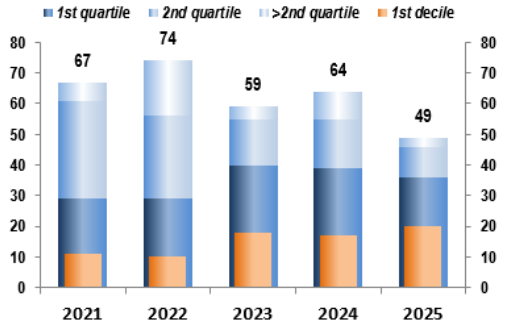
• the second (on the right) summarizes the scientific output of the research area distributed by first decile and quartiles.

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

## AREA 1: BIOMEDICAL ENGINEERING

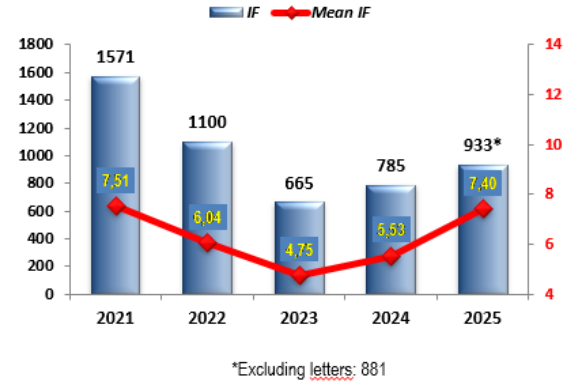



Scientific output of Area 1 in indexed journals with impact factor:
**TOTAL AND MEAN IMPACT FACTOR**

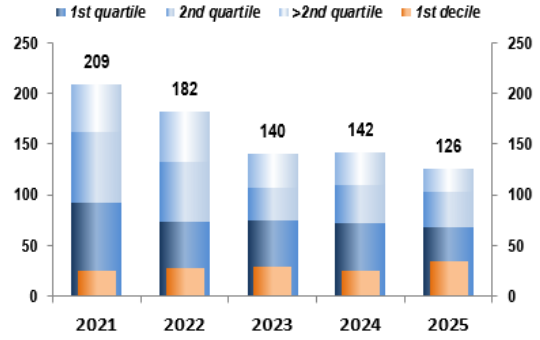



Scientific output of Area 1 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 2: CARDIOVASCULAR DISEASES

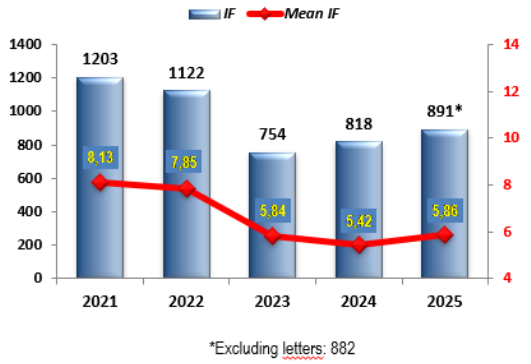



Scientific output of Area 2 in indexed journals with impact factor:
**TOTAL AND MEAN IMPACT FACTOR**

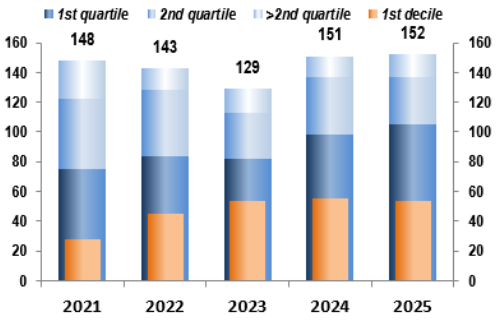



Scientific output of Area 2 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

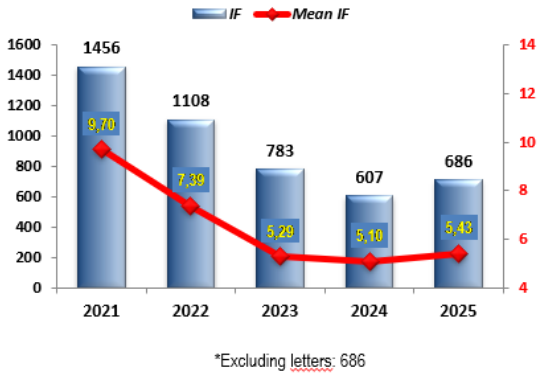



Scientific output of Area 3 in indexed journals with impact factor:
**TOTAL AND MEAN IMPACT FACTOR**

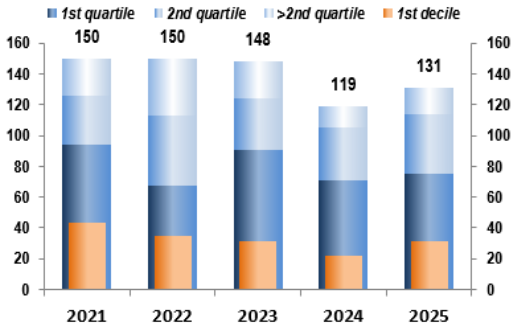



Scientific output of Area 3 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

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

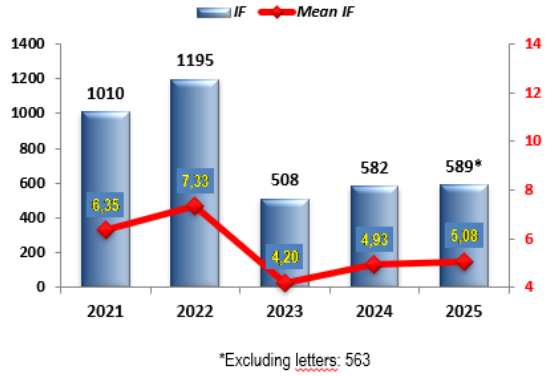



Scientific output of Area 4 in indexed journals with impact factor:
**TOTAL AND MEAN IMPACT FACTOR**



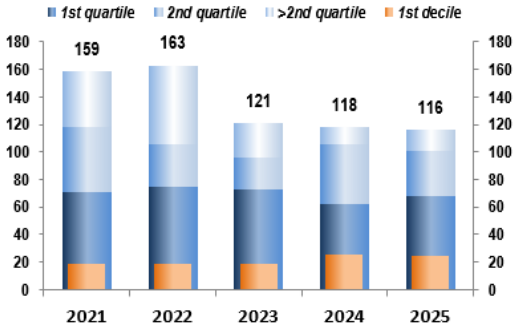

Scientific output of Area 4 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values)

## AREA 5: DISEASES OF THE IMMUNE SYSTEM



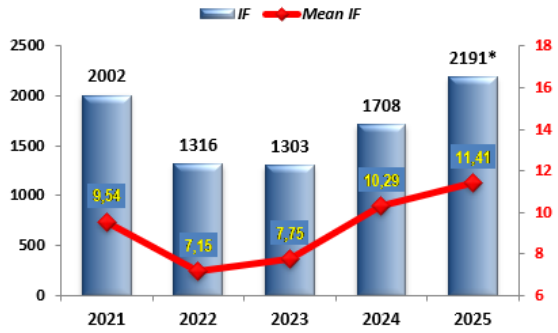

*Excluding letters: 563

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



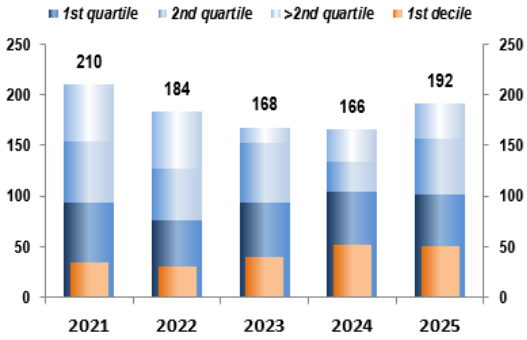

Scientific output of Area 5 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE (absolute values)**

## AREA 6: TRANSLATIONAL ONCOLOGY



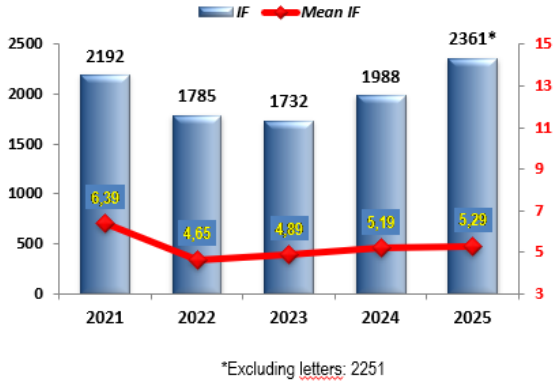

*Excluding letters: 2142

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

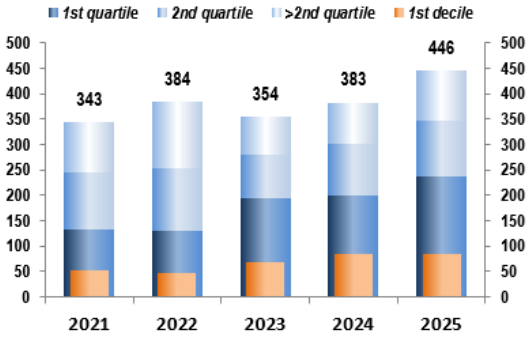



Scientific output of Area 6 in indexed journals with impact factor:
**DISTRIBUTION OF PUBLICATIONS BY DECILE AND QUARTILE** (absolute values

## AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION



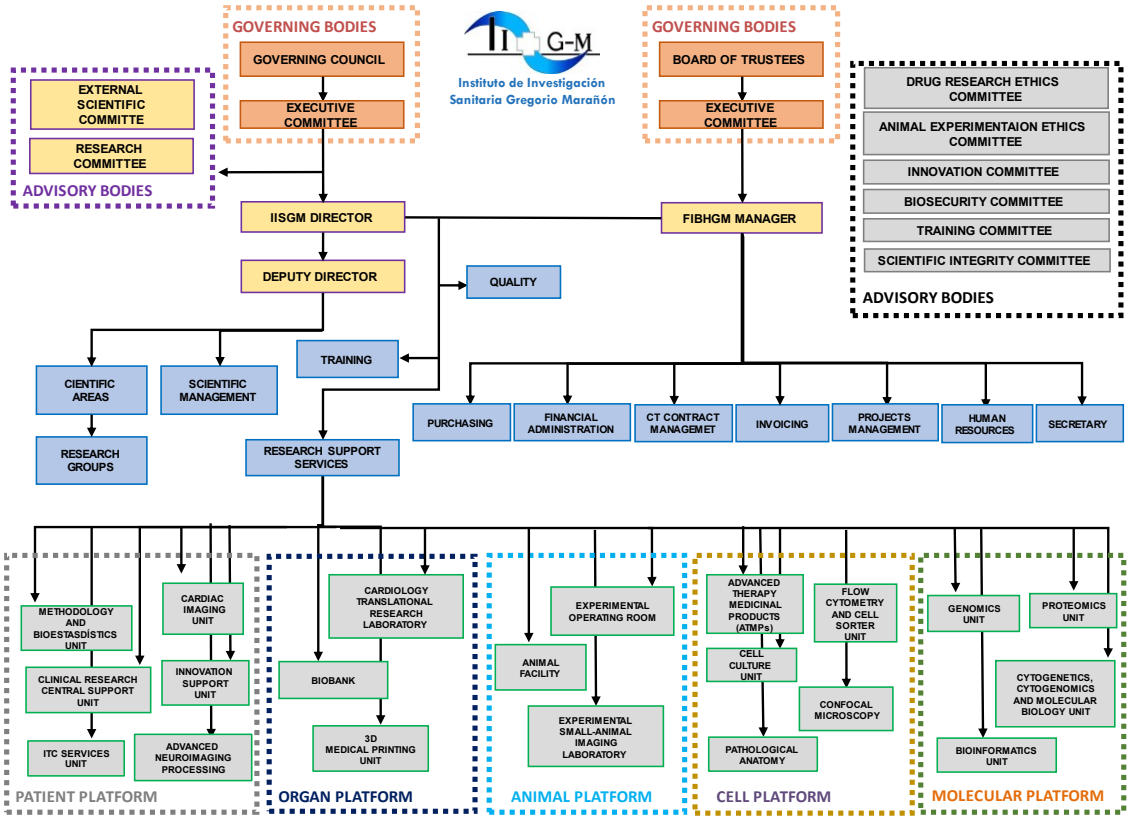

Scientific output of Area 7 in indexed journals with impact factor:
**TOTAL AND MEAN IMPACT FACTOR**




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

# 4.2 Organizational structure of IiSGM

## i.ORGANIZATIONAL CHART



# ii.GOVERNING BODIES

| GOVERNING COUNCIL | | |
|---|---|---|
| Chair: | **Laura Gutiérrez Barreno** | Vice Councillor of Health care. Comunidad de Madrid |
| First Deputy chair: | **Joaquín Goyache Goñi** | Chancellor of UCM |
| Second Deputy-chair: | **Angel Arias Hernández** | Chancellor of UC3M |
| Members at large: | **Sonia García de San José** | Manager of HGUGM |
| | **Constancio Medrano López** | Scientific Director of IiSGM<br>Chair of research Committee |
| | **Rafael Bañares Cañizares** | Trustee of the FIBHGM |
| Members: | **Manuel Desco Menéndez** | Trustee of the FIBHGM |
| | **Javier Bermejo Thomas** | Trustee of the FIBHGM |
| | **Ramón García Sanz** | Trustee of the FIBHGM |
| | **Francisco de Asís Ayala** | Trustee of the FIBHGM |
| | **Patricia Muñoz García-Paredes** | Trustee of the FIBHGM |
| | **María Sanjurjo Sáez** | Trustee of the FIBHGM |
| | **Inmaculada Ibáñez de Cáceres** | Trustee of the FIBHGM |
| | **María Begoña Quintana Villamandos** | Vice-Chancellor of UCM |
| | **Francisco López García** | UCM. |
| | **Luis Enrique García Muñoz** | UC3M. |
| Secretary | **Teresa Fernández Alonso** | Manager of the FIBHGM |

| BOARD OF TRUSTEES | | |
|---|---|---|
| Chair | **Sonia García de San José** | Manager of the HGUGM |
| First Deputy chair | **Carmen Oñate Heredero** | Trustee of the FIBHGM |
| Members | **Constancio Medrano López** | Scientific Director of IiSGM |
| | **Marta Sánchez-Celaya del Pozo** | Deputy Manager of HGUGM |
| | **Javier Bermejo Thomas** | Trustee of the FIBHGM |
| | **Manuel Desco Menéndez** | Trustee of the FIBHGM |
| | **María Sanjurjo Sáez** | Trustee of the FIBHGM |
| | **Patricia Muñoz García-Paredes** | Trustee of the FIBHGM |
| | **Ramón García Sanz** | Trustee of the FIBHGM |
| | **Francisco de Asís Ayala** | Trustee of the FIBHGM |
| | **Miguel Martín Jiménez** | Honour Trustee of the FIBHGM |
| | **Francisco J. Fernández-Avilés** | Honour Trustee of the FIBHGM |
| | **Inmaculada Ibáñez de Cáceres** | Trustee of the FIBHGM |
| | **Francisco López García** | UCM. Trustee of the FIBHGM |
| | **Begoña Quintana Villamandos** | UCM. Trustee of the FIBHGM |
| | **Rafael Bañares Cañizares** | UCM. Trustee of the FIBHGM |

| | | |
|---|---|---|
| | **Luis Enrique García Muñoz** | UC3M. Trustee of the FIBHGM |
| Secretary | **Teresa Fernández Alonso** | Manager of the FIBHGM |

# iii. ADVISORY BODIES

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

| RESEARCH COMMITTEE | | |
|---|---|---|
| Chair: | **Constancio Medrano López** | IiSGM Scientific Director |
| Secretary: | **Marta Martínez Bonet** | HGUGM/R2 |
| | **Ismael Buño Borde** | HGUGM |
| | **Luis Álvarez-Sala Walther (until 2-2025)** | HGUGM |
| | **Celso Arango López** | HGUGM |
| | **Juan José Vaquero (until 2-2025)** | UC3M |
| | **Fernando Asensio Rubio** | HGUGM |
| | **Miguel Relloso Cereceda** | HGUGM |
| | **Rafael Bañares Cañizares** | HGUGM |
| | **José Mª Bellón Cano** | HGUGM |
| | **Javier Bermejo Thomas** | HGUGM |
| | **Rafael Correa Rocha** | HGUGM |

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|---|---|
| **Isabel del Cura González** | Primary Health Care |
| **Mª Carmen de la Cruz Arguedas** | HGUGM |
| **Manuel Desco Menéndez** | HGUGM |
| **Darío García de Viedma del Álamo** | HGUGM |
| **Juana Gil Herrera (until 2-2025)** | HGUGM |
| **Juan Antonio León Luis** | HGUGM |
| **Enrique Lledó García (until 2-2025)** | HGUGM |
| **Luis Andrés López Fernández** | HGUGM |
| **Miguel Martín Jiménez** | HGUGM |
| **Javier de Miguel Díez** | Teaching Committee of the HGUGM |
| **Arantzazu Miner Vélez** | Scientific Management of IiSGM/Quality |
| **Patricia Muñoz García de Paredes** | HGUGM |
| **Andrés Muñoz Martín** | HGUGM |
| **María Luisa Navarro Gómez (until 2-2025)** | HGUGM |
| **María Nieves Moro Tejedor** | HGUGM |
| **María José Parellada Redondo (from 2-2025)** | HGUGM |
| **Ana Isabel Fernández Ávila (from 2-2025)** | HGUGM |
| **Pedro Llontop Santisteban (from 2-2025)** | HGUGM |
| **Santiago Ochandiano Caicoya (from 2-2025)** | HGUGM |
| **Susana Carmona Cañabate (from 2-2025)** | HGUGM |
| **Sara Alcón Nájera (from 2-2025)** | HGUGM/R1 |
| **Begoña Santiago García (from 2-2025)** | HGUGM |
| **Sara López-Tarruella (from 2-2025)** | HGUGM |
| **Palmira Jurado Macías (from 2-2025)** | HGUGM |
| **María Guembe Ramírez (from 2-2025)** | HGUGM |
| **María Begoña Quintana Villamandos (from 2-2025)** | UCM |
| **Francisco Ayala de la Peña (from 11-2025)** | HGUGM |
| **Pilar Martínez Gimeno (from 2-2025)** | Patient Representative. Madrid Diabetes Association |
| **Amaya Sáez Mancebo (from 2-2025)** | Patient Representative. Menudos Corazones Foundation |
| **África Luca de Tena Smith (from 2-2025)** | Patient Representative. Association for People Affected by Atopic Dermatitis (POP) |

# viii. SUPPORTING BODIES

## CLINICAL RESEARCH ETHICS COMMITTEE

| | |
|---|---|
| Chair: | **María Luisa Navarro Gómez** |
| Vice-chair: | **Javier de Miguel Díez** |
| Secretary: | **José Luis Revuelta Herrero** |
| Members: | **Isabel Echevarria Díaz-Guardamino**<br>**Ana María Iglesias Mohedano**<br>**María del Carmen Heras Escobar**<br>**Javier de Miguel Díez**<br>**Pablo González Navarro**<br>**Pablo Demelo Rodríguez**<br>**María del Carmen de la Cruz Arguedas**<br>**Eduardo Zataraín Nicolás**<br>**Fernando Bustelo Paz**<br>**Patricia Font López**<br>**Isabel Gómez Valbuena**<br>**Vicente de las Peñas Gil**<br>**Pilar Aitana Calvo Ferrandiz**<br>**Luis Ibáñez Samaniego**<br>**Alberto Álvarez Perea**<br>**Ana Arnalich Montiel**<br>**Sara Pérez Ramírez**<br>**Isabel Castrejón Fernández**<br>**Juan Antonio Andueza Lillo**<br>**Luis Andrés López Fernández**<br>**Javier Soto Alsar**<br>**Nuria Amarilla Mateu** |
| Administrative: | **Santos Puerta Cruz** |

## ANIMAL EXPERIMENTATION ETHICS COMMITTEE

| | |
|---|---|
| Chair | **Miguel Relloso Cereceda** |
| Members | **Pedro Llontop Santisteban** |
| | **Maria Luisa Soto Montenegro** |
| | **Javier Vaquero** |
| | **Fernando Asensio** |
| | **Javier Urbano Villaescusa** |
| | **María Eugenia Fernández Santos** |
| | **María Victoria Gómez Gaviro** |
| | **David González** |
| | **Iluminada Muriel Pérez** |
| | **Marjorie Pion** |
| | **Santiago Ochandiano** |
| | **María Ángeles González-Nicolás** |
| | **Ignacio Fernández** |
| | **María José Solana** |

## INNOVATION COMMITTEE

| | | |
|---|---|---|
| Chair | **Constancio Medrano López** | IiSGM.Scientific Director |

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|---|---|---|
| Vice-chair | **Manuel Desco Menéndez** | UAI.Director |
| Members | **Teresa Fernández Alonso** | FIBHGM. Manager |
| | **Sonia García de San José** | HGUGM. Manager |
| | **Marta Sánchez Celaya** | HGUGM |
| | **Carmen Lobo Rodríguez** | HGUGM |
| | **Javier Bermejo Thomas** | HGUGM |
| | **Vicente Escudero** | HGUGM |
| | **Rafael Correa Rocha** | FIBHGM.Investigator |
| | **Vicente Escudero** | HGUGM |
| | **Pablo Jara** | HGUGM |
| | **Rubén Pérez Mañanes** | HGUGM |
| | **Guillermo Rodríguez Bernal** | HGUGM |
| | **Juan Antonio de León Luis** | HGUGM |
| | **Marta Supervia** | HGUGM |
| | **David García** | HGUGM |
| | **Raúl López** | HGUGM |
| Secretary | **Daniel Sánchez** | UAI |

## TRAINING COMMITTEE

| | |
|---|---|
| Chair | **Ismael Buño Borde** |
| Members | **Constancio Medrano López** |
| | **Javier de Miguel Díez** |
| | **Fernando Asensio Rubio (until 5-2025)** |
| | **Rafael Correa Rocha (until 5-2025)** |
| | **Pedro Llontop Santisteban (from 5-2025)** |
| | **Marta Supervía Pola (from 5-2025)** |
| | **María Dolores Reboredo Redondas (from 5-2025)** |
| | **Guillermo Álvarez Calatayud (from 5-2025)** |
| | **María Nieves Moro Tejedor (from 5-2025)** |
| | **María Isabel Durango Limárquez (from 5-2025)** |
| | **Pablo Ávila Alonso (R2) (from 5-2025)** |
| | **Miguel López Esteban (R1) (from 5-2025)** |
| | **Arantzazu Miner Vélez** |
| Secretary: | **José María Bellón Cano** |

## BIOSECURITY COMMITTEE

| | |
|---|---|
| Chair | **Ignacio Sánchez-Arcilla** |

| | |
|---|---|
| Members | **Constancio Medrano López** |
| | **Teresa Fernández Alonso** |
| | **Juan Andrés Morillo-Velarde** |
| | **Javier Anguita Velasco** |
| | **Elena Reigadas Ramírez** |
| | **Fernando Asensio Rubio** |
| | **Ana Isabel Cerrillo Martín** |
| | **María del Carmen de la Cruz Arguedas** |
| | **Rosana Diosdado** |
| | **Julio de Soto Garrido** |
| | **Nieves López Fresneña** |
| | **Purificación Pazos Ramos** |
| | **Mario Alberquilla Rodríguez** |
| | **José Luis Revuelta** |
| Secretary | **María Isabel Clemente Mayoral** |

## SCIENTIFIC INTEGRITY COMMITTEE

| | |
|---|---|
| Chair | **Miguel Relloso Cereceda** |
| Members | **Santiago Ochandiano Caicoya** |
| | **Sara Alcón Nájera** |
| | **Mara Parellada Redondo** |
| | **María Luisa Navarro Gómez** |
| | **Ignacio Sánchez Arcilla** |
| | **José María Bellón Cano** |
| Secretary | **María Guembe Ramírez** |

## RESEARCH SUPPORT SERVICES

Scientific Director: **Constancio Medrano López**

| | | |
|---|---|---|
| Responsibles: | **José María Bellón Cano** | Methodology and Biostatistics Unit |
| | **Mª Carmen de la Cruz Arguedas** | Clinical Research Central Support Unit |
| | **Daniel Sánchez Puerto** | Innovation Support Unit |
| | **Javier Bermejo Thomas** | Cardiac Imaging Unit |
| | **Raúl López Martínez** | ICT Services Unit |
| | **Javier Bermejo Thomas** | Cardiology Translational Research Laboratory |
| | **María Ángeles Muñoz-Fernández (until 6-2025)**<br>**Miguel Ángel Idoate Gastearena (from 6-2025)** | Biobank |
| | **Rubén Pérez Mañanes** | 3D Medical Printing Unit |
| | **Pedro Llontop Santisteban** | Experimental Operating Room |

| | |
|---|---|
| **Pedro Llontop Santisteban** | Animal Facility |
| **Lorena Cussó** | Experimental Small-Animal Imaging Laboratory |
| **Mª Eugenia Fernández Santos** | Advanced Therapy Medicinal Products (ATMPs) |
| **Laura Díaz Muñoz** | Flow Cytometry and Cell Sorter Unit |
| **Maribel Clemente Mayoral** | Cell Culture Unit |
| **Rafael Samaniego** | Confocal Microscopy |
| **Miguel Ángel Idoate Gastearena** | Pathological Anatomy |
| **Concha Gil García** | Proteomics Unit |
| **Julia Suárez González** | Genomics Unit |
| **Antonio C. Picornell Company** | Bioinformatics Unit |
| **Ismael Buño Borde**<br>**Carolina Martínez-Laperche**<br>**Raquel Fernández González** | Cytogenetics, cytogenomics and molecular biology unit |
| **Susana Carmona Cañabate**<br>**Daniel Martín de Blas** | Advanced Processing in Neuroimaging |

# viii. MANAGEMENT BODY OF IiSGM

**HOSPITAL GREGORIO MARAÑÓN BIOMEDICAL RESEARCH FOUNDATION**

| | |
|---|---|
| Director: | **Teresa Fernández Alonso** |
| Project Management Area: | **Montserrat Roura Portillo** |
| | **Carlos Arias López** |
| | **Margarita Wong** |
| | **Francisco Matarín** |
| | **Carmen Burgos Roldán** |
| | **Santiago Jiménez de Ory** |
| | **Jose Ignacio Sanz Recio** |
| | **Natalia Villares García** |
| | **Mariano Roda Cordero** |
| | **Blanca González Estables** |
| | **Beatriz Pilar Tous Arribas** |
| | **Ignacio Pontesta Contreras** |
| | **María de los Llanos García García** |
| Scientific Management Area: | **Arantzazu Miner Vélez** |
| | **Ana Isabel Bravo Vega** |
| | **Paula Camarena Ramírez** |
| | **Silvia Rueda García** |
| | **Jose Carlos Guerras Moreira** |
| Clinical Trial Management: | **María del Carmen de la Cruz Arguedas** |
| | **Irene Grasa Vázquez** |
| | **Ana Álvarez Montoro** |
| | **Franco Almirón** |
| | **Laura Tenllado González** |

| | |
|---|---|
| Human resources: | **Alberto Gómez Moreno** |
| | **María González Rodríguez** |
| | **María Josefa Martín Muñoz** |
| | **Cynthia Piñero Torralba** |
| | **Sara Sancho Muñoz** |
| | **María Angélica Manrique Vargas** |
| Prevention of occupational risks: | **Rosana Diosdado Estébanez** |
| Accounting and Invoicing: | **Estefanía Lavilla Guevara** |
| | **Mª Isabel Olmedo Andueza** |
| | **Marta Martín-Arriscado Arroba** |
| | **Blanca González Estables** |
| | **Valentina Gómez de las Heras** |
| Purchasing: | **Miguel Ángel Conejo Martín** |
| | **David Salido Rodríguez** |
| | **Loanna Damary Decena Mateo** |
| | **Mercedes Galindo García** |
| Legal: | **Óscar Villa Ecenarro** |
| Quality: | **Teresa Fernández Alonso** |
| | **David González López** |
| | **Arantzazu Miner Vélez** |
| Secretary: | **Charo Calle Benito** |

# 4.3 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 | UC3M |
| 1.03 Computer architecture, communications, and systems: ARCOS | Jesús Carretero Pérez | CONSOLIDATED | UC3M |
| 1.04 Nonparametric statistics and intensive computing | Juan Romo Urróz | ASOCIATED | UC3M |
| 1.05 Structural and Functional Medical Imaging | Jesús de la Torre Fernández<br>Juan A. Guzmán de Villoria | EMERGING | HGUGM |
| 1.06 Biomedical applications of engineering | Javier Pascau González<br>Arrate Muñoz Barrutia | EMERGING | UC3M |

## AREA 2 Cardiovascular diseases

**COORDINATOR: Javier Bermejo Thomas**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 2.01 Natural history of heart disease | Javier Bermejo Thomas | CONSOLIDATED | HGUGM-UCM |
| 2.02 Cardiovascular pathophysiology | Victoria Cachofeiro Ramos<br>Ernesto Martínez Martínez | CONSOLIDATED | UCM |
| 2.03 Cardiac cellular electrophysiology | Eva Delpón Mosquera | CONSOLIDATED | UCM |
| 2.05 Cardiology and heart transplantation in infants | Constancio Medrano López<br>Alejandro Rodrígues Ogando | EMERGING | HGUGM |
| 2.06 Blood lipids and cardiovascular risk | Luis Antonio Álvarez-Sala Walther<br>Pablo Demelo Rodríguez | EMERGING | HGUGM-UCM |
| 2.07 Acute cerebral ischemia. Stroke | Antonio Gil Núñez<br>Andrés García Pastor | 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 | CONSOLIDATED | HGUGM |

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

**COORDINATOR: Patricia Muñoz García de Paredes**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|
| 4.01 Clinical microbiology and infectious diseases | Patricia Muñoz García de Paredes | CONSOLIDATED | HGUGM-UCM |
| 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions | Juan Carlos López Bernaldo de Quirós<br>María Teresa Aldamiz-Ecehvarría | 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 | Paloma Sánchez-Mateos Rubio | CONSOLIDATED | HGUGM |
| 5.02 Molecular biology of HIV | María Ángeles Muñoz Fernández | CONSOLIDATED | HGUGM |
| 5.03 Systemic autoimmune diseases | José María Álvaro Gracia | CONSOLIDATED | HGUGM |
| 5.05 Pathogenesis of the immunoallergic response | José Manuel Zubeldia Ortuño | EMERGING | HGUGM |
| 5.06 Immune regulation and homeostasis in diseases of the immune system | Rafael Correa Rocha<br>Marjorie Pion | EMERGING | HGUGM |
| 5.07 Infections in paediatric population | María Luisa Navarro Gómez | CONSOLIDATED | HGUGM |

## AREA 6: Translational Oncology

**COORDINATOR: Francisco Ayala de la Peña y Ramón García Sanz**

| Group | Group leader | Type of Group | Organization |
|---|---|---|---|

| | | | |
|---|---|---|---|
| 6.01 Interdisciplinary oncology and biotechnology | Ana Álvarez González<br>Mercedes Muñoz Fernandez | CONSOLIDATED | HGUGM-UCM |
| 6.02 Translational medical oncology and personalized cancer therapy | Francisco Ayala de la Peña | CONSOLIDATED | HGUGM-UCM |
| 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | Ismael Buño Borde<br>Ramón García Sanz | 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 | Maria de los Ángeles Goicoechea Diezhandino | CONSOLIDATED | HGUGM |
| 7.02 Pathophysiology and natural history of liver and digestive diseases | Rafael Bañares Cañizares | CONSOLIDATED | HGUGM-UCM |
| 7.04 Diseases of the critically ill child | Jesús López-Herce Cid | CONSOLIDATED | HGUGM |
| 7.05B Physiological and therapeutic medical-surgical aspects of respiratory diseases | Luis Puente Maestu<br>Ignacio Garutti Martínez | CONSOLIDATED | HGUGM |
| 7.06 Regenerative medicine in plastic surgery | José María Lasso Vázquez | ASOCIADTED | HGUGM |
| 7.07 Experimental kidney transplantation | Enrique Lledó García | EMERGING | HGUGM |
| 7.08 Pediatric endocrinology | Marina Mora Sitja<br>María Sanz Fernández | ASOCIATED | HGUGM |
| 7.10 Regeneration and biomaterials in musculoskeletal disease | Francisco Javier Vaquero Martín | EMERGING | HGUGM-UCM |
| 7.12 Emergency medicine | Javier Muñoz González | ASOCIATED | HGUGM |
| 7.16B Pathophysiology of the cardiovascular system and circulatory support | María Begoña Quintana Villamandos<br>Juan Francisco del Cañizo | EMERGING | HGUGM |
| 7.18 Peritransplant evaluation (liver) | Patricia Duque González | ASOCIATED | HGUGM |
| 7.19 Perianesthetic assessment | Carmen Fernández Riveira | ASOCIATED | HGUGM |
| 7.20 Anesthesia, toxins, and arrhythmias | Matilde Zaballos García | ASOCIATED | HGUGM |
| 7.21 Biopathology of aging | José Antonio Serra Rexach | CONSOLIDATED | HGUGM |
| 7.22 Neonatal and developmental pathophysiology | Manuel Sánchez Luna | EMERGING | HGUGM |
| 7.26 Evaluation of health services and clinical epidemiology | Nieves López Fresneña | EMERGING | HGUGM |

| | | | |
|---|---|---|---|
| 7.27 Hospital pharmacy and pharmacogenomics | María Sanjurjo Sáez | CONSOLIDATED | HGUGM |
| 7.28 Clinical nutrition | María Cristina de la Cuerda Compés | EMERGING | HGUGM |
| 7.29 Vascular pathophysiology and pharmacology | Francisco Pérez Vizcaíno | CONSOLIDATED | UCM |
| 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | Santiago Lizarraga Bonelli<br>Juan Antonio León Luis | EMERGING | HGUGM |
| 7.32 Physical medicine and rehabilitation | Sonia Esteban<br>Marta Supervía Pola | EMERGING | HGUGM |
| 7.33 Pathological Anatomy | Miguel Ángel Idoate Gastearena | EMERGING | HGUGM |
| 7.34 Multimorbidity, chronic diseases and health services. Primary Care | Isabel del Cura González<br>Jesús Martín Fernández | CONSOLIDATED (in the process of integration) | HGUGM |
| 7.35 Translational dermatology: Research and innovation | Ana Pulido Pérez<br>Marta Bergón Sendín | EMERGING | HGUGM |
| 7.36 Translational research and biotechnology in head and neck surgery | Santiago Ochandiano Caicoya<br>Jose Ignacio Salmerón Escobar | EMERGING | HGUGM |

### Nursing Research Group

**COORDINATOR: M. Nieves Moro Tejedor**

| Group | Group leader | Organization |
|---|---|---|
| Research in nursing | María Nieves Moro Tejedor | HGUGM |

### Research and Innovation in Health Management Group

**COORDINATOR: Sonia García de San José**

| Group | Group leader | Organization |
|---|---|---|
| Research and Innovation in Health Management | Sonia García de San José<br>Rodolfo Romero Pareja | HGUGM |

# 4.4 Competitive publicly funded research staff contracts

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

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

| | | | |
|---|---|---|---|
| **Susana Carmona Cañabate** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | Manuel Desco Menéndez |

## INSTITUTO DE SALUD CARLOS III
### Miguel Servet contracts

| | Area | Group | IP |
|---|---|---|---|
| **Laura Tarancón Díez** | 5. Diseases of the Immune System | 5.07 Infections in paediatric population | Laura Tarancón Díez |
| **Marta Martínez Bonet** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Marta Martínez Bonet |
| **Javier González Peñas** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Javier González Peñas |

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

| | Area | Group | IP |
|---|---|---|---|
| **Marta Ferrer Quintero** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |
| **David Rodríguez Temporal** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | Belén Rodríguez |

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

| | Area | Group | IP |
|---|---|---|---|
| **Joaquín Galvañ García** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |
| **Agustín Estévez Prieto** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | Darío García de Viedma |
| **Sara de la Mata Navazo** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child | Jesús López-Herce Cid |
| **Pablo Andrés Camazón** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |
| **Amaia Merino Hernández** | 7. Systemic Diseases and Organ Transplantation | 7.22 Neonatal and developmental pathophysiology | |
| **Vega Zamora de la Fuente** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | |
| **Ileana Gefaell Larrondo** | 7. Systemic Diseases and Organ Transplantation | 7.34 Multimorbidity, chronic diseases and health services. Primary Care | |

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

| | Area | Group | IP |
|---|---|---|---|
| **Aránzazu Caballero Marcos** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and gastroenterological diseases | |
| **Ana Clemente Sánchez** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and gastroenterological diseases | |
| **Laura Butragueño Laiseca** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child | |
| **David Aguilera Alonso** | 7. Systemic Diseases and Organ Transplantation | 5.07 Infections in paediatric population | |

## INSTITUTO DE SALUD CARLOS III
### Bioinformatics technical staff supporting research at the IIS

| | Area | Group | IP |
|---|---|---|---|
| **Perceval Vellosillo González** | Bioinformatics unit | | Ismael Buño Borde |

## INSTITUTO DE SALUD CARLOS III
### Predoctoral contracts (PFIS)

| | Area | Group | IP |
|---|---|---|---|
| **Jorge Martínez Solano** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease | Manuel Martínez-Sellés D'Oliveira Soares |
| **Ana Echevarría Bruno** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |
| **Ana Soriano Martín-Nieto** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | Patricia Muñoz García-Paredes |
| **Sergio Buenestado Serrano** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | Darío García de Viedma |
| **Marta Díaz Navarro** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | María Guembe Ramírez |
| **Jesús Rosales Magallares** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Marjorie Pion |
| **Marta López Llaría** | 7. Systemic Diseases and Organ Transplantation | 5.07 Infections in paediatric population | |
| **Emily Guerra Blacio** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | |

## INSTITUTO DE SALUD CARLOS III
### Intensification contracts

| | Area | Group | IP |
|---|---|---|---|
| **Ángel Arenal Maíz** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease | Ángel Arenal Maíz |
| **Felipe Atienza Fernández** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease | Felipe Atienza Fernández |
| **María José Parellada Redondo** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | María José Parellada Redondo |
| **Mariana Beatriz Bastos Oreiro** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | Mariana Beatriz Bastos Oreiro |

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

| | Area | Group |
|---|---|---|
| **Paula Camarena Ramírez (until 1-2025)** | | Technical Unit FIBHGM |
| **Jose Carlos Guerras Moreira (from 3-2025)** | | Technical Unit FIBHGM |

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

| | Area | Group | IP |
|---|---|---|---|
| **Rocío Panadero Gómez** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |
| **Hayford Abrokwa Acheampong** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Celso Arango López |

## AGENCIA ESTATAL DE INVESTIGACIÓN
### Funding for Ramón y Cajal contracts

| | Area | Group | IP |
|---|---|---|---|
| **Lorena Cussó Mula** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | Lorena Cussó Mula |

## AGENCIA ESTATAL DE INVESTIGACIÓN
### Technical Support Staff

| | Area | Group | IP |
|---|---|---|---|
| **Carlota Ortiz García** | | 3D Medical printing unit | Rubén Pérez Mañanes |
| **Mario González Arjona** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | Beatriz Salinas Rodríguez |
| **Iris Sánchez del Pozo** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | María Belén Rodríguez Sánchez |

## COMUNIDAD AUTÓNOMA DE MADRID
### Attracting Research Talent: César Nombela candidate

| | Area | Group | IP |
|---|---|---|---|
| **Marina Bárcena Varela** | 7. Systemic Diseases and Organ Transplantation | 7.02 Pathophysiology and natural history of liver and gastroenterological diseases | |

## COMUNIDAD AUTÓNOMA DE MADRID
### Grants for predoctoral research staff in training

| | Area | Group | IP |
|---|---|---|---|
| **Sandra Gómez Arconada** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Rafael Correa Rocha |
| **Ismael de la Iglesia San Sebastián** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | Carolina Martínez Laperche |
| **Paula Zapata Cobo** | 7. Systemic Diseases and Organ Transplantation | 7.27 Hospital pharmacy and pharmacogenomics | Luis Andrés López Fernández |
| **Belén Taulero Escalera** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | Marta Rapado Castro |
| **Laura Merino Fernández** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Marjorie Pion |

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

| | Area | Group | IP |
|---|---|---|---|
| **Elisa María Pinto Pulido** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | María Victoria Gómez Gaviro |
| **Julia Carolina Salazar Romero** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | María Victoria Gómez Gaviro |
| **José González Leiva** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases | Jesús Vicente Guinea Ortega |
| **Paulina Magdalena Zieba** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Marjorie Pion |
| **Sara Benavente García** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system | Rafael Correa Rocha |
| **Esther Guerrero López-Picazo** | | Animal facility | Pedro Llontop Santisteban |
| **Raquel Sánchez Moya** | | Animal facility | Pedro Llontop Santisteban |
| **Esther Nombela González** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | María Victoria Gómez Gaviro |
| **Mónica Millán Casas** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health | Lorena Cussó Mula |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Intramural Program to Promote Research

### Predoctoral Contracts

| | Area | Group |
|---|---|---|
| **Cristina Ballesteros Sánchez** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Marta López Llaria** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |
| **Beatriz Lázaro Martín** | 5. Diseases of the Immune System | 5.07 Infections in paediatric population |
| **Belén Taulero Escalera** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Patricia Arribas Poza** | 7. Systemic Diseases and Organ Transplantation | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium |
| **Andrea Marcos Abellán** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Intramural Program to Promote Research

### Predoctoral in healthcare innovation Contracts

| | Area | Group |
|---|---|---|
| **Sandra Gómez Arconada** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Mark Gutiérrez Pareja** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Intramural Program to Promote Research

### Post-specialized Health Training Contracts

| | Area | Group |
|---|---|---|
| **Marina López Rubio** | 2. Cardiovascular diseases | 2.06 Blood lipids and cardiovascular risk |
| **Sara Muñoz Gómez** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases |
| **María Sánchez Cueto** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |

| | | |
|---|---|---|
| **Patricia Andrea Quijada Morales** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Miguel López Esteban** | 6. Translational Oncology | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation |
| **Cristina Corraliza González** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Intramural Program to Promote Research

### Post-doctoral Contracts

| | Area | Group |
|---|---|---|
| **Marina Fayos Pérez** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.02 Clinical and epidemiological aspects of HIV infection and associated conditions |
| **Xabier Guruceaga Sierra** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Intramural Program to Promote Research

### Intensification of research activity contracts (I+D+I and Nursing care)

| | Area | Group |
|---|---|---|
| **María Jesús Pérez Granda** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |
| **María Luisa Navarro Gómez** | 5. Diseases of the Immune System | 5.07 Infections in paediatric population |
| **Rafael González Cortés** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child |
| **Marta Supervía Pola** | 7. Systemic Diseases and Organ Transplantation | 7.32 Physical medicine and rehabilitation |
| **Beatriz Garrido Gaspar** | 7. Systemic Diseases and Organ Transplantation | 7.04 Diseases of the critically ill child |
| **Almudena Burillo Albizua** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |
| **Ricardo Sanz Ruiz** | 2. Cardiovascular diseases | 2.01 Natural history of heart disease |
| **María Cristina Ramos Navarro** | 7. Systemic Diseases and Organ Transplantation | 7.22 Neonatal and developmental pathophysiology |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Researchers Stabilization Contracts

| | Area | Group |
|---|---|---|
| **María Luisa Soto Montenegro** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |

| | | |
|---|---|---|
| **María Jesús Serramía Lobera** | 1.Biomedical Engineering | 1.01 Advanced technological applications and human health |
| **Joost Jansen** | 3. Neuroscience and Mental Health | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment |
| **Jesús Vicente Guinea Ortega** | 4. Clinical Microbiology: Infectious diseases and AIDS | 4.01 Clinical microbiology and infectious diseases |
| **Amaya Rocío Puig Kröger** | 5. Diseases of the Immune System | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases |
| **José Luis Jiménez Fuentes** | 5. Diseases of the Immune System | 5.02 Molecular biology of HIV |
| **Rafael Correa Rocha** | 5.Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Marjorie Pion** | 5. Diseases of the Immune System | 5.06 Immune regulation and homeostasis in diseases of the immune system |
| **Javier Vaquero Martín** | 7. Systemic Diseases and Organ Transplantation | 7.10 Regeneration and biomaterials in musculoskeletal disease |
| **Luis Andrés López Fernández** | 7. Systemic Diseases and Organ Transplantation | 7.27 Hospital pharmacy and pharmacogenomics |
| **Miguel Relloso Cereceda** | 7. Systemic Diseases and Organ Transplantation | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium |

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)

### Research Support Technician and Technical Staff

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

# 4.5 Research staff funded through the ISCIII's research networks

| | Group | Name of network | Code |
|---|---|---|---|
| **Marcos Vázquez Álvarez** | 2.01 Natural history of heart disease | Red Española de Terapias Avanzadas (TERAV+) | RD24/0014/0035 |
| **Paula García Roldán** | Advanced Therapies Medicines Production Unit | Red Española de Terapias Avanzadas (TERAV+) | RD24/0014/0035 |
| **Elena Garaulet Belda** | Advanced Therapies Medicines Production Unit | Red Española de Terapias Avanzadas (TERAV+) | RD24/0014/0035 |
| **Laura Ximena Herrera** | 7.04 Diseases of the critically ill child | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | RD24/0013/0012 |
| **Mónica Torres Torresano** | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases | Red de Enfermedades Inflamatorias (REI) | RD24/0007/0029 |
| **Javier Rubio Serrano** | 7.34 Multimorbidity, chronic diseases and health services. Primary Care | Red de Investigación en Cronicidad, Atención Primaria y Prevención y Promoción de la Salud (RICAPPS) | RD24/0005/0015 |
| **Marcos Vázquez Álvarez** | 2.01 Natural history of heart disease | Red Española de Terapias Avanzadas (TERAV+) | RD21/0017/0002 |
| **Gonzalo Ricardo Ríos Muñoz** | 2.01 Natural history of heart disease | Red Española de Terapias Avanzadas (TERAV+) | RD21/0017/0002 |
| **Manuel Guerrero Hurtado** | 2.01 Natural history of heart disease | Red Española de Terapias Avanzadas (TERAV+) | RD21/0017/0002 |
| **Laura Ximena Herrera** | 7.04 Diseases of the critically ill child | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | RD21/0012/0011 |
| **Laura Butragueño Laiseca** | 7.04 Diseases of the critically ill child | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | RD21/0012/0011 |
| **Sara de la Mata Navazo (until 28/07/2024)** | 7.04 Diseases of the critically ill child | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | RD21/0012/0011 |
| **David Blanco Collado (until 18/10/2023)** | 7.01 Inflammation and Vascular Damage in Chronic Kidney Disease, Dialysis and Kidney Transplantation. Renal pathophysiology | RICORS2040-RENAL | RD21/0005/0029 |
| **Claudia Caro Sánchez** | 7.01 Inflammation and Vascular Damage in Chronic Kidney Disease, Dialysis and Kidney Transplantation. Renal pathophysiology | RICORS2040-RENAL | RD21/0005/0029 |
| **Baltasar López Navarro** | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases | Red de Enfermedades Inflamatorias (REI) | RD21/0002/0034 |

| | | | |
|---|---|---|---|
| **María Teresa Schiaffino García-Villanova** | 5.01 Pathophysiology and clinical research into chronic infl ammatory and immunological diseases | Red de Enfermedades Inflamatorias (REI) | RD21/0002/0034 |

# 4.6 Research staff funded through the ISCIII's platforms

| | Group | Name of the Platform | Code |
|---|---|---|---|
| **Alexandra de Francisco López** | Small Animal Research Imaging Laboratory | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00027 |
| **Ainara Barco Tejada** | | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00027 |
| **Carlota Ortiz García (until 31/12/2024)** | Medical 3D Printing Unit | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00116 |
| **Carla de Gregorio Bermejo** | Medical 3D Printing Unit | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00116 |
| **Roxana Juarez Rodríguez (until 30/06/2024)** | Biobank | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00148 |
| **Jorge Luis Gallego de la Fuente** | Biobank | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00148 |
| **Silvia Noemí Vázquez Cuesta** | Biobank | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00148 |
| **Silvia Criado Santiago** | Biobank | Plataforma ISCIII de Biomodelos y Biobancos | PT23/00148 |
| **Ana Álvarez Rubio** | Innovation Support Unit (UAI) | Plataforma ISCIII de Dinamización e Innovación de las capacidades industriales del SNS | PT23/00157 |
| **Daniel Sánchez Puerto** | Innovation Support Unit (UAI) | Plataforma ISCIII de Dinamización e Innovación de las capacidades industriales del SNS | PT23/00157 |
| **Teris Durán Mendoza** | Innovation Support Unit (UAI) | Plataforma ISCIII de Dinamización e Innovación de las capacidades industriales del SNS | PT23/00157 |
| **Irene Grasa Vázquez** | Central Support Unit for Clinical Research and Clinical Trials (UCAICEC) | Plataforma ISCIII de soporte para la Investigación Clínica | PT23/00179 |
| **Franco Almirón** | Central Support Unit for Clinical Research and Clinical Trials (UCAICEC) | Plataforma ISCIII de soporte para la Investigación Clínica | PT23/00179 |

# 4.7 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.

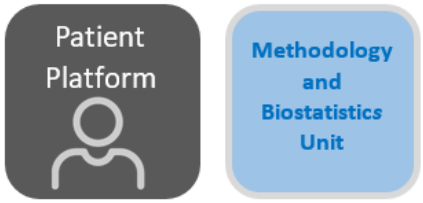
Five platforms have been developed, as follows:

1. **Patient platform**
2. **Organ platform**
3. **Animal platform**

4. Cell platform
5. Molecular platform

## Research Support Services (RSSs)




**Mission**

To researchers in implementing their hypotheses and research proposals, and to provide 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 any aspect of their research project: study type and design, data collection, sample size, database design, and statistical techniques. The aim of the service is to provide researchers with the support necessary for the achievement of their research objectives.

The Unit also carriers out statistical analyses and database operations for the análisis

**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, scientific meetings, talks.
- Doctoral theses and research proficiency projects.

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

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

The researcher can request an appointment in person, by telephone or by email, and will be allocated an appointment according to the availability of the unit's staff.

**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.
Additionally, at the Maternal and Child Hospital (5th floor).

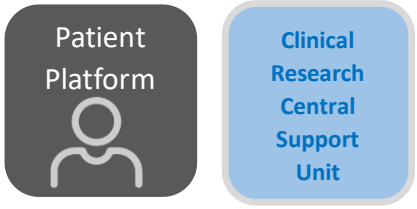
**Technology**
Three networked computers with access to Internet and a shared printer. The computers run SPSS; Stata and open-access statistical software such as EPIDAT, Granmo, and R.

**Staff**
- José María Bellón Cano Head of Unit.
- Biostatistician.
- A resident from the Preventive Medicine Department in rotation.

**Unit documentation**
Procedures manual of the *Methodology and Biostatistics Unit.*

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

***Pablo González Navarro***
*Biostatistician*
*E:mail: pablo.gonzalez@iisgm.com*
*Hospital Materno Infantil Gregorio Marañón (planta 5)*
*C/ O'Donnell 48, 28009 Madrid*




**Mission**

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

**Description**

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

The UCAICEC is conceived as a unit dedicated to the support of quality Clinical Research and Clinical Trials in the planning, development, processing and execution of the clinical trials and non-commercial research studies.

Among the activities developed by the UCAICEC is the management of SCReN in our center. SCREN is a platform funded by the Carlos III Health Institute (ISCIII) with representation in more than 20 hospitals in Spain (https://www.screen.es)

**Services**

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

- Advice and support investigators in their tasks and responsibilities related to the management of documentation for evaluation by the Ethics Committee and regulatory bodies (Spanish Medication Agency [AEMPS] and regional government bodies
- Advice and support investigators in their tasks and responsibilities related to the preparation and follow-up of administrative documentation linked to the project
- Support the investigators in their tasks and responsibilities related to coordination , follow-up of approvals and implementation of the study (logistics and operations).efforts of researchers in clinical trials,
- Advice investigators in their tasks and responsibilities related to management of medication and on performance of the trial (selection of CRO).
- Advice on the management of supplier contracts
- Monitoring Clinical studies(SCREN)

Since 2013, the Unit has implemented a fee structure tailored to the different stakeholder groups, with the aim of ensuring the long-term sustainability of the services provided.

ISO 9001: 2015 certificate ES18/81874

**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*




**Mission**

The Innovation Support Unit (UAI) of IiSGM was created in 2013 within the framework of the ITEMAS Platform financed by Instituto de Salud Carlos III. Its goal is to transform inventions and scientific outcomes into new products, services and research spin-offs that benefit society.

**Description**

The UAI has a multidisciplinary team of professionals that provide support and advice in all that relates to the identification, management, protection, transfer, marketing and dissemination of their research results.

**Services provided**

The UAI offers the following services:

- Evaluation of ideas.
- Support in the valorization of ideas and research results.
- Prototyping (functional analysis and technical evaluation, design, prototype manufacturing).

- Support in the writing and planning of innovation projects.
- Search for funding.
- Support in the search for technological or commercial partners.
- Contractual advice (drafting of collaboration agreements, license contracts, etc.).
- Advice on aspects related to the strategy of Industrial and Intellectual Property protection.
- Drafting and filing of patents.
- Registration of intellectual property works (copyright).
- Operational and strategic advice in technology transfer (spin-offs, licenses, etc.).
- Training activities in innovation management, creativity, and entrepreneurship.
- Dissemination activities and organization of innovation management events.

**Organization**

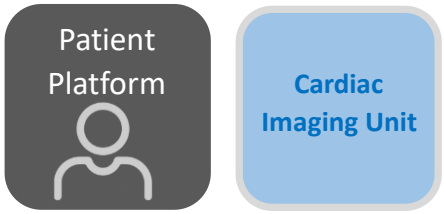
- Head of unit: Manuel Desco.
- Unit Coordinator: Daniel Sánchez.
- Innovation manager: Ana Álvarez, Teris Durán

**Documentation**

https://www.iisgm.com/innovacion/unidad-de-apoyo-a-la-innovacion-uai/

**Contact**

*Daniel Sánchez Puerto*
*Tel: +34 915 867 078*
*E-mail: gestion.innovacion@iisgm.com*
*Pabellón de Gobierno (Ground Floor)*
*Hospital General Universitario Gregorio Marañón*
*Calle Doctor Esquerdo46, 28007 Madrid*




**Mission & Rationale**

Comprehensive cardiac assessment, including both cardiac structure and function, is a key objective in evaluating the effects of cardiovascular therapies. Given its close correlation with patients' long-term prognosis, scientific evidence generated over the last 50 years has consolidated the use of measurements derived from cardiovascular imaging techniques as surrogate endpoints in cardiovascular clinical trials. In addition, patient inclusion criteria in clinical studies are commonly established according to specific cut-off values obtained from different indices of comprehensive cardiac evaluation.

Furthermore, safety studies of drugs used in other medical specialties increasingly require assessment of their potential cardiotoxicity. Consequently, the development of biological therapies, particularly in the field of oncology, has led to a growing demand for comprehensive cardiac evaluation as part of numerous clinical research protocols.

Given its availability, portability, and relatively low cost, echocardiography is the first-line imaging technique for comprehensive cardiac assessment and for monitoring cardiac changes following a specific therapeutic intervention. Nevertheless, cardiac magnetic resonance imaging (MRI) currently provides more accurate and reproducible measurements of ventricular size and function. By reducing measurement variability compared with other imaging modalities, cardiac MRI has demonstrated the potential to reduce sample sizes in studies based on structural and functional cardiac characterization.

Cardiovascular risk stratification based solely on clinical criteria has proven insufficient in a large number of patients, particularly those classified as being at "intermediate risk." Moreover, pharmacological interventions in chronic inflammatory conditions may have a direct effect on cardiovascular risk. In this context, noninvasive assessment of atherosclerotic burden and intima-media thickness by carotid ultrasound provides a well-validated surrogate marker of cardiovascular risk in individual patients.

In recent years, coronary cardiac computed tomography (CT) has become an essential tool in comprehensive cardiac assessment. Its ability to accurately and noninvasively detect the presence and extent of coronary artery disease makes it a highly valuable complementary technique alongside echocardiography and cardiac MRI. This

information is particularly relevant in the context of novel oncological, immunological, and radiation therapies, which may induce or accelerate atherosclerotic plaque formation and modify patients' cardiovascular risk. Furthermore, the exclusion of coronary artery disease by cardiac CT is a key requirement before the initiation of certain therapies that may affect the cardiovascular system. Consequently, cardiac CT has substantially increased its relevance and availability in both research and clinical practice.

On this basis, the mission of the Cardiac Imaging Unit is to provide services to research groups both within and outside IiSGM that may benefit from comprehensive cardiac assessment by echocardiography, cardiac magnetic resonance imaging, and/or cardiac CT, as well as from evaluation of atherosclerotic risk by carotid ultrasound.

**Description**

Research-support echocardiography and carotid ultrasound examinations are performed in the Echocardiography Laboratory, located on the Ground Floor of the Surgical Center of HGUGM. The laboratory is equipped with state-of-the-art imaging systems dedicated to research studies and acquired by IiSGM.

Magnetic resonance studies are performed using dedicated equipment acquired by IiSGM and preferentially assigned to cardiac MRI research. The system is a Philips Achieva 1.5-T scanner located in the MRI area in the basement level of the Oncology Pavilion. The equipment includes the complete cardiovascular imaging software package and is fully integrated into the hospital information system.

Cardiac CT studies are performed using equipment belonging to the Cardiology Department, specifically a General Electric Apex Revolution scanner located on level -1 of the General Hospital. This state-of-the-art system enables acquisition of coronary and whole-heart imaging studies with high spatial resolution, substantially reduced radiation exposure, and excellent diagnostic quality. It is fully integrated into the hospital information system.

The Cardiac Imaging Analysis Unit of the Cardiology Department is organized into two complementary sections.

The first consists of a team of engineers assigned to the Cardiology Department and exclusively dedicated to research activities within LITEC (Translational Research Laboratory in Cardiology).

The second consists of a group of senior radiology technologists also exclusively dedicated to research projects and working in the Cardiology Imaging Laboratory in close collaboration with clinical cardiologists.

Both teams work in a coordinated manner, forming a highly specialized unit for the processing, analysis, and advanced quantification of cardiovascular parameters. The Cardiac Imaging Analysis Unit is equipped with state-of-the-art computing infrastructure with extensive storage and processing capacity for all types of imaging data, as well as validated software for quantitative assessment of cardiovascular parameters, as described below.

**Services provided**

***Echocardiography***

Acquisition of 2D and 3D images, tissue Doppler, color Doppler, continuous-wave Doppler, and pulsed-wave Doppler in parasternal, apical, subcostal, and suprasternal views.

Transesophageal echocardiography (TEE) examinations are also performed using a transesophageal probe capable of three-dimensional (3D) imaging, as well as a small-caliber ("mini") transesophageal probe that facilitates studies in patients with challenging anatomy or limitations for standard probes.

Image acquisition is performed using a 2.0–4.0 MHz transducer and volumetric probe on a high-end imaging platform. The final equipment model may be selected according to the specific requirements of the research study.

***Carotid ultrasound***

Acquisition of B-mode and Doppler ultrasound images of the common carotid artery, carotid bulb, and internal carotid artery using a linear-array transducer.

***Functional cardiac MRI without contrast***

Acquisition of cine sequences for evaluation of biventricular function using short-axis views with complete coverage from the left ventricular base to apex, including 2-chamber, 3-chamber, and 4-chamber views. Studies are performed on a 1.5-T scanner (Philips Achieva, software package release 9).

***Functional cardiac MRI with contrast***

Following administration of a bolus of gadolinium contrast agent (0.2 mmol/kg), a first-pass multiplane perfusion sequence is acquired, followed by a three-dimensional late gadolinium enhancement inversion-recovery sequence. Inversion time is adjusted using the Look-Locker

tool. Images are acquired 15 minutes after contrast administration. Studies are performed on a 1.5-T scanner (Philips Achieva, software package release 9).

*Cardiac CT*

Acquisition of studies using the General Electric Apex Revolution system, incorporating spectral imaging technology, volumetric detector technology, advanced iterative reconstruction, and electrocardiographic synchronization (ECG gating). This system allows comprehensive cardiac imaging, including coronary calcium scoring, coronary CT angiography, and advanced assessments such as myocardial perfusion imaging and iodine mapping.

**Conventional Echocardiographic Assessment (Transthoracic or Transesophageal) (Per Study)**

Assessment of biventricular function from two-dimensional images, measurement of mitral inflow Doppler velocities, left ventricular outflow tract velocities, estimation of pulmonary pressures, and tissue Doppler measurements at the mitral and tricuspid annuli (syngo.via – Intelligent Imaging Software, Siemens).

**Advanced Echocardiographic Assessment (Transthoracic or Transesophageal) (Per Study)**

Measurement of biventricular function from 3D left ventricular images (syngo.via – Intelligent Imaging Software, Siemens) and 3D right ventricular images (4D-RV Function; TomTec Imaging Systems). Assessment of left ventricular longitudinal and circumferential strain and 3D strain (syngo.via – Intelligent Imaging Software, Siemens).

**Carotid Ultrasound Analysis (Per Study)**

Measurement of intima-media thickness at the level of the common carotid artery, carotid bulb, and internal carotid artery using IMT software, Q-Lab (Philips), or ImageJ software, depending on image vendor compatibility.

**Cardiac MRI Analysis (Per Study)**

Assessment of biventricular function, quantification of regional wall motion ("Wall Motion Analysis"), evaluation of intracardiac flow, and quantification of late gadolinium enhancement (Medis® Cardiac MR QMass® and QFlow®). The system can be adapted for quantitative analysis of both clinical and preclinical imaging studies in large and small animal models.

**Cardiac CT Analysis (Per Study)**

Quantification of atherosclerotic lesions with morphometric and volumetric analysis, characterization of plaque composition (calcified, mixed, and non-calcified plaques), and assessment of coronary and aortic valve calcium scores.

Evaluation of valvular function and characterization of structural heart disease. Generation of iodine maps for identification of regions with reduced perfusion, differentiation of thrombus (absence of iodine uptake) from tumors or vascularized masses (presence of iodine uptake), and characterization of vulnerable plaques.

Measurements are performed using the Philips® Portal post-processing software platform, which enables integrated quantitative analysis of the anatomical and functional parameters obtained from each examination.

**Procedure for Requesting a Specific Service**

The IiSGM Service Request Form IM-SPE-7 must be used. The request form consists of five sections:

1. Core Facility Identification
2. Applicant Identification
3. Requested Service Information and Budget*
4. Comments: Indicate whether self-billing applies**
5. Signatures

Data on the services provided:

1. Transthoracic echocardiography
2. Transesophageal echocardiography
3. Carotid ultrasound
4. Functional cardiac MRI without contrast
5. Functional cardiac MRI with contrast
6. Quantitative coronary CT angiography
7. Coronary CT calcium scoring (Agatston score)
8. Cardiac CT for pre-TAVI planning (including vascular access assessment)
9. Cardiac CT for cardiac morphology and functional assessment
10. Cardiac CT of the aorta/pulmonary artery
11. Cardiac CT myocardial perfusion imaging
12. Cardiac CT iodine mapping
13. Cardiac CT with noninvasive FFR-CT calculation

**If justification is required for publicly funded projects, the IiSGM Self-Billing SOP (PR-SPE-06) shall be applied.

NOTE: Sample transport is the responsibility of the Imaging Unit.

The procedure is as follows:

1. Submission of the study protocol describing the parameters to be analyzed.
2. Once the protocol has been reviewed by the Imaging Unit (IU) staff, case report forms (CRFs) specifically designed for the study are sent to the participating center.
3. The study site forwards the imaging studies to be analyzed, together with the corresponding CRFs, to the IU.
4. Performance of the image analysis.
5. Results are sent to the study site.
6. Imaging studies are archived by the IU for one year to allow re-analysis or assessment of additional parameters if required.

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**Mission**

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

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

**Objective**

To offer specialized advice in the implementation of technological solutions

Data representation: generation of dashboards and executive reports

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

Microinformatics: advice on user's position

Communications: video services

**Team**

All staff have at least five years of experience in implementing ICT projects in the health field and fit the profile of Senior Information Systems and Technology Technician with responsibilities in:

IT and telecommunications project management

Design, development and operation of computer systems, including requirements analysis and specification, technical design, user relations, technical support and administration of systems, data, communication networks and security.

**Competences and skills:**

Messaging and data management standards (4 HL7)

Document exchange standards (2CDA)

Terminology standards or controlled vocabularies (4 SNOMED CT)

Security standards (1 ISO 27001)

Project Management (2 PMP)




**Mission**

The Advanced Neuroimaging Processing Service (PAN) provides the software, infrastructure, and expertise required to conduct multimodal neuroimaging studies in humans. The service is staffed by a multidisciplinary team including psychologists, neuroscientists, physicists, and engineers, enabling efficient management of the various stages involved in neuroimaging research—from MRI acquisition sequence design to the preparation of figures for scientific publications, including statistical analysis and the development of image-processing pipelines.

One of the group's main objectives is the development, implementation, and continuous updating of image-processing methodologies, primarily focused on magnetic resonance imaging (MRI). In addition, the service provides neuroimaging support to researchers both within the hospital and from external institutions.

The group maintains national and international collaborations with leading research centers, including the University of Pennsylvania, the University of California, and the Massachusetts Institute of Technology (MIT). At the national level, the group leads the CIBER Neuroimaging Platform.

**Team Infrastructure**

The Advanced Processing Core Facility is equipped with a SuperMicro SuperServer AS-2014CS-TR computing server with the following specifications:

- CPU: AMD EPYC Milan 24C/48T @ 2.85 GHz
- RAM: 8 × 32 GB DDR4 RDIMM @ 3200 MHz
- GPU: NVIDIA A10, 24 GB GDDR6 ECC, 384-bit, 150 W

The following neuroimaging software toolboxes are available on the server for image processing:

- AFNI (https://afni.nimh.nih.gov/)
- ANTs (http://stnava.github.io/ANTs/)
- ASHS (https://sites.google.com/view/ashs-dox/)
- dcm2niix (https://github.com/rordenlab/dcm2niix)
- FastSurfer (https://github.com/Deep-MI/FastSurfer)
- FreeSurfer (https://surfer.nmr.mgh.harvard.edu/)
- FSL (https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/)
- LCModel (http://s-provencher.com/lcmodel.shtml)
- mri_reface (https://www.nitrc.org/projects/mri_reface)
- MRtrix3 (https://www.mrtrix.org/)
- SMT (https://github.com/ekaden/smt)
- SPM (https://www.fil.ion.ucl.ac.uk/spm/)
- Connectome Workbench (https://www.humanconnectome.org/software/connectome-workbench)

**Services Offered**

The group provides support to researchers conducting neuroimaging studies, covering the entire workflow from sequence design to the presentation of results.

Services include:

- Consultation on the design of multimodal MRI acquisition protocols.
- Storage of neuroimaging data in BIDS format.
- Multimodal image processing.
- Statistical analysis focused on neuroimaging data.
- Preparation of figures for scientific publications.

- Writing or reviewing the methodology sections of scientific publications and research proposals.

**Technologies**

The team has extensive expertise in processing and analyzing:

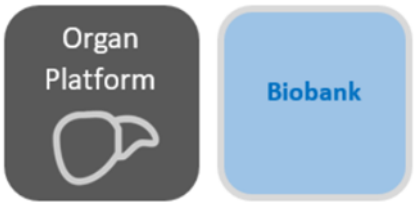
- Diffusion-weighted imaging (DWI).
- High-resolution T1- and T2-weighted structural MRI.
- Magnetic resonance spectroscopy (MRS) data.
- Functional magnetic resonance imaging (fMRI), including both task-based and resting-state studies.
- Cerebral blood flow imaging.

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**Mission**

To contribute to the advancement of scientific 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 scientific 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 Infectious diseases, Paediatrics, Neonatology, Anesthesia, Nephrology, and Paediatric 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.
• Within the Laboratory Platform/HGM HIV Biobank, technique standardization services are also offered between different groups or hospitals, and techniques such as miRNA extraction are performed for various research projects, studies, and clinical trials.

**Technology**

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

- 3 laminar flow cabinets.
- 2 microscopes.
- 2 centrifuges
- 2 microcentrifuges.
- 1 incubator.
- 1 thermostatic bath.
- 1 thermocycler.
- 1 thermomixer.
- 5 pipette controllers.
- 28 micropipettes.
- 1 refrigerator (4º).
- 1 freezer (–20ºC).
- 13 freezers (–80ºC).
- 10 nitrogen tanks.
- Telephonic alarms
- IT equipment
- Air conditioning equipment

**Facility**

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

**Page web:**

https://www.iisgm.com/infraestructuras/1/biobanco

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Organ Platform

Cardiology Translational Research Laboratory

**Mission**

The Cardiology Translational Research Laboratory, is an infrastructure of the Research Institute of the Gregorio Marañón Hospital that is part of the Organ Platform focused on the field of Regenerative Medicine, Basic electrophysiology and genetic analysis, of which Prof. Bermejo Thomas is the Scientific Director.

**Description**

The laboratory started its activity focused on obtaining decellularized matrices, from animal and

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

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

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

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

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

**Services provided**

Organ decellularization.
Study of ventricular mechanics in the intact heart and decellularized matrices.
Histology of the samples obtained from the different scaffolds and constructs.
Tissue and cell electrophysiology program.
Recellularization of decellularized matrices by co-culture.
Recellularization program using bioreactors.
3D Bioprinting
Human cell culture:
- Stromal Vascular Fraction from fat tissue.
- Bone marrow mononuclear cells.
- Mesenchymal stromal cells from Bone marrow.
- Mesenchymal stromal cells from Adipose tissue.
- Cardiac Stem Cell
- Obtaining iPs cells.
- Differentiation of iPS cells into cardiomyocytes and endothelial cells.

Culture of cells from animal tissue, eg, mesenchymal stromal cells, iPh cells, cardiomyocytes,...
Maintenance of different cell lines.
Studies on variants and gene expression, transcriptomics and metagenomics.
Academic and training platform.

**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.

**Technology**

**HISTOLOGY PROGRAM**

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

**CULTURE AND CRYOPRESERVATION PROGRAM**

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

**TISSUE AND CELL ELECTROPHYSIOLOGY PROGRAM**

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

**GENETICS, GENOMICS, AND TRANSCRIPTOMICS PROGRAM**

Basic molecular biology equipment.
Quantitative real-time PCR (RT-PCR) (CFX BioRad).

Imaging equipment and gel analysis software.
Gel-membrane transfer equipment: Trans Blot Turbo (BioRad).
ImageQuant LAS 500 (GE Healthcare).
Server for edition and analysis of massive sequencing data.

**SPECIFIC TECHNIQUES**

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

**BIOREACTOR / RECELLULARIZATION PROGRAMS**

Bioreactors for human and animal organs.
Bioreactors with electromechanical stimulation.

Static and dynamic cell seeding systems.

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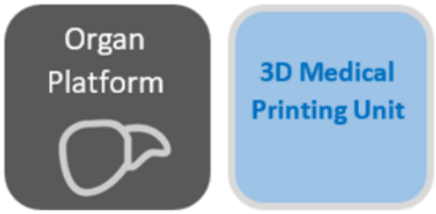
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**Mission**

To provide consulting and 3D prototyping services to researchers, biosanitary institutions and biomedical companies, which can be applied in basic and translational research projects as well as health innovation, applying the personalized medicine paradigm.

**Description**

SAI 3D is a research support service that helps health professionals and researchers who have a need in which 3D printing can contribute to the development of a specific and individualized application in the health sciences area.

The aim of these activities is that innovative projects in these areas have more potential to be transferred to society in general and to the patient in particular.

**Services offered**

3D Modeling

Customized CAD/CAM solutions

Rapid prototyping: functional analysis, technical evaluation, design and manufacturing

3D printing of biomodels from 3D model (STL, OBJ)

3D printing of patient-specific devices from medical image segmentation (CT, CBCT, MR, PET)

Final product development: medical training, surgical simulation, positioning guides, customized instruments and electromedical components.

Advisory on the integration of 3D printing technology in the research and clinical process:

Personalized medical care: patient-centered precision medicine, improved perceived quality thanks to improved medical communication, and objective quality allowing the optimization of therapeutic times

Education and clinical training: medical training and procedure simulation

Pre-clinical testing: improving device design by testing on simulation models

Innovation in customized medical devices: advanced rapid prototyping reducing verification and validation times

**Facilities**

Coworking space

3D printing laboratory room (FabLab) with access control, air conditioning, humidity control and filtration system

Bioprinting room

Hybrid operating room with attached 3D printing room

ISO13485:2018 certified quality management system

**Technologies**

Workstation for advanced 3D design

Hybrid multimodal operating room with state-of-the-art 3D angio-ct 3D (Allia IGS 7), surgical navigator (Brainlab), XR devices (Hololens2) and SLA Form3B+ printer for 3D printing of sterilizable medical devices.

CAD/CAM software: Mimics, Materialise 3-matic, Solidworks, Autodesk Fusion 360, 3DSlicer.

3D printers: FDM (thermoplastic), SLA (resin), SLS (polyamide), MultiJet and metal printing technology.

3D surface scanner

Post-processing tools

New polymers and test materials

**Human resources**

Multidisciplinary team of medical specialists, medical imaging experts, biomedical engineers and pharmacists.

**Coordinators:**

**Rubén Pérez Mañanes**

Orthopedic Surgery and Traumatology Service

Head of the 3D Printing Unit (UPAM3D)

Email: ruben.perez@salud.madrid.org

915688433 / 8073

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**José Antonio Calvo Haro**

Orthopedic Surgery and Traumatology Service

Head of Sarcoma and Musculoskeletal Tumor Unit

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**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 fittings, material, and instruments for the most common surgical procedures.

The main operating room (A) has 2 tables that are custom-designed for animals. One table is radiotransparent to enable x-ray techniques to be performed. A third table can be installed when necessary.

Equipment is also available for more specific procedures such as laparoscopic surgery and extracorporeal circulation.

There are also 3 rooms equipped for microsurgery in small-animal procedures. Two are within the clean area of the animal facility (B and C) and 1 is outside the area (outer room D). The rooms are used for microsurgery training courses and for experiments with small animals.

The RSS Experimental Operating Room of IiSGM makes up the Surgical Area of the Experimental Medicine and Surgery Unit (MCE).

**Services provided**

The basic unit for providing services in the Surgical Area is the so-called Surgical Session, which implies the use of 1 operating table or

microsurgery station for at least 1 morning or 1 afternoon.

Morning.— 8:30 h to 14:00 h (5.5 h).

Afternoon/evening.— 15:30 h to 21:00 h (5'5 h).

In addition to the Surgical Session, requests can be made for animals, support staff, and other equipment (see rates).

The small-animal rooms can be used for a half-session.

If the procedure to be performed requires an operating table (eg, for x-ray) and this prevents the other table from being used, then an exclusivity supplement will be applied.

**RESEARCH**

• Procedures associated with a funded research project.

• Procedures associated with a research project authorized by IiSGM but which is pending funding.

• Procedures associated with research projects from bodies outside the hospital.

**TEACHING/TRAINING**

• Practical sessions for undergraduate students from Universidad Complutense.

• Practical sessions for undergraduate students from Universidad Carlos III.

• Practical sessions enabling hospital staff to perfect surgical techniques.

• Practical sessions enabling staff from other centers to perfect surgical techniques.

• Training courses organized by HGUGM services.

• Training courses organized by other bodies.

**DISSEMINATION**

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

**Technology**

STANDARD OPERATING ROOM. Equipped with the following:

• Multipurpose tables

• Monitoring equipment

• Conventional surgical instruments

• Electric scalpel

• X-ray equipment

• Extracorporeal circulation equipment

• Basic laparoscopic surgery equipment

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

**Facilities**

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

**Contact**

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*Experimental Medicine and Surgery Unit*

*Hospital General Universitario Gregorio Marañón*

***Pedro Llontop Santisteban***

*Head of the Surgical Area*

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***E**-mail: pedro.llontop@iisgm.com*

*Experimental Medicine and Surgery Unit*

*Hospital General Universitario Gregorio Marañón*




**Mission**

To support translational research based on animal models. Biomedical research requires the use of small experimental animals that fulfill, 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 (UMCE).

**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 (UMCE). It covers a 170-m2 area divided into communal areas and animal housing areas.

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

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

Rodents are bred, housed, and undergo experimental procedures in the barrier area.

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

**Structure and distribution**

• Standard animal facility:

– Store

– Cleaning area

– Mouse quarantine room

– Rat quarantine room

– Pig quarantine room

– Postoperative room: pigs

– Room for housing biologic risk 2 rodents (infected animals)

• Barrier area:

– Rat room

– Mouse room

– Sterile material store

– Clean store

– Procedure room 1

– Procedure room 2

**Technology**

The animal facility is equipped with the following:

• Ventilated isolation cabinets with HEPA-ULPA filters for housing rodents.

• Laminar flow cabinets for animal transfer.

• Storage cabinet for rodents used in metabolic studies.

• 2 type II biosafety cabinets.

• Double-door sterilizer with a liquid program.

• Miniclave sterilizer with liquid program.

• Tray washer.

• Stretcher for animal transfer.

• Scale for large animals.

•Scales for rodents.

•Vaporized hydrogen peroxide sterilization equipment.

• Hydrocleaner.

• "Safety Access System" – SAS with a window format.

• Type 1000 and type 500 standard cages, with dividing grill.

• Feeding bottles: 1000 and 300 ml.

• Cages with grills and filters for mice and rats.

• Equipment, devices, and diverse material for experimental procedures, including induction chambers, respirators, and accessories for anesthesia and analgesia of rodents.

**Staff**

Clinicians:

**Fernando Asensio**, Doctor of Veterinary Medicine, Head of the Animal Facility.

**Pedro Llontop** Doctor of Veterinary Medicine, Head of the Animal Facility.

Technician.

**Alba Alises Zamora**, Animal Experimentation Technician.

**Raquel Sánchez Moya**, Animal Experimentation Technician.

Technician:

**Lidia Albadalejo Navarro**, Animal Experimentation

**Contact**

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**Mission**

The main objectives of the Molecular Preclinical Imaging Unit are to research on advanced biomedical imaging technologies and to provide imaging services to researchers from the hospital and from other centers.

The Unit participates in several research networks, such as "Red Madrileña de Nanomedicina en Imagen Molecular" (S2022/BMD-7403 RENIM-CM) and "Modelos animales e imagen biomédica" (Plataformas ISCIII PT23/00027).

**Description**

The Unit has an instrument platform for molecular imaging of small animals. It is 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.

• In vivo optic imaging: candida bacteremia (genetically modified strains), tumor metabolism (genetically modified strains), cell tracking, etc.

• Molecular probes: synthesis of nanoparticles, optic and/or radioactive labeling of biomolecules (antibodies, peptides, microvesicles, etc.)

• SPIM: 3D immunohistochemical studies of whole or semiwhole organs.

• Animal procedures: the technical team of the laboratory has wide experience on basic methods (administration of substances, blood sampling, perfusions, necropsy, etc.) and advanced methods (stroke, stereotactic surgery, cardiac infarction, etc.)

• Other services provided by the unit 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 Unit 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 room, radiopharmacy, nuclear imaging, hot laboratory for cell culture, optical imaging room).

**Technology**

High-resolution PET/CT (SuperArgus, Sedecal)
High-resolution SPECT (Molecubes)
High-resolution CT (Molecubes)
Small animal 7 Tesla magnetic resonance scanner (Bruker Biospec 70/20 USR)
IVIS Lumina Serie II systeml (PerkinElmer)
X-ray irradiator for samples and small animals (Sedecal)
Autoradiography System (Microbeam)
Radiopharmacy unit for in situ production of radiotracers.
3D Single plane illumination microscopy (SPIM) with 5 lasers (405, 488, 532, 590, 649)
Laboratory animal monitoring systems (temperature, respiration, heart rate, etc.): SA (models 1025 and 1030) compatible with the resonance system and RGB compatible with PET

**Contact**

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**Mission**

The Advanced Therapy Medicinal Products Production Unit is a Research Support Service that supports basic-clinical research in the field of Advanced Therapies and Regenerative Medicine. The RSS is integrated within the IISGM's Cell Platform.

**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 (D Class) for the clinical production of ATMPs in closed systems. Also produces cells for preclinical trials in vitro in human. For example, trials have been developed in fields such as cardiology, gynecology, maxillofacial surgery, orthopedic surgery, dermatology, and general surgery.

• ***ATMPs Production Unit:*** Infrastructure that provides support to clinical research in regenerative medicine and advanced therapies. The Unit has been certified by the Spanish Agency for Medicine and Health Products (AEMPS) since February 2009, re-accredited re-accredited for the fifth time in

November 2022 (ES/037/21) for the production of 10 ATMPs and 1 medicament: bone marrow mononuclear cells, bone marrow mesenchymal cells, vascular Stromal Fraction of fat (VSF), mesenchymal cells from fat tissue, periodontal ligament cells, NK cells and autologous Treg cells, and decellularized human donor corneal laminas /LChD), which are part of fifteen Investigational Products (IMPs) authorised and applied in 25 clinical trials in our hospital and in other hospitals both in and outside the Community of Madrid.

**Services provided**

• Preclinical studies in cell therapy and regenerative medicine.
• Production of various cell types used in clinical trials under an infrastructure certified according to Good Manufacturing Practice and investigational products approved by the AEMPS for the production of various types of cell, with the following authorizations for investigational products (IP) approved by the AEMPS:
– Mononuclear bone marrow cells (IMP Nos. 05-042 and 13-037).
– Stromal vascular fraction (fresh fat cells) (IMP No. 11-027).
– Autologous bone marrow mesenchymal stromal cells (IMP No. 09-065 and 10-148).
– Allogenic bone marrow mesenchymal stromal cells (IMP No.12-088 and 14/094).
– Autologous adipose tissue mesenchymal stromal cells (IMP No. 09-019 and 11-164).
– Autologous adipose tissue quiescent mesenchymal stromal cells (IMP No: 21/113).
– Allogenic adipose tissue mesenchymal stromal cells (IMP No. 15-103 and 22-031).
– Periodontal ligament cells (IMP No. 13-143).
– Stimulated and nonexpanded NK cells (IMP No: 17-025).
– Treg lymphocytic cells, differentiated, autologous, thymic tissue, expanded and stimulated with IL-2 (thyTreg) (IMP No. 19-083).
– Decellularized human donor corneal laminas (LChD) (IMP No: 21/114).
• Preparation of Investigational Medicinal Product Dossiers (IMPD) and standardized operating procedures (SOPs). Validation and reporting of new cellular products, to request their 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.

**Facility**

The Advanced Therapy Medicines Production Unit has a facility that complies with the guidelines of the Good Manufacturing Practice (GMP). It is located on floor -1 of the Clinical Building.

**Technology**

**• Therapy Laboratory (D class):**
– BIO II-A de TELSTAR laminar flow cabinet.
– Thermo $CO_2$ incubator.
– AXIOVER40 fluorescence microscope.
– SEPAX system. EPPENDORF 5810R Biosafe for cell separation and refrigerated centrifuge.
– Barnstead MAXQ Mini 4450 shaker.

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

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

**Staff**

**Dra. Mª Eugenia Fernández Santos.**
Director of the Unit. Qualified Person (QP)
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FIBHGM staff
Euraxess: R3.

**Lda. Susana Suárez Sancho.**
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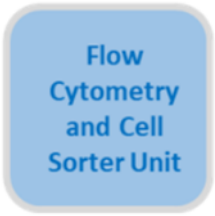
**Documentation**

Quality guarantee system, GMP formal guidelines with certification from the AEMPS. Last valid certificate no. ES/037I/21, last audit 23-25 November 2023.

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**Mission**

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

**Description**

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

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

**Services provided**

**FLOW CYTOMETRY ANALYSER**

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

**CELL SEPARATOR BY FLOW CYTOMETRY**

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

**SUPPORT TO THE RESEARCHER**

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

**Technology**

**FLOW CITOMETER 13 COLOURS, 15 parameters. Cytoflex S Model (Beckman Coulter)**

-The CytoFLEX S model configured with three lasers (out of six options (488 nm, 638 nm, 405 nm, 561 nm, 808 nm, 375 nm). The different configurations support from four up to 13 colours.
- Program mixing and backflush duration for each well within Plate Loader mode
- The CytoFLEX Flow Cytometer has the resolution to detect particles smaller than 200 nm using violet side scatter.
- Fluorescence and side scatter light delivered by fiber optics to Avalanche Photo Diode detector arrays. Proprietary design ensures high performance, high efficiency, low-noise signal detection. Emission profiles are collected using reflective optics and single transmission band pass filters.
- Fixed Flow Rates: 10, 30 and 60 µL/min
- Custom Flow Rate Control mode from 10 to 240 µL/min in 1 µL increments.
- Maximum acquisition rate: 30,000 events per second.
-Software capability to modify window extension parameter and to control abort rate during high event rate signal processing.

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

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

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

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

**FLOW CITOMETER SEPARATOR model MoFlo Astrios, (Beckman- Coulter)**
- Integration in type II biological safety cabin.
- Aerosol evacuation and sample agitation system.
- Controlled temperature of the sample (cooling or heating).
- Possibility of up to 6 solid state lasers (640nm, 592 nm, 561 nm, 532 nm, 488nm, 405 nm) and 7 phinols. It currently has 2 lasers (488nm and 640nm).
- Depending on the application, the acquisition speed can be up to 100,000cel/sec; self-recognition by photomultipliers (PMT) and PODs that allows different configurations depending on the target.
Various collection systems: multiwell plates, propylene tubes, etc.

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

**Facility**

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

**Staff**

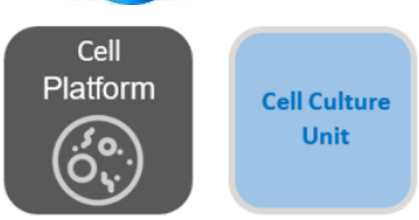
Laura Díaz Muñoz, Head of Unit and Head Technician

**Contact**

***Laura Díaz Muñoz*** *Head Technician*
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*Experimental Medicine and Surgery Unit (prefabricated building). Floor*




**Mission**

The cell culture facility is a dedicated resource designed to bolster scientific inquiry by providing comprehensive technical, scientific, and equipment assistance for cell culture activities. This support is available to both our internal research teams and external public and private entities.
In vitro cell culture development is a critical methodology for unraveling the molecular and cellular pathways that drive biological processes. This technique involves nurturing and maintaining cells, sourced from either healthy or diseased organs or tissues, in a laboratory setting. Crucially, to ensure these cells continue to function as they would in a living organism, we must provide a precise environment: chemically defined culture media and carefully managed conditions including temperature, pH, $CO_2$ levels, and humidity.

**Description**

The Cell Culture facility is an essential base for the implementation and development of research projects that use cell cultures as an experimental tool in the field of Biomedical Research.
The facility integrates infrastructures, laboratories, equipment, and highly qualified personnel, with the aim of providing advice and scientific-technical support to the users of the Unit. Our facility houses a Cell Culture Laboratory (BSL-2), a Microbiology Laboratory (BSL-2), and a cryogenic facility. The Cell Culture Unit has maintained ISO 9001:2015 since 2016.

**Services provided**

Management of the facility and maintenance of documentation
Control of users' access (record of authorized users)
Preparation, supervision, and maintenance of the mandatory documentation, with special attention to waste management and biosafety.
Scientific and technical advice to the users who require
Elaboration and updating of work protocols, cleaning/ sanitization programs and the guidelines for working in cell culture laboratories
Supervision of the fulfillment of work and cleaning standards
Training for users of the facility and dissemination of topics of interest
Mycoplasma screening
Cell thawing
Implementation and continuous improvement of the Laboratory Quality Management system according to ISO 9001:2015

**Facility**

The Cell Culture Facility is placed on the first floor of the Experimental Medicine and Surgery Pavilion of the IiSGM. It has 50 m2 distributed in three rooms equipped with all the necessary equipment for performance experimental procedures with cell culture such as isolation, subculturing and maintenance.
The facility meets all biosecurity requirements to ensure the quality of services offered.

**Technology**

**CELL CULTURE LABORATORY**
- 4 Class II Biological Safety cabinet (BSC); Bio II Advance, Telstar
- 1 Class II BSC; BiOptima Cyto, Telstar
- 2 Water jacket $CO_2$ Incubators with temperature control; Model 3100 Series, Forma Series II water jacket $CO_2$ Incubator, Thermo Scientific.
- 1 $CO_2$ incubator with temperature control; Model Eppendorf Galaxy 48R
- 1 aspiration station; Vacusafe Confort Eco Brand, Bioscience
- 1 Thermostatic bath; IsoTemp FisherBrand analogue (10 litres), Fisherbrand
- 1 Sorvall ST40R series refrigerated centrifuge, Thermo Scientific
- 1 centrifuge Sorvall ST16 series, Thermo Scientific
- 1 refrigerated mini-flute Sorvall legend 21R, Thermo Scientific
- 1 Ultracentrifugue Sorvall WX 100+, Thermo Scientific
- 3 devices to freeze the cells at Coolcell® LX viability.

**MICROBIOLOGY LABORATORY**
- 1 Class II BSC; Gelaire BSB-3
- 1 Class II BSC; Bio II Advance, Telstar
- 3 bacteriological stoves; 2 of Haraeus brand and 1 Selecta Incudigit
- 1 centrifuge; Model: Digitor 21, Orthoaresa.

**CRYOGENIC PLANT**
- 1 "Taylor Wharton" Liquid Nitrogen Container LS 4800, Liquid Nitrogen Capacity: 130 liters
- 1 nitrogen extractor system (50 L)

**Staff**

Responsible of cell culture facility: Maribel Clemente Mayoral, PhD

**Contact**

***Maribel Clemente Mayoral, PhD***
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**Mission**

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

**Description**

The unit features a confocal microscope and a digital camera, allowing the acquisition of fluorescence images from fixed and live samples. The confocal microscope takes optical sections of a fluorescently labeled sample without invading it, thus providing information on the expression and location of molecules in both 3D (xyz) and 4D (3D+time).

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

The Confocal Microscopy Unit has its own funded research lines focused on the design and development of experimental approaches, image processing, and data analysis. In recent years, the unit has specialized in cellular phenotyping using paraffin-preserved or frozen tissue sections. This service is aimed at research groups at the Institute and other institutions upon request. In the last five years, the unit has contributed in various ways to 34 research articles and 47 doctoral theses or final degree/master's projects.

**Services Provided**

• Spectral confocal microscopy: cells, tissues, and organs.

• Video microscopy (time-lapse) of live samples in a $CO_2$ and temperature-controlled environment using a digital camera.

Fees can be found at www.iisgm.com (Research Support Services).

**Technology**

**1. INVERTED SPECTRAL CONFOCAL FLUORESCENCE MICROSCOPE (LEICA-SPE, installed in 2015)**

Spectral confocal model:

- AOTF.
- Internal fluorescence detector (PMT) and bright field detector.
- Image digitization: 2048 x 2048 pixels, 8 and 12 bits per channel.
- Scan 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 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.
- Galvanometer stage.
- Four fluorescence filter blocks: DAPI, FITC, rhodamine, and Cy5.
- Environmental monitoring (temperature and $CO_2$) for experiments with live cells and tissues.
- Computer equipment: PC with Windows 7 software; LAS-X software with quantification tools; and an additional 3D LAS-AF (3D reconstructions, projections, and reconstruction).

**2. DIGITAL CAMERA**

Orca Flash 4.0 LT sCMOS camera coupled to the DMi8 microscope.

**Facility**

The Confocal Microscopy Unit is located in the Experimental Medicine and Surgery Unit. It covers an area of 19.2 m² and has its own power supply and air conditioning to meet the quality requirements for the services provided.

**Contact**

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Experimental Medicine and Surgery Pavilion (first floor)

Gregorio Marañón General University Hospital

c/ Doctor Esquerdo, 46; Madrid 28007




**Mission**

The Anatomic Pathology Service is a central facility of the HGUGM. In its archives there is tissue material from studies of biopsies, surgical resections and autopsies since 1987 and also material from cytological studies (PAAF and other types of samples) since 2000. In the context of Personalized Medicine and therapeutic targets, tissue and cytological material it has become an important source that allows immunohistochemical studies to identify the location and expression of proteins and also to extract nucleic acids (DNA and RNA) for the analysis of predictive and prognostic factors in different pathologies, especially cancer. In addition, the Pathological Anatomy service has an information management program (LIS), in which patient reports have been collected since 1997. On this basis, the Pathological Anatomy Service faces the mission of providing scientific and technical support to research groups inside and outside the Gregorio Marañón Health Research Institute (IiSGM) in the area of conventional histological, immunohistochemical and genetic studies. molecular.

**Description of the facilities**

The Anatomic Pathology service occupies a separate building, which shared with Immunology and Occupational Health, which is accessed from Doctor Castelo street. Distributed over four floors and a basement where the sample archive is located, the service has suitable material for:

- Perform automated inclusion of tissue material from experimental studies (creation of paraffin blocks)
- Section and staining with hematoxylin-eosin of the blocks made or those provided by the researchers in an automated way
- Automated performance of different histochemical techniques (PAS, alcian blue, Masson's trichrome, reticulin, Warthin-Starry, methenamine silver, Grocott, colloidal iron, Congo red, elastic).
- Inclusion, sectioning and interpretation of transmission electron microscopy (EM) studies
- Automated sectioning and staining of immunohistochemical techniques (both with the own catalog and with the antibodies provided by the researchers)
- Tissue block DNA extraction
- Tissue block RNA extraction
- Molecular studies to determine RAS, RAF, EGFR and IMS mutations, genomic fusions, methylation in urothelial lesions and HPV determination.

**Services offered**

- *Case selection*: locating cases that meet the criteria required for a study
- *Case transfer management*: selection of the most appropriate and representative blocks for the proposed study
- *Paraffin embedding*: automated inclusion in paraffin block of material provided by the researchers
- *Histologic section*: making sections in paraffin for conventional studies (H&E and histochemistry)
- *HE stain*: automated staining with H-E
- *Histochemical staining*: automated staining with histochemical techniques according to catalog
- *Histological cutting IHC*: making paraffin sections on treated slides for IHC studies
- *Histological sections 10 mm*: histological sections in Eppendorf for molecular studies
- *HE staining*: automated H-E staining of sections made or provided by investigators
- *Histochemical staining*: automated staining with the chosen histochemical technique of the sections made or provided by the investigators

*IHQ staining*: automated staining with the chosen IHC technique of the sections made or provided by the researchers
*IHC interpretation*: reading by a pathologist of the results of the IHC performed EM
*Embedding and cut*: inclusion and cutting of material for EM studies
*EM interpretation*: interpretation and reporting of ME results
*Block RNA extraction*: extraction of RNA from tissue or cytological block
*Block DNA extraction*: extraction of DNA from tissue or cytological block
*Single gene mutation studies*: (RAS, RAF, EGFR)
*Microsatellite instability:* (IHQ, Molecular Biology)
*Genomic fusions:* (Molecular biology)
*Methylation in urothelial lesions:* (Molecular biology)
*HPV determination*: (Molecular Biology, fluids and paraffin)

**Technology**

The service has sample inclusion systems and microtomes for tissue cutting, as well as centrifuges and other precise devices for cytological studies. In addition, it is endowed by competition with all the automated systems that allow the described techniques to be carried out. At this time and pending the next tender, the equipment for conventional staining, histochemistry and IHC, is awarded to Agilent and the molecular techniques are carried out through VitroPath and Idylla (Biocartis).

**Application procedure for a particular service**

The form will be usedOrder Form IM-SPE-06OIM-SPE-07 of the IISGM.
The Order Sheet consists of 5 parts:

UPS Identification
Applicant Identification*
Data of the required service and budget**
Observations: Indicate if it is self-invoice or not***
Signatures

* Identification of the applicant, in the case in which the researcher to allocate the charge for the service is a new user, he must complete and attach the signed billing data form with the first order sheet.
**Data of the services provided:
[ ] Selection of cases. Number
[ ] Management of the transfer of samples. Number
[ ] Paraffin embedding
[ ] Conventional histological section. Number
[ ] Histological section on treated slides (IHC). Number
[ ] Paraffin section in Eppendorf. Number
[ ] HE staining
[ ] histochemical staining
[ ] IHC staining
[ ] Interpretation of IHC result
[ ] Embedding and cutting electron microscopy
[ ] Interpretation of ME results
[ ] AND extraction
[ ] RNA extraction
[ ] Single gene mutation studies (RAS, RAF, EGFR)
[ ] Microsatellite instability (IHC, Molecular Biology)
[ ] Genomic fusions (Molecular Biology)
[ ] Methylation in urothelial lesions (Molecular Biology)
[ ] HPV determination (Molecular Biology, fluids and paraffin)

***In case of having to justify in public projects, the procedure will be applied PNT Autofacturación PR-SPE-06of the IISGM.
*IMPORTANT: the expense must have been approved by the financing agency, either because it was contemplated in the budget of the initial application (ideal situation), or because the expense was subsequently approved after a formal written request.*
The *procedure to follow is the following: - Request for the study to be carried out. - Approach of a schedule to carry it out according to difficulty or volume of simples*

**Contact**

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**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 and spectrophotometric-based quantification 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 specific to the region to be studied.

2.- Analysis of the **size** and **quantity** of fluorescence-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 amplification by PCR to study copy number variations (CNVs). Fragment analysis by capillary electrophoresis.

4.- **Methylation status- Multiplex ligation probe amplification (MS-MLPA).** Ligation-binding reaction using probes with the homologous area of interest and subsequent amplification by PCR for the study of the methylation status of certain genomic regions. Fragment analysis by capillary electrophoresis.

**ANALYSIS OF DNA BY MASSIVE SEQUENCING**

Sequencing by synthesis. Platforms: MiSeq, NextSeq and NovaSeq (Illumina).

**RESEARCHER SUPPORT**

1.- **Design of primers:** Advice on the design of primers and probes for PCR studies.

2.- **Design of gene panels** for massive sequencing analysis: Design of gene panels for the study of one or more genotypes.

3.- **Personalized assessment** of the experimental approach.

**4.- 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 filing and data processing computer system.

**Technology**

For sequencing studies, the Unit has 6 high-end systems for clinical practice and research studies, which were acquired by IiSGM. four massive sequencers (MiSeq, NextSeq(x2), Novaseq (Illumina)) and two genetic analyzer (ABI 3130xl- 16 capillary tubes- and ABI3730xl -96 capillary- Applied Biosystem). The Genomics Unit also has 4 conventional thermocyclers with a 96-well block (Veriti, Two SimplyAmp, 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 analyserLabChip (Perkim-Elmer), vortex, mini-spin and ice machine

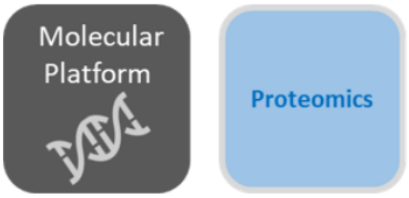
**Staff**

**Ismael Buño**: Scientific Head

**Julia Suárez González**: Technical Head
**Ainhoa Simón Zárate**: Laboratory technician
**Marta Sánchez Carrillo**: Laboratory technician

**Contact**
**Dra. Julia Suárez González**
Technical Head

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## Mission

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

## Description

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

## Services provided

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

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

**Study of post-translational modifications**
Phosphoproteomics
Other modifications: acetylation, ubiquitination…

**Targeted proteomics studies**
MRM analysis

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

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

**Liquid chromatography-mass spectrometry**
Analysis of highly complex samples.

**Subproteome analysis**.
Analysis of cell surface proteins (surform).

**Protein separation**
Monodimensional electrophoresis, SDS-PAGE.

## Facilities

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

## Technology

Q-exactive HF mass spectrometer (Thermo Finnigan).
QTRAP 5500 mass spectrometer (AB SCIEX).
4800 Proteomics Analyzer mass spectrometer with TOF/TOF (AB SCIEX).
LTQ Segmented linear ion trap mass spectrometer (Thermo Finnigan).

Capillary liquid nano-chromatography system ETTAN LC (GE).
Typhoon 9400 fluorescences scanner (GE).
EttanTM system for 2D electrophoresis (GE).
Liquid isoelectric focus fractionator, OFFGEL (Agilent).

**Staff**

Professor of Microbiology, Universidad Complutense de Madrid.
Researcher, Department of Microbiology, and Scientific Director of the Proteomics Unit, UCM-Parque Científico, Madrid.
Vice-President, Spanish Proteomics Society.
Technical staff:
**María Luisa Hernáez Sánchez**. Graduate in Pharmacy, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid, and Technical Director, Proteomics Unit.

**Lola Gutiérrez Blázquez**. Graduate in Biological Sciences, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid

**Felipe Clemente Velarde**. Doctor of Biochemistry, Universidad Autónoma de Madrid.

**Inés Zapico**. Graduate in Chemical Sciences, Universidad de Oviedo.

**Enrique Pérez**. Master of Bioinformatics, Universidad de Murcia.

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

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Molecular Platform

Cytogenetics, Cytogenomics and Molecular Biology Unit

**Justification**

Genetic studies have become essential for the diagnosis, prognosis, monitoring, or treatment selection of patients. There are different types of genetic variants (from point variants to large structural alterations) that require different methodological approaches for their identification. Likewise, the number of altered cells (down to the level of minimal detectable disease) means that the technological approach for detecting genetic variants can vary widely. On this basis, the Cytogenetics, Cytogenomics, and Molecular Biology Unit aims to provide scientific and technological support in these areas of genetics to research groups at the Gregorio Marañón Health Research Institute (IiSGM), as well as to any external group.

**Facility Description**

The Cytogenetics, Cytogenomics, and Molecular Biology Unit of the IiSGM is located on Floor -1 of the Oncology and Advanced Therapies Building, within the Hematological Genetics Laboratory of the Hematology Department of the Gregorio Marañón University General Hospital.

The Unit has excellent equipment, described below, for both sample preparation and a wide range of tests.

**Sample Processing:**

- Maxwell CSC48 and Maxwell RSC (Promega): automated extraction of DNA and RNA, cell-free plasma DNA, and tissue DNA
- Auto-MACS (Miltenyi Biotec): purification of leukocyte lineages
- Two Class 2 biosafety cabinets (Thermofisher)

- $CO_2$ incubator for cell cultures (Thermofisher)
- Spectrophotometer (Nanodrop)
- Qubit fluorometer (Thermofisher)
- Cold plate centrifuges, cold Eppendorf centrifuge, thermoblock, vortex, and mini-spins
- Hulamixer (Thermofisher)

**Cytogenetics and Cytogenomics Studies:**

- Conventional fluorescence microscope for fluorescence in situ hybridization (FISH) analysis
- Automated metaphase capture system (Metafer) under the microscope
- Software for specific karyotype analysis: Ikaros program (2 licenses)
- System for optical genome mapping, along with a dedicated server and software for data analysis (Bionano)

**Molecular Biology** (specializing in techniques for detecting measurable residual disease, MRD):

- Conventional PCR (4 thermal cyclers: 1 Verity from Applied Biosystems, 3 SimpliAmp)
- Real-time quantitative PCR (qPCR, LightCycler 480, LightCycler96 Roche)
- Digital PCR (dPCR, QIAcuity, Qiagen)
- Everything necessary for NGS, including automated library preparation (Hamilton Company, USA)

**Service Portfolio**

- Extraction and quantification of nucleic acids
- Automated purification of leukocyte lineages
- Cell cultures (mainly hematopoietic cells)
- Fluorescence in situ hybridization on fresh cells or paraffin-embedded samples. Processing, execution, and interpretation of results
- Karyotyping of blood, bone marrow, or tissue samples using G-banding (Conventional Cytogenetics). Processing, execution, and interpretation of results
- Optical genome mapping. Processing (specialized in hematopoietic cells), analysis, and interpretation of results (specialized in hematological diseases)
- Conventional PCR, quantitative PCR, or digital PCR. Design and setup
- Massive parallel sequencing (NGS) panels for onco-hematology. Processing, execution (in collaboration with the Genomics Unit for sequencing), and interpretation of results
- Liquid biopsy (study of cell-free tumor DNA in plasma). Processing, execution, and interpretation of results

**Contact Persons**

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**Mission**

The mission of the Bioinformatics Research Support Service (SAI) is to support the analysis of data from research studies based on the study of genome and/or expression products through high-throughput and multiplexed platforms, to contribute to the diagnosis, risk assessment, monitoring, prevention and targeted therapy of genetically based diseases.

**Description**

The Bioinformatics SAI of the Instituto de Investigación Sanitaria Gregorio Marañón (IiSGM) provides experimental design services and bioinformatics analysis of data from genomic studies to researchers of the institution and external academic and commercial entities.

The Bioinformatics SAI was constituted in 2017 and started its operation in January 2018, achieving ISO 9001:2015 certification for the PR-BNF procedure in May of that year. At present, the Bioinformatics SAI works in collaboration with other IiSGM research units, providing advice on experimental planning and design, along with subsequent data analysis in funded projects. Moreover, the IiSGM, through the Bioinformatics SAI, has been part of the Translational Bioinformatics Network (TransBioNet) since its constitution in 2018.

The members of the Bioinformatics SAI have specialized training in Translational Medicine, which is reflected in their focus on experimental designs in which the search for biomarkers from Next Generation Sequencing (NGS) studies associated with survival and response to treatment have relevance, together with the predictive models generated. In addition, they have participated in initiatives to evaluate new laboratory platforms by means of correlation and concordance analyses in which they evaluate the suitability of new platforms when compared with those in common use in the facilities of the Hospital General Universitario Gregorio Marañón (HGUGM).

The Bioinformatics SAI has a strong translational character with the aim of providing services to the IiSGM Units and the HGUGM so that they can carry out their healthcare tasks.

In addition, the Bioinformatics SAI actively contributes to the guidelines relating to the framework for the development and implementation of the activities defined by the Centro Madrileño de Análisis Genómico (CMAG). On the other hand, it participates in the actions developed within the framework of the current precision medicine infrastructure project associated with science and technology (IMPaCT-Data).

**Services**

***High Throughput and Omics***
- Data pre-processing
- Microarray analysis (volume-dependent pricing)
- Variant analysis (volume-dependent pricing)
- RNA-Seq (volume-dependent prices)
- NanoString (volume dependent pricing)
- Other NGS

***Methodology and data analysis***
- Study design, sample size and defining variables
- Differential expression analysis
- Descriptive analysis and/or correlation between variables
- Functional analysis (e.g. pathways)
- Integrative data analysis -omics
- Other statistical and bioinformatics analyses

***Scientific communications***
- Generation of tables and graphs
- Methods/Results Writing
- Review of published analyses
- Responses to reviewers

***Bioinformatics tool development/maintenance***
- Database design
- Installation and maintenance of bioinformatics applications

***Training***
- IiSGM courses (non SAI organization, consult IiSGM training)
- Customized courses

**Facility**

The main core of the Bioinformatics Unit is located on the first floor of the Experimental Medicine and Surgery Building of the Hospital General Universitario Gregorio Marañón. The HPC server and NAS were installed in the Hospital's Data Processing Center. The most resource-demanding analyses, such as NGS tasks or advanced statistical modelling, are performed there.

***Server 01***
- Model: HP PROLIANT DL380 G9
- CPU: 2 Intel Xeon processors E5-2690 v3
- Memory: 224 GB RAM
- Operating System: Proxmox Hypervisor, based on GNU/Linux Debian

- Multiple virtual machines are run on demand by the various research groups of the IiSGM that may need these services on an ad hoc basis.
- Some infrastructure instances deployed in virtual machines or LXC containers.

***Naso1***

- Model: QNAP TS-EC2480U R2
- Disk: 144TB of raw storage before being configured in RAID6
- CPU: Intel Xeon E3-1246 v3 processor
- Memory: 32GB RAM
- Connected to servers via 10Gb/s fiber optic link

***Naso2***

- Model: QNAP TS-832PXU-RP
- Disk: 60TB raw storage before being configured in RAID6
- CPU: Intel Xeon E3-1246 v3 processor
- Memory: 4GB RAM

Connected to servers via 10Gb/s fiber optic link

***Workstationo1***

- Model: DELL Precision 5820 Workstation
- CPU: Dual Intel Xeon processor W2133
- Memory: 32GB RAM
- Disk: 4TB storage
- The Bioinformatics Unit uses it as a local computing machine.

***Workstationo2***

- Model: DELL Precision 5820 Workstation
- CPU: Intel Core i9-10900X Processor
- Memory: 128GB RAM
- Disk: 24TB storage
- The Bioinformatics Unit uses it as a local computing machine.

**Technology**

All bioinformatics analyses and data storage are carried out on the mentioned infrastructures and equipment, under GNU/Linux operating system or FreeBSD derivatives.

The main work of the Bioinformatics SAI is the development and implementation of analysis pipelines intended for use on data from NGS platforms. At all times the aim is to standardize and facilitate the maintenance of the use of these pipelines using the Git version controller, the use of containers based on Docker or Singularity and the use of Nextflow as a framework when developing analysis pipelines.

The analysis pipelines are developed from the Bioinformatics SAI itself when it is essential or are implemented with the necessary modifications from the pipelines available in the nf-core community.

# 4.8 Innovation, knowledge transfer and translation to practice

**INNOVATION SUPPORT UNIT 2025**

**Intellectual Property KPIs**

IiSGM activity in innovation during 2025 is summarized in the following:

a) Copyright (computer software, database, scientific publications, etc.).

- 6 copyright applications filed in 2025.
- 6 copyright registered in 2025.
- Portfolio of 49 copyrights at 31st December 2025.
- 45 copyright licensed at 31st December 2025.

b) Patents (it includes utility models).

- 21 patents applications.
- 3 patents granted.

- Portfolio of 100 patents (60 granted and 40 applications) at 31st December 2025.
- 78 patents licensed (33 applications and 45 granted) at 31st December 2025.

**Technology Transfer KPIs**

a) Collaboration agreements.

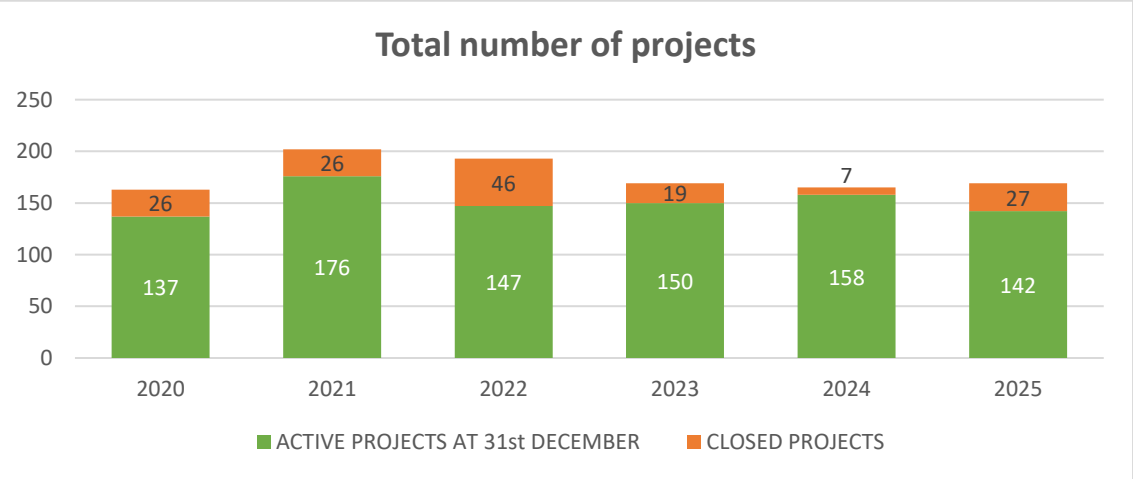
- 2 agreements.

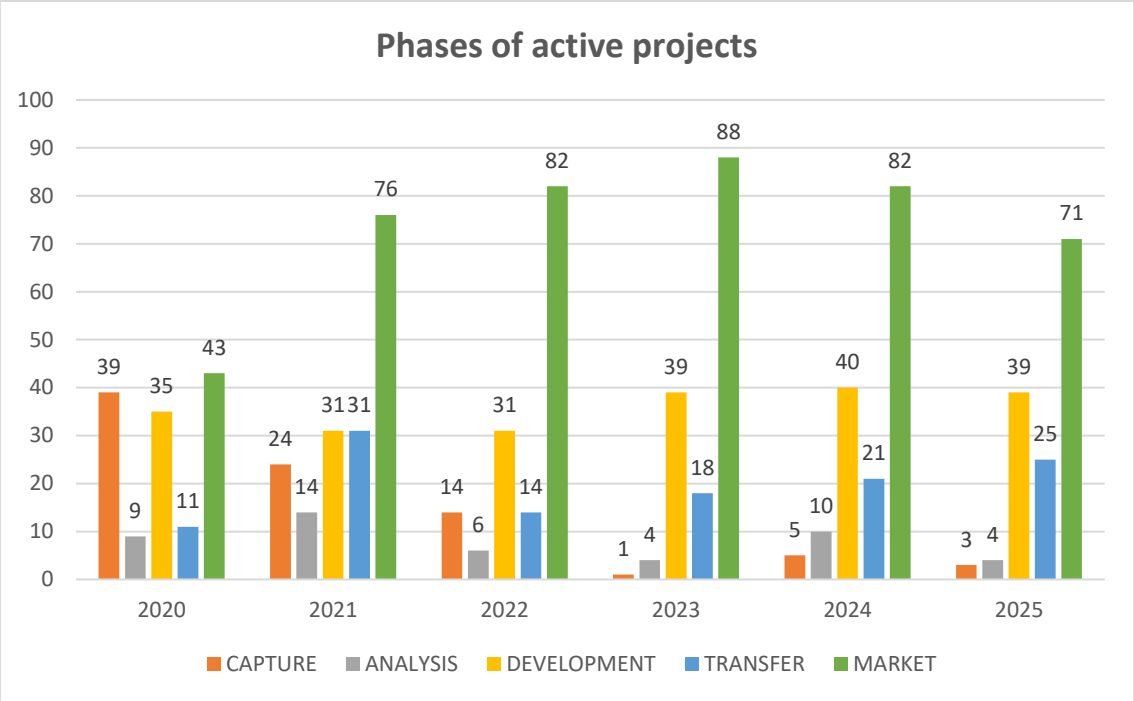
b) Others research & innovation agreements (assignment of rights, NDA, co-ownership agreement, etc.).

- 15 agreements

**Innovation projects KPIs**

During 2025, 11 new innovation projects were supported in the unit. The UAI managed a portfolio of 141 innovation projects at 31st December 2025.






| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| 1 | 1.01 Advanced technological applications and human health | **Tapón antireflujo** | EP22382591 | FIBHGM, UC3M, Ownmed, FIISFJD | Manuel Desco, Ana Ye, Jesús García-Foncillas |
| 1 | 1.01 Advanced technological applications and human health | **Sistema de planificación para radioterapia intraoperatorio (Navegador quirúrgico RIO)** | US12/937568 | GMV | Manuel Desco Menéndez, Javier Pascau Gonzalez-Garzón, Felipe Calvo Manuel, Juan José Vaquero López, Manlio Fabio Valdivieso Cacique, Carlos Guillermo Illana Alejandro |
| 1 | 1.01 Advanced technological applications and human health | **Sistema de simulación clínica híbrida (HYBRIDS) - DUMMYS** | P201730568 | FIBHGM, Medical Simulator | Manuel Desco, Juan Francisco del Cañizo |
| 1 | 1.01 Advanced technological applications and human health | **Sistema de Imagen 3D para proyecciones limitadas** | P201730341 | FIBHGM, UC3M | Manuel Desco, Mónica Abella |

| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| 1 | 1.01 Advanced technological applications and human health | **Protocolo blanqueamiento** | EP24382503 | FIBHGM, Plane Light | María Victoria Gómez-Gaviro, Manuel Desco, Nikolaos Ekizoglou, Isabel Redl López |
| 1 | 1.01 Advanced technological applications and human health | **Trazadores de colágeno para detección no invasiva de focos infecciosos** | P202030838 | FIBHGM, UC3M | Beatriz Salinas, Manuel Desco, Patricia Muñoz, Emilio Bouza |
| 1 | 1.01 Advanced technological applications and human health | **Paneles inmunitarios de ratón por citometría de flujo** | EP24382518 | FIBHGM, UC3M | Lorena Cussó Mula, Manuel Desco, Ainara Barco, Elena Blázquez, Rocío López Esteban, Rafael Correa Rocha, Marjorie Pion |
| 2 | 2.01 Natural history of heart disease | **Método y aparato para el guiado durante la ablación cardiaca mediante la reconstrucción global de la actividad cardiaca a partir de registros noinvasivos e intracavitarios combinados (Dispositivo de localización de arritmias cardiacas, CORIFY)** | P201431597 | FIBHGM, Universidad Politécnica de Valencia | Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, Mª Salud Guillem |
| 2 | 2.01 Natural history of heart disease | **Cuantificación del riesgo embólico a partir del análisis del flujo intracardíaco: "A CLINICAL METHOD FOR MAPPING AND QUANTIFYING BLOOD STASIS AND THROMBUS RISK IN THE HEART" // Nuevo método clínico para la cuantificación del estasis sanguíneo en el interior del ventrículo izquierdo.** | US62259494 | FIBHGM, University of California | Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez- Legazpi, Raquel Yotti |

| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| 2 | 2.01 Natural history of heart disease | **System and Method for Automatic Detection of Circular Cardiac Activations** | P201731161 | FIBHGM, UC3M | Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz |
| 2 | 2.01 Natural history of heart disease | **Método para la detección de mecanismos de arritmias cardiacas complejas** | EP24383410 | FIBHGM | Gonzalo Ricardo Ríos Muñoz, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz |
| 3 | 3.03B. Neurological diseases | **Customized surface stimulation of peripheral nerves for the prolonged reduction of pathological tremor** | EP25382795 | FIBHGM, Instituto Cajal | Francisco Javier Grandas Pérez, Cristina Montero Pardo, Filipe Andre Oliveira Barroso, Alejandro Pascual Valdunciel, Javier Ricardo Pérez Sánchez |
| 5 | 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 | 5.02 Molecular biology of HIV | **Dendríticos carbosilanos homo y hetero funcionalizados** | P201231187 | 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 |
| 5 | 5.02 Molecular biology of HIV | **Dendrímeros carbosilanos y su uso como antivirales** | P201030233 | 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 | 5.02 Molecular biology of HIV | **Nanopartículas metálicas estabilizadas con dendrones carbosilanos 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 |

| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| 5 | 5.02 Molecular biology of HIV | **Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos** | P201600726 | 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 |
| 5 | 5.06 Immune regulation and homeostasis in diseases of the immune system | **Kit de tratamiento de niños trasplantados de corazón con células T reguladoras para suprimir el rechazo del órgano (para regular el sistema inmunitario)** | P201830197 | FIBHGM | Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós |
| 5 | 5.06 Immune regulation and homeostasis in diseases of the immune system | **Generación de células T reguladoras provenientes de timo (thyTreg) modificadas genéticamente para expresar el receptor de antígeno quimérico (CAR, del inglés "chimeric antigen receptor")** | EP23382478 | FIBHGM | Marjorie Pion, Rafael Correa Rocha, Jorge Gallego Valle |
| 6 | 6.02 Translational medical oncology and personalized cancer therapy | **Kit de diagnóstico oncológico** | EP3631016 | FIBHGM, IIB Sant Pau | Andrés Múñoz,<br>Eduardo Salas,<br>José Manuel Soria |
| 7 | 7.01 Inflammation and vascular damage in Chronic Kidney Disease, Dialysis and Renal Transplantation. Renal pathophysiology | **Uso de la cilastatina para reducir la nefrotoxicidad de distintos compuestos** | PCT/ES2008070137 | FIBHGM | Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas |

| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| 7 | 7.01 Inflammation and vascular damage in Chronic Kidney Disease, Dialysis and Renal Transplantation. Renal pathophysiology | **Cilastatina para su uso en el tratamiento de sepsis** | EP16382299 | FIBHGM | Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás |
| 7 | 7.01 Inflammation and vascular damage in Chronic Kidney Disease, Dialysis and Renal Transplantation. Renal pathophysiology | **Cilastatina, nuevo fármaco protector frente a patologías neuroinflamatorias / neurodegenerativas como el glaucoma** | EP23383314 | Telara Pharma, FIBHGM, UCM | Alberto Lázaro, Meritxell López, María Ángeles González-Nicolás, Eva María Marco, Beatriz Martín, Diego San Felipe, Ricardo Llorente, Miguel Ángel Martínez, Sara Rubio |
| 7 | 7.04 Diseases of the critically ill child | **Simulador de hemofiltración (HEFISIM-1)** | P201330340 | FIBHGM, Universidad de Santiago de Compostela, SERGAS | Jesús López-Herce, Santiago Mencía, Antonio Rodríguez |
| 7 | 7.10 Regeneration and biomaterials in musculoskeletal disease<br><br>7.27 Hospital pharmacy and pharmacogenomics | **Implantes personalizados con actividad antimicrobiana para prevenir y tratar infecciones óseas** | P202230220 | FIBHGM, UCM | Pablo Sanz, Almudena Ribed, Dolores Remedios, María Paloma Ballesteros, Elena María González, Luciano de León, Iván Yuste |
| | 9.50 | **Depresor lingual con protector labial y lingual** | P201531508 | FIBHGM | Guillermo Juan Rodríguez, Javier Casanova |
| | 9.50 | **Protector Craneofacial Hinchable** | U202432152 | FIBHGM | Guillermo Juan Rodríguez, Javier Casanova |
| | 9.50 | **Laringoscopio con sistema de vacío** | P202530042 | FIBHGM | Guillermo Juan Rodríguez, Javier Casanova |

| INDUSTRIAL PROPERTY REGISTRATIONS | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference of patent family (Priority number)** | **Owner** | **Inventors** |
| | Animal Facility | **Kit para la inyección intravenosa de roedores bajo anestesia** | U202031736 | FIBHGM | Pedro Llontop |
| | Animal Facility | **Espéculo para la intubación endotraqueal de roedores** | U202200366 | FIBHGM | Pedro Llontop |
| | Animal Facility | **Bastoncillo para frotis vaginal** | U2022331656 | FIBHGM | Pedro Rolando Llontop, Lidia Albadalejo, Alba María Alises, Francisco Sánchez, Alicia Relea |
| | | **Transportador de fenestraciones** | U202200057 | FIBHGM | Javier Río, Rubén Pérez, José Antonio Calvo, Diego Trapero |

Transferred Industrial Property 31/12/2024

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

| COPYRIGHT | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 1 | 1.01 Advanced technological applications and human health | **RapToR: Programa de Reconstrucción de imágenes CT** | M-3480/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| 1 | 1.01 Advanced technological applications and human health | **FUX-SIM: Software de simulación para sistemas de radiología** | M-3481/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| 1 | 1.01 Advanced technological applications and human health | **XAPLAB: Software de simulación de protocolos de adquisición en radiología** | M-3486/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Álvaro Martínez, Alba García |

| COPYRIGHT | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 1 | 1.01 Advanced technological applications and human health | **CIBERSAMXnat: Plataforma de almacenamiento de datos de neuroimagen en entorno Cloud** | M-007734/2020 | CIBER, FIBHGM | Manuel Desco, Susana Carmona, Daniel Martín de Blas, David García, Alberto Fernández |
| 1 | 1.01 Advanced technological applications and human health | **STRAY - Plataforma de simulación para sistemas de radiología** | M-004597/2021 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero |
| 1 | 1.01 Advanced technological applications and human health | **REXCT: Algoritmo rápido de reconstrucción de imagen tomográfica** | M-004598/2021 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero |
| 1 | 1.01 Advanced technological applications and human health | **Radboost:Software de realce automático de imagen radiográfica** | M-008554/2023 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Fco. Javier García Blas, Jesús Carretero Pérez |
| 1 | 1.01 Advanced technological applications and human health | **3D Stitch: Software de pegado automático de volúmenes para ampliación de campo de visión** | M-002342/2024 | UC3M<br>FIBHGM | Mónica Abella García, Jesús Carretero Pérez, Manuel Desco Menéndez, Francisco Javier García Blas, Daniel Sanderson Moreno |
| 3 | 3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment | **Programa de mejora de la convivencia y prevención del acoso escolar LINKlusive** | M-008620/2021 | FIBHGM, UCM | Covadonga Martínez, Javier Martín, Celso Arango |
| 4 | 4.01 Clinical microbiology and infectious diseases | **ESCATI (Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables)** | M-001225/2015 | FIBHGM | María Guembe, Pablo Martín-Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Material Docente para la Prevención de la<br>infección Relacionada con el Catéter (póster, díptico y libreta)** | M-005463/2014 | FIBHGM | María Guembe, Emilio Bouza, María Jesús Pérez |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Nueva alternativa de Diagnóstico Conservador de Colonización de Catéter** | M-005577/2016 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín-Rabadán |

| COPYRIGHT | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Nueva alternativa de Diagnóstico Conservador de Colonización de Catéter II** | M-004704/2022 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín-Rabadán |
| 4 | 4.01 Clinical microbiology and infectious diseases | **BBDD de hongos filamentosos para mejora en la identificación por Maldi-Tof** | M-003778/2019 | FIBHGM | Belén Rodríguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Vídeo con instrucciones para preparación de muestras de hongos filamentosos para su identificación mediante MALDI-TOF** | M-006517/2020 | FIBHGM | Belén Rodríguez, Estreya Zvezdanova, Patricia Muñoz |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2308145061169 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299224 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299217 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299200 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| 4 | 4.01 Clinical microbiology and infectious diseases | **Modelo de diferenciación automática de ribotipos de Clostridioides difficile "presuntivos 027" mediante análisis de espectros de MALDI-TOF -AutoCdiff-** | M-0681/2025 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| 5 | 5.03 Systemic autoimmune diseases | **Infiltraciones Guiadas por Ecografia** | M-005488/2018 | FIBHGM | Juan Carlos Nieto González |

| COPYRIGHT | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 5 | 5.05. Pathogenesis of the immunoallergic response | **Protocolo de alergia a medicamentos** | 2308115023081 | FIBHGM | José Manuel Zubeldia Ortuño, María Luisa Baeza Ochoa de Ocariz, Patricia Rojas Pérez-Ezquerra, Blanca Noguerado Mellado |
| 5 | 5.07. Infections in paediatric patients | **App para la clasificación de la etiología de la Gastroenteritis Aguda (GEA) en pacientes pediátricos** | M-005349/2023 | FIBHGM, UPM | Rosa Rodríguez Fernández, Felipe González Martínez, Carolina Silvia García Martos, José Manuel Mira McWilliams, Gonzalo Aris Jiménez |
| 6 | 6.02 Translational medical oncology and personalized cancer therapy | **SMART (Syndrome Matching and Asessment of Risk Tool)** | M-008855/2014 | FIBHGM, UNED, URJC | Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo |
| 6 | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | **Implantación de nuevos módulos/funcionalidades y nuevas plataformas de comunicación (servidores externos) para GesTHtronica.** | M-006478/2004 | FIBHGM | Pascual Balsalobre, Ismael Buño, José Luis Díez |
| 6 | 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation | **AlloGenomics** | M-005730/2014 | FIBHGM | Ismael Buño, Milagros González, José Luis Díez, Jorge Gayoso, Carolina Martínez, Elena Buces, David Serrano, Pascual Balsalobre, Mi Kwon |
| 7 | 7.04 Diseases of the critically ill child<br><br>7.27 Hospital pharmacy and pharmacogenomics | **Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos** | M-008355/2010 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **E-OncoSalud: programa de telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico** | M-008404/2015 | FIBHGM | María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **NEFRORULES - Base de datos para recomendaciones clínicas para el ajuste de fármacos por insuficiencia renal** | M-008407/2015 | FIBHGM | Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, Mª Luisa Martín, Mª Ángeles Goicoechea, Eduardo Verde, José Luño |

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|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **THROMBORULES: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulados/antiagregados** | M-005565/2016 | FIBHGM | Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **Calculadora paciente diabético - ControlSugar 24-** | M-4105/2017 | FIBHGM | Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **PK-GUIDE: Guía para monitorización clínica de fármacos** | M-4409/2017 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética** | M-4410/2017 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **Calculadora AMBAS: Calculadora para el manejo pre y postoperatorio del tratamiento antibiótico** | M-006098/2022 | FIBHGM | Francisco Chana, Ana de Lorenzo, Ana Herranz, Cristina Pascual, Almudena Ribed, María Sanjurjo |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **Manual de atención farmacéutica al paciente oncohematológico** | M-004850/2021 | FIBHGM | José Luis Revuelta, Belén Marzal,Irene Taladriz, Eva González-Haba, Roberto Collado, Vicente Escudero, María Norberta Sánchez, Ana Herranz, María Sanjurjo |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **Rentaensayos: Herramienta para analizar los costes evitados en medicamentos con los ensayos clínicos oncológicos** | M-000919/2022 | FIBHGM | Vicente Damián Escudero, María Sanjurjo, Ana Herranz, Eva González-Haba, Norberta Sánchez, Roberto Collado, José Luis Revuelta, Miguel Martín, Sebastián García, Ana Mur, María Sánchez, Belén Marzal |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **eMIDCARE** | M-007783/2021 | FIBHGM | Vicente Damián Escudero, Rosa María Romero, Eshter Chamorro, María Aranzazu Ais, María Elena Lobato, Ana María Herranz, María Sanjurjo |

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|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| 7 | 7.27 Hospital pharmacy and pharmacogenomics | **Guía para la implementación y medición de PROs en la Farmacia Oncológica** | 2512053940069 | FIBHGM | Vicente Escudero, Ana Herranz, Jose Luis Revuelta, María Sanjurjo, Esther Chamorro, Roberto Collado, Ana de Lorenzo, María Ferris, Carmen Redondo, Fernando Bustelo, Paula del Valle, Felix Jesús García, Álvaro Narrillos, Pilar Ranz, Paula Ruiz, Beatriz Somoza |
| 7 | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | **Docencia virtual en la asistencia al parto vaginal en 3D** | M-008487/2018 | FIBHGM | Juan Antonio de León |
| 7 | 7.31 Pathophysiology in women, pregnancy, labor, and puerperium | **Pelvitrainer anatómico** | M-001080/2022 | FIBHGM | Juan Antonio León, Coral Bravo |
| 7 | 7.32. Physical medicine and rehabilitation | **Decálogo para un liderazgo humanizado en el HGUGM** | 2503191205677 | FIBHGM | María Dolores Reboredo, Francisco Carrascosa |
| 7 | 7.35. Translational dermatology: Research and innovation | **Unidad Innovadora de Tratamiento de enfermedades inflamatorias de base inmunológica - CEIMI** | M-001887/2023 | FIBHGM | Ofelia Baniandrés, Rafael Bañares, Sonia García, Carlos González, Ana María Herranz, María Carmen Lobo, Luis Alberto Menchén, Indaleciao Monteagudo, María Sanjurjo, Ricardo María Suárez |
| | 8 Research in nursing | **App móvil para gestión eficiente de gasto en enfermería** | M-006090/2020 | FIBHGM | Mª del Pilar Álvaro, Mª de las Nieves Moro |
| | Pediatric Emergency Department | **Sistemática de realización de triage o clasificación de niños a su llegada a urgencias** | M-002893/2015 | FIBHGM | María Concepción Míguez Gloria Margarita Guerrero, María del Carmen Ignacio Cerro |
| | | **Guía para pacientes sometidos a cirugía cardiaca** | M-002420/2023 | FIBHGM | Carmen Román, Leticia Benito, Dominique Valencia |

| COPYRIGHT | | | | | |
|---|---|---|---|---|---|
| **Area** | **Group** | **Title** | **Reference (nº solicitud)** | **Owner** | **Inventors** |
| | | **Guía del paciente intervenido de trasplante cardíaco** | M-002429/2023 | FIBHGM | Carmen Román, Leticia Benito, Mª Carmen Hassen, Eva María de Frutos, Sara Ibáñez, Xandra García |
| | | **Documentación Comité de Bioseguridad HGUGM-IiSGM** | 2504071384390 | FIBHGM | Mario Alberquilla, María Isabel Clemente |
| | | **Per-One: Herramienta de planificación 3D avanzada paciente-específica para entorno point-of-care en CMF y bone surgery** | M-001570/2025 | FIBHGM | Javier López de Atalaya |
| | | **Bankoseo** | M-003575/2025 | FIBHGM | Carlos Castaño |

Transfered Intelectual Property 31/12/2025

## Spin-off Companies

At the Gregorio Marañón Health Research Institute (IiSGM), spin-off companies represent the tangible outcome of translating research into solutions for healthcare needs. Emerging from the Institute's research and accumulated knowledge, these companies act as a bridge that carries innovation from the laboratory to society, transforming knowledge into impact, generating value, and improving patients' lives through entrepreneurial initiative. Four spin-off companies have been established to date within the IiSGM.

### Corify Care

Corify Care was founded on the premise that the diagnosis and treatment of cardiac arrhythmias can be substantially improved. The company is bringing to market ACORYS, a medical device for the non-invasive, real-time mapping of cardiac arrhythmias. This novel technology is expected to improve the management of more than 10 million patients with atrial fibrillation in Europe alone.

### Telara Pharma

Telara Pharma originated from research led by Dr. Alberto Tejedor and aims to commercialize cilastatin for the prevention and treatment of acute kidney injury. The company has recently completed an investment round and signed a worldwide exclusive licensing agreement with the Canadian company Arch Biopartners.

### THYTECH

THYTECH grew out of work carried out by researchers in the Immunoregulation Laboratory. Its therapy involves the administration of thymus-derived thyTreg cells which, through their suppressive and regulatory effects, help control inappropriate immune responses. Already approved by the Spanish Agency of Medicines and Medical Devices (AEMPS), this therapy is currently being administered to pediatric heart transplant recipients to prevent organ rejection, and it holds potential for the treatment of multiple additional conditions.

### Ownmed Innovation

Ownmed Innovation is developing Ostofix®, an innovative ostomy device designed for ostomy patients. With its unique capacity to manage waste material, Ostofix® sets a new benchmark in ostomy care, ensuring optimal comfort and functionality for patients. The device is currently under development.

## 4.9 Interventional and non interventional clinical studies

During the year **2025,** a total of **2186 c**linical trials were active in our hospital. A total of 236 new studies were implemented.

Approximately 37% of the clinical trials with medicines started during 2025 were Phase I, II, and III studies
As for the distribution by research areas, around **52%** of the clinical trials were led by the Translational Oncology Area (Area 6).

| ACTIVE CLINICAL TRIALS | |
|---|---|
| 2021 | 1145 |
| 2022 | 1135 |
| **2023** | **1784** |
| **2024** | **1965** |
| **2025** | **2186** |

| NEW CLINICAL STUDIES | | | |
|---|---|---|---|
| | Clinical Trials | Non-interventional studies | Total |
| 2021 | 176 | 47 | 223 |
| 2022 | 151 | 60 | 211 |
| **2023** | **170** | **55** | **225** |
| **2024** | **172** | **69** | **241** |
| **2025** | **162** | **74** | **236** |

| DISTRIBUTION OF CLINICAL TRIALS SIGNED BY PHASE % | | | | | |
|---|---|---|---|---|---|
| | 2021 | 2022 | **2023** | **2024** | **2025** |
| Phase I | 20,7 | 25,1 | **15,9** | **5.79** | **6,79008** |
| Phase II | 33,9 | 29,8 | **28,2** | **18,2** | **29,62944** |
| Phase III | 42,55 | 42,43 | **44,7** | **36** | **48,14784** |
| Phase IV | 2,3 | 2,65 | **2.9** | **2,07** | **3,0864** |
| Others (Medical device, etc) | 0,57 | 0 | **8.2** | **36,04** | **12,3456** |

| DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2025 (National/International) |
|---|

| | Nº | % |
|---|---|---|
| National | 77 | 32,6 |
| International | 159 | 67,37 |

| DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2025 BY RESEARCH AREA OF IiSGM | | |
|---|---|---|
| | Nº | % |
| Area 1 | **0** | **0** |
| Area 2 | **9** | **3,807** |
| Area 3 | **19** | **8,037** |
| Area 4 | **13** | **5,499** |
| Area 5 | **10** | **4,23** |
| Area 6 | **124** | **52,452** |
| Area 7 | **54** | **22,842** |
| Nursing group | **0** | **0** |
| Healthcare Management Research and Innovation Group | **0** | **0** |
| Associated clinicians | **7** | **2,961** |

# 4.10 Financial information

The FIBHGM 2025 annual accounts are published on the transparency portal of the IiSGM website: https://www.iisgm.com/gestion/portal-de-transparencia/

## 4.10.1 Funding of IiSGM

The global analysis of Institute funding was performed by collecting all income obtained by research groups both from competitive/non-competitive projects and from clinical trials, agreements with various entities, 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 2025 came to 27.098.268€. To these revenues we must add, for the 8th year in a row, the nominative subsidy 1.028.369 € granted to this foundation by the Consejería of Health of the Community of Madrid, which would raise total revenues of the Foundation to **28.126.637 €**

| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|---|
| Total income generated by researchers | 19,183,609 € | 17.699.418 € | 18.684.150 € | 22.204.190€ | 24.000.445€ | 27.098.268€ |
| Nominative subsidy Madrid Community | 622,220 € + 850,000 € | 622,220 € | 756.020€ | 679.606€ | 840.912€ | 1.028.369 € |

The revenues generated by researchers in 2025 is 12,91% higher than in 2024.

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

NATIONAL COMPETITIVE PROJECTS

| 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| 6.987.403,00 € | 6.713.218,22 € | 4.689.906,07 € | 5.129.053,67 € | 4.575.306,63€ | 5.298.654,66€ |

INTERNATIONAL COMPETITIVE PROJECTS

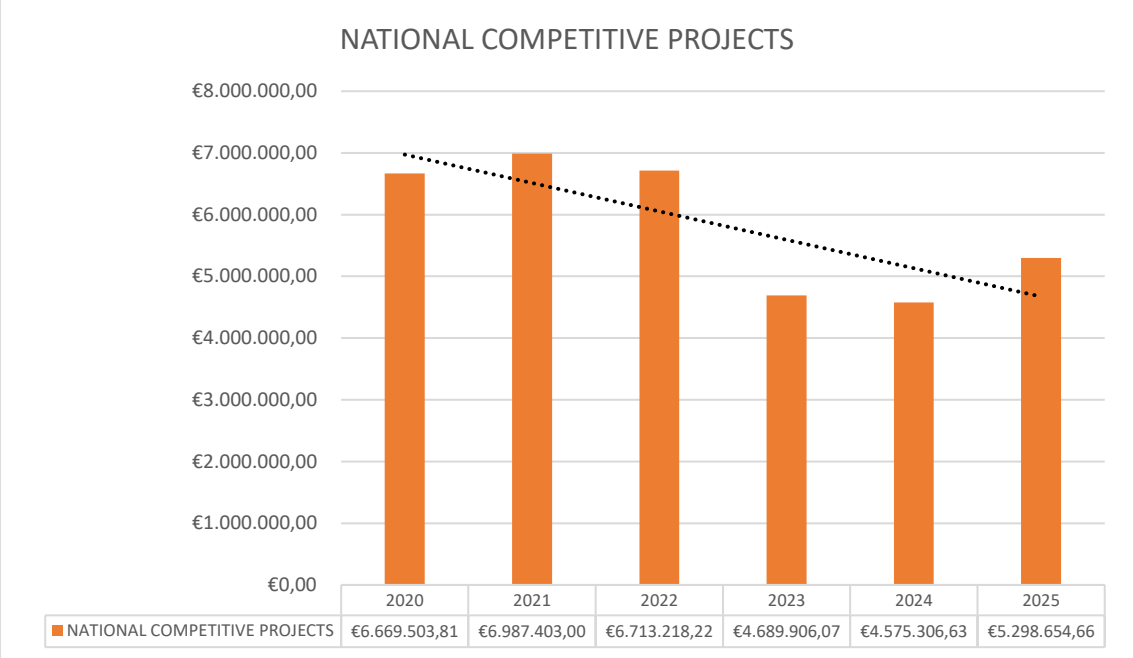
| 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| 621.351,00 € | 746.135,26 € | 1.187.098,21 € | 1.047.286,25 € | 996.829,30€ | 1.240.609,89€ |

NO COMPETITIVE PROJECTS

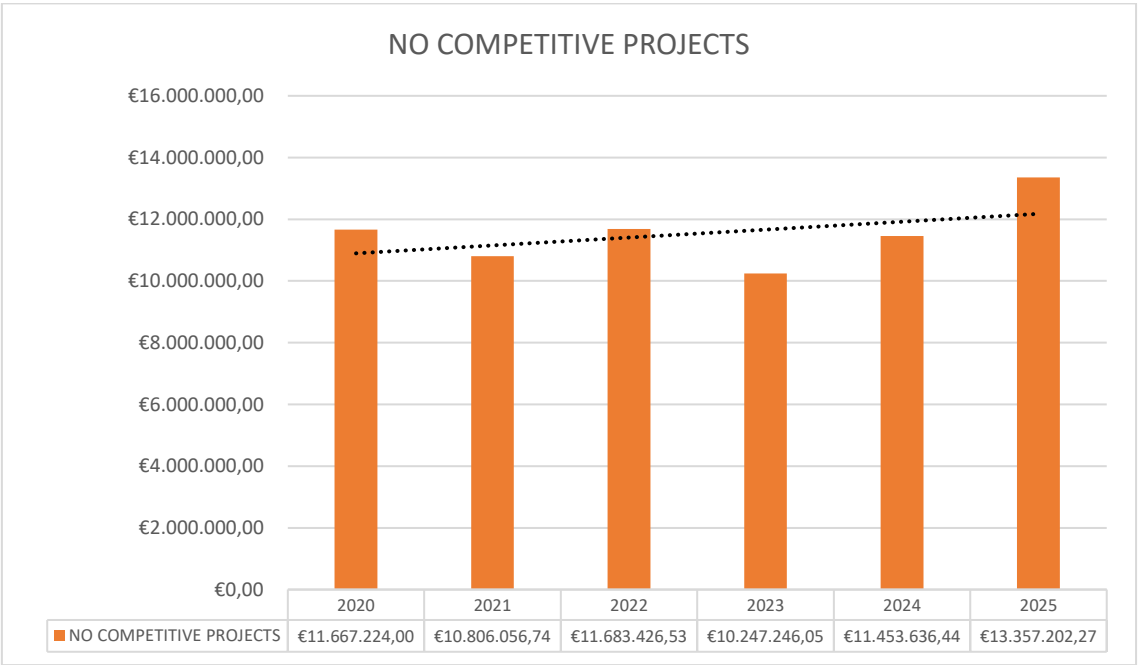
| 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| 11.667.224,00 € | 10.806.056,74 € | 11.683.426,53 € | 10.247.246,05 € | 11.453.636,44€ | 13.357.202,27€ |

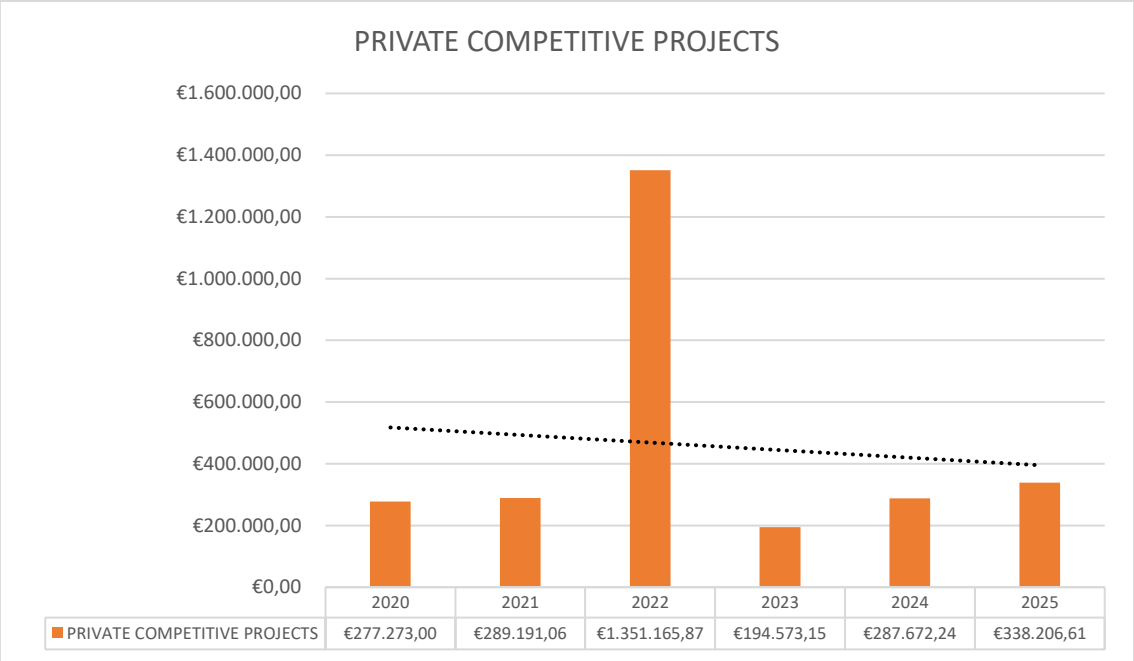
PRIVATE COMPETITIVE PROJECTS

| 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|---|---|---|---|---|---|
| 277.273,00 € | 289.191,06 € | 1.351.165,87 € | 194.573,15 € | 287.672,24€ | 338.206,61€ |




INTERNATIONAL COMPETITIVE PROJECTS
€1.400.000,00
€1.200.000,00
€1.000.000,00
€800.000,00
€600.000,00
€400.000,00
€200.000,00
€0,00
2020
2021
2022
2023
2024
2025
INTERNATIONAL COMPETITIVE PROJECTS
€621.351,00
€746.135,26
€1.187.098,21
€1.047.286,25
€996.829,30
€1.240.609,89


NO COMPETITIVE PROJECTS
€16.000.000,00
€14.000.000,00
€12.000.000,00
€10.000.000,00
€8.000.000,00
€6.000.000,00
€4.000.000,00
€2.000.000,00
€0,00
2020
2021
2022
2023
2024
2025
NO COMPETITIVE PROJECTS
€11.667.224,00
€10.806.056,74
€11.683.426,53
€10.247.246,05
€11.453.636,44
€13.357.202,27




| | Overhead | Project | Total |
|---|---|---|---|
| EECC | 2.595.295,17 | 8.530.766,12 | 11.126.061,29 |
| Contract management | 292.946,00 | 0,00 | 292.946,00 |
| Institute invoicing | 533.893,61 | 0,00 | 533.893,61 |
| Contracts with invoices | 228.197,30 | 1.455.697,53 | 1.683.894,83 |
| Non-repayable private funding | 420.324,66 | 2.368.487,00 | 2.788.811,66 |
| Donations | 112.641,98 | 1.002.251,62 | 1.114.893,60 |
| Repayable private projects | 5.290,45 | 338.206,61 | 343.497,06 |
| Public projects | 381.219,46 | 8.791.125,78 | 9.172.345,24 |
| | 4.569.808,63 | 22.486.534,66 | 27.056.343,29 |
| Financial income | | | 1.070.293,92 |
| Foreign exchange gains | | | |
| TOTAL INCOME | | | **28.126.637,21** |

# 4.10.2 Expenses

**CUENTA DE RESULTADOS A 31-12-2025**

**NIF: G83195305**
**DENOMINACIÓN SOCIAL:**
**FUNDACION INVESTIGACION BIOMEDICA HOSPITAL GREGORIO MARAÑON**

| | | | | Notas | 2025 | 2024 reexpresado* |
|---|---|---|---|---|---|---|
| **A)** | | | **EXCEDENTE DEL EJERCICIO** | | | |
| **1.** | | | **Ingresos de la Entidad por la actividad propia** | | **26.755.953,28** | **22.223.318,67** |
| | ***b)*** | | ***Aportaciones de usuarios*** | | ***13.636.795,73*** | ***10.561.972,02*** |
| | | **721** | Aportaciones de usuarios | | 13.636.795,73 | 10.561.972,02 |
| | ***c)*** | | ***Ingresos de promociones, patrocinadores y colaboraciones*** | | ***2.788.811,66*** | ***4.060.843,36*** |
| | | **723** | Ingresos promociones, patrocinadores y colaboraciones | **(14.d)** | 2.788.811,66 | 4.060.843,36 |
| | ***d)*** | | ***Subvenciones imputadas al excedente del ejercicio*** | | ***9.286.264,67*** | ***6.656.718,37*** |
| | | 748 | Subvenciones imputadas al excedente del ejercicio | **(17.)** | 9.286.264,67 | 6.656.718,37 |
| | ***e)*** | | ***Donaciones y legados Transferidos al excedente del ejercicio*** | | ***1.044.081,22*** | ***943.784,92*** |
| | | **747** | Donaciones y legados Transferidos al excedente del ejercicio | **(17.)** | 1.044.081,22 | 943.784,92 |
| **2.** | | | **Gastos por ayudas y otros** | **(14.a)** | **-5.654.022,97** | **-4.415.289,80** |
| | ***a)*** | | ***Ayudas monetarias*** | | ***-64.680,00*** | ***-82.953,64*** |
| | | 6512 | Reuniones CEIC | | -64.680,00 | -67.800,00 |
| | | 6514 | Premios | | 0,00 | -2.500,00 |
| | | 6518 | Ayudas beca de movilidad | | 0,00 | -12.653,64 |
| | ***b)*** | | ***Ayudas no monetarias*** | | ***-5.589.342,97*** | ***-4.332.336,16*** |
| | | 6530 | Gastos de gestion proyectos | | -5.589.342,97 | -4.331.492,16 |
| | | 6590 | Compensación gastos colaboración | | 0,00 | -844,00 |
| **6.** | | | **Gastos de personal.** | | **-12.437.426,24** | **-11.170.062,90** |
| | ***a)*** | | ***Sueldos, salarios y asimilados.*** | | ***-9.742.327,42*** | ***-8.111.882,35*** |
| | | 640 | Sueldos, salarios y asimilados. | | -9.742.327,42 | -8.111.882,35 |
| | ***b)*** | | ***Cargas sociales.*** | **(14.b)** | ***-3.008.235,97*** | ***-2.484.728,71*** |
| | | 642 | Seguridad Social a cargo empresa | | -3.008.235,97 | -2.485.126,87 |
| | | 649 | Seguros privados becarios | | 0,00 | 398,16 |
| | ***c)*** | | ***Provisiones.*** | **(15.a)** | ***313.137,15*** | ***-573.451,84*** |
| | | 693 (793) | Variación provisión retribución personal | | 313.137,15 | -573.451,84 |
| **7.** | | | **Otros gastos de explotación.** | | **-9.269.663,75** | **-6.937.399,31** |
| | ***a)*** | | ***Servicios exteriores.*** | **(14.c)** | ***-6.490.156,25*** | ***-6.085.579,84*** |
| | | 521 | Arrendamientos y Cánones | | -35.237,30 | 0,00 |
| | | 622 | Reparaciones y conservación construcc. | | -169.575,70 | -121.853,69 |
| | | 623 | Servicios profesionales independientes | | -3.758.456,27 | -4.020.482,45 |
| | | 625 | Primas de seguros | | -22.446,94 | -13.428,75 |
| | | 626 | Servicios bancarios y similares | | -23.559,46 | -19.753,94 |
| | | 629 | Otros servicios | | -2.480.880,58 | -1.910.061,01 |
| | ***b)*** | | ***Tributos.*** | | ***-5.557,65*** | ***-7.658,34*** |
| | | 631 | Tributos. | | -5.557,65 | -7.658,34 |
| | ***c)*** | | ***Pérdidas, deterioro y variación de provisiones por operaciones*** | **(15.a) (15.b)** | ***-2.773.949,85*** | ***-844.161,13*** |
| | | 695 (795) | Variación provisiones operaciones actividad | | -2.773.949,85 | -844.161,13 |
| **8.** | | | **Amortización del inmovilizado.** | **(5 y 6)** | **-786.648,63** | **-1.294.773,06** |
| | | 680 | Amortización inmovilizado intangible | | -229.733,74 | -259.418,16 |
| | | 681 | Amortización inmovilizado material | | -556.914,89 | -1.035.354,90 |
| **9.** | | | **Subvenciones, donaciones y legados de capital traspasados al excedente del ejercicio** | | **300.390,01** | **786.827,57** |
| | ***a)*** | | ***Subvenciones de capital traspasadas al excedente del ejercicio*** | | ***229.577,63*** | ***708.206,78*** |
| | | 7450 | Subvenciones de capital traspasadas al excedente del ejercicio | **(17.)** | **229.577,63** | 708.206,78 |
| | ***b)*** | | ***Donaciones y legados de capital traspasados al excedente del ejercicio*** | | ***70.812,38*** | ***78.620,79*** |
| | | 7451 | Donaciones y legados de capital traspasados al excedente del ejercicio | **(17.)** | **70.812,38** | 78.620,79 |

# 4.10.3 Balance sheet

## BALANCE DE SITUACION AL 31-12-2025

**NIF:B G83195305**
**DENOMINACIÓN SOCIAL: FUNDACION INVESTIGACION BIOMEDICA HOSPITAL GREGORIO MARAÑON**

ACTIVO

| | | | Notas | 2025 | 2024 Reexpresado* |
|---|---|---|---|---|---|
| **A)** | **ACTIVO NO CORRIENTE** | | | **13.752.606,00** | **23.712.295,61** |
| | **I.** | **Inmovilizado intangible.** | **(6.)** | **403.258,35** | **474.709,39** |
| | 3. | Patentes, licencias, marcas y similares | | 7.481,01 | 9.219,34 |
| | 202 | Propiedad industrial | | 455.101,96 | 450.953,95 |
| | 2802 | Amortización acumulada Propiedad Industrial | | -447.620,95 | -441.734,61 |
| | 5. | Aplicaciones informáticas. | | 114.712,62 | 125.438,76 |
| | 205 | Aplicaciones informaticas | | 1.571.738,22 | 1.461.285,22 |
| | 2805 | Amortizacion acumulada aplicaciones informaticas | | -1.457.025,60 | -1.335.846,46 |
| | 6. | Otro Inmovilizado intangible. | | 281.064,72 | 340.051,29 |
| | 209 | Otro Inmovilizado intangible | | 3.945.446,62 | 3.901.764,93 |
| | 2804 | Amortizacion acumulada otro inmovilizado | **(6.)** | -3.664.381,90 | -3.561.713,64 |
| | **II.** | **Inmovilizado material.** | **(5.)** | **1.185.812,65** | **1.383.716,83** |
| | 2. | Instalaciones técnicas y otro inmovilizado material. | | 872.462,55 | 1.070.366,73 |
| | 212 | Equipamiento Informatico y ofimático | | 2.993.087,06 | 2.942.676,91 |
| | 213 | Maquinaria | | 12.243.545,42 | 12.174.307,40 |
| | 215 | Mobiliario | | 705.917,20 | 669.061,42 |
| | 216 | Equipos para proceso de información | | 149.420,73 | 149.420,73 |
| | 218 | Otro inmovilizado Material | | 108.622,04 | 108.622,04 |
| | 281 | Amortizacion Acumulada Inmovilizad Material | **(5.)** | -15.328.129,90 | -14.973.721,77 |
| | 3. | Inmovilizado en curso y anticipos. | | 313.350,10 | 313.350,10 |
| | **IV.** | **Inversiones en empresas del grupo y asociadas a largo** | **(8.4)** | **2.650,00** | **2.650,00** |
| | 1. | Instrumentos de patrimonio. | | 2.650,00 | 2.650,00 |
| | 240 | Participaciones a largo plazo en partes vinculadas | | 2.650,00 | 2.650,00 |
| | **V.** | **Inversiones financieras a largo plazo.** | | **12.160.885,00** | **21.851.219,39** |
| | 1. | Instrumentos de patrimonio. | | 32.900,00 | 32.900,00 |
| | 270 | Garcntia por licitación | | 32.900,00 | 32.900,00 |
| | 3. | Valores representativos de deuda. | **(8.1 y 21.)** | 12.127.985,00 | 21.818.319,39 |
| | 251 | Valores representativos de deuda a largo plazo | | 12.127.985,00 | 21.818.319,39 |
| **B)** | **ACTIVO CORRIENTE** | | | **40.775.379,54** | **28.236.754,53** |
| | **II.** | **Existencias.** | | **58.084,07** | **67.245,10** |
| | 6. | Anticipos a proveedores. | | 58.084,07 | 67.245,10 |
| | 407 | Anticipos a proveedores. | | 58.084,07 | 67.245,10 |
| | **III.** | **Usuarios y otros deudores de la actividad propia** | **(9.)** | **8.248.056,86** | **13.030.115,33** |
| | 1. | Usuarios, deudores | | 2.570.522,53 | 3.413.865,85 |
| | 447 | Clientes y usuarios | | 4.311.869,70 | 4.701.987,18 |
| | 490 | Deterioro de valor de créditos por operaciones comerciales | | -1.741.347,17 | -1.288.121,33 |
| | 3. | Deudores varios. | | 1.027.129,93 | 830.080,59 |
| | 440 | Deudores | | 681.012,33 | 282.418,13 |
| | 442 | Deudores por convenio | | 346.117,60 | 547.662,46 |
| | 6. | Otros créditos con las Administraciones Públicas. | | 4.650.404,40 | 8.786.168,89 |
| | 471 | Administraciones Públicas por Subvenciones Concedidas | | 4.650.404,40 | 8.786.168,89 |
| | **V.** | **Inversiones financieras a corto plazo.** | **(8.4)** | **27.106.711,78** | **8.725.072,55** |
| | 2. | Créditos a empresas. | | 183,63 | 183,63 |
| | 547 | Intereses a corto plazo | | 183,63 | 183,63 |
| | 3. | Valores representativos de deuda. | | 27.106.528,15 | 8.724.888,92 |
| | 541 | Valores representativos de deuda a corto plazo | | 27.106.528,15 | 8.724.888,92 |
| | **VII.** | **Efectivo y otros activos líquidos equivalentes.** | **(11.)** | **5.362.526,83** | **6.414.321,55** |
| | 1. | Tesorería. | | 5.362.526,83 | 6.414.321,55 |
| | 570 | Caja | | 264,73 | 330,30 |
| | 572 | Bancos | | 5.362.262,10 | 6.413.991,25 |
| | | **TOTAL ACTIVO (A + B)** | | **54.527.985,54** | **51.949.050,14** |

# 4.11 List of active competitive projects in 2025 by area of research

## AREA 1: BIOMEDICAL ENGINEERING

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | 1 | | | |
| European | 2 | | | 1 |
| National | 13 | 5 | 3 | 2 |
| Regional | | | 4 | 4 |

TITLE: **A digital twin of the pregnant and maternal brain** (CZIF2024-010398)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: International research project
FUNDING BODY: CHAN ZUCKERBERG INITIATIVE
START DATE: 01/12/2024
END DATE: 30/11/2026

TITLE: **BIOMET4D: Smart 4D biodegradable metallic shape-shifting implants for dynamic tissue restoration** (HE BIOMET4D 101047008)
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2022
END DATE: 31/12/2026

TITLE: **Becoming a mother: An integrative model of adaptations for motherhood during pregnancy and the postpartum period.** (H2020 BEMOTHER)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2020
END DATE: 30/09/2026

TITLE: **Impacto de la radiación a dosis bajas y FLASH en la evolución y tratamiento tumoral** (PI23/00671)
DIRECTOR: CUSSO MULA, LORENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Diagnóstico diferencial entre infección e inflamación mediante imagen molecular** (PI23/01405)
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Inteligencia Artificial en nuevos sistemas de diagnóstico radiológico (AIRad)** (PMPTA22/00118)
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2025

TITLE: **Imagen 3D de Plano de Luz con Campo de Vision Extendido** (DTS22/00030)
DIRECTOR: RIPOLL LORENZO, JORGE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Efectos a largo plazo del embarazo en el cerebro humano** (PI22/01365)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Desarrollo de un Biomarcador de neuroimagen para detectar el estado procoagulante enla enfermedad de Alzheimer** (AC20/00091)
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Microictus cerebrales: nuevo modelo y oportunidades de tratamiento (Nanostroke)** (PID2022-141080OB-C21)
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Mecanometabolismo de la insuficiencia cardiaca asociada a la edad - CardioAging (Mechanometabolism of age-associated heart failure)** (PLEC2022-009235)
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 03/10/2022
END DATE: 02/10/2025

TITLE: **Nuevas herramientas nanotecnológicas en el tratamiento de patología neuroinflamatoria y su interacción con el eje intestino-cerebro (ExoCUR)** (PID2021-128862OB-I00)

DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Riesgos del vapeo en los adolescentes: estudio experimental de las alteraciones neurocognitivas y pulmonares mediante técnicas de imagen in vivo (Resonancia y CT)** (PNSD24/01)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SS SOCIALES E IGUALDAD
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Cannabidiol, COVID-19, cannabis, resonancia, CT pulmonar, microbiota** (EXP2022/008917)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SS SOCIALES E IGUALDAD
START DATE: 12/07/2023
END DATE: 12/07/2025

TITLE: **FUNDACIÓN RAMON ARECES 2020. IMAGEN MOLECULAR DE LA INFECCIÓNPOR CLOSTRIDIUM DIFFICILE.** (FRA20/02)
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN RAMÓN ARECES
START DATE: 12/05/2021
END DATE: 11/05/2025

TITLE: **¿Cómo actúa la cúrcuma en el eje cerebro-intestino? Importancia en el tratamiento de patologías que cursan con neuroinflamación** (AEPNYA24/01)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: PUESTA EN MERCADO, S.L. ISANIDAD
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Miguel Servet Tipo II contracts** CPII21/00016
DIRECTOR: Manuel Desco Menéndez (Susana Carmona Cañabate)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/06/2022
END DATE: 31/05/2025

TITLE: **Funding for Ramón y Cajal contracts** RYC2023-043775-I
DIRECTOR: Lorena Cussó Mula
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **Technical Support Staff** PTA2022-021556-I
DIRECTOR: Beatriz Salinas Rodríguez (Mario González Arjona)
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/02/2024
END DATE: 31/01/2027

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-27890
DIRECTOR: María Victoria Gómez Gaviro (Elisa María Pinto Pulido)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 31/03/2026

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-27890
DIRECTOR: María Victoria Gómez Gaviro (Julia Carolina Salazar Romero)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 31/03/2026

TITLE: **Young employment Program contracts** PEJ-2024-AI/SAL-GL-32485
DIRECTOR: María Victoria Gómez Gaviro (Esther Nombela González)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Young employment Program contracts** PEJ-2024-AI/SAL-GL-32632
DIRECTOR: Lorena Cussó Mula (Mónica Millán Casas)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2025
END DATE: 28/02/2027

*** Not managed by the FIBHGM**

TITLE: **Clustering Automático de Comportamientos de invertebrados en libertad mediante imagen 3D**. PID2020-115088RB-I00
DIRECTOR: RIPOLL LORENZO, JORGE
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2021
END DATE: 31/08/2025

TITLE: **Sistema Microfluídico para Aplicaciones en Tejido en un Chip**. CPP2021-008396
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Development of a dynamic, functional and personalized 3D melanoma model-on-a-CHIP**. PID2021-126523OB-I00
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **SWEATHAIR - Señales Microambientales para la Inducción de Folículos Pilosos y Glándulas Sudoríparas en Plataformas de Piel Humana en Chip**. PID2024-160950OB-I00
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Inteligencia Artificial en nuevos sistemas de diagnóstico radiológico (AIRad)**. PMPTA22/00121
DIRECTOR: ABELLA GARCÍA, MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: ISCIII. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/01/2023
END DATE: 30/06/2025

TITLE: **NeuroBiopieltec-CM - Integración de Nuevas Tecnologías organ-on-chip para el estudio de enfermedades cutáneas y neurodegenerativas**. TEC-2024/BIO-98
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **YUFE4 Postdocs**
DIRECTOR: Salinas Rodríguez, Beatriz (García de Lucas, Ángel)
PROJECT TYPE: Human Resources
FUNDING BODY: European Union
START DATE: 15/10/2024
END DATE: 14/10/2027

TITLE: **Grants for predoctoral contracts for doctoral training.** AEI PRE2020-095268
DIRECTOR: Desco Menéndez, Manuel; Cussó Mula, Lorena (Barco Tejada, Ainara)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/08/2021
END DATE: 31/07/2025

TITLE: **Ramón y Cajal Grants**
DIRECTOR: Salinas Rodríguez, Beatriz
PROJECT TYPE: Human Resources
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/01/2025

END DATE: 31/12/2029

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Abella García, Mónica (Fernández del Cerro, Carlos)
PROJECT TYPE: Human Resources
FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 01/09/2022
END DATE: 15/09/2025

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Desco Menéndez, Manuel (Sanderson Moreno, Daniel)
PROJECT TYPE: Human Resources
FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 05/09/2022
END DATE: 22/11/2026

TITLE: **Hiring of research assistants and laboratory technicians, Community of Madrid, 2023**. PEJ-2023-AI/SAL-GL-28547
DIRECTOR: Salinas Rodríguez, Beatriz (Alfaro Pérez, Susana)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/03/2024
END DATE: 28/02/2026

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Abella García, Mónica (Sánchez Cornago, Jesús)
PROJECT TYPE: Human Resources
FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 01/07/2025
END DATE: 30/06/2029

## GROUP 1.02- Signal processing

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | **3** | | |
| **European** | | **2** | | |
| **National** | **1** | **17** | | **2** |
| **Regional** | | **4** | | **5** |

TITLE: **Optimización y validación de SCANHEALTH, una herramienta rentable de espectroscopia infrarroja con integración de IA para la detección precoz de múltiples cánceres en biopsias líquidas** (CPP2024-011358)
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/12/2025
END DATE: 30/11/2028

* **Not managed by the FIBHGM**

TITLE: **A Probabilistic Approach to Updating Catalogues and Determining Orbits**
DIRECTOR: LÓPEZ SANTIAGO, JAVIER
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN SPACE AGENCY (ESA)
START DATE: 05/02/2025
END DATE: 05/05/2027

TITLE: **Robust Orbit Determination for Space Debris – T811-701SD**. ROBUSSTOD
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: International research project
FUNDING BODY: GMV
START DATE: 14/11/2022
END DATE: 02/02/2025

TITLE: **ROBUST Atmosphere Error Modelling for Sustainable Operations - T711-803SD**. T711-803SD
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: International research project
FUNDING BODY: NORTHSTAR EARTH & SPACE EUROPE S.À R.L.
START DATE: 23/10/2025
END DATE: 23/10/2026

TITLE: **Advanced detection algorithms for passive radar**. N62909-23-1-2002
DIRECTOR: RAMIREZ GARCÍA, DAVID
PROJECT TYPE: International research project
FUNDING BODY: Office of Naval research
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **"Uncertainty propagation methods for collision avoidance in autonomous navigation" RTD**. N629092412095
DIRECTOR: LÓPEZ SANTIAGO, JAVIER
PROJECT TYPE: International research project
FUNDING BODY: Office of Naval research
START DATE: 01/08/2024
END DATE: 31/07/2027

TITLE: **Modelos Generativos para Problemas Inversos en Comunicaciones Inalámbricas**. PID2023-148856OA-I00
DIRECTOR: LANCHO SERRANO, ALEJANDRO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2024
END DATE: 31/08/2027

TITLE: **Una solución integral de medicina personalizada para el cuidado de pacientes de cáncer de la mujer basada en la intervención dietética, de hábitos de vida y de bienestar emocional**. CPP2023-010721
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO

PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/12/2024
END DATE: 30/11/2027

TITLE: **Modelos profundos y explicables basados en variables latentes para salud mental / Explainable deep latent representations for patient-centered mental health**. PID2021-123182OB-I00
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Cuantificación de incertidumbre en modelos físicos estocásticos: filtros profundos y métodos de Monte Carlo espacio-temporales / Uncertainty quantification for stochastic physical models: deep filters and space-time Monte Carlo methods**. PID2021-125159NB-I00
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Almacenaje y Transmisión de Información sobre Redes Autónomas y Distribuídas -ADICT-Net**. PID2022-142506NA-I00
DIRECTOR: PELEATO IÑARREA, BORJA
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Prevención de reCAídas en tRastornos dE conducta. - PreCARE**. PRTR-CPP2022-009537
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 30/11/2023
END DATE: 29/11/2026

TITLE: **"Representaciones Discretas Calibradas y Modelado de Series Temporales con Redes Auto-supervisadas Robustas "**. PID2024-157856NB-I00
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Adaptive and Accelerated Optimization for Machine Learning**. PID2024-160448NA-I00
DIRECTOR: MARTÍNEZ RUBIO, DAVID

PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Modelado generativo para inferencia y predicción en modelos físicos complejos**. PID2024-158181NB-I00
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Superando la Brecha Cuántica: Teoría de la Comunicación para Sistemas Cuánticos 1**. PID2024-159557OB-C21
DIRECTOR: MIRCO KOCH, TOBIAS
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Integración longitudinal de datos generados por paciente y determinaciones multi-omicas para una oncología de precisión integral en cáncer de la mujer.** PRTR-PMP22/00032
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Medicina Personalizada (MedPer) en la detección precoz del deterioro cognitivo (DC) preclínico. Desarrollo de un modelo predictivo de riesgo.** PRTR-PMP22/00084
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Prevención de la conducta suicida mediante intervenciones terapéuticas guiadas por fenotipo digital y farmacogenética**. PRTR-PMP24/00026
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 27/11/2025
END DATE: 31/12/2026

TITLE: **Consultoría en modelado bayesiano avanzado para el cribado automático de enfermedades**
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project

FUNDING BODY: Amber Health
START DATE: 06/06/2025
END DATE: 05/06/2026

TITLE: **THAI: TOWARDS HUMBLE AND DISCOVERABLE AI**. LEO24-1-12903
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: BBVA
START DATE: 30/09/2024
END DATE: 29/03/2026

TITLE: **Research and Implementation of a Digital Model for Radar Warning Receiver**. RIDWaRe
DIRECTOR: PELEATO IÑARREA, BORJA
PROJECT TYPE: Research project
FUNDING BODY: INDRA SISTEMAS, SA
START DATE: 07/04/2025
END DATE: 21/03/2026

TITLE: **Multisite Smartphone-based Ecological Momentary Intervention for suicide prevention**. HR23-00421
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: La Caixa
START DATE: 01/03/2024
END DATE: 28/02/2027

TITLE: **Patient-centered mental health with attention machine learning (PaC-MAN)**. IND2022/TIC-23550
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **IRIS: Hacia un asistente personal para la mejora del bienestar emocional**. IND2023/TIC-27508
DIRECTOR: RAMIREZ GARCÍA, DAVID
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Foundation Behavioral Models for Computational Psychiatry (BehavMind)**. IND2024/TIC-34728
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 24/09/2025
END DATE: 23/09/2028

TITLE: **Apoyo al desarrollo del nodo ELLIS de la Comunidad de Madrid (European Laboratory for Learning and Intelligent Systems) mediante la implantación de una Unidad ELLIS en la Comunidad de Madrid (ELLIS Unit Madrid)**. ELLIS
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Inteligencia artificial para la industria 4.0: generación de datos, modelado avanzado, optimización e interpretabilidad**. TEC-2024/COM-89
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Additional grant for researcher Pablo Bonilla Escribano under the Juan de la Cierva 2023 program** JDC2023-052330-I
DIRECTOR: Pablo Bonilla Escribano (Pablo Bonilla)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Additional grant for researcher David Martínez Rubio under the Juan de la Cierva 2023 program** JDC2023-051006-I
DIRECTOR: David Rubio (David Rubio)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Grant for hiring a research assistant. Youth Employment Program, 2024 call** PEJ-2024-AI/COM-32104
DIRECTOR: Gonzalo Vázquez Vilar (Cristian Ferrezuelo)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/03/2025
END DATE: 28/02/2027

TITLE: **Grant for hiring a research assistant** PEJ-2024-AI/COM-32081
DIRECTOR: Alejandro Lancho (Diego Arsenio)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Distributed intelligence in wireless networks. Research Talent Attraction Program CM (2020)** 2020-T1/TIC-20698
DIRECTOR: (Borja Peleato)
PROJECT TYPE: Human Resources

FUNDING BODY: Comunidad de Madrid
START DATE: 27/12/2021
END DATE: 26/12/2026

TITLE: **Additional funding for researcher Alejandro Lancho Serrano under the "César Nombela" Research Talent Attraction Program 2023** 2023-T1/COM-29065
DIRECTOR: Alejandro Lancho (Alejandro Lancho)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/07/2024
END DATE: 30/06/2029

TITLE: **Grant for hiring predoctoral research staff in training.** PIPF-2024/COM-35672
DIRECTOR: Antonio Artés Rodríguez (Josué Pérez Sabater)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

## GROUP 1.03- Computer architecture, communications, and systems: ARCOS

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 1.04- Nonparametric statistical and intensive computing techniques

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 1.05: Structural and Functional Medical Imaging

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 1 | | | |
| Regional | | | | |

TITLE: **Diferenciación por RM de la progresión tumoral en gliomas de alto grado mediante IA** (PI23/01181)
DIRECTOR: GUZMÁN DE VILLORIA LEBIEDZIEJEWSKI, JUAN ADÁN
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024

END DATE: 31/12/2026

## GROUP 1.06- Biomedical applications of engineering

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | 3 | | |
| National | | 7 | | |
| Regional | | 3 | | 2 |

* **Not managed by the FIBHGM**

TITLE: **ERA4TB - European Regimen Accelerator for Tuberculosis**. GA - 853989
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN COMMISSION RESEARCH EXECUTIVE AGENCY
START DATE: 01/01/2020
END DATE: 31/12/2025

TITLE: **REAL TIME MOLECULAR IMAGER WITH UNSURPASSED RESOLUTION**. GA - 101099096
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN COMMISSION RESEARCH EXECUTIVE AGENCY
START DATE: 01/09/2023
END DATE: 28/02/2027

TITLE: **A4LIFE - Artificial intelligence for image data analysis in the life sciences**. GA - 101057970
DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE
PROJECT TYPE: International research project
FUNDING BODY: European Union – HORIZON-INFRA-2021-SERV-01-06 call
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **CPathAI - Plataforma de Inteligencia Artificial para estudios de imagen microscópica en oncología**. PID2023-152631OB-I00
DIRECTOR: MUÑOZ BARRUTIA, MARÍA ARRATE
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/09/2024
END DATE: 31/08/2027

TITLE: **DigiMatMed-Acelerando la transformación digital en salud materno-fetal mediante herramientas de simulación y entrenamiento. Accelerating digital transformation in maternal-fetal health through simulation and training tools**. TED2021-129392B-I00
DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/12/2022

END DATE: 30/09/2025

TITLE: **FAIR-RT - Soluciones equitativas para una implementación clínica de la inteligencia artificial en el flujo de trabajo de Radioterapia**. PID2023-149604OB-I00
DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/09/2024
END DATE: 31/08/2027

TITLE: **TAIN-TB - Desarrollo de contrastes de TAC específicos de micobacterias para el diagnóstico y seguimiento de la tuberculosis**. PID2022-142343OB-100
DIRECTOR: LÓPEZ EXPÓSITO, PATRICIO ROBERTO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/09/2023
END DATE: 31/08/2027

TITLE: **NO AIR - Biomarcadores de enfermedades pulmonares basados en imágenes para el desarrrollo de nuevos tratamientos con oxido nítrico utilizando flujos de trabajo de canónicos y con IA**. PID 2024 - 1558070B-C22
DIRECTOR: JUAN JOSE VAQUERO LOPEZ, DAVID PEREZ BENITO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/09/2025
END DATE: 31/08/2029

TITLE: **Creen Responsible AI for Next-gen Sustainable Bio-Imaging (GRAINS)**. AIA2025-164165-C41
DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/12/2025
END DATE: 30/11/2028

TITLE: **Desarrollo de un escáner de alta resolución de tomografía por emisión de positrones (PET) para cerebro (Licitación CDTI). Fase III**. CPP 08//2023 AB (DCCPI/OCPI)
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSE
PROJECT TYPE: Research project
FUNDING BODY: CENTRO PARA EL DESARROLLO TECNOLOGICO Y LA INNOVACIÓN
START DATE: 01/09/2025
END DATE: 31/08/2029

TITLE: **Microscopio Confocal Avanzado con Tecnología de Láser Blanco**. 2024/REGING-76491
DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE
PROJECT TYPE: Research project
FUNDING BODY: CAM-CONSEJERIA DE CIENCIA, UNIVERSIDADES E INNOVAC
START DATE: 31/01/2025

END DATE: 31/12/2026

TITLE: **Desarrollo de sistemas de entrenamiento clínico mediante fabricación aditiva 3D para detección y prevención de complicaciones en el parto aplicando técnicas de IA**. SAFEDELIVERY-CM-UC3M
DIRECTOR: GARCÍA SEVILLA, MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/07/2024
END DATE: 31/12/2026

TITLE: **MAGERIT-CM - Medical AuGmentEd Reality and DIgital Twins**. TEC-2024/COM-44
DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Programme for Pre-doctoral Research Staff in Training in the field of Artificial Intelligence**
DIRECTOR: Javier Pascau- González Garzón (Sergio Carreras Salinas)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 11/07/2024
END DATE: 11/07/2027

TITLE: **Programme for Pre-doctoral Research Staff in Training in the field of Artificial Intelligence**
DIRECTOR: María Arrate Muñoz Barrutia (Roman Kinakh)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 17/05/2024
END DATE: 11/07/2027

## AREA 2: CARDIOVASCULAR DISEASES

### GROUP 2.01: Natural history of heart disease

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 4 | | | |
| National | 8 | | 3 | |
| Regional | | | | |

TITLE: **Future of Artificial Intelligence Trained for Heart Failure detection & Upgrading Latest technology** (FAITHFUL 230225)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/03/2024
END DATE: 31/12/2025

TITLE: **AI Scalable Solution for ST Myocardial Infarction (ASSIST)** (ASSIST 230193)
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 31/12/2025

TITLE: **CARDIATEAM-IMI2-821508** (H2020 CARDIATEAM)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/03/2019
END DATE: 28/02/2026

TITLE: **H2020 BRAV3 "Regenerative medicine: from new insights to new applications. 874827** (H2020 BRAV3)
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2020
END DATE: 30/06/2025

TITLE: **CURE-AF "Clinical Utilization and Evidence Generation for Real-time ECGI in Atrial Fibrillation - 250027** (2024-ITM-9419)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: European research project
FUNDING BODY: EIT HEALTH E.V
START DATE: 06/03/2025
END DATE: 31/12/2025

TITLE: **ARTEMISA Mapeo Cardíaco de Arritmias Estructurales mediante telemetría por radiofrecuencia** (CPP2024-011368)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 03/11/2025
END DATE: 02/11/2028

TITLE: **Impacto de la Esclerosis Aortica Funcional** (PI24/00565)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **High-Resolution Atrial Epicardial Mapping to Validate a Non-Invasive Technology for Personalised AF Treatment. Study EPIMAP-AF.** (PI23/01769)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Identificación del sustrato de fibrilación auricular en ritmo sinusal basada en co-localización de mapas auriculares electroanatómicos y de intensidad de señal (MRI). Diferencias de género** (PI22/01619)
DIRECTOR: ARENAL MAÍZ, ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Rigorous Atrial Analysis in Advanced Interatrial Block (ARABIA)** (PI21/01501)
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2025

TITLE: **Evaluación personalizada del riesgo cardiovascular - 1 (PACER1)** (PI21/00274)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **CARE-ECGI - Terapia de resincronización cardiaca basada en imagen electrocardiográfica** (CPP2021-008562)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/11/2022
END DATE: 31/10/2025

TITLE: **Predoctoral contracts (PFIS)** FI22/00165
DIRECTOR: Manuel Martínez-Sellés D'Oliveira Soares (Jorge Martínez Solano)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Intensification contracts** INT23/00002
DIRECTOR: Ángel Arenal Maíz
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2025

TITLE: **Intensification contracts** INT24/00054
DIRECTOR: Felipe Atienza Fernández
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III

START DATE: 01/01/2025
END DATE: 31/12/2026

### GROUP 2.02: Cardiovascular pathophysiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

### GROUP 2.03- Cardiac cellular electrophysiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

### GROUP 2.05: Cardiology and heart transplantation in children

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

### GROUP 2.06- Blood lipids and cardiovascular risk

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

### GROUP 2.07: Acute cerebral ischemia. Stroke

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | 2 | | | |
| European | 7 | | | |
| National | 16 | | 9 | |
| Regional | | | 1 | |

TITLE: **The impact of social isolation on aging health in schizophrenia** (NIH-2022/Aging)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: International research project
FUNDING BODY: NATIONAL INSTITUTES OF HEALTH (NIH)
START DATE: 15/08/2022
END DATE: 31/05/2027

TITLE: **ProNET: Psychosis-Risk Outcomes Network** (NIH-2020/ProNet)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: International research project
FUNDING BODY: YALE UNIVERSITY
START DATE: 08/09/2020
END DATE: 31/05/2026

TITLE: **Bridging Gaps in Mental Health Support: A Comprehensive European Strategy** (HE YouthREACH 101156514-1)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **FAMILY: Running in the FAMILY - Understanding and predicting the intergenerational transmission of mental illness** (HE FAMILY 101057529)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2022
END DATE: 30/09/2027

TITLE: **Psych-STRATA: Stratified Treatment Algorithm in Psychiatry: A program on stratified pharmacogenomics in severe mental illness** (HE Psych-STRATA 101057454)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2022
END DATE: 30/09/2027

TITLE: **Youth-GEMs: Gene Environment interactions in Mental health trajectories of Youth** (HE Youth-GEMs 101057182)

DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/06/2022
END DATE: 31/05/2027

TITLE: **BOOTSTRAP: Boosting Societal Adaptation and Mental Health in a Rapidly Digitalising, Post-Pandemic Europe** (HE BOOTSTRAP 101080238-1)
DIRECTOR: MORENO RUIZ, CARMEN
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 30/06/2028

TITLE: **COllaborative Network for European Clinical Trials For Children ("c4c")** (H2020 c4c-777389)
DIRECTOR: MORENO RUIZ, CARMEN
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/05/2019
END DATE: 30/04/2025

TITLE: **H2020 Autism Innovative Medicine Studies – 2 – Trials. The overall goal of this project is to improve patient outcomes. To do this we will create a pipeline for developing, testing and implementing new treatments for ASD with stakeholder involvement at each stage.** (H2020 AIMS-2-TRIALS)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/05/2018
END DATE: 30/11/2026

TITLE: **SMARTomicS: Prevención de la conducta suicida medianete interveciones terapéuticas guiadas por fenotipo digital y farmacogenética** (PMP24/00026)
DIRECTOR: BARRIGON ESTEVEZ, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 11/12/2025
END DATE: 31/12/2026

TITLE: **Estudio piloto de implementación de una herramienta de cribado para la prevención, diagnóstico y tratamiento de pacientes con un trastorno psiquiátrico del neurodesarrollo: utilización del sindrome deleción 22Q11.2** (PMP22/00088)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 02/10/2024
END DATE: 31/12/2025

TITLE: **Imagen cerebral molecular no invasiva en psicosis de inicio temprano: descifrando el sustrato neurobiológico de los síntomas psicóticos, la disfunción cognitiva y la respuesta al tratamiento antipsicótico** (PI24/01298)
DIRECTOR: RAPADO CASTRO, MARTA

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Hacia una intervención estratificada en psiquiatría: Predicción de trayectorias de riesgo y resiliencia para la salud mental en una muestra transdiagnóstica de jóvenes (proyecto PREMY)** (PI23/00625)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Del microbioma a los síntomas en los Trastornos del Espectro Autista: hacia intervenciones personalizadas** (PI23/00747)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Sesgo de salto a conclusiones y conducta suicida: subproyecto del proyecto SURVIVE-2** (PI23/01066)
DIRECTOR: BARRIGON ESTEVEZ, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Trayectorias de neurodesarrollo alterado en prematuros extremos y sus bases neurobiológicas: Estudio de cohortes de 6 años de seguimiento** (PI23/00368)
DIRECTOR: BLANCO BRAVO, DOROTEA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Interacciones genes-ambiente en las trayectorias de salud mental de los jóvenes** (PI22/01824)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Utilizando modelado normativo longitudinal para el análisis de subgrupos de pacientes con primero episodio psicósis** (PI22/01621)
DIRECTOR: JANSSEN JEUCKEN, JOOST
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Estudio integral de variación genética y molecular de una cohorte española de trastornos del espectro autista y diseño de algoritmos de diagnóstico genético y de biotipos terapéuticos. Cohorte ESTEA.** (PMP21/00051)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Bases etiopatológicas de la disregulación emocional en adolescentes con depresión** (PI21/01929)
DIRECTOR: SEVILLA CERMEÑO, LAURA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Identificando los correlatos de neuroimágen de la función ejecutiva a lo largo del continuum de la psicosis: Un estudio enadolescentes y adultos jóvenes.** (PI21/00701)
DIRECTOR: RAPADO CASTRO, MARTA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros epidodios psicóticos** (PI20/00721)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Bases neurobiológicas de las trayectorias diferenciales de los Trastornos del Espectro Autista** (PI20/01382)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Mecanismos epigénicos implicados en la génesis y curso de trastornos del neurodesarrollo en prematuros extremos: estudio de seguimiento a 4 años** (PI20/01342)
DIRECTOR: PINA CAMACHO, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Impacto de las alteraciones del sueño en el patrón de desregulación emocional de los adolescentes con depresión, y su posible asociación con el riesgo de autolesiones** (AEPNYA22/01)
DIRECTOR: SEVILLA CERMEÑO, LAURA MARIA
PROJECT TYPE: Research project
FUNDING BODY: ASOCIACION ESPAÑOLA DE PSIQUIATRIA DE LA INFANCIA Y LA ADOLESCENCIA (AEPNYA)
START DATE: 01/02/2023
END DATE: 31/01/2025

TITLE: **Miguel Servet contracts** CP24/00080
DIRECTOR: Javier González Peñas
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 16/01/2025
END DATE: 15/01/2030

TITLE: **Sara Borrell contracts** CD23/00002
DIRECTOR: Celso Arango López (Marta Ferrer Quintero)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE:
END DATE:

TITLE: **Río Hortega contracts** CM23/00091
DIRECTOR: Celso Arango López (Joaquín Galvañ García)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/01/2024
END DATE: 28/01/2026

TITLE: **Río Hortega contracts** CM24/00125
DIRECTOR: Celso Arango López (Pablo Andrés Camazón)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 17/02/2025
END DATE: 16/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI23/00215
DIRECTOR: Celso Arango López (Ana Echevarría Bruno)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 13/02/2024
END DATE: 12/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI24/00202
DIRECTOR: (Emily Guerra Blacio)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Intensification contracts** INT24/00089
DIRECTOR: María José Parellada Redondo
PROJECT TYPE: Human Resources

FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025
END DATE: 31/12/2025

TITLE: **FPU Contracts (University Teacher Training Contracts)** FPU19/06752
DIRECTOR: Celso Arango López (Rocío Panadero Gómez)
PROJECT TYPE: Human Resources
FUNDING BODY: Ministerio de Educación y Ciencia
START DATE: 01/12/2021
END DATE: 30/11/2025

TITLE: **FPU Contracts (University Teacher Training Contracts)** FPU20/07486
DIRECTOR: Celso Arango López (Hayford Abrokwa Acheampong)
PROJECT TYPE: Human Resources
FUNDING BODY: Ministerio de Educación y Ciencia
START DATE: 13/12/2021
END DATE: 12/12/2025

TITLE: **Grants for predoctoral research staff in training** PIPF-2024/SAL-GL-35100
DIRECTOR: Marta Rapado Castro (Belén Taulero Escalera)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

## GROUP 3.03B- Neurological diseases

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 3 | | | |
| Regional | | | | |

TITLE: **BRinging Artificial INTelligencE home for a better cAre of amyotrophic lateral sclerosis and multiple SclERosis (BRAINTEASER)** (H2020 BRAINTEASER 101017598)
DIRECTOR: MUÑOZ BLANCO, JOSÉ LUÍS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **PReDICT: Ictus pediátrico asociado a enfermedades raras: Diagnóstico y tratamiento integrando Multi-ómica e inteligencia artificial** (PMPER24/00021)
DIRECTOR: VAZQUEZ LÓPEZ, MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Amantadina y estimulación magnética transcraneal para fatiga en la EM: ensayo Fase III, controlado, randomizado, cruzado y doble ciego (FETEM)** (ICI20/00074)
DIRECTOR: MARTINEZ GINES, MARIA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 31/12/2026

TITLE: **Biomarcadores de la fase prodrómica de la enfermedad de Parkinson: un abordaje multimodal** (PI21/00771)
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/03/2026

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

### GROUP 4.01: Clinical microbiology and infectious diseases

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 2 | | 1 | |
| National | 12 | | 7 | |
| Regional | | | 1 | |

TITLE: **Consolidation of WGS and RT-PCR activities for SARS-CoV-2 in Spain towards sustainable use and integration of enhanced infrastructure and processes in the RELECOV network** (EU4H RELECOV 2.0 101113109)
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 31/03/2026

TITLE: **Improved Identification of Fungal Species by MALDI-TOF and Application of Machine Learning for Detection of Antifungal Resistance Mechanisms** (ESCMID23/01)
DIRECTOR: RODRIGUEZ TEMPORAL, DAVID
PROJECT TYPE: European research project
FUNDING BODY: ESCMID - EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES
START DATE: 01/04/2023
END DATE: 31/12/2025

TITLE: **Epidemiología de la fungemia en España: monitorización y vigilancia de cepas resistentes a antifúngicos** (PI24/00373)
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Diagnóstico de las especies del complejo M. tuberculosis y resistencia a los fármacos mediante MALDI-TOF proteico y lipídico y espectroscopia de infrarrojos (FTIR) usando técnicas de "Machine Learning"** (PI23/01288)
DIRECTOR: RODRIGUEZ TEMPORAL, DAVID
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Aplicación de la genómica en Candida para responder problemas clínicos relacionados con la candidiasis invasora: trasmisión intra-hospitalaria, pronóstico del paciente, y estudio del foco** (PI22/00005)
DIRECTOR: ESCRIBANO MARTOS, PILAR
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **La Nanobiotecnología como Herramienta para la Optimización de la Terapia de Sellado con Etanol en el Tratamiento de la Bacteriemia Relacionada con el Catéter** (PI21/00344)
DIRECTOR: GUEMBE RAMIREZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Estudio de la epidemiología y resistencia a triazoles en cepas clínicas de Aspergillus spp. (estudio ASPEIN II): situación en 82 hospitales españoles** (PI21/00450)
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Plataforma genómica para una vigilancia optimizada de patógenos relevantes: Tuberculosis y COVID-19 como modelos de intervención** (PI21/01823)
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **The role of the microbiome as a diagnostic, prognostic and therapeutic tool in C. difficile infection and other diseases** (PI20/01381)
DIRECTOR: REIGADAS RAMIREZ, ELENA MANUELA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Nuevos métodos diagnósticos para identificar la cancidemia relacionada a catéter en pacientes con catéter in situ ¿Es posible personalizar el manejo de la candidemia? Estudio CANDICATH** (PI20/00575)

DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Proyecto de Alerta en Neumonía Grave (PANG). Impacto de un bundle multidisciplinar de intervención diagnóstica y terapéutica.** (PI20/01350)
DIRECTOR: GALAR RECALDE, ALICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **SINTESIS (eStudio del IMpacto de las Nuevas TEcnologías y técnicas rápidas en la sepSIS de origen urinario** (PI20/01201)
DIRECTOR: BURILLO ALBIZUA, ALMUDENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **PIC IDEPTE PMG. "TRATAMIENTO PREVENTIVO DEL CMV EN PACIENTES INMUNOCOMPETENTES DE ALTO RIESGO CON CIRUGÍA CARDÍACA MAYOR. UN ENSAYO CLÍNICO MULTICÉNTRICO, DOBLE CIEGO, ALEATORIZADO, FASE III (GAN-CAR)** (ICI19/00079)
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2020
END DATE: 31/12/2025

TITLE: **Dalbavancina como tratamiento local para las complicaciones infecciosas tras fracturas de alta energía ¿fake o esperanza?** (FMM21/01)
DIRECTOR: GUEMBE RAMIREZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/07/2021
END DATE: 10/02/2025

TITLE: **Human - Centric Indoor Climate for Healthcare Facilities (HumanIC).** HE HumanIC 101119726
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA (D'Elia, Denise)
PROJECT TYPE: Human Resources
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Sara Borrell contracts** CD22/00014
DIRECTOR: Belén Rodríguez (David Rodríguez Temporal)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023

END DATE: 31/12/2025

TITLE: **Río Hortega contracts** CM22/00130
DIRECTOR: Darío García de Viedma (Agustín Estévez Prieto)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/01/2023
END DATE: 30/01/2025

TITLE: **Río Hortega contracts** CM24/00208
DIRECTOR: (Vega Zamora de la Fuente)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 10/02/2025
END DATE: 09/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI21/00314
DIRECTOR: Patricia Muñoz García-Paredes (Ana Soriano Martín-Nieto)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Predoctoral contracts (PFIS)** FI22/00145
DIRECTOR: Darío García de Viedma (Sergio Buenestado Serrano)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Predoctoral contracts (PFIS)** FI22/00022
DIRECTOR: María Guembe Ramírez (Marta Díaz Navarro)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 14/02/2023
END DATE: 13/02/2027

TITLE: **Technical Support Staff** PTA2024-024972-I
DIRECTOR: María Belén Rodríguez Sánchez (Iris Sánchez del Pozo)
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/12/2025
END DATE: 30/11/2028

TITLE: **Young employment Program contracts** PEJ-2021-TI/BMD-23377
DIRECTOR: Jesús Vicente Guinea Ortega (José González Leiva)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/10/2022
END DATE: 07/04/2025

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 4 | | | |
| Regional | | | | |

TITLE: **Mobile Health Units for Vulnerable Populations in Europe.** MOBHOPE
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: European research project
FUNDING BODY: EU4Health
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Incidencia, inmunidad y factores asociados a infecciones de transmisión sexual en personas transgénero con y sin infección por VIH** (PI24/00933)
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **VHH-8 y VIH: seroprevalencia de VHH-8 en población con VIH en España. PCR de VHH-8, estudio filogenético y marcadores inflamatorios en coinfectados. Impacto de terapias antineoplásicas** (PI23/01706)
DIRECTOR: ALDAMIZ-ECHEVARRIA LOIS, MARIA TERESA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Infecciones agudas/recientes y reinfecciones por VHC en hombres que tienen sexo con hombres con y sin VIH.** (PI20/00474)
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Long Covid: análisis de la posible persistencia viral sistémica y de un reservorio intestinal de Sars-CoV-2 como mecanismo fisiopatogénico** (FMM22/01)
DIRECTOR: TEJERINA PICADO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 15/09/2022
END DATE: 30/01/2026

## AREA 5: DISEASES OF THE IMMUNE SYSTEM

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 4 | | | |
| Regional | | 1 | | |

TITLE: **Reeducación del sistema inmunitario innato en artritis reumatoide mediante el uso de metotrexato e inhibidores de JAK** (PI23/00224)
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Mecanismos moleculares de la inmunidad entrenada inducida por metotrexato** (PI20/00316)
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Mecanismos de evasión de la inmunidad antitumoral y de resistencia a la inmunoterapia mediados por macrófagos (mel-TAM)** (PID2021-123507OB-I00)
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2022
END DATE: 31/08/2026

TITLE: **Local immunoradiotherapy (LIRT)** (FIBHGM-CCA001-2020)
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION INVESTIGACION MEDICA APLICADA (FIMA) FIMA
START DATE: 01/12/2019
END DATE: 30/11/2025

* **Not managed by the FIBHGM**

TITLE: **"ILT2 y HLA-G: Nuevas dianas de inmunoterapia en adenocarcinomas gastrointestinales"**. PR17/24-31948 ILyADA
DIRECTOR: JUAREZ MARTÍN-DELGADO, IGNACIO
PROJECT TYPE: Research project
FUNDING BODY: CAM
START DATE: 01/01/2025
END DATE: 31/12/2026

## GROUP 5.02: Molecular biology of HIV

| | Nº Competitive projects | Nº Human Resources |
|---|---|---|

| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
|---|---|---|---|---|
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | | | |
| **Regional** | | | | |

TITLE: **Generación de organoides vaginales a partir de células madre humanas pluripotentes (hPSCs): una plataforma para modelizar infecciones de transmisión sexual (ETSs). Terapias basadas en la nanotecnología.** (PI23/01137)

DIRECTOR: JIMENEZ FUENTES, JOSE LUIS

PROJECT TYPE: Research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024

END DATE: 31/12/2026

## GROUP 5.03: Systemic autoimmune diseases

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | 1 | | | |
| **National** | 3 | | | |
| **Regional** | | | | |

TITLE: **Stratification of Patients using advanced Integrative modeling of Data Routinely acquired for diagnosing Rheumatic complaints (SPIDeRR 101080711)** (HE SPIDeRR 101080711)

DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL

PROJECT TYPE: European research project

FUNDING BODY: COMISION EUROPEA

START DATE: 01/05/2023

END DATE: 30/04/2028

TITLE: **Clinical validation of OPTIBIO algorithm to predict persistent remission in rheumatoid arthritis patients treated with biological therapy. (REMRABIT- plus)** (PMP22/00101)

DIRECTOR: ALVARO-GRACIA ALVARO, JOSE MARIA

PROJECT TYPE: Research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 24/10/2025

END DATE: 30/06/2026

TITLE: **Efectividad y Seguridad de Tratamientos Biológicos y Terapias Dirigidas desde la Perspectiva del Paciente en Vida Real: avanzando en el cuidado centrado en el paciente en Reumatología** (PI23/01226)

DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL

PROJECT TYPE: Research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024

END DATE: 31/12/2026

TITLE: **Consulta de Alta Resolución en Reumatología (Reu-CAR): Una iniciativa coordinada entre Atención Primaria/Reumatología para el diagnóstico precoz y mejor manejo de los pacientes con artritis inflamatoria.** (PI20/00847)

DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

## GROUP 5.05: Pathogenesis of the immunoallergic response

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 9 | | 2 | |
| Regional | 1 | | 4 | |

TITLE: **Allogeneic Thymic Tregs (ThyTreg) as a Novel Therapeutic Approach for Pediatric Very Early Onset Inflammatory Bowel Disease (VEO-IBD). TREAT-KIDS** (CPP2024-011294)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/11/2025
END DATE: 31/10/2028

TITLE: **Implementación clínica de un protocolo de diagnóstico avanzado para establecer estrategias de medicina personalizada de precisión en pacientes pediátricos con enfermedades raras inmunomediadas** (PI24/01098)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Ensayo clínico Fase I/IIa para determinar la eficacia de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) alogénicas y criopreservadas en el control de la inflamación en pacientes adultos con enfermedad de Crohn refractaria** (ICI24/00008)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Receptor de Antígeno Quimérico en células T reguladoras derivadas del timo: prueba de concepto preclínica para su uso en terapia inmunosupresora alógena** (DTS23/00037)

DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 30/06/2026

TITLE: **Uni-thyTreg: prueba de concepto preclínica para el uso de células T reguladoras obtenidas de tejido tímico (thyTreg) y modificadas genéticamente como terapia celular alogénica.** (PI22/00473)
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Caracterización de las alteraciones inmunológicas, específicamente en células Treg, implicadas en la desregulación inmune en pacientes pediátricos con errores innatos de inmunidad, hacia terapias dirigidas** (PI21/01325)
DIRECTOR: SEOANE REULA, MARÍA ELENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **PIC IDEPTE " Ensayo clínico para determinar la eficacia de una terapia con células thyTreg en la prevención de rechazo en niños trasplantados de corazón y de la enfermedad injerto contra receptor en adultos."** (ICI20/00063)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 31/12/2026

TITLE: **Ensayo Clínico para evaluar la eficacia de una Terapia Celular pionera con células Treg obtenidas de tejido tímico (thyTreg) dirigida a inducir Inmunotolerancia en Niños Trasplantados de Corazón** (FMM24/02)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 24/07/2024
END DATE: 23/07/2027

TITLE: **Ensayo Clínico Fase II para evaluar la eficacia de una Terapia Celular pionera con células Treg obtenidas de tejido tímico (thyTreg) en la prevención de rechazo en Niños Trasplantados de Corazón con reducción en la dosis de inmunosupresores** (SET25/01)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE TRASPLANTE
START DATE: 15/02/2025
END DATE: 14/02/2027

TITLE: **thyTreg, terapias celulares avanzadas, células Treg, tolerancia inmunológica, terapia alogénica, COVID19** (IND2022/BMD-23591)

DIRECTOR: COZAR FERNANDEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD AUTONOMA DE MADRID
START DATE: 01/12/2022
END DATE: 30/11/2025

TITLE: **Miguel Servet contracts** CP24/00097
DIRECTOR: Marta Martínez Bonet
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 22/01/2025
END DATE: 21/01/2030

TITLE: **Predoctoral contracts (PFIS)** FI23/00086
DIRECTOR: Marjorie Pion (Jesús Rosales Magallares)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Grants for predoctoral research staff in training** PIPF-2023/SAL-GL-30591
DIRECTOR: Rafael Correa Rocha (Sandra Gómez Arconada)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2024
END DATE: 28/02/2028

TITLE: **Grants for predoctoral research staff in training** PIPF-2024/SAL-GL-34197
DIRECTOR: Marjorie Pion (Laura Merino Fernández)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-26491
DIRECTOR: Marjorie Pion (Paulina Magdalena Zieba)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/02/2024
END DATE: 31/01/2026

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-26622
DIRECTOR: Rafael Correa Rocha (Sara Benavente García)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 28/02/2026

## GROUP 5.07: Infections in the paediatric population

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | | | | |
| **European** | **2** | | | |
| **National** | **4** | | **3** | |
| **Regional** | | | | |

TITLE: **HE VERDI 101045989 SARS-coV2 variants Evaluation in pRegnancy and paeDIatrics cohorts** (HE VERDI 101045989)
DIRECTOR: AGUILERA ALONSO, DAVID
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/11/2021
END DATE: 31/10/2025

TITLE: **ESPID Small Grant Award: "The role of iron deficiency in the vaccine immune response of paediatric patients on immunosuppressive treatment (IronVac project)"** (ESPID23/01)
DIRECTOR: TARANCON DIEZ, LAURA
PROJECT TYPE: European research project
FUNDING BODY: ESPID
START DATE: 09/10/2023
END DATE:

TITLE: **TB STARS - Vigilancia de la Transmisión mediante Secuenciación y Vigilancia Activa Refinada** (PI23/01700)
DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Infeccion por VRS y desarrollo de sibilancias persistentes: una cohorte de nacimiento. (Marañón RSV Birth cohort; MARCO Study** (PI21/00840)
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Child-TB-Omics: APLICACIÓN DE TÉCNICAS ÓMICAS PARA EL DIAGNÓSTICO DE TUBERCULOSIS EN NIÑOS Y ADOLESCENTES** (PI20/01607)
DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **IronHIV Study: Role of iron metabolism in chronic HIV infection in patients under suppressive antiretroviral treatment. Implications for immunological alterations and persistent inflammation** (GLD24/00119)
DIRECTOR: TARANCON DIEZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: GILEAD SCIENCE, S.L.U.
START DATE: 24/02/2025

END DATE: 23/02/2027

TITLE: **Miguel Servet contracts** CP23/00009
DIRECTOR: Laura Tarancón Díez
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2028

TITLE: **Juan Rodés contracts** JR24/00062
DIRECTOR: David Aguilera Alonso
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/03/2025
END DATE: 30/03/2029

TITLE: **Predoctoral contracts (PFIS)** FI24/00161
DIRECTOR: (Marta López Llaría)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 13/01/2025
END DATE: 28/02/2028

## AREA 6: TRANSLATIONAL ONCOLOGY

### GROUP 6.01: Interdisciplinary oncology and biotechnology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 2 | | | |
| Regional | | | | |

TITLE: **Theranostics Ecosystem for Personalised Care (Thera4Care)** (HE Thera4Care 101172788)
DIRECTOR: ALONSO FARTO, JUAN CARLOS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2024
END DATE: 30/09/2029

TITLE: **Elaboración de una curva de calibración dosis-efecto para protones, su validación en pacientes de radioterapia y actualización de la curva de neutrones** (CSN24/01)
DIRECTOR: PRIETO RODRIGUEZ, MARIA JESUS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJO DE SEGURIDAD NUCLEAR
START DATE: 05/12/2024
END DATE: 04/12/2027

TITLE: **Elaboración de un protocolo nacional en dosimetría biológica (PRONADB)** (2023-094-1_CSN_MONTORO)

DIRECTOR: PRIETO RODRIGUEZ, MARIA JESUS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJO DE SEGURIDAD NUCLEAR
START DATE: 16/05/2023
END DATE: 28/12/2026

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 3 | | | |
| Regional | | | | |

TITLE: **Development Of Patient-derived organoid PLatforms for Evading Resistances in Lung Cancer (DOPPLER-LC)** (TRNSC259881CALL)
DIRECTOR: CALLES BLANCO, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/11/2025
END DATE: 31/10/2028

TITLE: **Detección de ctDNA y caracterización de subpoblaciones inmunes circulantes en pacientes con CMTN Tratadas con quimio (inmuno) terapia neoadyuvante** (PI22/01346)
DIRECTOR: LÓPEZ-TARRUELLA COBO, SARA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Small cell lung cancer: from biology networks to tailored therapy** (RETOS245794PAZA)
DIRECTOR: CALLES BLANCO, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **VII Edición Becas GEM: MIRTILOS: Mejora de la Inducción y Recolecta de TILs de Órgano Sólido** (2025-CCA017)
DIRECTOR: MARQUEZ RODAS, IVAN
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN DEL GRUPO ESPAÑOL MULTIDISCIPLINAR DE MELANOMA (GEM)
START DATE: 02/07/2025
END DATE: 01/07/2027

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |

| | | | | |
|---|---|---|---|---|
| **European** | **1** | | | |
| **National** | **6** | | **2** | |
| **Regional** | | | **1** | |

TITLE: **Remote Ischemic Conditioning in Lymphoma Patients Receiving Anthracyclines.' — 'RESILIENCE'** (H2020-RESILIENCE-945118)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/06/2021
END DATE: 31/05/2027

TITLE: **Identificación de biomarcadores predictivos a terapia CART mediante una aproximación multiómica (transcriptómica espacial y célula única) para optimizar la selección de pacientes con LNH-B.** (PI24/01057)
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Firma específica de mutaciones rastreables mediante ADN tumoral circulante combinado con PET/CT para predecir el fracaso de la terapia con células CART-T en pacientes con linfoma de células B grandes en recaída o refractarios** (PI23/01877)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Caracterización de la heterogeneidad intratumoral de la macroglobulinemia de Waldenström: utilidad en el diagnóstico y tratamiento de los pacientes** (PI21/00568)
DIRECTOR: GARCIA SANZ, RAMON
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/06/2024
END DATE: 30/06/2026

TITLE: **Búsqueda de biomarcadores relacionados con genes del sistema inmune para predecir la eficacia y la toxiicdad en pacientes con neoplasias hematológicas tratadas con inmunoterapia basada en el receptor de células T antigénicas quiméticas (CART9** (PI20/00521)
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Fight Osteosarcoma Through European Research evolving study platform from diagnosis to relapse" (FOSTER-evolving)** (ATTRA236786MATA)
DIRECTOR: MATA FERNÁNDEZ, CRISTINA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 15/12/2023

END DATE: 31/03/2033

TITLE: **Dynamics of circulating tumor DNA and other biomarkers prior to infusion of CAR-T therapy as a prognostic marker of treatment failure in diffuse large B cell lymphoma** (GS22BMD/01)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: GILEAD SCIENCE, S.L.U.
START DATE: 19/02/2023
END DATE: 18/02/2025

TITLE: **Intensification contracts** INT24/00088
DIRECTOR: Mariana Beatriz Bastos Oreiro
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Grants for predoctoral research staff in training** PIPF-2022/SAL-GL-24713
DIRECTOR: Carolina Martínez Laperche (Ismael de la Iglesia San Sebastián)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2023
END DATE: 30/11/2027

TITLE: **AECC Junior Clinical Grant 2024**
DIRECTOR: Ismael Buño Borde (Miguel López Esteban)
PROJECT TYPE: Human Resources
FUNDING BODY: AECC
START DATE: 01/12/2024
END DATE: 01/12/2027

### GROUP 6.04: Surgical oncology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 5 | | | |
| Regional | | | | |

TITLE: **Caracterización del mecanismo de acción de la cilastatina para actuar como tratamiento preventivo en indicaciones inflamatorias agudas y crónicas** (CPP2022-009633)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Eficacia de la Colchicina en prevención secundaria de eventos vasculares y progresión renal en pacientes con enfermedad renal crónica moderada (estudio COLCHIREN)** (ICI22/00006)
DIRECTOR: GOICOECHEA DIEZHANDINO, MARIA DE LOS ANGELES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **"Ensayo clínico de nefroprotección con cilastatina en cirugía de citorreducción con quimioterapia intraperitoneal intraoperatoria hipertérmica con cisplatino"** (ICI21/00111)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **El control de la apoptosis renal bloquea el inflamasoma y evita el daño orgánico a distancia.** (PI20/01577)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/04/2025

TITLE: **Modulación farmacológica de la lesión por reperfusión en injertos renales con isquemia normotérmica** (FMM23/02)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 28/07/2023
END DATE: 27/07/2026

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | 1 | | |
| National | 9 | 3 | 2 | |
| Regional | | | 1 | |

TITLE: **Factores medioambientales y microbianos asociados a la evolución de la colangitis esclerosante asociada a enfermedad inflamatoria intestinal experimental** (PI23/01906)

DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Profundización en el diagnóstico y mecanismos de las alteraciones de las plaquetas y médula ósea en la enfermedad hepática crónica** (PI21/01749)
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Evaluación de la capacidad diagnóstica y pronóstica de la biopsia hepática en la insuficiencia hepática crónica agudizada (ACLF): unabordaje traslacional** (PI21/01957)
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Beca IMPULSO trasplante: Fragilidad persistente tras el trasplante hepático: Prevalencia, mecanismos involucrados y potencial de reversibilidad con estrategias de intervención personalizadas** (2024-CCA034)
DIRECTOR: CLEMENTE SANCHEZ, ANA
PROJECT TYPE: Research project
FUNDING BODY: CHIESI ESPAÑA, S.A.
START DATE: 18/10/2024
END DATE: 17/10/2026

TITLE: **Beca IMPULSO trasplante: Programa Educacional & Experiencia del paciente en un programa de trasplante hepático de adulto. Plan de digitalización e integración en la historia clínica electrónica** (2024-CCA035)
DIRECTOR: SALCEDO PLAZA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: CHIESI ESPAÑA, S.A.
START DATE: 29/10/2024
END DATE: 28/10/2026

TITLE: **Neoadjuvant-adjuvant immunotherapy and cancer vaccines to improve survival in hepatocellular carcinomaNeoadjuvant-adjuvant immunotherapy and cancer vaccines to improve survival in hepatocellular carcinoma (ASPIRE)** (RETOS245779LLOV)
DIRECTOR: MATILLA PEÑA, ANA MARÍA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 05/03/2025
END DATE: 04/03/2031

TITLE: **Base racional para modular el estrés del retículo endoplásmico inducido por el microbioma como herramienta para evitar la evasión inmune en el carcinoma hepatocelular (RETO)** (FAECC23/01)
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER

PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/12/2023
END DATE: 30/11/2028

TITLE: **"La perfusión normotérmica de órgano aislado como sistema de recuperación de órganos subóptimos para aumentar el pool de donantes. Biomarcadores de viabilidad y trasplantabilidad"** (FMM21/02)
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 16/06/2021
END DATE: 31/01/2026

TITLE: **Impacto de las máquinas de perfusión hepática ex-vivo sobre la inmunogenicidad del injerto: normotermia vs. Hipotermia** (SMT23/01)
DIRECTOR: CABALLERO MARCOS, ARANZAZU
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD MADRILEÑA DE TRASPLANTES
START DATE: 07/03/2024
END DATE: 06/03/2026

TITLE: **Juan Rodés contracts** JR22/00052
DIRECTOR: Aránzazu Caballero Marcos
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 23/01/2023
END DATE: 22/01/2027

TITLE: **Juan Rodés contracts** JR23/00080
DIRECTOR: Ana Clemente Sánchez
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/01/2024
END DATE: 28/01/2028

TITLE: **Attracting Research Talent: César Nombela candidate** 2024-T1/SAL-GL-31615
DIRECTOR: (Marina Bárcena Varela)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2030

* **Not managed by the FIBHGM**

TITLE: **Discovering chronic inflammation biomarkers that define key stages in the Healthy-to-NASH (non-alcoholic steatohepatitis) transition to inform early prevention and treatment strategies**. 101095679
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER
PROJECT TYPE: European research project
FUNDING BODY: EU HORIZON
START DATE: 01/12/2022
END DATE: 30/11/2026

TITLE: **DESCIFRANDO EL PAPEL DE FGF21 EN EL DESARROLLO DEL COLANGIOCARCINOMA INTRAHEPÁTICO**. PID2024-158138OB-I00
DIRECTOR: LEIVA ARJONA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **PREVENCIÓN DEL ESTRÉS DEL RETÍCULO ENDOPLÁSMICO MEDIANTE LA REGULACIÓN DE LA HOMEOSTASIS REDOX EN ENFERMEDAD CRÓNICA HEPÁTICA INFLAMATORIA DE BASE METABÓLICA**. PID2023-151347OB-I00
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Estudio del eje músculo-intestino-hígado en la MetALD: de la fisiopatología a la terapia específica para la medicina personalizada**. PID2023-150260OB-I00
DIRECTOR: NEVZOROVA CHUJINA, YULIA
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2024
END DATE: 31/12/2027

## GROUP 7.04: Diseases of the critically ill child

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | 1 | | | |
| European | | | | |
| National | 8 | 1 | 2 | |
| Regional | | | | |

TITLE: **ASCEND (ARDS in Children and ECMO initiation strategies impact on Neuro-Development)** (NIH-2020/PAF01099)
DIRECTOR: BUTRAGUEÑO LAISECA, LAURA
PROJECT TYPE: International research project
FUNDING BODY: UNIVERSIDAD DE MICHIGAN
START DATE: 05/09/2020
END DATE: 30/06/2026

TITLE: **Identificación precoz del daño renal agudo en niños críticos mediante peptidómica y proteómica en orina aplicando machine learning** (PI24/00984)
DIRECTOR: FERNANDEZ LAFEVER, SARAH NICOLE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Desarrollo de un sistema de simulación para la formación en técnicas de depuración extrarrenal continua** (DTS22/00022)
DIRECTOR: MENCÍA BARTOLOMÉ, SANTIAGO

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Influencia de la modalidad de ventilación y la inflamación sobre el pronóstico en un modelo de experimental animal pediátrico de parada cardiaca** (PI21/01149)
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Ensayo clínico controlado aleatorizado sobre el tratamiento profiláctico del estreñimiento con polietilenglicol con electrolitos en el niño crítico.** (PI20/01339)
DIRECTOR: LOPEZ GONZALEZ, JORGE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Comparación de la eficacia en sepsis de las técnicas de depuración sanguínea para niños críticos: estudio clínico y experimental.** (PI20/01428)
DIRECTOR: SANTIAGO LOZANO, MARÍA JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Utilidad de las nuevas modalidades de imagen en ecografía y videomicroscopia para la evaluación microcirculatoria y tisular a pie de cama en niños sometidos a cirugía cardíaca.** (PI20/01491)
DIRECTOR: GONZÁLEZ CORTES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Efectos de la resucitación con albumina hipertónica y nuevas drogas vasoactivas en un modelo animal infantil de shock hemorragico.** (PI20/01706)
DIRECTOR: URBANO VILLAESCUSA, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Liquid-walled circuits for anticoagulant-free Extra-corporeal Membrane**. HR25-00225
DIRECTOR: SANTIAGO, MARIA JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: Caixa
START DATE: 01/01/2025
END DATE: 12/12/2027

TITLE: **Río Hortega contracts** CM23/00041
DIRECTOR: Jesús López-Herce Cid (Sara de la Mata Navazo)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/07/2024
END DATE: 27/01/2027

TITLE: **Juan Rodés contracts** JR24/00040
DIRECTOR: Laura Butragueño Laiseca
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/02/2025
END DATE: 31/01/2029

* **Not managed by the FIBHGM**

TITLE: **Monitorización continua de la glucemia en pacientes pediátricos críticamente enfermos**. Beca Ruza 2025
DIRECTOR: MANRIQUE, GEMA
PROJECT TYPE: Research project
FUNDING BODY: Sociedad Española de Cuidados Intensivos Pediátricos
START DATE: 01/07/2025
END DATE: 31/06/2026

## GROUP 7.05B Physiological and therapeutic medical-surgical aspects of respiratory diseases

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 2 | | | |
| Regional | | | | |

TITLE: **PRograma de Optimización de uso de Medicación Inhalada (Proyecto PROMI)** (PI23/01888)
DIRECTOR: LOPEZ PADILLA, DANIEL EDUARDO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Impacto de la aplicación de flujo de oxígeno continuo, con o sin presión en la vía aérea, en el pulmón no dependiente durante la ventilación unipulmonar sobre las complicaciones postoperatorias en cirugía de resección pulmonar** (PI23/00386)
DIRECTOR: DE LA GALA GARCÍA, FRANCISCO ANDRÉS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

## GROUP 7.06. Regenerative medicine in plastic surgery

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.07. Experimental kidney transplantation

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.08: Paediatric endocrinology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.10: Regeneration and biomaterials in musculoskeletal diseases

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 5 | | | |
| Regional | | | | |

TITLE: **Osteoteca 3D. Desarrollo de una herramienta de planificación quirúrgica digital para el trasplante de hueso y tejido en cirugía reconstructiva y oncológica** (DTS24/00107)
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Transformación digital en el tratamiento oncológico. Inteligencia artificial, impresión 3D y realidad aumentada para una medicina personalizada. (IAR3D-ONC)** (TED2021-132200B-I00)
DIRECTOR: CALVO HARO, JOSE ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/12/2022
END DATE: 31/05/2025

TITLE: **Estudio preclínico in vitro para valorar los efectos osteogénicos y osteoanabólicos del ácido tranexámico y su correlación con los resultados obtenidos de su uso en clínica.** (FMM25/02)
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/09/2025
END DATE: 31/08/2026

TITLE: **Rezafungina en el tratamiento local de la infección periprotésica fúngica. Nuevas estrategias ante un desafío creciente** (FMM24/01)
DIRECTOR: SANZ RUIZ, PABLO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 17/09/2024
END DATE: 16/09/2027

TITLE: **Nuevos horizontes en infección periprotésica: modelo in vitro de elución de rezafungina en cemento óseo y eficacia sobre biofilm estático y dinámico de candida** (FS24/01)
DIRECTOR: SANZ RUIZ, PABLO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SECOT
START DATE: 04/12/2024
END DATE: 03/12/2026

## GROUP 7.12: Emergency medicine

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.16B: Pathophysiology of the cardiovascular system and circulatory support

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | | 1 | | |
| Regional | | | | |

* **Not managed by the FIBHGM**

TITLE: **Inmersión en ECMO: Innovación docente universitaria a través de la realidad virtual**. Proyecto Innovación Docente UCM-481
DIRECTOR: QUINTANA VILLAMANDOS, MARIA BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: UCM
START DATE: 01/06/2024
END DATE: 31/12/2025

## GROUP 7.18: Peritransplant evaluation of the liver

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.19: Perianesthesic assessment

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.20: Anesthesia, toxins, and arrhythmias

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.21: Biopathology of aging

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 1 | | | |
| Regional | | | | |

TITLE: **Efecto de un programa personalizado de ejercicio físico sobre la capacidad funcional y la calidad de vida en personas mayores con cáncer colorectal.** (PI21/01729)
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

## GROUP 7.22: Neonatal and developmental pathophysiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 3 | | 1 | |
| Regional | | | | |

TITLE: **Una nueva dimensión del cribado neonatal, el proyecto piloto CRINGENES** (PMPER24/00011)
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 09/06/2025
END DATE: 31/12/2026

TITLE: **Ventilación de alta frecuencia con frecuencias elevadas y volúmenes tidales bajos como estrategia de protección pulmonar en un modelo animal de baja distensibilidad; mecanismos genómicos implicados** (PI24/00971)
DIRECTOR: GONZALEZ PACHECO, NOELIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Surfactante aerosolizado combinado con ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** (PI20/01331)
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Río Hortega contracts** CM24/00191
DIRECTOR: (Amaia Merino Hernández)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/03/2025
END DATE: 30/03/2027

## GROUP 7.26: Evaluation of health services and clinical epidemiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.27: Hospital pharmacy and pharmacogenomics

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 5 | | | |
| Regional | | | 1 | |

TITLE: **Instrumento automatizado para la evaluación del uso y la resistencia a los antimicrobianos (AI-AMS)** (CPP2022-009977)
DIRECTOR: SANJURJO SAEZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/05/2023
END DATE: 30/04/2026

TITLE: **Proyecto iPHARMGx: Estudio colaborativo nacional para evaluar la efectividad y eficiencia de la implementación de biomarcadores farmacogenéticos mediante una estrategia de genotipado anticipado en el SNS** (PMP22/00055)
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 14/12/2023
END DATE: 30/06/2026

TITLE: **Plataforma de inteligencia artificial para la evaluación automatizada de la calidad de vida y capacidad funcional en pacientes con cáncer colorrectal. Proyecto eB2-Mindcare.** (PI23/00405)
DIRECTOR: ESCUDERO VILAPLANA, VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Medicina Personalizada de Precisión 2021 (Farmacia)** (PMP21/00051-2)
DIRECTOR: HERRANZ ALONSO, ANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Desarrollo de una herramienta de predicción de respuesta a terapia biológica en niños con enfermedad inflamatoria intestinal** (PI22/00584)
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Grants for predoctoral research staff in training** PIPF-2022/SAL-GL-24790
DIRECTOR: Luis Andrés López Fernández (Paula Zapata Cobo)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 29/02/2028

## GROUP 7.28: Clinical nutrition

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## GROUP 7.29: Pharmacology and vascular pathophysiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **1** | **2** | | |
| **Regional** | | **2** | | **2** |

TITLE: **Papel del inflamasoma en la disfunción de células progenitoras endoteliales en pacientes con hipertensión arterial pulmonar asociada a cardiopatías congénitas** (PI22/01302)
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

* **Not managed by the FIBHGM**

TITLE: **Mecanismos moleculares y nuevas estrategias terapéuticas en la disfunción endotelial asociada a hipertensión pulmonar, disfunción eréctil y disfunción sexual femenina. (EndoDis)**. PID2024-155613OB-I00
DIRECTOR: PEREZ VIZCAINO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-202
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Análisis del Papel de los canales Kir2 y KATP en la Hipertensión Arterial Pulmonar (Kir2/KATP_PAH)**. PID2023-147925OA-I00
DIRECTOR: SANCHO GONZALEZ, MARIA
PROJECT TYPE: Research project
FUNDING BODY: Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-202
START DATE: 01/09/2024
END DATE: 31/08/2028

TITLE: **Vesículas extracelulares en la fisiopatología hepática: Relevancia mecanística, diagnóstica y terapéutica**. S2022/BMD-7409,
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: CAM
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **The Role of N-Ras in the Development of Pulmonary Hypertension**. PR17/24
DIRECTOR: MORALES CANO, DANIEL
PROJECT TYPE: Research project

FUNDING BODY: UCM
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Pre-doctoral contracts for trainee researchers.**
DIRECTOR: LAURA MORENO GUTIERREZ (ANA CONDE YAÑEZ)
PROJECT TYPE: Human Resources
FUNDING BODY: UCM
START DATE: 01/02/2026
END DATE: 31/01/2030

TITLE: **"César Nombela" Grants to Attract Research Talent.**
DIRECTOR: FRANCISCO PEREZ VIZCAINO (Rui Adão)
PROJECT TYPE: Human Resources
FUNDING BODY: CAM
START DATE: 01/02/2026
END DATE: 31/01/2031

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

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 2 | | | |
| Regional | | | | |

TITLE: **Utilidad de un simulador de realidad virtual inmersiva en la formación médica del parto vaginal : un ensayo controlado aleatorizado** (PI24/00734)
DIRECTOR: DE LEÓN LUIS, JUAN ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Valor de los anticuerpos anti-espermatozoides como marcadores de daño testicular por SARS-CoV-2 en la post-pandemia y su efecto en enfermedades de transmisión sexual** (PI22/00035)
DIRECTOR: RELLOSO CERECEDA, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

## GROUP 7.32: Physical medicine and rehabilitation

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 1 | | | |
| Regional | | | | |

TITLE: **EXPLORER: Primer portfolio de dispositivos de uso doméstico destinado a la rehabilitación de pacientes afectados por trastornos de la marcha** (PMPTA22/00106)

DIRECTOR: ARROYO RIAÑO, OLGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2025

## GROUP 7.33: Pathological Anatomy

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## GROUP 7.34: Multimorbidity, chronic diseases and health services. Primary Care

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 3 | | 1 | |
| Regional | | | | |

TITLE: **Impacto de las fortalezas de la Atención Primaria (Accesibilidad, Longitudinalidad e Integralidad) en la Mortalidad y las hospitalizaciones Evitables. Estudio ALIME-AP** (PI24/00638)
DIRECTOR: MARTIN FERNANDEZ, JESUS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Multimorbilidad en el Sistema Nacional de Salud: Caracterización poblacional e impacto de sus patrones y trayectorias en personas mayores (Proyecto MM-SNS)** (PI22/00768)
DIRECTOR: DEL CURA GONZALEZ, ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Efectividad y coste efectividad de una comunidad de práctica virtual para la mejora del empoderamiento de personas de mediana edad con multimorbilidad: ECA.** (PI22/01124)
DIRECTOR: GONZALEZ GONZALEZ, ANA ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Río Hortega contracts** CM24/00018
DIRECTOR: (Ileana Gefaell Larrondo)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III

START DATE: 04/02/2025
END DATE: 03/02/2027

### GROUP 7.35: Translational dermatology: Research and innovation

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

### GROUP 7.36: Translational research and biotechnology in head and neck surgery

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | | | |
| National | 1 | | | |
| Regional | | | | |

TITLE: **Cirugía caneofacial personalizada y guiada por imagen** (PI22/00601)
DIRECTOR: OCHANDIANO CAICOYA, SANTIAGO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

## NURSING RESEARCH GROUP

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | | | | |
| Regional | | | | |

TITLE: **Earlydel - Design and usability of a wearable system for the early detection of delirium or agitation in patients over 65 years of age in the hospital setting (INNOBUYER)** (IB23-2019610-36)
DIRECTOR: MORO TEJEDOR, MARÍA NIEVES
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 21/06/2023
END DATE: 25/08/2025

## AREA 9: RESEARCH AND INNOVATION IN HEALTH MANAGEMENT

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |

| | | | | |
|---|---|---|---|---|
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## CLINICAL RESEARCHERS ASSOCIATED

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **2** | | | |
| **Regional** | | | | |

TITLE: **Subvención para incentivar la actividad de donación y trasplante realizada en los hospitales** (MSYPS20/02)
DIRECTOR: ESCALANTE COBO, JOSÉ LUIS
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SS SOCIALES E IGUALDAD
START DATE: 09/12/2020
END DATE:

TITLE: **Beca Estudio Investigación Unicéntrico: Estudio Pain Evaluation After Robotic & Laparoscopic Surgery (PEARLS)** (AEC25/01)
DIRECTOR: TEJEDOR TOGORES, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: ASOCIACION ESPAÑOLA DE CIRUJANOS
START DATE: 01/07/2025
END DATE: 30/06/2027

## OTHER SUPPORT UNITS

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | | | **4** | |
| **Regional** | | | **2** | |

# Bioinformatics unit

TITLE: **Bioinformatics technical staff supporting research at the IIS** CA23/00001
DIRECTOR: Ismael Buño Borde (Perceval Vellosillo González)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 30/03/2024
END DATE: 29/03/2026

# Technical Unit FIBHGM

TITLE: **Research Management Contracts** GIS21/00027

DIRECTOR: Paula Camarena Ramírez
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 12/01/2022
END DATE: 12/01/2025

TITLE: **Research Management Contracts** GIS24/00005
DIRECTOR: Jose Carlos Guerras Moreira
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 18/03/2025
END DATE: 17/03/2028

### 3D Medical printing unit

TITLE: **Technical Support Staff** PTA2023-023529-I
DIRECTOR: Rubén Pérez Mañanes (Carlota Ortiz García)
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 21/05/2024
END DATE: 20/05/2027

### Animal facility

TITLE: **Young employment Program contracts** PEJ-2023-TL/SAL-GL-27493
DIRECTOR: Pedro Llontop Santisteban (Esther Guerrero López-Picazo)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/02/2024
END DATE: 31/01/2026

TITLE: **Young employment Program contracts** PEJ-2023-TL/SAL-GL-27493
DIRECTOR: Pedro Llontop Santisteban (Raquel Sánchez Moya)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/02/2024
END DATE: 31/01/2026

## 4.12 Scientific publications

The list presented below shows all the referenced publications in which investigators from the IiSGM participated in during 2025.

In order to obtain the total impact factor, only information from publications indexed as original articles, reviews, editorials and letters in the main collection of the Web of Science (WOS) have been taken into account.

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 | Nº | IF | Amount IF |
|---|---|---|---|
| 3D Printing in Medicine | 1 | 3,1 | 3,1 |
| ACS Applied Materials & Interfaces | 1 | 7,8 | 7,8 |
| ACS Measurement Science Au | 1 | 14,7 | 14,7 |
| ACTA CHIRURGICA BELGICA | 1 | 0,9 | 0,9 |
| Acta Medica Portuguesa | 1 | 1,2 | 1,2 |
| Acta Otorrinolaringologica Espanola | 5 | 1,2 | 6 |
| ACTA PAEDIATRICA | 2 | 1,8 | 3,6 |
| Acta Pediatrica de Mexico | 1 | 0,2 | 0,2 |
| Actas Dermo-Sifiliograficas | 7 | 2,9 | 20,3 |
| ACTAS ESPANOLAS DE PSIQUIATRIA | 1 | 2,1 | 2,1 |
| Actas Urologicas Espanolas | 4 | 1,7 | 6,8 |
| Advanced Science | 1 | 14,1 | 14,1 |
| Advances in Simulation | 1 | 3,6 | 3,6 |
| ADVANCES IN THERAPY | 1 | 4,7 | 4,7 |
| AGE AND AGEING | 1 | 7,4 | 7,4 |
| Aging and Disease | 1 | 9,6 | 9,6 |
| AIDS | 3 | 2,9 | 8,7 |
| AIDS AND BEHAVIOR | 1 | 2,5 | 2,5 |
| ALIMENTARY PHARMACOLOGY & THERAPEUTICS | 6 | 6,8 | 40,8 |
| ALLERGY | 4 | 11,3 | 45,2 |
| Allergy Asthma and Clinical Immunology | 1 | 3 | 3 |
| AMERICAN JOURNAL OF CARDIOLOGY | 1 | 2,5 | 2,5 |
| AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS | 1 | 1,8 | 1,8 |
| AMERICAN JOURNAL OF GASTROENTEROLOGY | 2 | 8,5 | 17 |
| AMERICAN JOURNAL OF HEMATOLOGY | 3 | 9,4 | 28,2 |
| AMERICAN JOURNAL OF PERINATOLOGY | 1 | 1,4 | 1,4 |
| AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY | 1 | 3,8 | 3,8 |
| AMERICAN JOURNAL OF PSYCHIATRY | 1 | 15,9 | 15,9 |
| AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE | 1 | 21,7 | 21,7 |
| AMERICAN JOURNAL OF TRANSPLANTATION | 2 | 8,1 | 16,2 |
| Anaesthesia Critical Care & Pain Medicine | 2 | 5,4 | 10,8 |
| ANAIS BRASILEIROS DE DERMATOLOGIA | 1 | 4,4 | 4,4 |
| ANALES DE PEDIATRIA | 11 | 2,6 | 28,6 |
| ANESTHESIOLOGY | 2 | 9,4 | 18,8 |
| ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY | 1 | 7,1 | 7,1 |
| Annals of Clinical and Translational Neurology | 1 | 3,9 | 3,9 |
| Annals of Diagnostic Pathology | 1 | 1,6 | 1,6 |
| Annals of General Psychiatry | 1 | 5,8 | 5,8 |
| ANNALS OF HEMATOLOGY | 2 | 2,3 | 4,6 |
| Annals of Intensive Care | 1 | 6,9 | 6,9 |
| ANNALS OF MEDICINE | 1 | 4,9 | 4,9 |
| ANNALS OF ONCOLOGY | 7 | 80,4 | 562,8 |

| | | | |
|---|---|---|---|
| ANNALS OF SURGERY | 1 | 7,4 | 7,4 |
| ANNALS OF SURGICAL ONCOLOGY | 2 | 3,8 | 7,6 |
| ANNALS OF THE RHEUMATIC DISEASES | 1 | 24 | 24 |
| Annals of Transplantation | 1 | 1,3 | 1,3 |
| Antibiotics-Basel | 3 | 5,5 | 16,5 |
| ANTIMICROBIAL AGENTS AND CHEMOTHERAPY | 1 | 4,2 | 4,2 |
| Applied Sciences-Basel | 2 | 2,9 | 5,8 |
| Archives of Osteoporosis | 1 | 2,7 | 2,7 |
| Archives of Public Health | 1 | 3,4 | 3,4 |
| ARCHIVOS DE BRONCONEUMOLOGIA | 2 | 8,7 | 17,4 |
| ARTHRITIS RESEARCH & THERAPY | 5 | 5,4 | 27 |
| ASIAN JOURNAL OF ANDROLOGY | 1 | 3 | 3 |
| Atencion Primaria | 4 | 1,6 | 6,4 |
| ATHEROSCLEROSIS | 1 | 7,1 | 7,1 |
| AUSTRALASIAN JOURNAL OF DERMATOLOGY | 2 | 1,6 | 3,2 |
| Australian Critical Care | 1 | 3,6 | 3,6 |
| AUTISM | 1 | 5,7 | 5,7 |
| Behavioral Sciences | 3 | 3,2 | 9,6 |
| BioChip Journal | 1 | 6,7 | 6,7 |
| Bioengineering & Translational Medicine | 1 | 6,2 | 6,2 |
| Bioengineering-Basel | 1 | 4,4 | 4,4 |
| Biomedicines | 3 | 4,5 | 13,5 |
| Biomolecules | 1 | 5,6 | 5,6 |
| BJPsych Open | 3 | 4 | 12 |
| BJS Open | 2 | 4,9 | 9,8 |
| BJS-British Journal of Surgery | 4 | 9,4 | 37,6 |
| BJU INTERNATIONAL | 4 | 4,1 | 16,4 |
| BJUI Compass | 1 | 2 | 2 |
| BLOOD | 1 | 23,9 | 23,9 |
| Blood Advances | 6 | 7,7 | 46,2 |
| Blood Cancer Discovery | 1 | 12,2 | 12,2 |
| Blood Cancer Journal | 1 | 13,8 | 13,8 |
| BMC BIOINFORMATICS | 2 | 4,4 | 8,8 |
| BMC CANCER | 3 | 4,1 | 12,3 |
| BMC GASTROENTEROLOGY | 1 | 3,2 | 3,2 |
| BMC Geriatrics | 2 | 4,5 | 9 |
| BMC HEALTH SERVICES RESEARCH | 1 | 3,3 | 3,3 |
| BMC INFECTIOUS DISEASES | 1 | 3,2 | 3,2 |
| BMC Medicine | 1 | 8,7 | 8,7 |
| BMC NURSING | 1 | 5,2 | 5,2 |
| BMC Psychiatry | 1 | 4,6 | 4,6 |
| BMC PUBLIC HEALTH | 1 | 4,4 | 4,4 |
| BMC Rheumatology | 1 | 3,1 | 3,1 |
| BMJ Case Reports | 2 | 0,4 | 0,8 |
| BMJ Mental Health | 2 | 6,6 | 13,2 |
| BMJ Open | 2 | 2,5 | 5 |
| BMJ-British Medical Journal | 1 | 55,1 | 55,1 |
| Bone & Joint Journal | 2 | 4,8 | 9,6 |

| | | | |
|---|---|---|---|
| Bone & Joint Open | 4 | 3,3 | 13,2 |
| BONE MARROW TRANSPLANTATION | 10 | 5,1 | 51 |
| BRAIN BEHAVIOR AND IMMUNITY | 1 | 7,5 | 7,5 |
| Brain Communications | 2 | 4,5 | 9 |
| Brazilian Journal of Anesthesiology | 1 | 2,2 | 2,2 |
| BREAST | 1 | 5,2 | 5,2 |
| BREAST CANCER RESEARCH | 1 | 6,2 | 6,2 |
| BREAST CANCER RESEARCH AND TREATMENT | 2 | 3,3 | 6,6 |
| Breastfeeding Medicine | 1 | 2,1 | 2,1 |
| BRITISH JOURNAL OF ANAESTHESIA | 4 | 10,3 | 41,2 |
| BRITISH JOURNAL OF CLINICAL PHARMACOLOGY | 2 | 3 | 6 |
| BRITISH JOURNAL OF HAEMATOLOGY | 5 | 3,6 | 18 |
| BRITISH JOURNAL OF PHARMACOLOGY | 2 | 7,5 | 15 |
| BRITISH JOURNAL OF PSYCHIATRY | 2 | 8,5 | 17 |
| CANADIAN JOURNAL OF CARDIOLOGY | 1 | 5,7 | 5,7 |
| CANADIAN JOURNAL OF PSYCHIATRY-REVUE CANADIENNE DE PSYCHIATRIE | 1 | 4,4 | 4,4 |
| CANCER | 1 | 5,6 | 5,6 |
| CANCER CELL | 1 | 56,1 | 56,1 |
| Cancer Communications | 1 | 28,4 | 28,4 |
| Cancer Immunology Research | 1 | 7,9 | 7,9 |
| Cancer Medicine | 1 | 3,5 | 3,5 |
| Cancer Treatment and Research Communications | 1 | 3,5 | 3,5 |
| CANCER TREATMENT REVIEWS | 1 | 10,6 | 10,6 |
| Cancers | 16 | 4,8 | 76,8 |
| Cardiology Journal | 1 | 1,9 | 1,9 |
| Cardiovascular Diabetology | 1 | 15,6 | 15,6 |
| CARDIOVASCULAR RESEARCH | 1 | 12,5 | 12,5 |
| Cardiovascular Ultrasound | 1 | 2 | 2 |
| Cells | 1 | 6 | 6 |
| Cellular and Molecular Gastroenterology and Hepatology | 1 | 8,2 | 8,2 |
| CHEST | 2 | 9,8 | 19,6 |
| Child and Adolescent Mental Health | 1 | 4,4 | 4,4 |
| CHILDREN AND YOUTH SERVICES REVIEW | 1 | 2,1 | 2,1 |
| Children-Basel | 3 | 2,6 | 7,8 |
| CIRCULATION RESEARCH | 1 | 18 | 18 |
| Circulation-Arrhythmia and Electrophysiology | 1 | 9,3 | 9,3 |
| Cirugia Cardiovascular | 4 | 0,2 | 0,8 |
| CIRUGIA ESPANOLA | 1 | 1,5 | 1,5 |
| CJC Open | 2 | 2,1 | 4,2 |
| Clinica e Investigacion en Arteriosclerosis | 2 | 1,9 | 3,8 |
| Clinical & Translational Oncology | 19 | 2,7 | 51,3 |
| CLINICAL AND EXPERIMENTAL DERMATOLOGY | 1 | 2,8 | 2,8 |
| CLINICAL AND EXPERIMENTAL RHEUMATOLOGY | 1 | 3,2 | 3,2 |
| Clinical and Molecular Hepatology | 1 | 21,7 | 21,7 |
| Clinical and Translational Medicine | 2 | 7,9 | 15,8 |
| CLINICAL CANCER RESEARCH | 2 | 10,9 | 21,8 |
| CLINICAL CHEMISTRY AND LABORATORY MEDICINE | 1 | 4,4 | 4,4 |
| Clinical Gastroenterology and Hepatology | 1 | 16,2 | 16,2 |

| | | | |
|---|---|---|---|
| Clinical Genitourinary Cancer | 1 | 2,4 | 2,4 |
| Clinical Implant Dentistry and Related Research | 1 | 3,9 | 3,9 |
| CLINICAL INFECTIOUS DISEASES | 7 | 8,3 | 58,1 |
| Clinical Kidney Journal | 1 | 5,3 | 5,3 |
| Clinical Lymphoma Myeloma & Leukemia | 1 | 4,1 | 4,1 |
| Clinical Medicine Insights-Endocrinology and Diabetes | 1 | 2,5 | 2,5 |
| CLINICAL MICROBIOLOGY AND INFECTION | 4 | 8,7 | 34,8 |
| CLINICAL NUCLEAR MEDICINE | 1 | 9,6 | 9,6 |
| CLINICAL NUTRITION | 5 | 7,9 | 39,5 |
| Clinical Nutrition ESPEN | 4 | 3,4 | 13,6 |
| CLINICAL ORTHOPAEDICS AND RELATED RESEARCH | 1 | 4,3 | 4,3 |
| CLINICAL PHARMACOKINETICS | 1 | 4 | 4 |
| Clinical Research in Cardiology | 1 | 3,4 | 3,4 |
| Clinical Simulation in Nursing | 1 | 2,4 | 2,4 |
| Clinics and Practice | 1 | 2,8 | 2,8 |
| Cluster Computing-The Journal of Networks Software Tools and Applications | 2 | 5,5 | 11 |
| Cognitive Computation | 1 | 7,4 | 7,4 |
| Colorectal Disease | 4 | 2,3 | 9,2 |
| Communications Medicine | 1 | 7,4 | 7,4 |
| Computer Methods and Programs in Biomedicine | 1 | 6,4 | 6,4 |
| Current Opinion in Critical Care | 1 | 3,8 | 3,8 |
| Current Opinion in HIV and AIDS | 1 | 3,4 | 3,4 |
| CURRENT OPINION IN INFECTIOUS DISEASES | 2 | 4,5 | 9 |
| DERMATOLOGY | 1 | 3,6 | 3,6 |
| DIABETES RESEARCH AND CLINICAL PRACTICE | 1 | 4,6 | 4,6 |
| DIAGNOSTIC CYTOPATHOLOGY | 1 | 0,9 | 0,9 |
| Diagnostics | 3 | 3,8 | 11,4 |
| DIGESTIVE AND LIVER DISEASE | 3 | 4,9 | 14,7 |
| DIGESTIVE DISEASES AND SCIENCES | 1 | 2,8 | 2,8 |
| Disaster Medicine and Public Health Preparedness | 1 | 1,7 | 1,7 |
| Diseases | 1 | 3,7 | 3,7 |
| Drug Delivery and Translational Research | 1 | 6,9 | 6,9 |
| Early Intervention in Psychiatry | 2 | 2,3 | 4,6 |
| EClinicalMedicine | 2 | 12,8 | 25,6 |
| Educacion Medica | 2 | 0,7 | 1,4 |
| EFORT Open Reviews | 1 | 4,6 | 4,6 |
| eGastroenterology | 1 | 10,5 | 10,5 |
| EJNMMI Radiopharmacy and Chemistry | 1 | 3,7 | 3,7 |
| EJSO | 2 | 3,5 | 7 |
| EMBO Molecular Medicine | 1 | 7,9 | 7,9 |
| Emergencias | 4 | 5,5 | 22 |
| Emergency and Critical Care Medicine | 1 | 1,1 | 1,1 |
| Emergency Care Journal | 1 | 0,4 | 0,4 |
| EMERGING INFECTIOUS DISEASES | 3 | 7,9 | 23,7 |
| Emerging Microbes & Infections | 2 | 7 | 14 |
| ENDOCRINE | 1 | 3,3 | 3,3 |
| Endocrine Connections | 1 | 3,4 | 3,4 |
| Endocrine Practice | 1 | 4,4 | 4,4 |

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| ENDOCRINE-RELATED CANCER | 1 | 4,4 | 4,4 |
| Endocrinologia Diabetes y Nutricion | 6 | 1,9 | 11,4 |
| ENDOSCOPY | 1 | 11,8 | 11,8 |
| Endoscopy International Open | 2 | 2,9 | 5,8 |
| ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA | 8 | 2,2 | 17,6 |
| Enfermeria Clinica | 4 | 1,1 | 4,4 |
| Enfermeria Intensiva | 4 | 1,7 | 6,8 |
| ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE | 2 | 9 | 18 |
| Entertainment Computing | 1 | 2,4 | 2,4 |
| Epidemiology and Psychiatric Sciences | 1 | 5,4 | 5,4 |
| EPILEPSY & BEHAVIOR | 2 | 2,4 | 4,8 |
| ERJ Open Research | 2 | 4,4 | 8,8 |
| ESC Heart Failure | 1 | 3,8 | 3,8 |
| ESMO Gastrointestinal Oncology | 3 | 1,7 | 5,1 |
| ESMO Open | 7 | 10,6 | 74,2 |
| ESMO Real World Data and Digital Oncology | 1 | 2,6 | 2,6 |
| EUROPACE | 2 | 10,2 | 20,4 |
| EUROPEAN ARCHIVES OF OTO-RHINO-LARYNGOLOGY | 2 | 2,4 | 4,8 |
| EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE | 2 | 3,9 | 7,8 |
| EUROPEAN CHILD & ADOLESCENT PSYCHIATRY | 4 | 4,4 | 17,6 |
| EUROPEAN HEART JOURNAL | 5 | 45,3 | 226,5 |
| European Heart Journal - Digital Health | 1 | 5,3 | 5,3 |
| European Heart Journal-Cardiovascular Pharmacotherapy | 4 | 8,2 | 32,8 |
| European Heart Journal-Case Reports | 3 | 0,7 | 2,1 |
| EUROPEAN JOURNAL OF ANAESTHESIOLOGY | 3 | 7,8 | 23,4 |
| EUROPEAN JOURNAL OF CANCER | 4 | 7,9 | 31,6 |
| EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY | 2 | 3,3 | 6,6 |
| EUROPEAN JOURNAL OF CLINICAL INVESTIGATION | 2 | 4,1 | 8,2 |
| EUROPEAN JOURNAL OF DERMATOLOGY | 10 | 1,9 | 19 |
| EUROPEAN JOURNAL OF ENDOCRINOLOGY | 3 | 6,7 | 20,1 |
| EUROPEAN JOURNAL OF EPIDEMIOLOGY | 1 | 6,6 | 6,6 |
| European Journal of General Practice | 2 | 2,7 | 5,4 |
| EUROPEAN JOURNAL OF HAEMATOLOGY | 2 | 2,6 | 5,2 |
| EUROPEAN JOURNAL OF HEART FAILURE | 1 | 10,3 | 10,3 |
| EUROPEAN JOURNAL OF HUMAN GENETICS | 1 | 4,6 | 4,6 |
| European Journal of Internal Medicine | 7 | 8,1 | 56,7 |
| EUROPEAN JOURNAL OF NEUROSCIENCE | 1 | 2,5 | 2,5 |
| European Journal of Obstetrics & Gynecology and Reproductive Biology | 1 | 2,3 | 2,3 |
| EUROPEAN JOURNAL OF PEDIATRICS | 6 | 2,9 | 17,4 |
| European Journal of Pharmacology | 1 | 5,7 | 5,7 |
| EUROPEAN JOURNAL OF PUBLIC HEALTH | 1 | 5,2 | 5,2 |
| European Journal of Trauma and Emergency Surgery | 1 | 2,3 | 2,3 |
| EUROPEAN NEUROPSYCHOPHARMACOLOGY | 9 | 8,1 | 72,9 |
| EUROPEAN PSYCHIATRY | 11 | 7,9 | 86,9 |
| European Thyroid Journal | 1 | 4,9 | 4,9 |
| EUROPEAN UROLOGY | 1 | 29,1 | 29,1 |
| European Urology Focus | 2 | 6,3 | 12,6 |
| European Urology Oncology | 1 | 8,5 | 8,5 |

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| Eurosurveillance | 2 | 8,3 | 16,6 |
| Experimental Hematology & Oncology | 1 | 17,5 | 17,5 |
| EXPERT OPINION ON BIOLOGICAL THERAPY | 1 | 4 | 4 |
| Expert Review of Anti-Infective Therapy | 2 | 4,6 | 9,2 |
| EXPERT SYSTEMS WITH APPLICATIONS | 1 | 9,4 | 9,4 |
| Facts Views and Vision in ObGyn | 1 | 1,5 | 1,5 |
| FARMACIA HOSPITALARIA | 12 | 1,7 | 20,4 |
| Food & Function | 1 | 6,3 | 6,3 |
| Foot and Ankle Clinics | 1 | 1,6 | 1,6 |
| FREE RADICAL BIOLOGY AND MEDICINE | 1 | 8 | 8 |
| Frontiers in Cardiovascular Medicine | 1 | 3 | 3 |
| Frontiers in Endocrinology | 1 | 5,7 | 5,7 |
| Frontiers in Immunology | 13 | 7 | 91 |
| Frontiers in Medicine | 3 | 3,6 | 10,8 |
| Frontiers in Microbiology | 3 | 5,8 | 17,4 |
| Frontiers in Molecular Neuroscience | 1 | 4,4 | 4,4 |
| Frontiers in Neuroimaging | 1 | 2,5 | 2,5 |
| Frontiers in Neurology | 2 | 3,3 | 6,6 |
| Frontiers in Neuroscience | 1 | 4 | 4 |
| Frontiers in Oncology | 1 | 3,4 | 3,4 |
| Frontiers in Pediatrics | 3 | 2,2 | 6,6 |
| Frontiers in Pharmacology | 2 | 5,4 | 10,8 |
| Frontiers in Psychiatry | 4 | 3,8 | 15,2 |
| Frontiers in Public Health | 2 | 4,1 | 8,2 |
| Frontiers in Urology | 1 | 1,7 | 1,7 |
| Frontline Gastroenterology | 1 | 2,8 | 2,8 |
| Future Generation Computer Systems-The International Journal of eScience | 2 | 5,9 | 11,8 |
| Future Oncology | 3 | 3,1 | 9,3 |
| Gastric Cancer | 1 | 6,1 | 6,1 |
| Gastroenterologia y Hepatologia | 9 | 2 | 18 |
| Gastroenterology | 1 | 29,7 | 29,7 |
| Gels | 1 | 6,4 | 6,4 |
| GENETICS IN MEDICINE | 1 | 6,2 | 6,2 |
| Gerontology | 1 | 3,1 | 3,1 |
| GUT | 1 | 24,6 | 24,6 |
| HAEMATOLOGICA | 2 | 8,2 | 16,4 |
| Hamostaseologie | 1 | 2,4 | 2,4 |
| HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK | 3 | 2,2 | 6,6 |
| HEALTH POLICY | 1 | 4,7 | 4,7 |
| Healthcare | 10 | 3,4 | 34 |
| HEART | 2 | 4,4 | 8,8 |
| HEART & LUNG | 1 | 2,5 | 2,5 |
| HEART FAILURE REVIEWS | 1 | 5,3 | 5,3 |
| HemaSphere | 4 | 11,3 | 45,2 |
| Hematology Transfusion and Cell Therapy | 1 | 1,5 | 1,5 |
| Hepatobiliary Surgery and Nutrition | 1 | 8,1 | 8,1 |
| Hepatology Communications | 2 | 6 | 12 |
| HIV MEDICINE | 4 | 3,2 | 12,8 |

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| Hormones-International Journal of Endocrinology and Metabolism | 1 | 2,4 | 2,4 |
| Human Vaccines & Immunotherapeutics | 1 | 4,2 | 4,2 |
| Hygiene | 1 | 2,3 | 2,3 |
| IEEE Access | 1 | 4,2 | 4,2 |
| IEEE Journal of Biomedical and Health Informatics | 1 | 7,7 | 7,7 |
| IEEE Open Journal of the Communications Society | 1 | 6,2 | 6,2 |
| IEEE Reviews in Biomedical Engineering | 1 | 16 | 16 |
| IEEE Revista Iberoamericana de Tecnologias del Aprendizaje-IEEE RITA | 1 | 0,9 | 0,9 |
| IEEE TRANSACTIONS ON INFORMATION THEORY | 1 | 2,6 | 2,6 |
| IEEE TRANSACTIONS ON NEURAL SYSTEMS AND REHABILITATION ENGINEERING | 1 | 6,6 | 6,6 |
| IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS | 1 | 5,9 | 5,9 |
| IJC Heart & Vasculature | 1 | 2,9 | 2,9 |
| INDIAN JOURNAL OF MEDICAL RESEARCH | 1 | 2,1 | 2,1 |
| Indian Journal of Orthopaedics | 1 | 1,3 | 1,3 |
| INFECTION | 1 | 3,9 | 3,9 |
| Infectious Agents and Cancer | 1 | 3,2 | 3,2 |
| Infectious Diseases | 1 | 2,5 | 2,5 |
| Infectious Diseases and Therapy | 1 | 5,6 | 5,6 |
| INFLAMMATORY BOWEL DISEASES | 1 | 5,5 | 5,5 |
| Insights into Imaging | 1 | 5,6 | 5,6 |
| INTENSIVE CARE MEDICINE | 2 | 22 | 44 |
| Internal and Emergency Medicine | 1 | 4,1 | 4,1 |
| INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY | 1 | 2,3 | 2,3 |
| INTERNATIONAL CLINICAL PSYCHOPHARMACOLOGY | 1 | 3 | 3 |
| International Journal of Adolescence and Youth | 1 | 2,3 | 2,3 |
| International Journal of Antimicrobial Agents | 2 | 5 | 10 |
| INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS | 1 | 1,6 | 1,6 |
| INTERNATIONAL JOURNAL OF CANCER | 2 | 4,9 | 9,8 |
| International Journal of Cardiology | 5 | 3,3 | 16,5 |
| INTERNATIONAL JOURNAL OF CLINICAL PRACTICE | 1 | 2 | 2 |
| INTERNATIONAL JOURNAL OF DERMATOLOGY | 2 | 4,2 | 8,4 |
| INTERNATIONAL JOURNAL OF GYNECOLOGY & OBSTETRICS | 2 | 2,7 | 5,4 |
| INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH | 3 | 2,5 | 7,5 |
| INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES | 3 | 4,6 | 13,8 |
| International Journal of Integrated Care | 1 | 2,7 | 2,7 |
| International Journal of Mental Health Nursing | 1 | 3,9 | 3,9 |
| INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES | 7 | 5,6 | 39,2 |
| INTERNATIONAL JOURNAL OF OBSTETRIC ANESTHESIA | 1 | 3 | 3 |
| INTERNATIONAL JOURNAL OF SYSTEMATIC AND EVOLUTIONARY MICROBIOLOGY | 1 | 2,3 | 2,3 |
| INTERNATIONAL PSYCHOGERIATRICS | 1 | 6 | 6 |
| INTERNATIONAL REVIEW OF PSYCHIATRY | 1 | 2,3 | 2,3 |
| IRISH JOURNAL OF PSYCHOLOGICAL MEDICINE | 1 | 2,5 | 2,5 |
| iScience | 1 | 4,5 | 4,5 |
| Italian Journal of Pediatrics | 1 | 3,5 | 3,5 |
| JAACAP Open | 1 | 3,1 | 3,1 |
| JACC-Advances | 1 | 5,5 | 5,5 |
| JACC-Cardiovascular Interventions | 1 | 12,7 | 12,7 |
| JACC-Heart Failure | 2 | 11,9 | 23,8 |

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| JACC-Journal of the American College of Cardiology | 1 | 22,3 | 22,3 |
| JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES | 2 | 2,3 | 4,6 |
| JAMA Dermatology | 1 | 10,9 | 10,9 |
| JAMA Network Open | 6 | 11,7 | 70,2 |
| JAMA Oncology | 2 | 23,9 | 47,8 |
| JAMA Psychiatry | 1 | 18 | 18 |
| JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION | 2 | 65,4 | 130,8 |
| JCI Insight | 1 | 6,8 | 6,8 |
| JCO Precision Oncology | 3 | 4,7 | 14,1 |
| JEADV Clinical Practice | 1 | 0,7 | 0,7 |
| JHEP Reports | 7 | 8,7 | 60,9 |
| JMIR Mental Health | 1 | 7,4 | 7,4 |
| JMIR Research Protocols | 1 | 1,6 | 1,6 |
| JMIR Serious Games | 1 | 4,7 | 4,7 |
| JNCI Cancer Spectrum | 1 | 4,8 | 4,8 |
| JNCI-Journal of the National Cancer Institute | 1 | 7,7 | 7,7 |
| JOINT BONE SPINE | 1 | 5 | 5 |
| Journal for ImmunoTherapy of Cancer | 2 | 11,7 | 23,4 |
| Journal of Allergy and Clinical Immunology: Global | 1 | 2,6 | 2,6 |
| Journal of Allergy and Clinical Immunology-In Practice | 4 | 7,2 | 28,8 |
| JOURNAL OF ALZHEIMERS DISEASE | 1 | 3,4 | 3,4 |
| JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY | 7 | 4,1 | 28,7 |
| JOURNAL OF ARTHROPLASTY | 2 | 4,4 | 8,8 |
| JOURNAL OF ASTHMA | 1 | 1,6 | 1,6 |
| JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA | 1 | 2,6 | 2,6 |
| Journal of Cardiovascular Development and Disease | 1 | 2,6 | 2,6 |
| JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY | 2 | 2,4 | 4,8 |
| Journal of Child and Family Studies | 1 | 2,1 | 2,1 |
| Journal of Clinical and Experimental Hepatology | 1 | 3,4 | 3,4 |
| JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM | 4 | 5,4 | 21,6 |
| JOURNAL OF CLINICAL IMMUNOLOGY | 1 | 4,1 | 4,1 |
| Journal of Clinical Medicine | 21 | 3,3 | 69,3 |
| JOURNAL OF CLINICAL MICROBIOLOGY | 1 | 5,9 | 5,9 |
| JOURNAL OF CLINICAL ONCOLOGY | 5 | 44,7 | 223,5 |
| JOURNAL OF CRANIOFACIAL SURGERY | 2 | 1,1 | 2,2 |
| Journal of Crohns & Colitis | 2 | 10,3 | 20,6 |
| JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY | 1 | 5,2 | 5,2 |
| JOURNAL OF ENDOCRINOLOGICAL INVESTIGATION | 3 | 4 | 12 |
| Journal of Fungi | 1 | 4,3 | 4,3 |
| Journal of Geriatric Cardiology | 1 | 3,4 | 3,4 |
| Journal of Geriatric Oncology | 1 | 2,9 | 2,9 |
| Journal of Happiness Studies | 1 | 3,7 | 3,7 |
| JOURNAL OF HEADACHE AND PAIN | 1 | 8,7 | 8,7 |
| JOURNAL OF HEART AND LUNG TRANSPLANTATION | 1 | 6,7 | 6,7 |
| JOURNAL OF HEPATOLOGY | 5 | 40,1 | 200,5 |
| Journal of Hospital Infection | 1 | 3,4 | 3,4 |
| JOURNAL OF INFECTION | 3 | 10 | 30 |
| Journal of Infection and Public Health | 3 | 4,8 | 14,4 |

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| JOURNAL OF INHERITED METABOLIC DISEASE | 1 | 3,8 | 3,8 |
| Journal of International Advanced Otology | 1 | 1 | 1 |
| JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY | 3 | 6,6 | 19,8 |
| JOURNAL OF MEDICAL ECONOMICS | 1 | 3,1 | 3,1 |
| JOURNAL OF MEDICAL INTERNET RESEARCH | 1 | 8,2 | 8,2 |
| JOURNAL OF MEDICAL VIROLOGY | 1 | 3,7 | 3,7 |
| JOURNAL OF MICROBIOLOGICAL METHODS | 1 | 2,5 | 2,5 |
| JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION | 1 | 3,8 | 3,8 |
| Journal of Neurodevelopmental Disorders | 1 | 3,6 | 3,6 |
| Journal of Neuroinflammation | 1 | 11,5 | 11,5 |
| JOURNAL OF NEUROLOGY | 1 | 5,4 | 5,4 |
| JOURNAL OF NEUROLOGY NEUROSURGERY AND PSYCHIATRY | 1 | 7,7 | 7,7 |
| JOURNAL OF NEURO-ONCOLOGY | 1 | 3,4 | 3,4 |
| Journal of Nursing Management | 1 | 4,4 | 4,4 |
| Journal of Nutrition Health & Aging | 1 | 5 | 5 |
| Journal of Orthopaedics and Traumatology | 1 | 4,5 | 4,5 |
| JOURNAL OF PARENTERAL AND ENTERAL NUTRITION | 1 | 3,3 | 3,3 |
| Journal of Patient-Reported Outcomes | 1 | 2,9 | 2,9 |
| JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION | 2 | 3,1 | 6,2 |
| JOURNAL OF PEDIATRIC HEMATOLOGY ONCOLOGY | 1 | 0,9 | 0,9 |
| Journal of Pediatric Nursing-Nursing Care of Children & Families | 1 | 2,6 | 2,6 |
| Journal of Perinatology | 1 | 2,3 | 2,3 |
| Journal of Plastic Reconstructive and Aesthetic Surgery | 2 | 2,4 | 4,8 |
| JOURNAL OF PSYCHIATRIC RESEARCH | 1 | 3,6 | 3,6 |
| JOURNAL OF RHEUMATOLOGY | 2 | 3,7 | 7,4 |
| Journal of Sexual Medicine | 1 | 3,6 | 3,6 |
| Journal of Stroke | 1 | 11 | 11 |
| JOURNAL OF SUPERCOMPUTING | 1 | 3,5 | 3,5 |
| JOURNAL OF THE AMERICAN ACADEMY OF CHILD AND ADOLESCENT PSYCHIATRY | 1 | 9,6 | 9,6 |
| JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY | 3 | 9,2 | 27,6 |
| JOURNAL OF THE NEUROLOGICAL SCIENCES | 2 | 3,1 | 6,2 |
| Journal of the Pediatric Infectious Diseases Society | 2 | 3,3 | 6,6 |
| JOURNAL OF THORACIC AND CARDIOVASCULAR SURGERY | 1 | 4,7 | 4,7 |
| Journal of Thoracic Oncology | 2 | 23,3 | 46,6 |
| JOURNAL OF VIRAL HEPATITIS | 1 | 2,3 | 2,3 |
| Jove-Journal of Visualized Experiments | 1 | 1,2 | 1,2 |
| JPRAS Open | 1 | 1,8 | 1,8 |
| JTCVS Open | 1 | 2,2 | 2,2 |
| JTCVS Techniques | 1 | 2,4 | 2,4 |
| JTO Clinical and Research Reports | 1 | 3,6 | 3,6 |
| KIDNEY INTERNATIONAL | 1 | 21,8 | 21,8 |
| Kidney International Reports | 1 | 6,2 | 6,2 |
| LANCET | 1 | 109 | 109 |
| Lancet Child & Adolescent Health | 2 | 13,4 | 26,8 |
| Lancet HIV | 1 | 14,6 | 14,6 |
| LANCET INFECTIOUS DISEASES | 1 | 29,4 | 29,4 |
| LANCET NEUROLOGY | 1 | 54,6 | 54,6 |
| LANCET ONCOLOGY | 2 | 33,7 | 67,4 |

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| Lancet Regional Health-Europe | 3 | 15,7 | 47,1 |
| Lancet Respiratory Medicine | 1 | 34,7 | 34,7 |
| LEUKEMIA | 3 | 8,8 | 26,4 |
| LEUKEMIA RESEARCH | 1 | 2,4 | 2,4 |
| Life-Basel | 1 | 3,9 | 3,9 |
| LIVER INTERNATIONAL | 6 | 6,2 | 37,2 |
| LUPUS | 1 | 1,8 | 1,8 |
| Lupus Science & Medicine | 2 | 4,2 | 8,4 |
| mBio | 1 | 5,4 | 5,4 |
| MEDICAL MICROBIOLOGY AND IMMUNOLOGY | 1 | 3,1 | 3,1 |
| MEDICAL MYCOLOGY | 1 | 3,5 | 3,5 |
| MEDICAL PHYSICS | 1 | 3,2 | 3,2 |
| Medical Sciences | 1 | 5,9 | 5,9 |
| MEDICINA CLINICA | 9 | 2,8 | 25,2 |
| Medicina de Familia-SEMERGEN | 1 | 1 | 1 |
| Medicina Intensiva | 2 | 2,5 | 5 |
| MEDICINAL RESEARCH REVIEWS | 1 | 13,6 | 13,6 |
| Medicina-Lithuania | 1 | 2,9 | 2,9 |
| MELANOMA RESEARCH | 1 | 1,8 | 1,8 |
| MICROBES AND INFECTION | 1 | 2,9 | 2,9 |
| Microbiology Spectrum | 4 | 4,1 | 16,4 |
| Microorganisms | 1 | 4,7 | 4,7 |
| Minerva Anestesiologica | 2 | 3,5 | 7 |
| Minerva Endocrinology | 1 | 2,3 | 2,3 |
| Minerva Surgery | 1 | 1,3 | 1,3 |
| MODERN PATHOLOGY | 1 | 6,6 | 6,6 |
| MOLECULAR BIOLOGY REPORTS | 1 | 3,2 | 3,2 |
| MOLECULAR CANCER THERAPEUTICS | 1 | 6,9 | 6,9 |
| MOLECULAR PSYCHIATRY | 2 | 10,4 | 20,8 |
| Multiple Sclerosis and Related Disorders | 1 | 3 | 3 |
| Multiple Sclerosis Journal-Experimental Translational and Clinical | 1 | 2 | 2 |
| MYCOSES | 1 | 3,4 | 3,4 |
| Nature Communications | 4 | 18,1 | 72,4 |
| Nature Mental Health | 1 | 9,3 | 9,3 |
| NATURE METHODS | 3 | 28,3 | 84,9 |
| NEFROLOGIA | 6 | 2,1 | 12,6 |
| Neonatology | 1 | 3,8 | 3,8 |
| NEOPLASIA | 1 | 4,8 | 4,8 |
| NEUROBIOLOGY OF DISEASE | 1 | 6 | 6 |
| NEUROCIRUGIA | 2 | 0,7 | 1,4 |
| NEUROLOGIA | 1 | 2,8 | 2,8 |
| NEUROLOGICAL SCIENCES | 1 | 2,7 | 2,7 |
| Neurology and Therapy | 1 | 4,7 | 4,7 |
| Neurology-Neuroimmunology & Neuroinflammation | 2 | 8 | 16 |
| Neuropsychiatric Disease and Treatment | 1 | 3,2 | 3,2 |
| NEURORADIOLOGY | 1 | 2,8 | 2,8 |
| NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS | 1 | 8,5 | 8,5 |
| NEW ENGLAND JOURNAL OF MEDICINE | 3 | 84,5 | 253,5 |

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| npj Antimicrobials and Resistance | 1 | 13,6 | 13,6 |
| npj Breast Cancer | 2 | 8,4 | 16,8 |
| NURSING ETHICS | 1 | 3,8 | 3,8 |
| Nursing Open | 1 | 3,1 | 3,1 |
| Nursing Reports | 3 | 3,1 | 9,3 |
| Nutrients | 4 | 5,8 | 23,2 |
| NUTRITION IN CLINICAL PRACTICE | 1 | 2,7 | 2,7 |
| Obesity Facts | 1 | 4,1 | 4,1 |
| OCULAR IMMUNOLOGY AND INFLAMMATION | 1 | 1,7 | 1,7 |
| OncoImmunology | 1 | 6,2 | 6,2 |
| ONCOLOGIST | 4 | 4,7 | 18,8 |
| Oncology and Therapy | 1 | 3,4 | 3,4 |
| Open Forum Infectious Diseases | 5 | 3,8 | 19 |
| Open Heart | 4 | 3,1 | 12,4 |
| Orphanet Journal of Rare Diseases | 2 | 3,6 | 7,2 |
| Orthopaedic Journal of Sports Medicine | 1 | 2,9 | 2,9 |
| OTOLOGY & NEUROTOLOGY | 1 | 1,7 | 1,7 |
| Pain Management | 1 | 1,7 | 1,7 |
| Pain Physician | 1 | 3,2 | 3,2 |
| PATHOBIOLOGY | 1 | 1,7 | 1,7 |
| Pathogens and Global Health | 1 | 3,4 | 3,4 |
| PATHOLOGY | 1 | 3,9 | 3,9 |
| PATHOPHYSIOLOGY | 1 | 3,5 | 3,5 |
| Patient Preference and Adherence | 1 | 2,6 | 2,6 |
| PEDIATRIC ALLERGY AND IMMUNOLOGY | 1 | 4,5 | 4,5 |
| PEDIATRIC AND DEVELOPMENTAL PATHOLOGY | 1 | 1,1 | 1,1 |
| PEDIATRIC CARDIOLOGY | 1 | 1,3 | 1,3 |
| Pediatric Critical Care Medicine | 4 | 4,9 | 19,6 |
| PEDIATRIC DERMATOLOGY | 1 | 1,2 | 1,2 |
| PEDIATRIC EMERGENCY CARE | 1 | 1,1 | 1,1 |
| PEDIATRIC INFECTIOUS DISEASE JOURNAL | 6 | 2,3 | 13,8 |
| PEDIATRIC PULMONOLOGY | 2 | 2,4 | 4,8 |
| PEDIATRIC RESEARCH | 1 | 3,3 | 3,3 |
| Pediatric Rheumatology | 4 | 2,3 | 9,2 |
| PERSONALITY AND INDIVIDUAL DIFFERENCES | 1 | 2,8 | 2,8 |
| PHARMACEUTICAL BIOLOGY | 1 | 6 | 6 |
| Pharmaceuticals | 1 | 5,7 | 5,7 |
| Pharmaceutics | 1 | 6,9 | 6,9 |
| Pharmacoeconomics-Open | 1 | 2,4 | 2,4 |
| Physica Medica-European Journal of Medical Physics | 1 | 2,7 | 2,7 |
| PHYSICS IN MEDICINE AND BIOLOGY | 1 | 3,1 | 3,1 |
| Physiological Reports | 2 | 2,1 | 4,2 |
| Pituitary | 2 | 3,8 | 7,6 |
| PLACENTA | 3 | 3,1 | 9,3 |
| Plastic and Reconstructive Surgery-Global Open | 1 | 1,9 | 1,9 |
| PLoS One | 5 | 2,8 | 14 |
| Pneumonia | 1 | 3,8 | 3,8 |
| Polish Heart Journal-Kardiologia Polska | 1 | 7,4 | 7,4 |

| | | | |
|---|---|---|---|
| PRACTICAL NEUROLOGY | 1 | 2,5 | 2,5 |
| PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA | 1 | 9,5 | 9,5 |
| PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY | 1 | 4,2 | 4,2 |
| PSICOTHEMA | 1 | 4,1 | 4,1 |
| PSYCHIATRY RESEARCH | 3 | 5,1 | 15,3 |
| PSYCHOLOGICAL MEDICINE | 3 | 5,2 | 15,6 |
| Psychology Research and Behavior Management | 1 | 4,5 | 4,5 |
| PSYCHONEUROENDOCRINOLOGY | 1 | 3,4 | 3,4 |
| Quantitative Imaging in Medicine and Surgery | 1 | 2,8 | 2,8 |
| RADIOLOGIA | 1 | 1,5 | 1,5 |
| REC-Interventional Cardiology | 3 | 1,5 | 4,5 |
| Rehabilitacion | 2 | 0,6 | 1,2 |
| Reports of Practical Oncology and Radiotherapy | 1 | 1,7 | 1,7 |
| Research on Child and Adolescent Psychopathology | 1 | 2,7 | 2,7 |
| RESPIRATION | 1 | 2,6 | 2,6 |
| RESPIRATORY MEDICINE | 1 | 3,3 | 3,3 |
| RESUSCITATION | 4 | 6 | 24 |
| Resuscitation Plus | 6 | 3,1 | 18,6 |
| Reumatologia Clinica | 2 | 1,5 | 3 |
| Reviews in Cardiovascular Medicine | 2 | 2,2 | 4,4 |
| REVIEWS IN ENDOCRINE & METABOLIC DISORDERS | 1 | 8,7 | 8,7 |
| REVISTA ARGENTINA DE MICROBIOLOGIA | 1 | 2,4 | 2,4 |
| REVISTA CLINICA ESPANOLA | 5 | 1,7 | 8,5 |
| Revista De Historia De La Psicologia | 1 | 0,2 | 0,2 |
| Revista de Investigacion en Logopedia | 1 | 0,4 | 0,4 |
| Revista de Osteoporosis y Metabolismo Mineral | 1 | 0,1 | 0,1 |
| Revista Espanola de Anestesiologia y Reanimacion | 7 | 1,3 | 9,1 |
| REVISTA ESPANOLA DE CARDIOLOGIA | 15 | 4,2 | 63 |
| REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS | 4 | 4,8 | 19,2 |
| Revista Espanola de Medicina Nuclear e Imagen Molecular | 1 | 1,2 | 1,2 |
| Revista Espanola de Patologia | 1 | 0,6 | 0,6 |
| Revista Espanola de Quimioterapia | 7 | 2,8 | 19,6 |
| REVISTA IBEROAMERICANA DE MICOLOGIA | 1 | 1,4 | 1,4 |
| Revista Latino-Americana de Enfermagem | 3 | 0,9 | 2,7 |
| RHEUMATOLOGY | 3 | 4,7 | 14,1 |
| Rheumatology Advances in Practice | 2 | 2,8 | 5,6 |
| RHEUMATOLOGY INTERNATIONAL | 2 | 3,5 | 7 |
| RMD Open | 1 | 5,3 | 5,3 |
| Salud Arte y Cuidado | 2 | 0,1 | 0,2 |
| SALUD PUBLICA DE MEXICO | 1 | 3,9 | 3,9 |
| SAMJ SOUTH AFRICAN MEDICAL JOURNAL | 2 | 1,4 | 2,8 |
| SCANDINAVIAN JOURNAL OF MEDICINE & SCIENCE IN SPORTS | 1 | 4 | 4 |
| Schizophrenia | 12 | 4,5 | 54 |
| SCHIZOPHRENIA BULLETIN | 3 | 5,7 | 17,1 |
| Schizophrenia Bulletin Open | 2 | 2,4 | 4,8 |
| Schizophrenia Research | 1 | 3,7 | 3,7 |
| Sci | 1 | 4,1 | 4,1 |
| Science Advances | 1 | 13,9 | 13,9 |

| | | | |
|---|---|---|---|
| Scientific Data | 1 | 7,2 | 7,2 |
| Scientific Reports | 17 | 4,9 | 83,3 |
| SEIZURE-EUROPEAN JOURNAL OF EPILEPSY | 1 | 3,1 | 3,1 |
| SEMINARS IN ARTHRITIS AND RHEUMATISM | 4 | 3,8 | 15,2 |
| SEMINARS IN HEMATOLOGY | 1 | 4,3 | 4,3 |
| SLEEP MEDICINE | 2 | 4,1 | 8,2 |
| SLEEP MEDICINE REVIEWS | 1 | 11,6 | 11,6 |
| Smart Cities | 1 | 6,6 | 6,6 |
| Social Sciences-Basel | 2 | 2 | 4 |
| Spanish Journal Of Psychiatry And Mental Health | 3 | 2,6 | 7,8 |
| SSM-Qualitative Research in Health | 1 | 2,5 | 2,5 |
| STATISTICS AND COMPUTING | 1 | 1,8 | 1,8 |
| SUPPORTIVE CARE IN CANCER | 1 | 3,4 | 3,4 |
| SURGERY | 2 | 3,2 | 6,4 |
| SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES | 1 | 3,3 | 3,3 |
| SURGICAL ONCOLOGY-OXFORD | 1 | 2,1 | 2,1 |
| Targeted Oncology | 2 | 5,1 | 10,2 |
| Teaching and Learning in Nursing | 1 | 2,5 | 2,5 |
| Therapeutic Advances in Cardiovascular Disease | 1 | 3,3 | 3,3 |
| Therapeutic Advances in Drug Safety | 1 | 3,3 | 3,3 |
| Therapeutic Advances in Gastroenterology | 3 | 3,8 | 11,4 |
| Therapeutic Advances in Hematology | 1 | 2,8 | 2,8 |
| Therapeutic Advances in Pulmonary and Critical Care Medicine | 1 | 4,4 | 4,4 |
| Therapeutic Advances in Respiratory Disease | 1 | 3,2 | 3,2 |
| Therapeutics and Clinical Risk Management | 1 | 2,6 | 2,6 |
| THORACIC AND CARDIOVASCULAR SURGEON | 1 | 1,5 | 1,5 |
| THROMBOSIS AND HAEMOSTASIS | 1 | 5,2 | 5,2 |
| THROMBOSIS RESEARCH | 3 | 3,4 | 10,2 |
| Tobacco Prevention & Cessation | 1 | 2,3 | 2,3 |
| Translational Lung Cancer Research | 1 | 3,4 | 3,4 |
| Translational Psychiatry | 2 | 7,5 | 15 |
| Translational Research | 1 | 6,1 | 6,1 |
| Translational Vision Science & Technology | 1 | 2,7 | 2,7 |
| TRANSPLANT INTERNATIONAL | 5 | 3,6 | 18 |
| TRANSPLANTATION | 4 | 4,9 | 19,6 |
| TRANSPLANTATION PROCEEDINGS | 1 | 0,8 | 0,8 |
| Transplantation Reviews | 1 | 3,2 | 3,2 |
| Tropical Medicine and Infectious Disease | 1 | 3,1 | 3,1 |
| ULTRASOUND IN OBSTETRICS & GYNECOLOGY | 2 | 5,3 | 10,6 |
| United European Gastroenterology Journal | 3 | 6,4 | 19,2 |
| Updates in Surgery | 1 | 2,2 | 2,2 |
| VACCINE | 1 | 3,4 | 3,4 |
| Vaccines | 3 | 3,5 | 10,5 |
| VIRCHOWS ARCHIV | 2 | 3 | 6 |
| Viruses-Basel | 3 | 3,8 | 11,4 |
| World Journal for Pediatric and Congenital Heart Surgery | 1 | 0,9 | 0,9 |
| World Journal of Clinical Oncology | 1 | 3,6 | 3,6 |
| World Psychiatry | 1 | 79,5 | 79,5 |

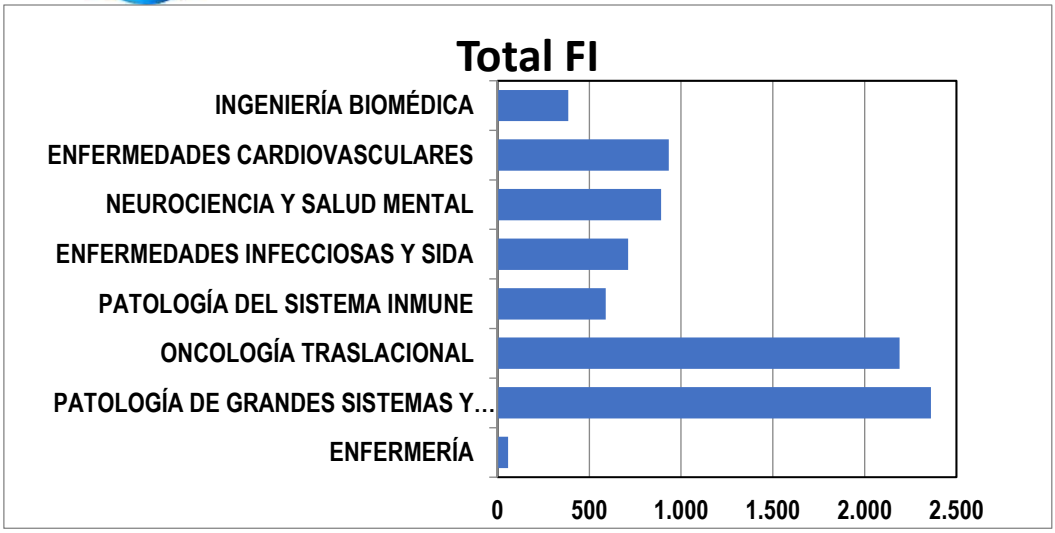
| Total general | | | 1260 | 109 | 8170 |
|---|---|---|---|---|---|

A summary of publications by research group is shown below:

| | | | Own Publications | Shared Publications (with IF) | 1D Publications | 1Q Publications | 2Q Publications | 3Q Publications | 4Q Publications | Not indexed Publications (without IF) | TOTAL (without IF included) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.01 | Advanced Technological Applications and Human Health | Nº | 6 | 7 | 7 | 12 | 1 | 0 | 0 | 1 | 14 |
| | | FI | 54,1 | 59,9 | 81,8 | 110,6 | 3,4 | 0,0 | 0,0 | | 114,0 |
| 1.02 | Signal Processing | Nº | 5 | 4 | 4 | 7 | 1 | 1 | 0 | 2 | 11 |
| | | FI | 27,8 | 21,6 | 32,3 | 45,5 | 1,8 | 2,1 | 0,0 | | 49,4 |
| 1.03 | Computer Architecture, Communications and Systems. ARCOS | Nº | 9 | 1 | 3 | 8 | 1 | 0 | 1 | 0 | 10 |
| | | FI | 52,2 | 5,9 | 25,0 | 53,7 | 3,5 | 0,0 | 0,9 | | 58,1 |
| 1.05 | Structural and Functional Medical Imaging | Nº | 3 | 4 | 1 | 3 | 3 | 1 | 0 | 2 | 9 |
| | | FI | 8,1 | 27,9 | 18,1 | 24,7 | 9,8 | 1,5 | 0,0 | | 36,0 |
| 1.06 | Biomedical Engineering Applications | Nº | 7 | 6 | 7 | 9 | 4 | 0 | 0 | 1 | 14 |
| | | FI | 66,0 | 83,3 | 123,0 | 134,1 | 15,2 | 0,0 | 0,0 | | 149,3 |
| 2.01 | Natural History of Heart Disease | Nº | 28 | 49 | 19 | 36 | 25 | 13 | 3 | 5 | 82 |
| | | FI | 145,7 | 426,5 | 372,5 | 454,4 | 92,4 | 23,3 | 2,1 | | 572,2 |
| 2.02 | Cardiovascular Pathophysiology | Nº | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 |
| | | FI | 1,9 | 0,0 | - | 0,0 | 0,0 | 1,9 | 0,0 | | 1,9 |
| 2.03 | Cellular Cardiac Electrophysiology | Nº | 4 | 5 | 7 | 8 | 1 | 0 | 0 | 1 | 10 |
| | | FI | 28,4 | 112,4 | 133,7 | 137,0 | 3,8 | 0,0 | 0,0 | | 140,8 |
| 2.05 | Pediatric Cardiology and Heart Transplantation | Nº | 5 | 10 | 3 | 8 | 3 | 2 | 2 | 1 | 16 |
| | | FI | 10,3 | 50,0 | 27,2 | 47,2 | 8,7 | 2,8 | 1,6 | | 60,3 |
| 2.06 | Blood Lipids and Cardiovascular Risk | Nº | 13 | 11 | 4 | 16 | 6 | 1 | 1 | 3 | 27 |
| | | FI | 51,2 | 98,3 | 77,1 | 130,2 | 16,4 | 2,5 | 0,4 | | 149,5 |
| 2.07 | Acute Cerebral Ischemia. Stroke | Nº | 3 | 3 | 1 | 3 | 2 | 1 | 0 | 0 | 6 |
| | | FI | 8,3 | 20,3 | 11,0 | 18,9 | 7,0 | 2,7 | 0,0 | | 28,6 |
| 3.01 | Neurobiological and Psychological Bases of Mental Disorders. Neurodevelopmental Disorders | Nº | 33 | 79 | 44 | 83 | 20 | 7 | 2 | 7 | 119 |
| | | FI | 174,4 | 478,2 | 401,2 | 571,3 | 64,3 | 16,7 | 0,3 | | 652,6 |
| 3.03B | Neurological Diseases | Nº | 7 | 34 | 10 | 23 | 12 | 3 | 3 | 4 | 45 |
| | | FI | 17,3 | 225,5 | 131,0 | 196,3 | 37,7 | 6,2 | 2,6 | | 242,8 |
| 4.01 | Clinical Microbiology and Infectious Diseases | Nº | 41 | 62 | 24 | 59 | 29 | 15 | 0 | 8 | 111 |
| | | FI | 202,6 | 357,1 | 262,5 | 423,4 | 101,3 | 35,0 | 0,0 | | 559,7 |
| 4.02 | Clinical and Epidemiological Aspects of HIV and Associated Conditions | Nº | 7 | 26 | 8 | 18 | 11 | 4 | 0 | 1 | 34 |
| | | FI | 41,0 | 131,4 | 74,9 | 126,8 | 35,7 | 9,9 | 0,0 | | 172,4 |
| 5.01 | Pathophysiology and Clinical Research of Chronic Immunological and Inflammatory Diseases | Nº | 6 | 7 | 2 | 8 | 3 | 2 | 0 | 2 | 15 |
| | | FI | 33,6 | 43,2 | 20,4 | 61,5 | 10,4 | 4,9 | 0,0 | | 76,8 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 5.02 | Molecular Biology of HIV | Nº | 2 | 3 | 2 | 4 | 0 | 1 | 0 | 1 | 6 |
| | | FI | 11,8 | 26,4 | 22,3 | 35,1 | 0,0 | 3,1 | 0,0 | | 38,2 |
| 5.03 | Systemic Autoimmune Diseases | Nº | 8 | 29 | 3 | 18 | 16 | 3 | 0 | 0 | 37 |
| | | FI | 29,3 | 134,3 | 37,4 | 108,6 | 50,2 | 4,8 | 0,0 | | 163,6 |
| 5.05 | Pathogenesis of the Immunoallergic Response | Nº | 7 | 11 | 10 | 14 | 2 | 2 | 0 | 0 | 18 |
| | | FI | 26,1 | 98,7 | 90,0 | 113,9 | 6,0 | 4,9 | 0,0 | | 124,8 |
| 5.06 | Immune Regulation and Homeostasis in Pathologies Related to the Immune System | Nº | 3 | 5 | 3 | 8 | 0 | 0 | 0 | 1 | 9 |
| | | FI | 14,3 | 33,9 | 22,5 | 48,2 | 0,0 | 0,0 | 0,0 | | 48,2 |
| 5.07 | Infections in the Pediatric Population | Nº | 19 | 21 | 5 | 19 | 13 | 8 | 0 | 5 | 45 |
| | | FI | 54,9 | 107,6 | 63,8 | 117,9 | 31,4 | 13,2 | 0,0 | | 162,5 |
| 6.01 | Interdisciplinary and Biotechnological Oncology | Nº | 4 | 12 | 3 | 5 | 6 | 4 | 1 | 4 | 20 |
| | | FI | 7,2 | 78,2 | 42,0 | 52,5 | 25,0 | 6,7 | 1,2 | | 85,4 |
| 6.02 | Translational Medical Oncology and Individualized Cancer Therapy | Nº | 37 | 72 | 30 | 53 | 34 | 19 | 3 | 1 | 110 |
| | | FI | 290,9 | 1320,5 | 1235,2 | 1421,4 | 135,2 | 49,7 | 5,1 | | 1611,4 |
| 6.03 | Genetics and Clinical Management of Hematological Neoplasms and Hematopoietic Transplantation | Nº | 14 | 53 | 17 | 42 | 16 | 7 | 2 | 1 | 68 |
| | | FI | 66,2 | 419,2 | 266,2 | 414,7 | 55,2 | 13,4 | 2,1 | | 485,4 |
| 6.04 | Surgical Oncology | Nº | 0 | 4 | 1 | 1 | 3 | 0 | 0 | 0 | 4 |
| | | FI | 0,0 | 26,1 | 11,7 | 11,7 | 14,4 | 0,0 | 0,0 | | 26,1 |
| 7.01 | Inflammation and Vascular Damage in Chronic Kidney Disease, Dialysis and Kidney Transplantation. Renal Pathophysiology | Nº | 3 | 12 | 2 | 8 | 1 | 6 | 0 | 2 | 17 |
| | | FI | 13,7 | 51,6 | 15,8 | 47,5 | 6,0 | 11,8 | 0,0 | | 65,3 |
| 7.02 | Pathophysiology and Natural History of Hepatic and Gastroenterological Diseases | Nº | 17 | 61 | 25 | 59 | 10 | 9 | 0 | 0 | 78 |
| | | FI | 113,8 | 679,5 | 562,7 | 742,7 | 33,0 | 17,6 | 0,0 | | 793,3 |
| 7.04 | Pathology of the Critically Ill Child | Nº | 14 | 21 | 12 | 21 | 9 | 5 | 0 | 3 | 38 |
| | | FI | 49,6 | 141,5 | 120,4 | 154,5 | 27,1 | 9,5 | 0,0 | | 191,1 |
| 7.05B | Physiological and Medical-Surgical Therapeutic Aspects of Respiratory Diseases | Nº | 25 | 20 | 9 | 23 | 15 | 5 | 2 | 17 | 62 |
| | | FI | 114,0 | 84,0 | 82,2 | 138,4 | 49,3 | 8,6 | 1,7 | | 198,0 |
| 7.06 | Regenerative Medicine in Plastic Surgery | Nº | 2 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 3 |
| | | FI | 6,0 | 1,8 | - | 0,0 | 7,8 | 0,0 | 0,0 | | 7,8 |
| 7.07 | Experimental Kidney Transplantation | Nº | 3 | 14 | 0 | 7 | 5 | 5 | 0 | 0 | 17 |
| | | FI | 6,4 | 44,4 | - | 29,2 | 12,8 | 8,8 | 0,0 | | 50,8 |
| 7.10 | Regeneration and Biomaterials in Musculoskeletal Pathology | Nº | 4 | 13 | 4 | 12 | 4 | 1 | 0 | 4 | 21 |
| | | FI | 15,1 | 57,5 | 20,8 | 55,1 | 16,2 | 1,3 | 0,0 | | 72,6 |
| 7.12 | Emergency Medicine | Nº | 2 | 3 | 1 | 1 | 2 | 2 | 0 | 0 | 5 |
| | | FI | 3,6 | 13,7 | 8,1 | 8,1 | 5,3 | 3,9 | 0,0 | | 17,3 |
| 7.16B | Pathophysiology of the Cardiovascular System and Circulatory Support | Nº | 3 | 15 | 3 | 7 | 3 | 3 | 5 | 2 | 20 |
| | | FI | 11,2 | 51,7 | 26,9 | 44,3 | 10,2 | 6,9 | 1,5 | | 62,9 |
| 7.18 | Peri-Liver-Transplant Evaluation | Nº | 1 | 6 | 3 | 4 | 3 | 0 | 0 | 2 | 9 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FI | 2,4 | 89,4 | 80,6 | 83,4 | 8,4 | 0,0 | 0,0 | | 91,8 |
| 7.19 | Perianesthetic Evaluation | Nº | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 2 |
| | | FI | 1,3 | 5,4 | - | 5,4 | 0,0 | 1,3 | 0,0 | | 6,7 |
| 7.20 | Anesthesia, Toxins and Arrhythmias | Nº | 2 | 2 | 0 | 1 | 1 | 2 | 0 | 2 | 6 |
| | | FI | 4,6 | 4,6 | - | 3,3 | 2,1 | 3,8 | 0,0 | | 9,2 |
| 7.21 | Biopathology of Aging | Nº | 1 | 6 | 1 | 3 | 2 | 2 | 0 | 2 | 9 |
| | | FI | 4,0 | 31,5 | 9,5 | 20,9 | 8,6 | 6,0 | 0,0 | | 35,5 |
| 7.22 | Neonatal and Developmental Pathophysiology | Nº | 11 | 16 | 3 | 16 | 8 | 1 | 2 | 5 | 32 |
| | | FI | 29,9 | 77,4 | 45,2 | 86,7 | 17,6 | 2,2 | 0,8 | | 107,3 |
| 7.26 | Health Services Evaluation and Clinical Epidemiology | Nº | 0 | 4 | 0 | 1 | 2 | 1 | 0 | 1 | 5 |
| | | FI | 0,0 | 14,0 | - | 5,4 | 5,8 | 2,8 | 0,0 | | 14,0 |
| 7.27 | Hospital Pharmacy and Pharmacogenomics | Nº | 9 | 25 | 5 | 20 | 5 | 9 | 0 | 0 | 34 |
| | | FI | 37,2 | 98,2 | 31,9 | 105,8 | 14,7 | 14,9 | 0,0 | | 135,4 |
| 7.28 | Clinical Nutrition | Nº | 4 | 32 | 7 | 18 | 10 | 8 | 0 | 4 | 40 |
| | | FI | 12,4 | 146,4 | 50,3 | 105,4 | 36,9 | 16,5 | 0,0 | | 158,8 |
| 7.29 | Vascular Pharmacology and Pathophysiology | Nº | 4 | 2 | 2 | 4 | 2 | 0 | 0 | 0 | 6 |
| | | FI | 26,6 | 11,3 | 20,0 | 30,6 | 7,3 | 0,0 | 0,0 | | 37,9 |
| 7.31 | Pathophysiology of Women, Pregnancy, Childbirth and Puerperium | Nº | 15 | 4 | 3 | 12 | 3 | 3 | 1 | 1 | 20 |
| | | FI | 51,1 | 16,7 | 17,2 | 53,6 | 8,4 | 4,9 | 0,9 | | 67,8 |
| 7.32 | Physical Medicine and Rehabilitation | Nº | 1 | 3 | 0 | 0 | 1 | 1 | 2 | 0 | 4 |
| | | FI | 0,6 | 6,8 | - | 0,0 | 4,1 | 2,1 | 1,2 | | 7,4 |
| 7.33 | Pathological Anatomy | Nº | 3 | 14 | 2 | 8 | 4 | 4 | 1 | 1 | 18 |
| | | FI | 9,0 | 75,7 | 32,7 | 62,1 | 15,6 | 6,4 | 0,6 | | 84,7 |
| 7.34 | Multimorbidity, Chronic Diseases and Health Services. Primary Care | Nº | 14 | 7 | 3 | 10 | 10 | 1 | 0 | 0 | 21 |
| | | FI | 43,7 | 29,4 | 21,3 | 49,2 | 21,1 | 2,8 | 0,0 | | 73,1 |
| 7.35 | Translational Dermatology: Research and Innovation | Nº | 16 | 21 | 5 | 11 | 12 | 13 | 1 | 3 | 40 |
| | | FI | 47,8 | 120,9 | 83,2 | 109,2 | 35,4 | 23,4 | 0,7 | | 168,7 |
| 7.36 | Translational Research and Biotechnology in Head and Neck Surgery | Nº | 17 | 7 | 0 | 10 | 6 | 7 | 1 | 3 | 27 |
| | | FI | 36,9 | 21,8 | - | 31,4 | 18,3 | 8,1 | 0,9 | | 58,7 |
| 8.01 | Nursing | Nº | 13 | 8 | 1 | 13 | 1 | 4 | 3 | 1 | 22 |
| | | FI | 33,3 | 24,2 | 3,9 | 46,5 | 2,7 | 5,6 | 2,7 | | 57,5 |
| 9.50 | Associated Clinical Researchers | Nº | 104 | 213 | 46 | 155 | 90 | 59 | 13 | 39 | 356 |
| | | FI | 348,8 | 1096,1 | 539,5 | 1031,7 | 289,9 | 115,2 | 8,1 | | 1444,9 |




# 4.13 Training: courses, seminars and meetings

Following the pandemic, training activities have undergone a process of transformation to online or hybrid formats. For example, the weekly seminars have been mixed (in person and online) in the 2025 year.

During 2025, the IiSGM Training Committee continued working along the same lines as in previous years to detect specific needs in training. These can be seen in the last Training Plan (https://www.iisgm.com/formacion/)

The Continuing Training Committee of the Health Care Professions of the Autonomous Community of Madrid mostly certifies the training activities offered by IiSGM.

As stated in the Training Plan, during the year 2025, the IiSGM intended to offer the following training opportunities among those periodically organized by the Institute (see Figure):

- Course in Biomedical Research Methodology, which is organized mixed format (presential and online) 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 all areas from the initial research hypothesis to publication of results. This course is aimed mainly at residents (obligatory) and staff members who are in different stages of their research career.

- 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. The course is practical in nature and addresses various surgical and microsurgical techniques. 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 Weekly Research Seminars Program is continuing, with sessions every Wednesday of the year covering areas of basic research, 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.

The programme for the 2025 IiSGM "Alberto Tejedor" Seminar Series is available on the IiSGM website: https://www.iisgm.com/formacion/seminarios/

In 2025, the IiSGM held its 12th Research and Innovation Conference, the main aim of which is to present the IiSGM's scientific and economic findings and to recognise the research work carried out by its researchers, whilst providing a shared forum for exchanging experiences and/or the results of research and innovation undertaken within the Institute, both with the research community and with the general public.

## 4.14 Clinical Practice Guidelines

| *Group* | *Authors* | *Title* | *Journal / Reference* |
|---|---|---|---|
| 201 | González-Vílchez F, Almenar-Bonet L, Gómez-Bueno M, Crespo-Leiro MG, Cobo-Belaustegui M, Crespín-Crespín M, Ortiz-Bautista C, Delgado-Jiménez JF, de Antonio-Ferrer M, Sobrino-Márquez JM; Spanish Heart Transplant Teams; et al. | Spanish heart transplant registry. 36th official report of the Heart Failure Association of the Spanish Society of Cardiology. | **Rev Esp Cardiol** ISSN: 1885-5857 |
| 201 | Grupo de Trabajo sobre el manejo de las valvulopatías de la Sociedad Europea de Cardiología (ESC) y la European Association for Cardio-Thoracic Surgery (EACTS). Javier Bermejo Thomas (revisor representante de la Sociedad Española de Cardiología) | 2025 ESC/EACTS Guidelines for the management of valvular heart disease | **European Heart Journal** 2025 Nov 21;46(44):4635-4736. doi: 10.1093/eurheartj/ehaf194. |
| 206 | Aurora Villalobos, Reina Valle, Javier Pagán-Escribano, María Ortiz, Pablo Demelo Rodríguez, Carme Font | 2024 Spanish Society of Internal Medicine (SEMI) recommendations for the management of cancer-associated venous thromboembolism | **Revista Clínica Española** DOI: 10.1016/j.rceng.2024.10.007 |
| 206 | Ordieres Ortega L, Modesto Dos Santos JL, Parra Caballero P, Soriano Sánchez T, Sánchez Del Hoyo C, Coloma Bazán E, Anta Fernández M, Martín Del Pozo M. | Executive summary of the consensus document on home care treatment of pulmonary embolism. | **Revista Clínica Española** doi: 10.1016/j.rceng.2025.502280 |
| 301 | Calvo, Ana; Rapado Castro, Marta, Moreno, Carmen, Mayoral, María | Psychoeducational intervention | **Guía de manejo psicoterapéutico de personas con psicosis** Rapado-Castro, M., Moreno, C. y Mayoral, M. (2025). Guía de manejo psicoterapéutico de personas con psicosis. Madrid: Centro de Investigación Biomédica en Red (CIBER). |
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| 727 | Alicia Herrero Ambrosio, Cristian Rosas Espinoza, Jaime Feliú Batle, Javier Letéllez Fernández, Jose Miguel Ferrari Piquero, Juan Antonio Guerra Martínez, Juan Carlos Cámara Vicario, Luis Paz-Ares Rodríguez, Miguel Martín Jiménez, Montserrat Pérez Encinas, Pilar Garrido López, Raquel Moreno Díaz, Vanesa Alonso Castro, Vicente Escudero Vilaplana | Recommendations document for the optimization of immunotherapy dosing. Version 2 | **Consejería de Sanidad, Comunidad de Madrid** Madrid: Consejería de Sanidad, Servicio Madrileño de Salud; Mayo 2025. Available at: https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx |
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| 735 | M.E. Gatica-Ortega, B. Sánchez-Albisua, D.M. Arranz-Sánchez, B. Pérez-Tato, A. Sánchez-Gilo, S. Córdoba-Guijarro, F.J. Ortiz-Frutos, N. Hernández-Cano, E. Gómez de la Fuente, M. Elosua-González, M. Bergón-Sendín, C. García-Martín, T. Sanz-Sánchez, O. Mazuela-Díez, R. Torres-Aranda, L. Vergara-de-la-Campa, S. Marinero-Escobedo, A. Alegre-Bailo, A. Garrido-Ríos, F. Tous-Romero, J.M. Busto-Leis, C. Sarró-Fuente, F.J. Rodríguez-Cuadrado, P. García-Piqueras, P. Beneyto, M.A. Pastor-Nieto | Erythema, localized edema, and warmth versus increased forearm circumference. Has the time come to review the consensus recommendations for the vortex provocation test in vibratory urticaria-angioedema? | **Actas Dermosifiliogr** 2025;116:T357-T364. 10.1016/j.ad.2025.02.010 |
| 735 | Grupo de trabajo para el manejo de enfermedades transmitidas por garrapatas (Ana Pulido Pérez, miembro del grupo de trabajo ETGs) | Ministry of Health. National Plan for the Prevention, Surveillance, and Control of Vector-Borne Diseases. Clinical Management Guide for Vector-Borne Diseases. March 2026. | **Plan Nacional de Prevención, Vigilancia y Control de Enfermedades Transmitidas por Vectores, Ministerio de Sanidad** |
| 735 | E. Baselga, J. Bernabeu-Wittel, I. Betlloch Mas, M. Campos Domínguez, A. Carrasco Sanz, J. del Boz, R. de Lucas Laguna, J. del Pozo Losada, A. Hernández Martín, L. Jiménez Montañés, J.C. López Gutiérrez, A. Martín-Santiago, P. Redondo, A. Torrelo Fernández, A. Vicente Villa | Update of the Spanish consensus document on infantile hemangioma | **Actas Dermosifiliogr** 2025;116:T837-T848. 10.1016/j.ad.2025.06.017 |

# 4.15 Doctoral theses defended

| Group | Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|---|
| 101 | Ph thesis | Albaladejo García, Virginia | Evaluation of goat milk exosomes as natural platforms for controlled release of curcumin | Salinas Rodríguez, Beatriz | UC3M | 09/01/2025 |
| 101 | Ph thesis | Matesanz Fernández-Arias, Ana | Innovative, non-invasive, and real-time oxygen sensing method for tissue engineering | Jorcano Noval, José Luis; Acedo Gallardo, Pablo | UC3M | 21/02/2025 |
| 101 | Ph thesis | González-Rico Iriarte, Jorge | Manufacturing, Mechanical Characterization and Modelling of Magneto-Active Hydrogels for Mechano-Biological Stimulation | García González, Daniel; Velasco Bayón, Diego | UC3M | 14/03/2025 |
| 101 | Ph thesis | Risueño Rojo, Ignacio | Generation of a three-dimensional skin model based on a fibrin gel in a dynamic skin-on-a-chip platform | Velasco Bayón, Diego; Valencia Blanco, Leticia | UC3M | 04/04/2025 |
| 101 | Ph thesis | Llorente Úbeda, Vicente | Advanced optical tissue clearing and 3-dimensional microscopy techniques for biomedical research | Gómez Gaviro, Mª Victoria; Desco Menéndez, Manuel | UC3M | 01/07/2025 |
| 102 | Ph thesis | Martínez Ordoñez, Jose Alberto | Discrete-time nonlinear Markov switching models: stability, inference and physical applications | Míguez Arenas, Joaquín | UC3M | 15/07/2025 |
| 102 | Ph thesis | Sztamfater García, Yannick | Probabilistic Quantification of Uncertainty in Space Object Tracking and Orbital Safety Analysis | Míguez Arenas, Joaquín; Sanjurjo Rivo, Manuel | UC3M | 11/11/2025 |
| 102 | Ph thesis | Belenguer Llorens, Albert | Bayesian Learning in High Dimensional Medical Data | Gomez Verdejo, Vanessa; Sevilla Salcedo, Carlos | UC3M | 11/03/2025 |
| 102 | Ph thesis | Jiménez Rama, Óscar Manuel | Machine Learning for Computational Psychiatry | Martínez Olmos, Pablo; Ramírez García, David | UC3M | 14/10/2025 |
| 102 | Ph thesis | Cano Sánchez, Alejandro | Advanced methods for orbital uncertainty characterization applied to the Space Surveillance and Tracking | Míguez Arenas, Joaquín; Escobar Antón, Diego | UC3M | 07/02/2025 |
| 102 | Ph thesis | Curbelo Benítez, Ernesto Ángel | Efficient Inference Schemes Using Bayesian Approach and Machine Learning | Delgado Gómez, David; Martino, Luca | UC3M | 21/05/2025 |
| 106 | Ph thesis | Cubero Gutiérrez, Lucía | Applications of Artificial Intelligence for Toxicity Prediction in Radiotherapy | Pascau Gonzalez Garzón, Javier; Óscar Acosta | UC3M | 30/05/2025 |
| 201 | Ph thesis | Rodríguez González, Elena | Intraventricular Stasis and Thromboembolic Risk in Patients with Non-Ischemic Dilated Cardiomyopathy | Bermejo Thomas, Javier; Martínez-Legazpi Aguiló, Pablo; Fernández-Avilés Díaz, Francisco | UCM | 01/07/2025 |
| 206 | Ph thesis | Christian Mario Amodeo Oblitas | Measurement of soluble P-selectin, cytokines and CA-125 in the prediction of early complications in patients with symptomatic acute pulmonary embolism | Demelo Rodríguez, Pablo; Galeano Valle. Francisco | UCM | 09/04/2025 |

| Group | Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|---|
| 401 | Ph thesis | Buenestado Serrano, Sergio | Genomic responses to the challenges of rapid diagnosis of emerging viruses, advanced epidemiological surveillance of tuberculosis, and characterization of prolonged infections caused by non-tuberculous mycobacteria | García de Viedma, Darío; Pérez García, Laura | Universidad de Alcalá de Henares | 21/10/2025 |
| 401 | Ph thesis | Serrano Lobo, Julia | Detection of azole resistance in Aspergillus fumigatus sensu lato: methodological simplification for adaptation to the Clinical Microbiology laboratory | Escribano, Pilar; Guinea Ortega, Jesús Vicente | UCM | 01/04/2025 |
| 401 | Ph thesis | Mesquida Marcos, Aína | The abdominal cavity as a reservoir of Candida spp strains causing candidemia: application of genotyping as a tool for detecting genotypes capable of reaching the bloodstream | Escribano, Pilar; Guinea Ortega, Jesús Vicente | UCM | 01/05/2025 |
| 401 | Ph thesis | Vázquez, Silvia | Study of the intestinal microbiota of patients with Clostridioides difficile infection | Reigadas, Elena; Bouza, Emilio | UCM | 10/06/2025 |
| 502 | Ph thesis | Vázquez Alejo, Elena | Characterization of the evolution of the immune response in patients infected with SARS-CoV-2 | Muñoz Fernández, Mª Ángeles | UAM | 25/06/2025 |
| 505 | Ph thesis | Crespo Quirós, Jimena | Food protein-induced enterocolitis syndrome in adults | Infante Herrero, Sonsoles; Zubeldia Ortuño, José Manuel | Universidad de Alcalá de Henares | 07/03/2025 |
| 506 | Ph thesis | Cózar Fernández, Beatriz | Allogeneic use of thymus-derived regulatory T cells (thyTreg) as cell therapy in immune system disorders | Correa Rocha, Rafael; Martínez Bonet, Marta | UAM | 17/07/2025 |
| 507 | Ph thesis | Berzosa Sánchez, Arantxa | Evolution of clinical, epidemiological and therapeutic characteristics in the cohort of children and adolescents with hiv infection in spain | Ramos, José Tomás; Guillén, Sara; Navarro, Marisa | UCM | 21/10/2025 |
| 602 | Ph thesis | Aguado Orihuela, Gema | Evolution of survival in patients with metastatic melanoma before and after the introduction of immunotherapy and targeted therapy at hospital general universitario gregorio marañón | Martín Jiménez, Miguel; López Tarruella Cobo, Sara; Márquez Rodas, Iván | UCM | 14/05/2025 |
| 701 | Ph thesis | Carbayo Lopez de Pablos, Javier | Markers of tubular damage in proteinuric nephropathies, histological correlation and progression of chronic kidney disease | Cachofeiro, Victoria; Goicoechea, María Ángeles; Verdalles, Úrsula | UCM | 12/03/2025 |
| 701 | Ph thesis | Garcia Prieto, Ana María | Effect of renin-angiotensin-aldosterone system blockers on the progression of chronic kidney disease in elderly patients with non-proteinuric nephropathies (proercan clinical trial, nct:03195023) | Praga Terente, Manuel; Goicoechea, María Ángeles; Verdalles, Úrsula | UCM | 29/09/2025 |
| 702 | Ph thesis | Hanghang, Wu | Role of X-Box Binding Protein 1 (XBP1) in Hepatic Stellate Cells (hscs) in the Progression of Chronic Liver Disease | Cubero Palero, Francisco Javier | UCM | 19/06/2025 |
| 702 | Ph thesis | Díaz Ruiz, Raquel | Role of vitamin D deficiency in key events of liver cirrhosis and impact of its supplementation | García Martínez, Rita; Bañares Cañizares, Rafael | UCM | 09/10/2025 |

| Group | Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|---|
| 705B | Ph thesis | Hernández García, Santiago | Predictors of response to interventional techniques in chronic low back pain (preti-dol). Development of a predictive model. Prospective clinical data collection study. | de la Gala, Francisco; López, Esther; Garutti, Ignacio | UCM | 11/03/2025 |
| 705B | Ph thesis | Alonso Chico, Ángel | Metalloproteinase levels in bronchoalveolar lavage fluid after one-lung ventilation in lung resection surgery. Prognostic value and association with ventilatory alterations and postoperative pulmonary complications | de la Gala, Francisco; Vara, Elena; Garutti, Ignacio | UCM | 02/09/2025 |
| 710 | Ph thesis | Márquez Gómez, Miguel | In vitro and animal experimental model evaluation of the effectiveness of different antiseptic irrigation solutions for biofilm eradication in prosthetic infection surgery | Sanz, Pablo; Guembe, María; Vaquero, Javier | UCM | 01/04/2025 |
| 710 | Ph thesis | Benjumea Carrasco, Antonio | Effects of tranexamic acid on the growth of microorganisms associated with periprosthetic infection | Chana, Francisco; Guembe, María; Vaquero Martín, Francisco Javier | UCM | 14/02/2025 |
| 727 | Ph thesis | Amor García, Miguel Ángel | Impact of an intelligent system for improving antimicrobial treatments at the hospital level | Rodríguez González, Carmen; Chamorro, Esther | UCM | 29/10/2025 |
| 729 | Ph thesis | Dos Santos Peixoto Gomes, Joana | Pathophysiological role of mir-146a in Pulmonary Arterial Hypertension - Therapeutic implications | Brás Silva Ribeiro, Carmen; Miguel da Costa Adão, Rui; Perros, Frédéric | Universidad de Oporto | 18/12/2025 |

## 4.16 Cooperative Research Structures

| Group | Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|---|
| 101 | CIBER | Centro de Investigación Biomédica En Red de Salud Mental | Collaborating group | CIBERSAM |
| 101 | Platform | Plataforma ISCIII de Biomodelos y Biobancos | Collaborating group | PT23/00027 |
| 101 | Other: R&D activity programs between research groups in the Community of Madrid in Biomedicine | R&D activity programmes involving research groups in the Community of Madrid in the field of biomedicine, 2022 | Coordinating group | RENIM-CM |
| 101 | Other | Research Networks | Other | RED2022-134299-T |
| 102 | CIBER | Centro de Investigación Biomédica En Red de Salud Mental | Associated group | CIBERSAM |
| 102 | Other | International Society for Bayesian Analysis | | ISBA |

| Group | Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|---|
| 102 | Other | ELLIS Unit Madrid | Coordinating group | ELLIS Unit Madrid |
| 201 | CIBER | Centro de Investigación Biomédica en Red en Enfermedades Cardiovasculares | Coordinating group | CIBERCV |
| 201 | RICORS | Red Española de Terapias Avanzadas (TERAV+) | Collaborating group | RD21/0017/0002 |
| 201 | RICORS | Red Española de Terapias Avanzadas (TERAV+) | Collaborating group | RD24/0014/0035 |
| 301 | CIBER | Centro de Investigación Biomédica En Red de Salud Mental | Collaborating group | CB/07/09/0023 |
| 301 | Other | Ambiente y genes en esquizofrenia | Coordinating group | AGES-CM3 |
| 301 | Other | conect4children | Expert advice group | c4c |
| 301 | Other | Networks Board and Taskforce - ECNP | Thematic Working Groups | |
| 301 | Other | Child and Adolescent Neuropsychopharmacology Network | Thematic Working Groups | |
| 401 | CIBER | Centro de Investigación Biomédica en Red de Enfermedades Respiratorias | Associate group | CIBERES |
| 501 | RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD21/0002/0034 |
| 501 | RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD24/0007/0029 |
| 502 | CIBER | Centro de Investigación Biomédica en Red en el área temática de Bioingeniería, Biomateriales y Nanomedicina | Coordinating group | CB22/01/00041 |
| 503 | RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD24/0007/0029 |
| 505 | CIBER | Centro de Investigación Biomédica en Red de Enfermedades Raras | Associated group | CIBERER |
| 506 | Other | Canadian Donation and Transplantation Program | Collaborating group | CDTRP |
| 506 | Other | ERN TRANSPLANT-CHILD | Collaborating group | |
| 506 | RICORS | Red Española de Terapias Avanzadas | Collaborating group | TERAV+ |
| 507 | CIBER | Centro de Investigación Biomédica en Red de Enfermedades Infecciosas | Collaborating group | CIBERINFEC |
| 507 | Other | Red Española de Estudio de la Tuberculosis Pediátrica | Coordinating group | pTBred |
| 507 | Other | Grupo de Estudio de tuberculosis resistente en niños de la Comunidad de Madrid | Coordinating group | EREMITA |
| 507 | Other | Estudio sobre la influencia genética en la enfermedad meningocócica | Collaborating group | ESIGEM |
| 507 | Other | Red de la Infección Congénita por CMV | Collaborating group | REDICCMV |
| 507 | Other | Red para el estudio de la enfermedad invasiva por SGA | Collaborating group | PeiSGA |

| Group | Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|---|
| 507 | Other | Red Nacional de Infección Osteoarticular en niños | Collaborating group | RioPed |
| 507 | Other | Red nacional de Kawasaki | Collaborating group | KawaRACE |
| 507 | Other | Red Nacional para el Diagnóstico, Tipificación Genética y Actuaciones Terapeúticas de la giardiasis infantil | Collaborating group | RedGIp |
| 507 | Other | Red de Investigación Traslacional en Infectología Pediátrica | Collaborating group | RITIP |
| 507 | Other | Registro nacional de estudio de casos de infección por ZIKA en el embarazo y recién nacido | Collaborating group | pedZIKA |
| 507 | Other | Red de Investigación de la Sociedad española de Urgencias de Pediatría | Collaborating group | RISeuP |
| 507 | Other | Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños | Collaborating group | PLANTAIDS |
| 507 | Other | Pediatric European Network for Treatment of AIDS | Collaborating group | PENTA |
| 507 | Other | Estudio epidemiológico de las infecciones pediátricas por el nuevo coronavirus SARS-CoV-2 | Collaborating group | EPICO-AEP |
| 507 | Other | Red Europea de Investigación en RSV | Collaborating group | ResVinet |
| 507 | Other | Red Estatal de Investigación en Toxoplasmosis Congénita | Collaborating group | REIV-TOXO |
| 507 | Other | Pediatric Tuberculosis Network European Trials group | Coordinating group | PTBNET |
| 507 | Other | Paediatric invasive S. aureus study | Collaborating group | PISA |
| 507 | Other | Sickle cell disease Pediatric Research about Infections Group | Collaborating group | SPRING |
| 507 | Other | MultiCenter modified point prevALence studY of antifungal use in PediatricS in EurOpe | Collaborating group | CALYPSO |
| 507 | Platform | Plataforma europea para el estudio e implementación de grupos PROA en las diferentes instituciones europeas | Collaborating group | Ranin-Kids |
| 507 | Platform | European Pregnancy an Pediatric HIV Cohorts Coollaboration | Collaborating group | EPPICC |
| 507 | Other | Cohorte Nacional de Pacientes Pediátricos con Infección VIH | Coordinating group | CoRISpe |
| 507 | Other | Red Española de Ensayos Clínicos Pediatricos | Collaborating group | RECLIP |
| 602 | Other: Researchers association | Alianza de Investigación en Cáncer de Páncreas | Other | ALIPANC |
| 602 | Other: Scientific Association | American Society of Clinical Oncology | Other | ASCO |
| 602 | Other: Scientific Association | Breast Cancer Internacional Research Group | Other | BCIRG |
| 602 | Other: Cooperative Group | Central European Cooperative Oncology Group | Other | CECOG |
| 602 | Other | Early Breast Cancer Trialist Cooperative Group | Other | EBCTCG |

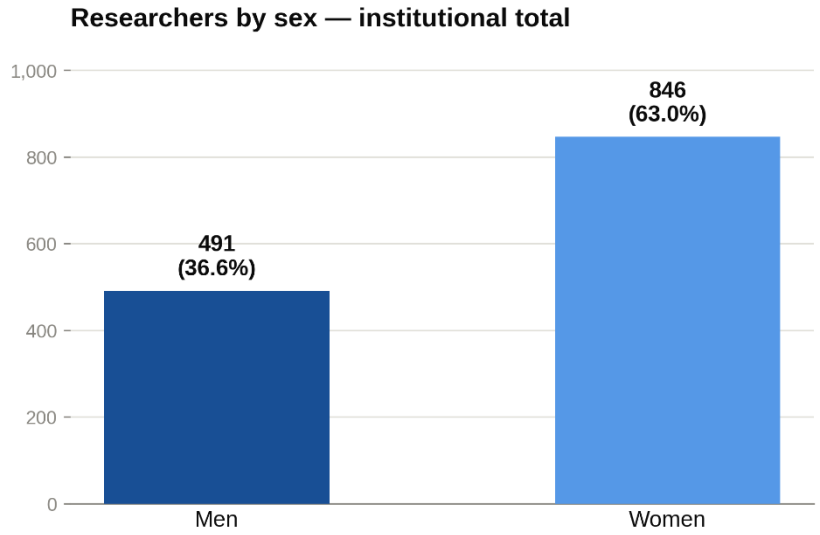
| Group | Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|---|
| 602 | Other | European Society for Medical Oncology | Other | ESMO |
| 602 | Other | Asociación cáncer colorrectal | Other | EUROPACOLON |
| 602 | Other | Grupo Español de Cáncer de mama | Coordinating group | GEICAM |
| 602 | Other | Grupo Español de Investigación en Cáncer Ginecológico | Other | GEICO |
| 602 | Other | Grupo Español de Investigación en NeuroOncología | Other | GEINO |
| 602 | Other | Grupo Español de Investigación en Sarcomas | Other | GEIS |
| 602 | Other | Grupo Español Multidisciplinar de Melanoma | Other | GEM |
| 602 | Other | Grupo ECO para la calidad en la Oncología | Other | ECO |
| 602 | Other | Sociedad Española de Oncología Médica | Other | SEOM |
| 602 | Other | Grupo Español de Oncología Genitourinaria | Other | SOGUG |
| 602 | Other | Shaping the future of cancer research | Other | SOLTI |
| 602 | Other | Sociedad Oncológica Madrileña | Other | SOMA |
| 602 | Other | Translational Research In Oncology | Coordinating group | TRIO |
| 602 | Other | Grupo Español de Tratamiento de los Tumores de Cabeza y Cuello | Other | TTCC |
| 602 | Other | Grupo de Tratamiento de los Tumores Digestivos | Other | TTD |
| 602 | Other | Asociación Española de Investigación sobre el Cáncer | Other | ASEICA |
| 602 | Other | Grupo Español de Pacientes con Cáncer | Other | GEPAC |
| 701 | RICORS | RICORS2040-RENAL | Collaborating group | RD21/0005/0029 |
| 701 | RICORS | RICORS2040-RENAL | Collaborating group | RD24/0004/0023 |
| 701 | Other: Programs of R&D activities among research groups in the Community of Madrid | Consorcio para el estudio del fracaso renal y su impacto en la patología cardiovascular | Collaborating group | CIFRA_COR-CM |
| 701 | RICORS | RICORS2040-RENAL | Collaborating group | RD24/0004/0023 |
| 702 | CIBER | Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas | Collaborating group | CIBEREHD |
| 704 | RICORS | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | Collaborating group | RD21/0012/0011 |
| 704 | RICORS | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | Collaborating group | RD24/0013/0012 |
| 721 | CIBER | Centro de Investigación Biomédica en Red sobre Fragilidad y Envejecimiento Saludable | Collaborating group | CIBERFES |
| 721 | Other | Registro Nacional de Fractura de Cadera | Collaborating group | RNFC |

| Group | Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|---|
| 727 | Platform | Plataforma ISCIII de soporte para la investigación clínica | Collaborating group | |
| 734 | RICORS | Red de Investigación en Cronicidad, Atención Primaria y Prevención y Promoción de la Salud (RICAPPS) | Collaborating group | RD24/0005/0015 |
| Medical 3D Printing Unit | Platform | Plataforma ISCIII de Biomodelos y Biobancos | Coordinating group | PT23/00116 |
| Biobank | Platform | Plataforma ISCIII de Biomodelos y Biobancos | Coordinating group | PT23/00148 |
| UAI | Platform | Plataforma ISCIII de Dinamización e Innovación de las capacidades industriales del SNS | Coordinating group | PT23/00157 |
| UCAICEC | Platform | Plataforma ISCIII de soporte para la Investigación Clínica | Coordinating group | PT23/00179 |

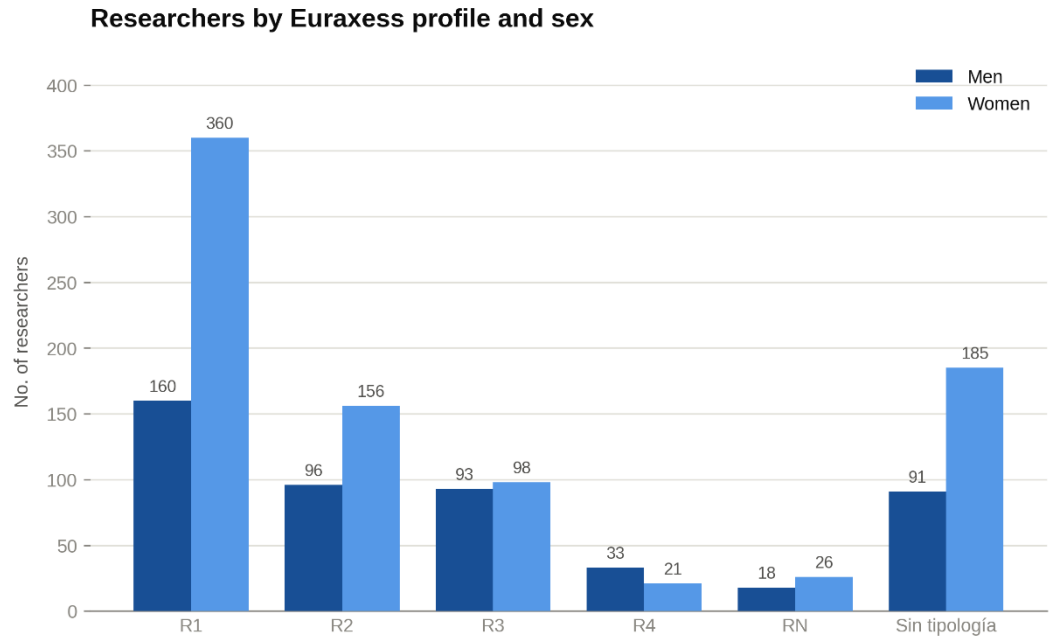
## 4.17 Equality and gender analysis

The Gregorio Marañón Hospital Foundation for Biomedical Research has an Equality and Diversity Plan aimed at promoting equal treatment and opportunities for women and men, preventing discrimination, and fostering a fair, inclusive and diverse working environment. The Plan is publicly available on the IiSGM website: https://www.iisgm.com/gestion/la-fundacion/sello-europeo-excelencia-rh/

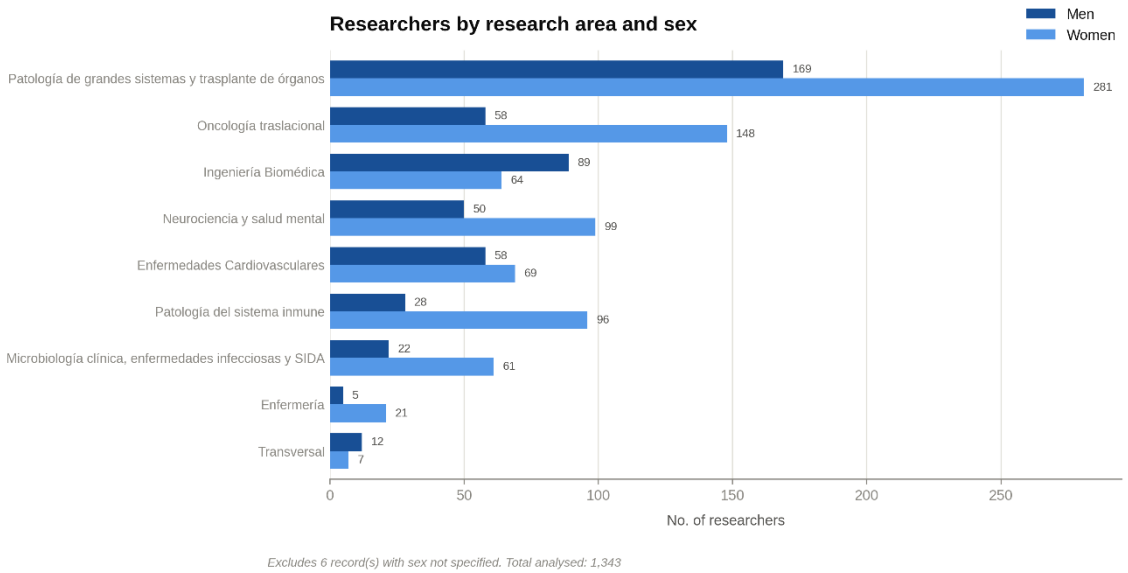
As part of the diagnosis and monitoring activities included in the Plan, the following charts show the gender distribution across governing bodies, advisory committees, research support service and, scientific areas:

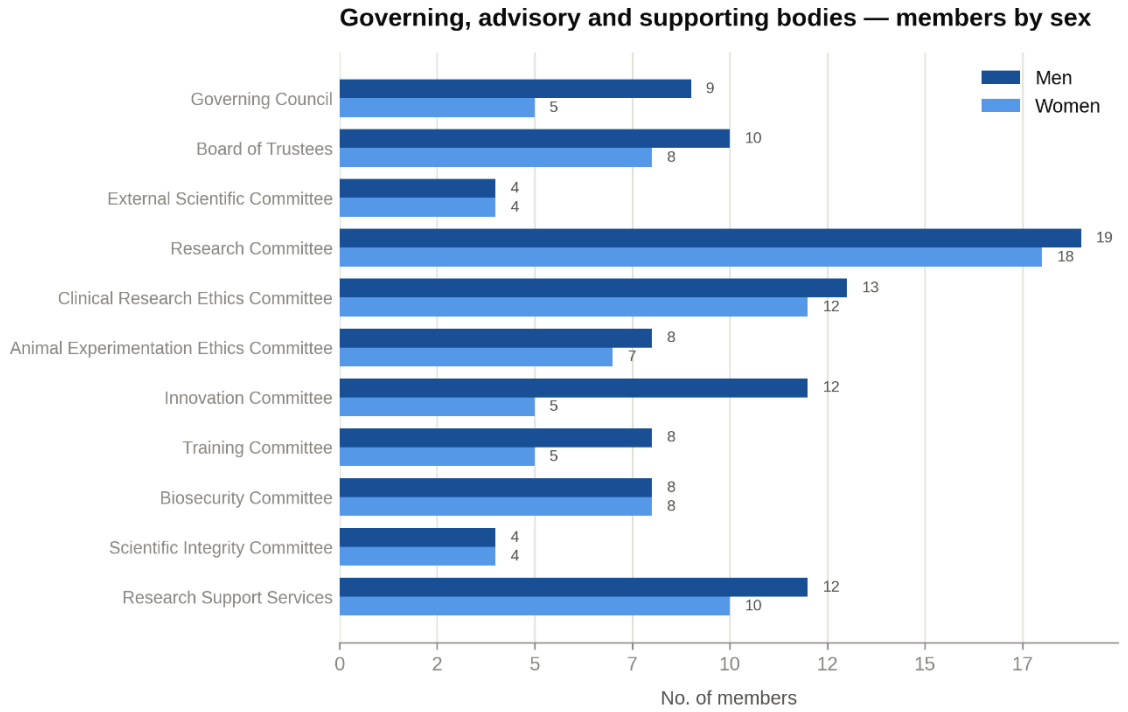



*Excludes 6 record(s) with sex not specified in the source file. Total analysed: 1,343*




*Excludes 6 record(s) with sex not specified. Total analysed: 1,343*



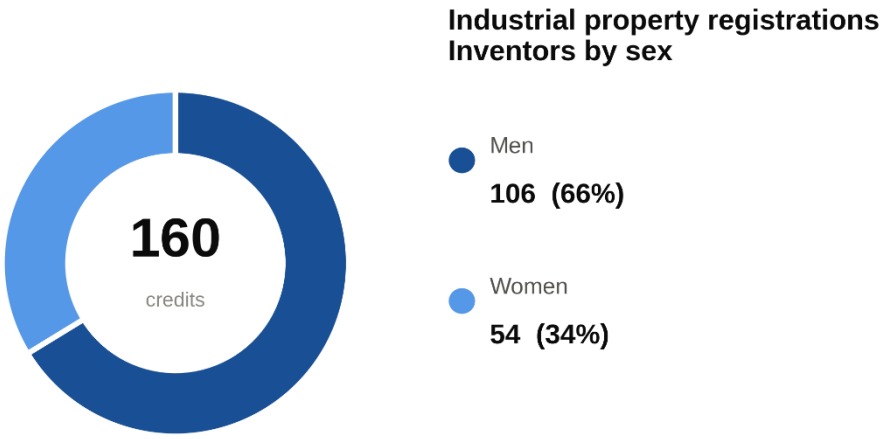




In addition, further charts are included below showing the gender breakdown in research activity (projects, publications, doctoral theses, patents):

## Ranking of authors by cumulative Impact Factor over the last 5 years

| Row labels | 2021 No. | 2021 Sum | 2022 No. | 2022 Sum | 2023 No. | 2023 Sum | 2024 No. | 2024 Sum | 2025 No. | 2025 Sum | Total No. of JCR | Total Sum of Impact Factor |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ARANGO LÓPEZ, CELSO | 56 | 772 | 55 | 684 | 39 | 309 | 46 | 341 | 43 | 252 | 239 | 2358,3 |
| MARTIN JIMENEZ, MIGUEL | 28 | 601 | 27 | 313 | 21 | 292 | 32 | 502 | 29 | 531 | 137 | 2240,0 |
| MUÑOZ GARCIA-PAREDES, PATRICIA | 71 | 685 | 65 | 386 | 63 | 293 | 51 | 257 | 47 | 261 | 297 | 1881,8 |
| MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL | 51 | 426 | 42 | 242 | 41 | 166 | 44 | 295 | 24 | 137 | 202 | 1266,1 |
| BAÑARES CAÑIZARES, RAFAEL | 23 | 269 | 15 | 160 | 17 | 147 | 12 | 142 | 16 | 220 | 83 | 936,2 |
| KWON KIM, MI | 14 | 95,7 | 14 | 83,5 | 15 | 95 | 27 | 376 | 17 | 105 | 87 | 754,9 |
| SALAZAR DE PABLO, GONZALO | 14 | 144 | 14 | 155 | 15 | 146 | 16 | 102 | 16 | 156 | 75 | 702,8 |
| MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA | 16 | 137 | 17 | 142 | 17 | 97,3 | 19 | 125 | 27 | 153 | 96 | 654,2 |
| GUINEA ORTEGA, JESÚS VICENTE | 17 | 115 | 23 | 191 | 16 | 169 | 8 | 34,3 | 14 | 123 | 78 | 633,2 |
| MARQUEZ RODAS, IVAN | 7 | 55,8 | 4 | 60 | 7 | 74 | 10 | 94,4 | 16 | 325 | 44 | 609,0 |
| PARELLADA REDONDO, MARIA JOSE | 18 | 125 | 28 | 241 | 20 | 122 | 9 | 39,9 | 11 | 66 | 86 | 594,4 |
| BOUZA SANTIAGO, EMILIO | 30 | 196 | 29 | 186 | 24 | 71,6 | 20 | 56,4 | 13 | 70,3 | 116 | 579,9 |
| BERENGUER BERENGUER, JUAN | 15 | 218 | 12 | 77,8 | 12 | 95 | 14 | 104 | 12 | 74,7 | 65 | 570,0 |
| BASTOS OREIRO, MARIANA BEATRIZ | 10 | 58,4 | 14 | 55,2 | 13 | 70,8 | 15 | 269 | 11 | 83 | 63 | 536,4 |
| RYAN MURUA, PABLO | 10 | 142 | 12 | 248 | 5 | 26,7 | 8 | 48,1 | 8 | 42,4 | 43 | 506,4 |
| FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS | 30 | 236 | 23 | 113 | 20 | 115 | 6 | 21,8 | 5 | 15,6 | 84 | 501,2 |
| DE MIGUEL DIEZ, JAVIER | 29 | 141 | 22 | 108 | 16 | 66,6 | 22 | 119 | 17 | 64,8 | 106 | 498,9 |
| GARCIA ALFONSO, MARIA PILAR | 12 | 110 | 12 | 104 | 9 | 136 | 9 | 84,5 | 11 | 50,3 | 53 | 485,3 |
| GARCÍA DE VIEDMA DEL ALAMO, DARIO | 19 | 246 | 11 | 85,5 | 12 | 63,7 | 7 | 39,3 | 7 | 27,7 | 56 | 462,3 |
| TAMARGO MENENDEZ, JUAN | 8 | 72,1 | 12 | 120 | 8 | 73,8 | 6 | 41,2 | 8 | 137 | 42 | 443,9 |




*n = 160 inventor credits across 32 registrations (a person listed on several patents is counted once per patent)*

## Copyright registrations
## Inventors by sex

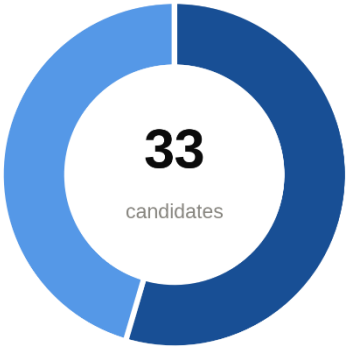



Men
**86 (36%)**

Women
**151 (64%)**

*n = 237 inventor credits across 49 registrations (a person listed on several works is counted once per work)*

## Doctoral theses
## Candidates by sex




Men
**18 (55%)**

Women
**15 (45%)**

*n = 33 doctoral candidates (2025)*

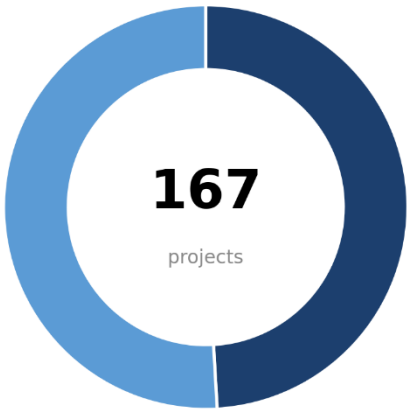
## Doctoral theses
## Supervisors by sex




Men
**45 (62%)**

Women
**27 (38%)**

*n = 72 supervisor credits across 33 theses (a supervisor listed on several theses is counted once per thesis)*

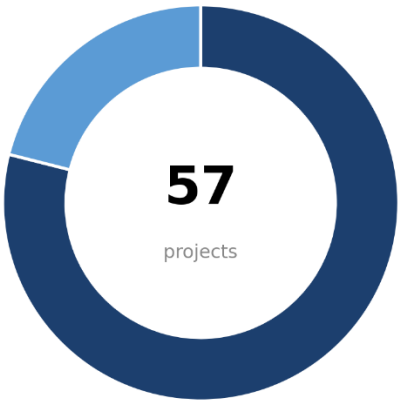



**Managed by FIBHGM**
**Directors by sex**

Men
**82 (49%)**

Women
**85 (51%)**

*n = 167 research projects managed by FIBHGM (2025)*

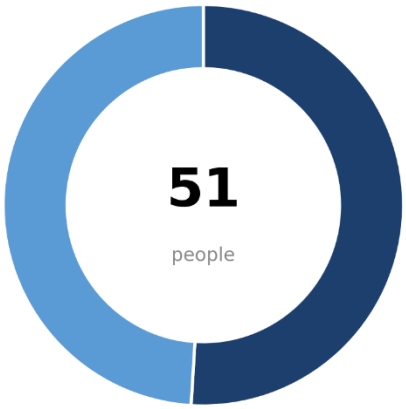



**Not managed by the FIBHGM**
**Directors by sex**

Men
**45 (79%)**

Women
**12 (21%)**

*n = 57 research projects not managed by FIBHGM (2025)*

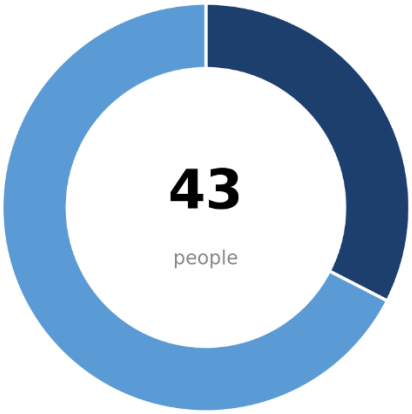



**Human Resources grants**
**Managed by FIBHGM**
**Directors by sex**

Men
**26 (51%)**

Women
**25 (49%)**

*n = 51 directors across 57 grants (2025); 6 grants with no listed director excluded*

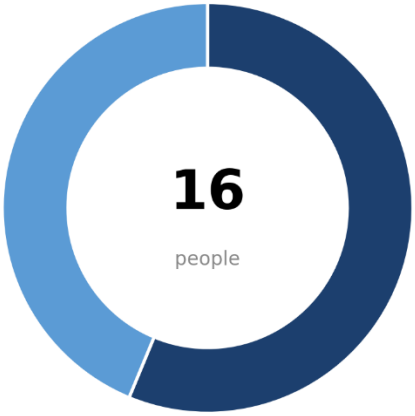



**Human Resources grants**
**Managed by FIBHGM**
**Candidates by sex**

Men
**14 (33%)**

Women
**29 (67%)**

*n = 43 candidates across 57 grants (2025); 14 grants with no listed candidate excluded*

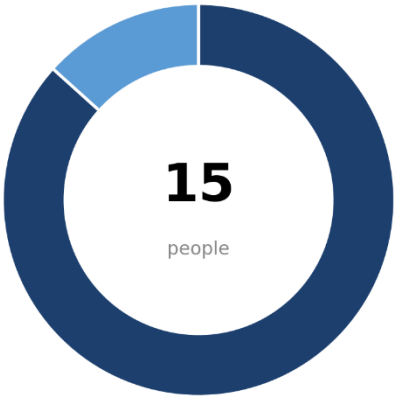



**Human Resources grants**
**Not managed by the FIBHGM**
**Directors by sex**

Men
**9 (56%)**

Women
**7 (44%)**

*n = 16 directors across 16 grants (2025); 1 grant with no listed director excluded*




**Human Resources grants**
**Not managed by the FIBHGM**
**Candidates by sex**

Men
**13 (87%)**

Women
**2 (13%)**

*n = 15 candidates across 16 grants (2025); 1 grant with no listed candidate excluded*

# 4.18 Communication

## Publicity and media coverage of the IiSGM

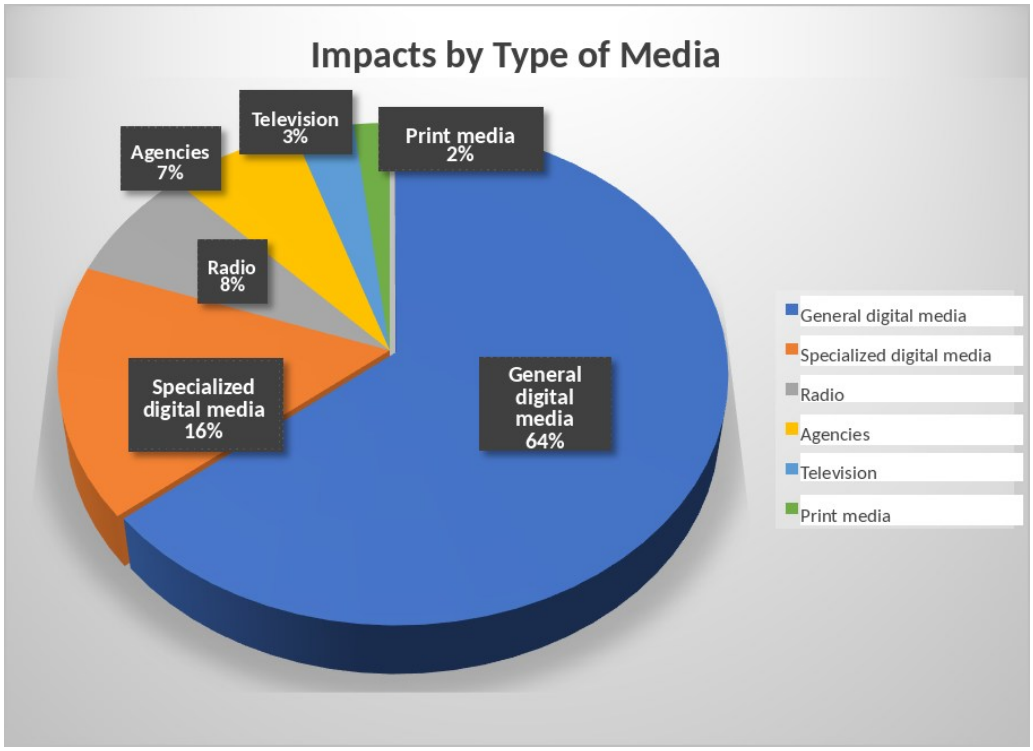
Throughout 2025, the research carried out within the Gregorio Marañón Hospital's Institute of Health Research received extensive coverage in both the general and specialist media. An analysis of media coverage throughout the year identified 651 instances directly linked to research findings, scientific studies, clinical trials, R&D projects and technological developments involving professionals and groups associated with the Marañón Hospital.
Added to this figure are a further 105 media mentions relating to the research ecosystem, including reports on the IiSGM's institutional activities, awards, science communication, the promotion of research careers and other initiatives linked to scientific activity. Consequently, the overall media coverage of the research activity and the Institute during 2025 totalled 756 mentions.

### Key indicators

The 756 media mentions linked to research activity as a whole reflect a particularly significant presence in the digital sphere. Of the total recorded, 485 mentions were in general-interest digital media, representing 64.2 per cent; 124 mentions were published in specialist digital media, accounting for 16.4 per cent; 56 mentions appeared on the radio, accounting for 7.4 per cent; 53 mentions came from news agencies, accounting for 7 per cent; 24 mentions were on television, accounting for 3.2 per cent; and 14 mentions were published in the print press, accounting for 1.9 per cent.

Overall, more than eight out of ten media mentions occurred in digital media, whether general-interest or specialist, which highlights the significance of these channels in the public dissemination of scientific activity and in the transfer of knowledge generated within the Marañón research community.

Furthermore, 464 of the recorded mentions – 61.4 per cent of the total – were linked to information disseminated via press releases, which highlights the role of proactive communication in raising the profile of scientific results and projects. The assessment of the coverage was largely favourable: 692 instances, or 91.5 per cent, were classified as positive, whilst 63 were considered neutral.




### Major research projects and initiatives that have attracted media attention

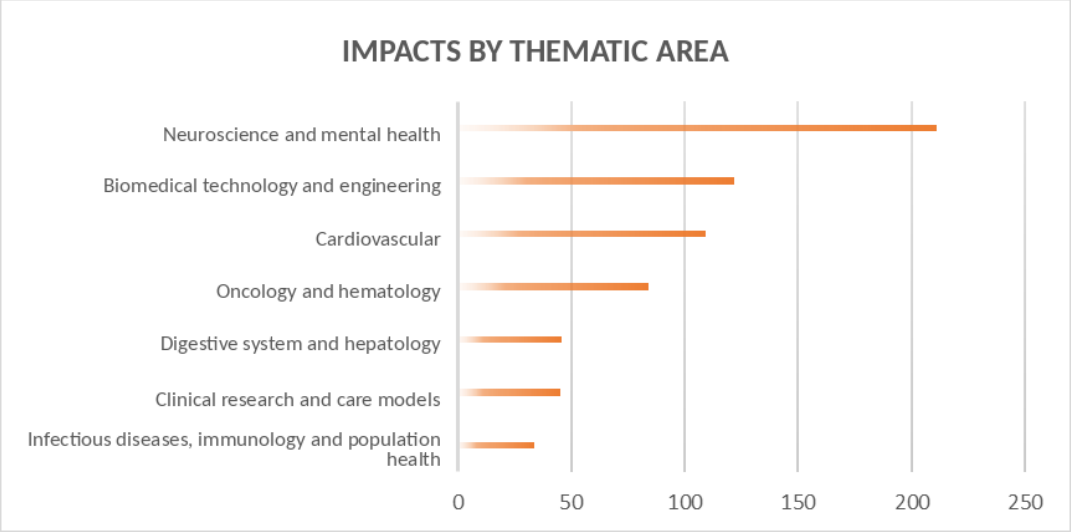
The Institute's media coverage in 2025 centred on research across a wide range of fields, reflecting the multidisciplinary nature of its scientific activity.
Among the areas with the greatest impact, the development of non-invasive cardiac mapping technologies, in collaboration with Corify, stood out, generating around 106 media mentions. The impact of this project reflects the media interest generated by the technological developments emerging from the Marañón research environment and their potential for transfer to clinical practice.

The EXPLORER paediatric exoskeleton also featured prominently, with approximately 77 mentions, relating to the application of robotic technology to children's rehabilitation and the Marañón Hospital's involvement in the development and evaluation of this solution.

Another key area of media coverage was the research carried out by the Neuromaternal research group, which focuses on the changes the brain undergoes during pregnancy, childbirth, the postnatal period and motherhood. The various reports relating to this area totalled over 70 media mentions, establishing it as one of the main focal points of media attention for the centre's research during the year.

Within the category of impacts relating to the IiSGM's environment and research activity, initiatives aimed at science communication and promoting careers in research were particularly significant, generating approximately 48 impacts. This area includes activities linked, amongst others, to the International Day of Women and Girls in Science, programmes designed to bring research closer to students, Science Week and other outreach initiatives.

The IiSGM's institutional and governance activities generated around 27 impacts, relating to the Institute's own structure and development, its participatory bodies and various initiatives aimed at strengthening its operations and links with patients and professionals.




## Diversity of media and the reach of scientific information

The research carried out at the IiSGM received coverage in both the general media and specialist publications on health, science and research.

Coverage in the general media enabled certain scientific advances to be communicated to a wide audience, whilst coverage in specialist media helped to raise the Institute's profile amongst healthcare professionals, researchers and other stakeholders in the healthcare system.

This presence was complemented by coverage provided by news agencies, radio and television, which helped to broaden the reach of certain research projects and to convey their findings to different formats and audiences.
The diversity of media channels reflects the IiSGM's research activity's ability to generate content of both scientific and social interest, and to link advances made in the academic and healthcare spheres with the public's need for information.

Some news items can be viewed on the IiSGM website: https://www.iisgm.com/comunicacion/noticias/

### New website

In October 2025, the IiSGM's new website was launched: https://www.iisgm.com/




# 4.19 Scientific outreach activities

## International Day of Women and Girls in Science Programme (11 February)

11 February (11F) is a citizen-led initiative aimed at promoting the organization of activities to commemorate 11 February, declared by the United Nations in 2015 as the International Day of Women and Girls in Science. The 11F initiative is coordinated and carried out thanks to the voluntary work of STEM professionals.

These activities are intended to:

- Increase the visibility of women working in STEM fields (Science, Technology, Engineering and Mathematics), thereby providing female role models for children and encouraging them to consider these disciplines as future career paths.
- Identify the factors affecting the current situation of women in STEM fields in order to promote practices that contribute to eliminating these barriers and achieving gender equality in science.

These activities are mainly held between 1 and 15 February. In Spain, the first edition took place in 2016, during which 336 activities were organized.

Within the framework of this initiative, the Gregorio Marañón Health Research Institute (IiSGM) organized several activities between 23 January and 11 February led by IiSGM researchers from research groups 1.01 "Advanced Technological Applications and Human Health", 4.01 "Clinical Microbiology and Infectious Diseases", and 6.03 "Genetics and Clinical Management of Hematological Neoplasms and Hematopoietic Transplantation".

The activities included laboratory visits and talks entitled *The Brain: What Does Imaging Tell Us?*, *Transparent Organs: I Want to Be a Scientist!*, and *The Importance of Genes in Cancer*. Child patients also took part in this initiative by interviewing researchers and physicians from Gregorio Marañón Hospital and IiSGM and learning about their work.

## Scientists for a Day

This initiative is promoted by the Spanish National Research Council (CSIC) and the Spanish Association for the Advancement of Science (AEAC), in collaboration with the Healthcare Network for Social Responsibility and Sustainability.

The programme aims to provide young students from disadvantaged areas with the opportunity to undertake placements in research groups and laboratories, participate in research activities, and experience the day-to-day work of scientific teams.

Through science, the programme seeks to offer participants access to environments they would otherwise be unlikely to encounter.

Scientists for a Day also aims to help students improve their knowledge and understanding of the scientific and research world, while raising awareness among participants and their communities about the importance of critical thinking and the role of science as a fundamental pillar of society.

In 2025, the Gregorio Marañón Health Research Institute (IiSGM) participated through a guided visit in April and an educational placement in June, involving three IiSGM research groups: "Hospital Pharmacy and Pharmacogenomics", "Pediatric Cardiology and Heart Transplantation", and "Genetics and Clinical Management of Hematological Neoplasms and Hematopoietic Transplantation".

## 4th ESO-Business Programme

This programme, organized by the Regional Government of Madrid, consists of three-, four-, or five-day educational placements for 4th-year secondary school students in companies and institutions (IiSGM in our case). These placements complement the school curriculum and help bridge the gap between the educational system and the professional world, facilitating students' preparation for their future careers.

In 2025, the educational placement at IiSGM took place from Monday, 7 April, to Thursday, 10 April.

## 12th IiSGM Research and Innovation Conference

The main objective of the 12th IiSGM Research and Innovation Conference, held on 21 and 22 October 2025, was to present the Institute's scientific and economic results and recognize the work of its researchers, while providing a common space for sharing experiences and presenting research and innovation outcomes developed within the Institute.

During the first day, dedicated to the research community, 9 oral presentations and 54 electronic posters were presented. In addition, a round-table discussion on "Nursing Research" was organized, together with the invited lecture *Research in Europe: An Achievable Challenge*.

To bring scientific knowledge closer to the general public, four IiSGM researchers delivered the following presentations on the second day of the conference:

- *Genetic Basis of Cancer: Sporadic Cancer*
- *Genetic Predisposition to Cancer Development*

- *Hereditary Cancer*
- *Physical Activity and Cancer Prevention: Healthy Habits*

## Science and Innovation Week

IiSGM participated in the 25th Science and Innovation Week, a scientific outreach and citizen engagement event organized by the Regional Government of Madrid and the madri+d Foundation for Knowledge. A comprehensive programme of talks, laboratory visits, and a training course was organized to bring science closer to the public:

- **11 November:** *The Brain: What Does Imaging Tell Us?* A talk introducing participants to the fascinating world of biomedical imaging.
- **11 November:** *Genetics as a Tool for Diagnosing and Treating Cancer*. A session covering basic genetics and its application to the diagnosis and treatment of blood cancers, including a gamification workshop based on clinical case-solving activities and a visit to the Hematological Genetics Laboratory.
- **12 November:** *Diseases of Poverty in Childhood*. An outreach talk presenting research on diseases that primarily affect children living in economically vulnerable conditions.
- **13 November:** *What Is Invisible to the Eye*. An interactive talk and workshop exploring the causes of microbial growth and reproduction, particularly fungi, the importance of monitoring them, and their impact on human health.
- **13 November:** *Repairing the Brain: New Frontiers Against Stroke*. A talk on neurological diseases followed by visits to biology and bio-optics laboratories, showcasing facilities, equipment, and the latest advances in transparent organs and 3D imaging.
- **14 November:** *A Journey Through the Brain: How We Think, Feel and Remember*. A talk and workshop on the brain regions responsible for cognitive functions such as memory, attention, and language, and the importance of their balance for mental health and emotional well-being.
- **15 November:** *Nutrition and Diet in Children with Neurological Disorders*. A course aimed at parents and relatives of children with neurological conditions, providing guidance on the latest advances for achieving adequate nutritional status.

## 1st Edition of the IiSGM Scientific Outreach Course

In line with IiSGM's commitment to promoting and disseminating science, the first edition of the course Scientific Outreach: Personal and Social Skills was organized in collaboration with the HGUGM Communications and Press Office. The course was aimed at researchers interested in strengthening their communication and science outreach skills.

The course was held on 5 and 6 November 2025 and included the following sessions:

- What is scientific outreach and why is it important?
- How to communicate science: methodologies and opportunities for scientific dissemination.
- Managing the "DIY" approach: advantages and disadvantages of independence, successes and failures, and fake news.
- Joining science communication initiatives through IiSGM: a local experience.
- Media relations management: the importance of communication offices, news creation, and reputation management.
- Characteristics of different media formats: print media, audiovisual media, digital media, general-interest and specialized media.
- How to be an effective spokesperson: best practices, common mistakes, verbal and non-verbal communication, and message development.

- Social media and other viral communication channels: friends or foes?

## Social Media

All IiSGM activities are disseminated through the Institute's website and social media channels, including X (@iisgmaranon), LinkedIn, and the YouTube channel.

# 5 SCIENTIFIC ACTIVITY BY AREA

## AREA 1. BIOMEDICAL ENGINEERING

Area Coordinator: **Manuel Desco Menéndez**

The Biomedical Engineering Area represents a distinct, high-value dimension of the Instituto de Investigación Sanitaria Gregorio Marañón (IiSGM), enriching traditional biomedical research through a focus on cutting-edge technology, immediate clinical applicability, and rapid translation. This impact is reflected in a strong track record of interdisciplinary collaboration and joint publications across IiSGM groups. For ten years, the Area led the Medical Technology Innovation Network (ITEMAS) under the Instituto de Salud Carlos III. Today, it serves as the primary strategic bridge between IiSGM and Universidad Carlos III, driving joint innovation and playing a key academic role in its undergraduate Degree in Biomedical Engineering.

**Strategic Axes**

- **Institutional Collaboration**: Consolidate collaboration with Universidad Carlos III by integrating new research groups and expanding joint research projects.
- **Academic Leadership & "Engineering Resident":** Define and strengthen the Area's educational role in Biomedical Engineering across undergraduate, master's, doctoral, and Medical Resident levels, with a special emphasis on establishing the novel profile of the "Engineering Resident" within the hospital environment.
- **Hospital Innovation Support**: Consolidate the HGUGM (Hospital General Universitario Gregorio Marañón) Innovation Support Unit following its recent expansion in activity, ensuring efficient translation of clinical solutions.
- **International Funding**: Enhance support for clinical research while leveraging technological capabilities to actively secure competitive funding from EU framework programs.
- **Multidisciplinary Ecosystem**: Engage additional technology-driven groups within IiSGM and partner institutions to foster interdisciplinary research, accelerate knowledge transfer, and address critical biomedical challenges.

## 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
1.05. Structural and functional medical imaging
1.06 Biomedical applications of engineering

### LIST OF THE PUBLICATIONS THAT THE DEPARTMENT HAS SELECTED AS THE MOST RELEVANT OF THE YEAR:

- Servin-Barthet, C; Martínez-García, M; Paternina-Die, M; Marcos-Vidal, L; de Blas, DM; Soler, A; Khymenets, O; Bergé, D; Casals, G; Prats, P; Pozo, OJ; Pretus, C; Carmona, S; Vilarroya, O. Pregnancy entails a U-shaped trajectory in human brain structure linked to hormones and maternal attachment. NATURE COMMUNICATIONS. 2025; 16(1). FI: 18.1. Cuartil: 1. (Article).

- Ballesteros, C; Paternina-Die, M; Martínez-García, M; López-Montoya, G; Noguero, I; Desco, M; Vilarroya, O; de Blas, DM; Carmona, S. Linking birth experience and perinatal depression symptoms to neuroanatomical changes in hippocampus and amygdala. SCIENCE ADVANCES. 2025; 11(10). FI: 13.9. Cuartil: 1. (Article).
- Belenguer-Llorens, A; Sevilla-Salcedo, C; Tohka, J; Gomez-Verdejo, V. Unified Bayesian representation for high-dimensional multi-modal biomedical data for small-sample classification. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. 2025; 160. FI: 9. Cuartil: 1. (Article).

- Visuña, L; Garcia-Blas, J; Ferrer-Bazaga, S; Lopez-Exposito, P; Carretero, J. Automated monitoring of Mycobacterium population growth in time-lapse microscopy with Deep Learning pseudo-supervised algorithm. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. 2025; 162. FI: 9. Cuartil: 1. (Article).

- Capellán-Martín, D; Gómez-Valverde, JJ; Sánchez-Jacob, R; Hernanz-Lobo, A; Schaaf, HS; García-Delgado, L; Augusto, O; Roshanitabrizi, P; García-Basteiro, AL; Ribó, JL; Lancharro, A; Noguera-Julian, A; Blázquez-Gamero, D; Linguraru, MG; Santiago-García, B; López-Varela, E; Ledesma-Carbayo, MJ. Multi-view deep learning framework for the detection of chest X-rays compatible with pediatric pulmonary tuberculosis. NATURE COMMUNICATIONS. 2025; 16(1). FI: 18.1. Cuartil: 1. (Article).

- Joshi, S; Forjaz, A; Han, KS; Shen, Y; Queiroga, V; Selaru, FA; Gérard, M; Xenes, D; Matelsky, J; Wester, B; Barrutia, AM; Kiemen, AL; Wu, PH; Wirtz, D. InterpolAI: deep learning-based optical flow interpolation and restoration of biomedical images for improved 3D tissue mapping. NATURE METHODS. 2025; 22(7). FI: 28.3. Cuartil: 1. (Article).

# *1.01 Advanced technological applications and human health*

Group Director: **Manuel Desco Menéndez**

Organisms involved: **HGUGM-UC3M**

**Consolidated Group**

## *Description of the research group*

The Biomedical Engineering Area provides a complementary perspective that significantly enriches the research traditionally conducted in the field of Biomedicine. Its technological component, the cross-disciplinary nature and immediate applicability of its work, together with its strong focus on innovation, give the area considerable added value.

Furthermore, this area represents the link between the Gregorio Marañón Health Research Institute and Universidad Carlos III de Madrid. In addition to its research activities, it develops and contributes to various undergraduate and master's degree programs offered by the University. Through interdisciplinary collaboration, it promotes the enhancement of multidisciplinary research capacity, the rapid translation of knowledge into practice, and, ultimately, the effective response to the major challenges and questions arising within the field of Biomedicine.

## *Research lines*

**Axis 1: Imaging support for Clinical Research**

L1: Neuroimaging processing

**Axis 2: Technological development**

L1: Advanced radiological imaging

L2: Tissue thinning and SPIM

**Axis 3: Biomedical experimentation**

L1: Molecular probes for biomedical imaging

L2: Animal models for molecular imaging

L3: Effects of low-dose radiation

L4: Animal models of drug abuse

## *Group members*

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ABELLA | GARCIA | MONICA | Female | R3 | Established Researcher |
| ALFARO | PEREZ | SUSANA | Female | Other | Other |
| ALVAREZ | RUBIO | ANA | Female | Other | Data Manager |
| BALLESTEROS | SANCHEZ | CRISTINA | Female | R1 | First Stage Researcher |
| BARCO | TEJADA | AINARA | Female | R1 | First Stage Researcher |
| BLAZQUEZ | LOPEZ | ELENA | Female | R2 | Recognised Researcher |
| CARMONA | CAÑABATE | SUSANA | Female | R3 | Established Researcher |
| CASTRO | RAMÍREZ | PAULA | Female | R1 | First Stage Researcher |
| CHAVEZ | VALENCIA | RAQUEL | Female | R1 | First Stage Researcher |
| CUSSO | MULA | LORENA | Female | R3 | Established Researcher |
| DESCO | MENÉNDEZ | MANUEL | Male | R4 | Leading Researcher |
| DE DIEGO | HIDALGO | PAULA | Female | Other | Laboratory Technician |
| DURÁN | MENDOZA | TERIS | Female | Other | Data Manager |
| ELIZALDE | CANO | MARIANA | Female | R1 | First Stage Researcher |
| FERNANDEZ | DEL CERRO | CARLOS | Male | R1 | First Stage Researcher |
| FERNANDEZ-CORTES | NAVIA | ELENA | Female | Other | Laboratory Technician |
| FRANCISCO | LOPEZ | ALEXANDRA DE | Female | Other | Laboratory Technician |
| GARCIA | DE LUCAS | ANGEL | Male | R2 | Recognised Researcher |
| GARCÍA | ACEBES | NOELIA | Female | R1 | First Stage Researcher |
| GARRIDO | HUERTA | TRAJANA | Female | Other | Project Manager |
| GOMEZ | GAVIRO | MARIA VICTORIA | Female | R3 | Established Researcher |
| GOMEZ | MARTIN | ADRIAN | Male | R1 | First Stage Researcher |
| GONZALEZ | ARJONA | MARIO | Male | R2 | Recognised Researcher |
| GUTIERREZ | DIAZ | SOFIA | Female | R1 | First Stage Researcher |
| HERMOSILLA | CAMPOS | BLANCA | Female | R1 | First Stage Researcher |
| ITURMENDI | GONZALEZ | LEYRE | Female | R1 | First Stage Researcher |
| JORCANO | NOVAL | JOSE LUIS | Male | R3 | Established Researcher |
| KUMMELER | | CONRAD JOZEPH BERNARD | Male | R1 | First Stage Researcher |
| LLORENTE | UBEDA | VICENTE | Male | R2 | Recognised Researcher |
| LOPEZ | MONTOYA | GONZALO | Male | R2 | Recognised Researcher |
| MARTIN | DE BLAS | DANIEL | Male | R2 | Recognised Researcher |
| MARTINEZ | OLIVA | RAMON | Male | R1 | First Stage Researcher |
| MATAMALA | AVROVA | ELISABET VERA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| MENGOTTI | LUNA | CAROLINA GUADALUPE | Female | R1 | First Stage Researcher |
| MIGUEL | RAMIRO | NATALIA | Female | R1 | First Stage Researcher |
| MILLAN | CASAS | MONICA | Female | Other | Other |
| NOMBELA | GONZÁLEZ | ESTHER | Female | Other | Other |
| PATERNINA | DIE | MARIA DEL CARMEN | Female | R1 | First Stage Researcher |
| RAGGIO | | SIMONE | Male | R1 | First Stage Researcher |
| RAMIREZ | FRIAS | ANA | Female | R1 | First Stage Researcher |
| RIPOLL | LORENZO | JORGE | Male | R3 | Established Researcher |
| RODRIGUEZ | LOPEZ | DANIEL ALEJANDRO | Male | R1 | First Stage Researcher |
| RUIZ | GARCIA | SERGIO | Male | R2 | Recognised Researcher |
| SALAZAR | ROMERO | JULIA CAROLINA | Female | Other | Other |
| SALINAS | RODRIGUEZ | BEATRIZ | Female | R3 | Established Researcher |
| SANCHEZ | PUERTO | DANIEL | Male | Other | Project Manager |
| SANDERSON | MORENO | DANIEL | Male | R1 | First Stage Researcher |
| SERRAMÍA | LOBERA | Mª JESÚS | Female | Other | Laboratory Technician |
| SOTO | MONTENEGRO | MARÍA LUISA | Female | R3 | Established Researcher |
| SÁNCHEZ | CORNAGO | JESÚS | Male | R1 | First Stage Researcher |
| VELASCO | BAYÓN | DIEGO | Male | R3 | Established Researcher |
| ZABALA | GUTIERREZ | IRENE | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | 1 | | | |
| European | 2 | | | 1 |
| National | 13 | 5 | 3 | 2 |
| Regional | | | 4 | 4 |

TITLE: **A digital twin of the pregnant and maternal brain** (CZIF2024-010398)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: International research project
FUNDING BODY: CHAN ZUCKERBERG INITIATIVE
START DATE: 01/12/2024
END DATE: 30/11/2026

TITLE: **BIOMET4D: Smart 4D biodegradable metallic shape-shifting implants for dynamic tissue restoration** (HE BIOMET4D 101047008)
DIRECTOR: DESCO MENÉNDEZ, MANUEL

PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2022
END DATE: 31/12/2026

TITLE: **Becoming a mother: An integrative model of adaptations for motherhood during pregnancy and the postpartum period.** (H2020 BEMOTHER)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2020
END DATE: 30/09/2026

TITLE: **Impacto de la radiación a dosis bajas y FLASH en la evolución y tratamiento tumoral** (PI23/00671)
DIRECTOR: CUSSO MULA, LORENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Diagnóstico diferencial entre infección e inflamación mediante imagen molecular** (PI23/01405)
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Inteligencia Artificial en nuevos sistemas de diagnóstico radiológico (AIRad)** (PMPTA22/00118)
DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2025

TITLE: **Imagen 3D de Plano de Luz con Campo de Vision Extendido** (DTS22/00030)
DIRECTOR: RIPOLL LORENZO, JORGE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Efectos a largo plazo del embarazo en el cerebro humano** (PI22/01365)
DIRECTOR: CARMONA CAÑABATE, SUSANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Desarrollo de un Biomarcador de neuroimagen para detectar el estado procoagulante enla enfermedad de Alzheimer** (AC20/00091)

DIRECTOR: DESCO MENÉNDEZ, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Microictus cerebrales: nuevo modelo y oportunidades de tratamiento (Nanostroke)** (PID2022-141080OB-C21)
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Mecanometabolismo de la insuficiencia cardiaca asociada a la edad - CardioAging (Mechanometabolism of age-associated heart failure)** (PLEC2022-009235)
DIRECTOR: GOMEZ GAVIRO, MARIA VICTORIA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 03/10/2022
END DATE: 02/10/2025

TITLE: **Nuevas herramientas nanotecnológicas en el tratamiento de patología neuroinflamatoria y su interacción con el eje intestino-cerebro (ExoCUR)** (PID2021-128862OB-I00)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Riesgos del vapeo en los adolescentes: estudio experimental de las alteraciones neurocognitivas y pulmonares mediante técnicas de imagen in vivo (Resonancia y CT)** (PNSD24/01)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SS SOCIALES E IGUALDAD
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Cannabidiol, COVID-19, cannabis, resonancia, CT pulmonar, microbiota** (EXP2022/008917)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE SANIDAD, SS SOCIALES E IGUALDAD
START DATE: 12/07/2023
END DATE: 12/07/2025

TITLE: **FUNDACIÓN RAMON ARECES 2020. IMAGEN MOLECULAR DE LA INFECCIÓNPOR CLOSTRIDIUM DIFFICILE.** (FRA20/02)
DIRECTOR: SALINAS RODRIGUEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN RAMÓN ARECES
START DATE: 12/05/2021

END DATE: 11/05/2025

TITLE: **¿Cómo actúa la cúrcuma en el eje cerebro-intestino? Importancia en el tratamiento de patologías que cursan con neuroinflamación** (AEPNYA24/01)
DIRECTOR: SOTO MONTENEGRO, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: PUESTA EN MERCADO, S.L. ISANIDAD
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Miguel Servet Tipo II contracts** CPII21/00016
DIRECTOR: Manuel Desco Menéndez (Susana Carmona Cañabate)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/06/2022
END DATE: 31/05/2025

TITLE: **Funding for Ramón y Cajal contracts** RYC2023-043775-I
DIRECTOR: Lorena Cussó Mula
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **Technical Support Staff** PTA2022-021556-I
DIRECTOR: Beatriz Salinas Rodríguez (Mario González Arjona)
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/02/2024
END DATE: 31/01/2027

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-27890
DIRECTOR: María Victoria Gómez Gaviro (Elisa María Pinto Pulido)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 31/03/2026

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-27890
DIRECTOR: María Victoria Gómez Gaviro (Julia Carolina Salazar Romero)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 31/03/2026

TITLE: **Young employment Program contracts** PEJ-2024-AI/SAL-GL-32485
DIRECTOR: María Victoria Gómez Gaviro (Esther Nombela González)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Young employment Program contracts** PEJ-2024-AI/SAL-GL-32632
DIRECTOR: Lorena Cussó Mula (Mónica Millán Casas)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2025
END DATE: 28/02/2027

*** Not managed by the FIBHGM**

TITLE: **Clustering Automático de Comportamientos de invertebrados en libertad mediante imagen 3D**. PID2020-115088RB-I00
DIRECTOR: RIPOLL LORENZO, JORGE
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2021
END DATE: 31/08/2025

TITLE: **Sistema Microfluídico para Aplicaciones en Tejido en un Chip**. CPP2021-008396
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Development of a dynamic, functional and personalized 3D melanoma model-on-a-CHIP**. PID2021-126523OB-I00
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **SWEATHAIR - Señales Microambientales para la Inducción de Folículos Pilosos y Glándulas Sudoríparas en Plataformas de Piel Humana en Chip**. PID2024-160950OB-I00
DIRECTOR: VELASCO BAYÓN, DIEGO
PROJECT TYPE: Research project
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Inteligencia Artificial en nuevos sistemas de diagnóstico radiológico (AIRad)**. PMPTA22/00121
DIRECTOR: ABELLA GARCÍA, MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: ISCIII. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/01/2023
END DATE: 30/06/2025

TITLE: **NeuroBiopieltec-CM - Integración de Nuevas Tecnologías organ-on-chip para el estudio de enfermedades cutáneas y neurodegenerativas**. TEC-2024/BIO-98
DIRECTOR: VELASCO BAYÓN, DIEGO

PROJECT TYPE: Research project
FUNDING BODY: Comunidad de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **YUFE4 Postdocs**
DIRECTOR: Salinas Rodríguez, Beatriz (García de Lucas, Ángel)
PROJECT TYPE: Human Resources
FUNDING BODY: European Union
START DATE: 15/10/2024
END DATE: 14/10/2027

TITLE: **Grants for predoctoral contracts for doctoral training.** AEI PRE2020-095268
DIRECTOR: Desco Menéndez, Manuel; Cussó Mula, Lorena (Barco Tejada, Ainara)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/08/2021
END DATE: 31/07/2025

TITLE: **Ramón y Cajal Grants**
DIRECTOR: Salinas Rodríguez, Beatriz
PROJECT TYPE: Human Resources
FUNDING BODY: AEI. Ministerio de Ciencia, Innovación y Universidades
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Abella García, Mónica (Fernández del Cerro, Carlos)
PROJECT TYPE: Human Resources
FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 01/09/2022
END DATE: 15/09/2025

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Desco Menéndez, Manuel (Sanderson Moreno, Daniel)
PROJECT TYPE: Human Resources
FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 05/09/2022
END DATE: 22/11/2026

TITLE: **Hiring of research assistants and laboratory technicians, Community of Madrid, 2023**. PEJ-2023-AI/SAL-GL-28547
DIRECTOR: Salinas Rodríguez, Beatriz (Alfaro Pérez, Susana)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/03/2024
END DATE: 28/02/2026

TITLE: **Program for Predoctoral Research Staff in Training (PIPF UC3M)**
DIRECTOR: Abella García, Mónica (Sánchez Cornago, Jesús)
PROJECT TYPE: Human Resources

FUNDING BODY: Universidad Carlos III de Madrid
START DATE: 01/07/2025

## *Industrial and intellectual property registrations*

### *Industrial property*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Tapón antireflujo** | EP22382591 | FIBHGM, UC3M, Ownmed, FIISFJD | Manuel Desco, Ana Ye, Jesús García-Foncillas |
| **Sistema de planificación para radioterapia intraoperatorio**<br>**(Navegador quirúrgico RIO)** | US12/937568 | GMV | Manuel Desco Menéndez, Javier Pascau Gonzalez-Garzón, Felipe Calvo Manuel, Juan José Vaquero López, Manlio Fabio Valdivieso Cacique, Carlos Guillermo Illana Alejandro |
| **Sistema de simulación clínica híbrida (HYBRIDS) - DUMMYS** | P201730568 | FIBHGM, Medical Simulator | Manuel Desco, Juan Francisco del Cañizo |
| **Sistema de Imagen 3D para proyecciones limitadas** | **P201730341** | **FIBHGM, UC3M** | **Manuel Desco, Mónica Abella** |
| **Protocolo blanqueamiento** | EP24382503 | FIBHGM, Plane Light | María Victoria Gómez-Gaviro, Manuel Desco, Nikolaos Ekizoglou, Isabel Redl López |
| **Trazadores de colágeno para detección no invasiva de focos infecciosos** | P202030838 | FIBHGM, UC3M | Beatriz Salinas, Manuel Desco, Patricia Muñoz, Emilio Bouza |
| **Paneles inmunitarios de ratón por citometría de flujo** | EP24382518 | FIBHGM, UC3M | Lorena Cussó Mula, Manuel Desco, Ainara Barco, Elena Blázquez, Rocío López Esteban, Rafael Correa Rocha, Marjorie Pion |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **RapToR: Programa de Reconstrucción de imágenes CT** | M-3480/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| **FUX-SIM: Software de simulación para sistemas de radiología** | M-3481/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero |
| **XAPLAB: Software de simulación de protocolos de adquisición en radiología** | M-3486/2017 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Álvaro Martínez, Alba García |
| **CIBERSAMXnat: Plataforma de almacenamiento de datos de neuroimagen en entorno Cloud** | M-007734/2020 | CIBER, FIBHGM | Manuel Desco, Susana Carmona, Daniel Martín de Blas, David García, Alberto Fernández |
| **STRAY - Plataforma de simulación para sistemas de radiología** | M-004597/2021 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero |
| **REXCT: Algoritmo rápido de reconstrucción de imagen tomográfica** | M-004598/2021 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero |
| **Radboost: Software de realce automático de imagen radiográfica** | M-008554/2023 | FIBHGM, UC3M | Manuel Desco, Mónica Abella, Fco. Javier García Blas, Jesús Carretero Pérez |
| **3D Stitch: Software de pegado automático de volúmenes para ampliación de campo de visión** | M-002342/2024 | UC3M<br>FIBHGM | Mónica Abella García, Jesús Carretero Pérez, Manuel Desco Menéndez, Francisco Javier García Blas, Daniel Sanderson Moreno |

Transferred Industrial Property 31/12/2025

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| CIBER | CIBERSAM | Collaborating group | CIBERSAM |

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| Platform | Plataforma ISCIII de Biomodelos y Biobancos | Collaborating group | PT23/00027 |
| Other: R&D activity programs between research groups in the Community of Madrid in Biomedicine | R&D activity programs between research groups in the Community of Madrid in Biomedicine 2022 | Coordinating group | RENIM-CM |
| Platform | Plataforma ISCIII de Biomodelos y Biobancos | Collaborating group | PT20/00044 |
| Other | Research Networks | Other | RED2022-134299-T |

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Albaladejo García, Virginia* | *Evaluation of goat milk exosomes as natural platforms for controlled release of curcumin* | *Salinas Rodríguez, Beatriz* | *Uc3M* | *09/01/2025* |
| *Ph Thesis* | *Matesanz Fernández-Arias, Ana* | *Innovative, non-invasive, and real-time oxygen sensing method for tissue engineering* | *Jorcano Noval, José Luis; Acedo Gallardo, Pablo* | *Uc3M* | *21/02/2025* |
| *Ph Thesis* | *González-Rico Iriarte, Jorge* | *Manufacturing, Mechanical Characterization and Modelling of Magneto-Active Hydrogels for Mechano-Biological Stimulation* | *García González, Daniel; Velasco Bayón, Diego* | *Uc3M* | *14/03/2025* |
| *Ph Thesis* | *Risueño Rojo, Ignacio* | *Generation of a three-dimensional skin model based on a fibrin gel in a dynamic skin-on-a-chip platform* | *Velasco Bayón, Diego; Valencia Blanco, Leticia* | *Uc3M* | *04/04/2025* |
| *Ph Thesis* | *Llorente Úbeda, Vicente* | *Advanced optical tissue clearing and 3-dimensional microscopy techniques for biomedical research* | *Gómez Gaviro, Mª Victoria; Desco Menéndez, Manuel* | *Uc3M* | *01/07/2025* |

## *Publications* *Total Impact Factor: **114***

| | Nº | IF |
|---|---|---|
| Own publications | 6 | 54.1 |
| Joint publications | 7 | 59.9 |
| First decile publications | 7 | 81.8 |
| First quartile publications | 12 | 110.6 |
| Second quartile publications | 1 | 3.4 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **14** | **114** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Caspani, S; Fernández-Alonso, FJ; Gonçalves, SM; Martín-Morales, C; Cortes-Llanos, B; Vieira, BJC; Waerenborgh, JCB; Pereira, LCJ; Apolinario, A; Araújo, JP; Gómez-Gaviro, MV; Torres-Costa, V; Silván, MJM; de Sousa, CT. *Anisotropic Porous Iron-Based Nanoparticles through Two-Step Hydrothermal and Hydrogen-Based Reduction: Enhanced Magnetic Performance for Potential Biomedical Applications*. ACS APPLIED MATERIALS & INTERFACES. 2025; 17(11) 16602-16615. IF: 7.8. Quartile: 1. (Article).

- Lalaguna, L; Arévalo-Núñez de Arenas, M; López-Olañeta, M; Villalba-Orero, M; Jiménez-Riobóo, RJ; Gómez-Gaviro, MV; Isern, J; Muñoz-Cánoves, P; Byrne, BJ; Ochoa, JP; García-Pavía, P; Lara-Pezzi, E. *Overexpression of Wild-Type TMEM43 Improves Cardiac Function in Arrhythmogenic Right Ventricular Cardiomyopathy Type 5*. CIRCULATION RESEARCH. 2025; 136(8) 830-844. IF: 18. Quartile: 1. (Article).

- González-Arjona, M; Cussó, L; Alcalá, L; González, MI; de Francisco, A; Fernández-Aceñero, MJ; Sehlin, D; Syvänen, S; Bouza, E; Muñoz, P; Desco, M; Salinas, B. *Development of a toxin-selective immunotracer for in vivo detection of Clostridioides difficile infection by immunoPET*. EJNMMI RADIOPHARMACY AND CHEMISTRY. 2025; 10(1). IF: 3.7. Quartile: 1. (Article).

- Soler, A; Madrid-Gambín, F; Khymenets, O; Servin-Barthet, C; Martínez-García, M; Paternina-Die, M; Montané-García, M; Pretus, C; Carmona, S; Pozo, OJ; Vilarroya, O. *The cumulative production and conjugation of steroid hormones during pregnancy predict postpartum depressive mood*. EUROPEAN NEUROPSYCHOPHARMACOLOGY. 2025; 94 20-21. IF: 8.1. Quartile: 1. (Editorial Material).

- Matesanz, A; Sanz-Horta, R; Gallardo, A; Quílez, C; Reinecke, H; Acedo, P; Velasco, D; Martínez-Campos, E; Jorcano, JL; Elvira, C. *Succinimidyl Alginate-Modified Fibrin Hydrogels from Human Plasma for Skin Tissue Engineering*. GELS. 2025; 11(7). IF: 6.4. Quartile: 1. (Article).

- Lamas-Paz, A; Hionides-Gutierrez, A; Guo, FF; Jorquera, G; Moran-Blanco, L; Benede-Ubieto, R; Mesquita, M; Estevez-Vazquez, O; Zheng, K; Mazariegos, M; Vazquez-Ogando, E; Blazquez-Lopez, E; Asensio, I; Mutlu, B; Gomez-Santos, B; Peligros, MI; Vaquero, J; Banares, R; Delgado, TC; Martinez-Chantar, ML; Martinez-Naves, E; Sanz-Garcia, C; Mohamed, MR; Tesolato, S; Iniesta, P; Gallego-Duran, R; Maya-Miles, D; Ampuero, J; Romero-Gomez, M; Martinez-Alcocer, A; Sanfeliu-Redondo, D; Fernandez-Iglesias, A; Gracia-Sancho, J; Coll, M; Graupera, I; Gines, P; Ciudin, A; Rivera-Esteban, J; Pericas, JM; Avila, MA; Frutos, MD; Martinez-Caceres, CM; Ramos-Molina, B; Aspichueta, P; Puigserver, P; Nevzorova, YA; Cubero, FJ. *Loss of Cdkn1a protects against MASLD alone or with alcohol intake by preserving lipid homeostasis*. JHEP REPORTS. 2025; 7(1). IF: 8.7. Quartile: 1. (Article).

- Servin-Barthet, C; Martínez-García, M; Paternina-Die, M; Marcos-Vidal, L; de Blas, DM; Soler, A; Khymenets, O; Bergé, D; Casals, G; Prats, P; Pozo, OJ; Pretus, C; Carmona, S; Vilarroya, O. *Pregnancy entails a U-shaped trajectory in human brain structure linked to hormones and maternal attachment*. NATURE COMMUNICATIONS. 2025; 16(1). IF: 18.1. Quartile: 1. (Article).

- Soares, FA; Salinas, B; Reis, S; Nunes, C. *Hyaluronic acid-engineered milk extracellular vesicles to target triple negative breast cancer through CD44*. PHARMACEUTICAL BIOLOGY. 2025; 63(1) 411-427. IF: 6. Quartile: 1. (Article).

- Carmona, S; Vilarroya, O. *The transition to parenthood: Linking hormones, brain, and behavior*. PSYCHONEUROENDOCRINOLOGY. 2025; 172. IF: 3.4. Quartile: 2. (Editorial Material).

- Ballesteros, C; Paternina-Die, M; Martínez-García, M; López-Montoya, G; Noguero, I; Desco, M; Vilarroya, O; de Blas, DM; Carmona, S. *Linking birth experience and perinatal depression symptoms to neuroanatomical changes in hippocampus and amygdala*. SCIENCE ADVANCES. 2025; 11(10). IF: 13.9. Quartile: 1. (Article).

- Delgado-Rodriguez, P; Vitoria, I; Ríos-Muñoz, GR; Bardia, L; Lamanna-Rama, N; Nicolas-Saenz, L; Sporring, J; Soto-Montenegro, ML; Aldabe, R; Colombelli, J; Muñoz-Barrutia, A. *In-depth 3D exploration of autosomal dominant polycystic kidney disease through light sheet fluorescence microscopy*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

- Casquero-Veiga, M; Llorca-Torralba, M; Bueno-Fernandez, C; Romero-Miguel, D; Lamanna-Rama, N; Winter, C; Berrocoso, E; Nacher, J; Desco, M; Soto-Montenegro, ML. *Unraveling the potential of hypothalamic deep brain stimulation for obesity: Impacts on memory, neuroplasticity and brain metabolism in the Zucker rat*. TRANSLATIONAL PSYCHIATRY. 2025; 15(1). IF: 7.5. Quartile: 1. (Article).

- Romero-Miguel, D; Casquero-Veiga, M; Lamanna-Rama, N; Chávez-Valencia, R; Gómez-Rangel, V; Hadar, R; Winter, C; Desco, M; Soto-Montenegro, ML. *Prenatal omega-3 fatty acids supplementation mitigates some schizophrenia-like deficits in offspring: A PET and MRI study in a rat model*. TRANSLATIONAL PSYCHIATRY. 2025; 15(1). IF: 7.5. Quartile: 1. (Article).

***Publications from the WOS Core Collection without Impact Factor:***

- Fortea L; Solanes A; Pomarol-Clotet E; Garcia-Leon MA; Fortea A; Torrent C; Varo C; Bonnin CDM; Montejo L; Alonso J; Carmona S; Soldevila-Matías P; Alustiza I; Arbós D; Hidalgo-Mazzei D; Grande I; Vieta E; Fullana MÀ; Radua J. *Coping behaviors to reduce anxiety and depressive symptoms: A prospective repeated assessment study.* SPANISH JOURNAL OF PSYCHIATRY AND MENTAL HEALTH. 2025; 18(1) 42-50. (Article).

# *1.02 Signal processing*

Group Director: **Antonio Artés Rodríguez**

Organisms involved: **UC3M**

**Consolidated Group**

## *Description of the research group*

The Signal Processing and Learning Group focuses its research and teaching activities on the following areas: detection, estimation and classification of signals and images, machine learning, computational statistics in signal processing, information theory and related applications in communications, medicine, geophysics and social sciences.

## *Research lines*

L1. Merging information from monitoring devices
L2. Data mining in psychiatry
L3. Monitoring
L4. Ambulatory monitoring with wearable devices
L5. Support for the diagnosis of cardiac arrhythmias
L6. Signal processing and machine learning for medicine

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALVAREZ | RODRIGUEZ | CLARA | Female | R1 | First Stage Researcher |
| ARTÉS | RODRÍGUEZ | ANTONIO | Male | R4 | Leading Researcher |
| AYUSO | GARCIA | ISABEL | Female | R1 | First Stage Researcher |
| AZNARAN | ALCANTARA | LORENA CRISTINA | Female | R1 | First Stage Researcher |
| BONILLA | ESCRIBANO | PABLO | Male | R2 | Recognised Researcher |
| CHAUDRY | MORA | IQBAL | Male | Other | Laboratory Technician |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| CURBELO | BENITEZ | ERNESTO | Male | R2 | Recognised Researcher |
| DE DIEGO | HIDALGO | PAULA | Female | Other | Laboratory Technician |
| DE FRUTOS | PORRAS | JOSE MANUEL | Male | R1 | First Stage Researcher |
| FERNANDEZ | RODRIGO | RUBEN | Male | Other | Laboratory Technician |
| FERREZUELO | OTEO | CRISTIAN | Male | R1 | First Stage Researcher |
| GALLARDO | ANTOLIN | ASCENSION | Female | R3 | Established Researcher |
| GALLEGO | BRAVO | LUCAS | Male | Other | Laboratory Technician |
| GARCIA | PEREZ | DIEGO | Male | R1 | First Stage Researcher |
| GARCÍA | NAVARRO | ALEJANDRO LEONARDO | Male | R1 | First Stage Researcher |
| GARRIDO | FERNANDEZ | DAVID | Male | R1 | First Stage Researcher |
| GOMEZ | VERDEJO | VANESSA | Female | R3 | Established Researcher |
| GONZALEZ | HERNANDEZ | OMAR FABIAN | Male | R2 | Recognised Researcher |
| KOCH | | TOBIAS | Male | R3 | Established Researcher |
| LANCHO | SERRANO | ALEJANDRO | Male | R3 | Established Researcher |
| LEONG | | XIN YING | Female | Other | Laboratory Technician |
| LIZARRIBAR | CARRILLO | JORGE | Male | R1 | First Stage Researcher |
| LOPEZ | ELVIRA | IGOR | Male | Other | Project Manager |
| LOPEZ | SANTIAGO | JAVIER | Male | R3 | Established Researcher |
| LOPEZ-DORIGA | COSTALES | JUAN | Male | R1 | First Stage Researcher |
| MARTIN | RUIZ | ALVARO | Male | Other | Laboratory Technician |
| MARTINEZ | ORDOÑEZ | JOSE ALBERTO | Male | R2 | Recognised Researcher |
| MARTINEZ | RUBIO | DAVID | Male | R2 | Recognised Researcher |
| MARTÍNEZ | OLMOS | PABLO | Male | R3 | Established Researcher |
| MUÑOZ | BALADRON | ISABEL | Female | Other | Project Manager |
| MÍGUEZ | ARENAS | JOAQUIN | Male | R3 | Established Researcher |
| NICOLAU | CASADEMONT | XENIA | Female | R1 | First Stage Researcher |
| OLIVER | COIMBRA | RODRIGO | Male | R1 | First Stage Researcher |
| PARRADO | HERNANDEZ | EMILIO | Male | R3 | Established Researcher |
| PAZ | ARBAIZAR | LEIRE | Female | R1 | First Stage Researcher |
| PELEATO | IÑARREA | BORJA | Male | R3 | Established Researcher |
| PEREZ | SABATER | JOSUE | Male | R1 | First Stage Researcher |
| PEREZ | SERRANO | MARCOS | Male | Other | Laboratory Technician |
| PIZARRO | CARREÑO | RICARDO IGNACIO | Male | R1 | First Stage Researcher |
| PONCET | | ADELINE MARIE | Female | Other | Laboratory Technician |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| RAMIREZ | GARCÍA | DAVID | Male | R3 | Established Researcher |
| RODRIGUEZ | HERVAS | EMMA | Female | Other | Laboratory Technician |
| RUIZ | SALCEDO | JAIME | Male | Other | Laboratory Technician |
| SALCEDO | FERNANDEZ | MIGUEL | Male | Other | Other |
| SANCHEZ | SANTOS | BLANCA | Female | Other | Laboratory Technician |
| SOMAI | | MOHAMED AZIZ | Male | Other | Laboratory Technician |
| SZTAMFATER | GARCÍA | YANNICK | Male | Other | Laboratory Technician |
| TABLADO | FELIX | PATRICIA | Female | Other | Project Manager |
| UALIKHANKYZY | | ZHULDYZ | Female | Other | Laboratory Technician |
| VAZQUEZ | ALVAREZ | RICARDO | Male | Other | Laboratory Technician |
| VÁZQUEZ | LÓPEZ | MANUEL ALBERTO | Male | R3 | Established Researcher |
| VÁZQUEZ | VILAR | GONZALO | Male | R3 | Established Researcher |
| WATMAN | OUTON | ANDRES EMILIO | Male | Other | Laboratory Technician |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | **3** | | |
| **European** | | **2** | | |
| **National** | **1** | **17** | | **2** |
| **Regional** | | **4** | | **5** |

TITLE: **Optimización y validación de SCANHEALTH, una herramienta rentable de espectroscopia infrarroja con integración de IA para la detección precoz de múltiples cánceres en biopsias líquidas** (CPP2024-011358)
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/12/2025
END DATE: 30/11/2028

* **Not managed by the FIBHGM**

TITLE: **A Probabilistic Approach to Updating Catalogues and Determining Orbits**
DIRECTOR: LÓPEZ SANTIAGO, JAVIER
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN SPACE AGENCY (ESA)
START DATE: 05/02/2025
END DATE: 05/05/2027

TITLE: **Robust Orbit Determination for Space Debris – T811-701SD**. ROBUSSTOD

DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: International research project
FUNDING BODY: GMV
START DATE: 14/11/2022
END DATE: 02/02/2025

TITLE: **ROBUST Atmosphere Error Modelling for Sustainable Operations - T711-803SD**. T711-803SD
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: International research project
FUNDING BODY: NORTHSTAR EARTH & SPACE EUROPE S.À R.L.
START DATE: 23/10/2025
END DATE: 23/10/2026

TITLE: **Advanced detection algorithms for passive radar**. N62909-23-1-2002
DIRECTOR: RAMIREZ GARCÍA, DAVID
PROJECT TYPE: International research project
FUNDING BODY: Office of Naval research
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **"Uncertainty propagation methods for collision avoidance in autonomous navigation" RTD**. N629092412095
DIRECTOR: LÓPEZ SANTIAGO, JAVIER
PROJECT TYPE: International research project
FUNDING BODY: Office of Naval research
START DATE: 01/08/2024
END DATE: 31/07/2027

TITLE: **Modelos Generativos para Problemas Inversos en Comunicaciones Inalámbricas**. PID2023-148856OA-I00
DIRECTOR: LANCHO SERRANO, ALEJANDRO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2024
END DATE: 31/08/2027

TITLE: **Una solución integral de medicina personalizada para el cuidado de pacientes de cáncer de la mujer basada en la intervención dietética, de hábitos de vida y de bienestar emocional**. CPP2023-010721
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/12/2024
END DATE: 30/11/2027

TITLE: **Modelos profundos y explicables basados en variables latentes para salud mental / Explainable deep latent representations for patient-centered mental health**. PID2021-123182OB-I00
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project

FUNDING BODY: AEI
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Cuantificación de incertidumbre en modelos físicos estocásticos: filtros profundos y métodos de Monte Carlo espacio-temporales / Uncertainty quantification for stochastic physical models: deep filters and space-time Monte Carlo methods**. PID2021-125159NB-I00
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2022
END DATE: 31/08/2025

TITLE: **Almacenaje y Transmisión de Información sobre Redes Autónomas y Distribuídas -ADICT-Net**. PID2022-142506NA-I00
DIRECTOR: PELEATO IÑARREA, BORJA
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Prevención de reCAídas en tRastornos dE conducta. - PreCARE**. PRTR-CPP2022-009537
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 30/11/2023
END DATE: 29/11/2026

TITLE: **"Representaciones Discretas Calibradas y Modelado de Series Temporales con Redes Auto-supervisadas Robustas "**. PID2024-157856NB-I00
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Adaptive and Accelerated Optimization for Machine Learning**. PID2024-160448NA-I00
DIRECTOR: MARTÍNEZ RUBIO, DAVID
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Modelado generativo para inferencia y predicción en modelos físicos complejos**. PID2024-158181NB-I00
DIRECTOR: MÍGUEZ ARENAS, JOAQUÍN
PROJECT TYPE: Research project
FUNDING BODY: AEI

START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Superando la Brecha Cuántica: Teoría de la Comunicación para Sistemas Cuánticos 1**. PID2024-159557OB-C21
DIRECTOR: MIRCO KOCH, TOBIAS
PROJECT TYPE: Research project
FUNDING BODY: AEI
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Integración longitudinal de datos generados por paciente y determinaciones multi-omicas para una oncología de precisión integral en cáncer de la mujer.** PRTR-PMP22/00032
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Medicina Personalizada (MedPer) en la detección precoz del deterioro cognitivo (DC) preclínico. Desarrollo de un modelo predictivo de riesgo.** PRTR-PMP22/00084
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Prevención de la conducta suicida mediante intervenciones terapéuticas guiadas por fenotipo digital y farmacogenética**. PRTR-PMP24/00026
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Instituto de Salud Carlos III PERTE Salud
START DATE: 27/11/2025
END DATE: 31/12/2026

TITLE: **Consultoría en modelado bayesiano avanzado para el cribado automático de enfermedades**
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Amber Health
START DATE: 06/06/2025
END DATE: 05/06/2026

TITLE: **THAI: TOWARDS HUMBLE AND DISCOVERABLE AI**. LEO24-1-12903
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: BBVA
START DATE: 30/09/2024

END DATE: 29/03/2026

TITLE: **Research and Implementation of a Digital Model for Radar Warning Receiver**. RIDWaRe
DIRECTOR: PELEATO IÑARREA, BORJA
PROJECT TYPE: Research project
FUNDING BODY: INDRA SISTEMAS, SA
START DATE: 07/04/2025
END DATE: 21/03/2026

TITLE: **Multisite Smartphone-based Ecological Momentary Intervention for suicide prevention**. HR23-00421
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: La Caixa
START DATE: 01/03/2024
END DATE: 28/02/2027

TITLE: **Patient-centered mental health with attention machine learning (PaC-MAN)**. IND2022/TIC-23550
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **IRIS: Hacia un asistente personal para la mejora del bienestar emocional**. IND2023/TIC-27508
DIRECTOR: RAMIREZ GARCÍA, DAVID
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Foundation Behavioral Models for Computational Psychiatry (BehavMind)**. IND2024/TIC-34728
DIRECTOR: MARTÍNEZ OLMOS, PABLO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 24/09/2025
END DATE: 23/09/2028

TITLE: **Apoyo al desarrollo del nodo ELLIS de la Comunidad de Madrid (European Laboratory for Learning and Intelligent Systems) mediante la implantación de una Unidad ELLIS en la Comunidad de Madrid (ELLIS Unit Madrid)**. ELLIS
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Inteligencia artificial para la industria 4.0: generación de datos, modelado avanzado, optimización e interpretabilidad**. TEC-2024/COM-89
DIRECTOR: ARTÉS RODRÍGUEZ, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Additional grant for researcher Pablo Bonilla Escribano under the Juan de la Cierva 2023 program** JDC2023-052330-I
DIRECTOR: Pablo Bonilla Escribano (Pablo Bonilla)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Additional grant for researcher David Martínez Rubio under the Juan de la Cierva 2023 program** JDC2023-051006-I
DIRECTOR: David Rubio (David Rubio)
PROJECT TYPE: Human Resources
FUNDING BODY: AEI
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Grant for hiring a research assistant. Youth Employment Program, 2024 call** PEJ-2024-AI/COM-32104
DIRECTOR: Gonzalo Vázquez Vilar (Cristian Ferrezuelo)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/03/2025
END DATE: 28/02/2027

TITLE: **Grant for hiring a research assistant** PEJ-2024-AI/COM-32081
DIRECTOR: Alejandro Lancho (Diego Arsenio)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2027

TITLE: **Distributed intelligence in wireless networks. Research Talent Attraction Program CM (2020)** 2020-T1/TIC-20698
DIRECTOR: (Borja Peleato)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 27/12/2021
END DATE: 26/12/2026

TITLE: **Additional funding for researcher Alejandro Lancho Serrano under the "César Nombela" Research Talent Attraction Program 2023** 2023-T1/COM-29065
DIRECTOR: Alejandro Lancho (Alejandro Lancho)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid

START DATE: 01/07/2024
END DATE: 30/06/2029

TITLE: **Grant for hiring predoctoral research staff in training.** PIPF-2024/COM-35672
DIRECTOR: Antonio Artés Rodríguez (Josué Pérez Sabater)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| CIBER | CIBERSAM | Associated group | CIBERSAM |
| Other | International Society for Bayesian Analysis | | ISBA |
| Other | ELLIS Unit Madrid | Coordinating group | ELLIS Unit Madrid |

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| *Ph Thesis* | *Martínez Ordoñez, Jose Alberto* | *Discrete-time nonlinear Markov switching models: stability, inference and physical applications* | *Míguez Arenas, Joaquín* | *UC3M* | *15/07/2025* |
| *Ph Thesis* | *Sztamfater García, Yannick* | *Probabilistic Quantification of Uncertainty in Space Object Tracking and Orbital Safety Analysis* | *Míguez Arenas, Joaquín; Sanjurjo Rivo, Manuel* | *UC3M* | *11/11/2025* |
| *Ph Thesis* | *Belenguer Llorens, Albert* | *Bayesian Learning in High Dimensional Medical Data* | *Gomez Verdejo, Vanessa; Sevilla Salcedo, Carlos* | *UC3M* | *11/03/2025* |
| *Ph Thesis* | *Jiménez Rama, Óscar Manuel* | *Machine Learning for Computational Psychiatry* | *Martínez Olmos, Pablo; Ramírez García, David* | *UC3M* | *14/10/2025* |
| *Ph Thesis* | *Cano Sánchez, Alejandro* | *Advanced methods for orbital uncertainty characterization applied to the Space Surveillance and Tracking* | *Míguez Arenas, Joaquín; Escobar Antón, Diego* | *UC3M* | *07/02/2025* |
| *Ph thesis* | *Curbelo Benítez, Ernesto Ángel* | *Efficient Inference Schemes Using Bayesian Approach and Machine Learning* | *Delgado Gómez, David; Martino, Luca* | *UC3M* | *21/05/2025* |

## *Publications* *Total Impact Factor: **49,4***

| | Nº | IF |
|---|---|---|
| Own publications | 5 | 27.8 |
| Joint publications | 4 | 21.6 |

| | | |
|---|---|---|
| First decile publications | 4 | 32.3 |
| First quartile publications | 7 | 45.5 |
| Second quartile publications | 1 | 1.8 |
| Third quartile publications | 1 | 2.1 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **11** | **49.4** |

## ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- de Leon, J; de Leon-Martinez, S; Artés-Rodríguez, A; Baca-García, E; de las Cuevas, C. *Reflections on the Potential and Risks of AI for Scientific Article Writing after the AI Endorsement by Some Scientific Publishers: Focusing on Scopus AI*. ACTAS ESPANOLAS DE PSIQUIATRIA. 2025; 53(2) 433-442. IF: 2.1. Quartile: 3. (Review).

- Blázquez-Sánchez, M; Guerrero-López, A; Candela, A; Belenguer-Llorens, A; Moreno, JM; Sevilla-Salcedo, C; Sánchez-Cueto, M; Arroyo, MJ; Gutiérrez-Pareja, M; Gómez-Verdejo, V; Olmos, PM; Mancera, L; Muñoz, P; Marín, M; Alcalá, L; Rodríguez-Temporal, D; Rodríguez-Sánchez, B. *Automated web-based typing of Clostridioides difficile ribotypes via MALDI-TOF MS*. BMC BIOINFORMATICS. 2025; 26(1). IF: 4.4. Quartile: 1. (Article).

- Belenguer-Llorens, A; Sevilla-Salcedo, C; Tohka, J; Gomez-Verdejo, V. *Unified Bayesian representation for high-dimensional multi-modal biomedical data for small-sample classification*. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. 2025; 160. IF: 9. Quartile: 1. (Article).

- Gallego-Viñarás, L; Mira-Tomás, JM; Gaeta, AM; Pinol-Ripoll, G; Barbé, F; Olmos, PM; Muñoz-Barrutia, A. *Alzheimers Disease Detection in EEG Sleep Signals*. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2025; 29(2) 948-959. IF: 7.7. Quartile: 1. (Article).

- Lancho, A; Weiss, A; Lee, GCF; Jayashankar, T; Kurien, BG; Polyanskiy, Y; Wornell, GW. *RF Challenge: The Data-Driven Radio Frequency Signal Separation Challenge*. IEEE OPEN JOURNAL OF THE COMMUNICATIONS SOCIETY. 2025; 6 4083-4100. IF: 6.2. Quartile: 1. (Article).

- Harsha, KV; Ravi, J; Koch, T. *On the Second-Order Asymptotics of the Hoeffding Test and Other Divergence Tests*. IEEE TRANSACTIONS ON INFORMATION THEORY. 2025; 71(10) 7459-7483. IF: 2.6. Quartile: 1. (Article).

- Barrigón, ML; Schmidt, C; Elices, M; Porras-Segovia, A; Granda-Beltrán, AMD; Artés-Rodríguez, A; Courtet, P; Pérez-Sola, V; Baca-García, E. *Impact of Digital Safety Plan Activation on Subsequent Emergency Departments Visits Following an Initial Suicide Attempt: Quasi-Experimental Study*. JMIR MENTAL HEALTH. 2025; 12. IF: 7.4. Quartile: 1. (Article).

- Paz-Arbaizar, L; Lopez-Castroman, J; Artés-Rodríguez, A; Olmos, PM; Ramírez, D. *Emotion Forecasting: A Transformer-Based Approach*. JOURNAL OF MEDICAL INTERNET RESEARCH. 2025; 27. IF: 8.2. Quartile: 1. (Article).

- González, F; Akyildiz, OD; Crisan, D; Míguez, J. *Nudging state-space models for Bayesian filtering under misspecified dynamics*. STATISTICS AND COMPUTING. 2025; 35(4). IF: 1.8. Quartile: 2. (Article).

## ***Publications from the WOS Core Collection without Impact Factor:***

- Martinez-García, M; Villacrés, G; Mitchell, D; Olmos, PM. *Improved Variational Inference in Discrete VAEs using Error Correcting Codes*. CONFERENCE ON UNCERTAINTY IN ARTIFICIAL INTELLIGENCE. 2025; 286 2973-3012. (Proceedings Paper).

## ***Other publications:***

- Belenguer-Llorens A; Sevilla-Salcedo C; Parrado-Hernández E; Gómez-Verdejo V. *Addressing wide-data studies of gene expression microarrays with the Relevance Feature and Vector Machine.* COMPUTERS IN BIOLOGY AND MEDICINE. 2025; 197(Pt A) 110985-110985. (Article).

# 1.03 Computer architecture, communications, and systems: ARCOS

Group Director: **Jesús Carretero Pérez**

Organisms involved: **UC3M**

**Consolidated Group**

## Description of the research group

The research group of computer architecture, communications and systems (ARCOS) represents the Computer Architecture and Technology Area at the Carlos III of Madrid University.

Its main objective is to investigate and develop hardware and software systems in the areas of real-time and embedded systems, high-performance computing, storage systems, dependable systems.

ARCOS is a dynamic research group that is currently conducting research in various HPC areas. Our research activities are oriented to the development of new software for large-scale parallel and distributed systems, These activities cover the development and optimization of parallel and distributed applications, real time, reliable designs, and high performance computing, including cross-layer optimizations of HPC storage I/O stack, parallel file systems, I/O acceleration of scientific workflows, auto-tuning of parallel I/O based on machine learning, dynamic monitoring of HPC infrastructures, convergence of HPC and Bigdata software stacks, and resource allocation elasticity in HPC and clouds.

All the former knowledge has been applied to several scientific and industrial areas, such as fluid mechanics, reconstruction of 3D medical images, Big Data Analytics, finance computing, and simulations involving complex systems, trying to combine real world engineering with cutting-edge research topics. As a result, ARCOS has strong relations with a portfolio of major European laboratories and companies in areas such as Informatics, Bioengineering and Aerospace.

Moreover, ARCOS researchers have led several European projects, such as COST Action IC1305 entitled 'Network for Sustainable Ultrascalar Computing' (NESUS, www.nesus.eu), in which more than 70 institutions from 40 countries around the world participated, and the REPARA (www.repara-project.eu) and RePhrase (rephrase-ict.eu) projects, which address the programmability of parallel systems, with a special focus on heterogeneous architectures.

In addition, ARCOS has actively participated in the standardisation of the C++ programming language (representing Spain on the ISO C++ standards committee).

## Research lines

**Axis 1: High-performance processing**

- Line 1: Cluster processing.
- Line 2: Cloud computing.
- Line 1: High-performance storage.
- Line 1: GPU processing.

**Axis 2: Medical image processing**

- Line 1: Real-time reconstruction of 3D images.

**Axis 3: Epidemic simulators**

- Line 1: Simulation of influenza with social information.

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| CALDERON | MATEOS | ALEJANDRO | Male | | |
| CAMARMAS | ALONSO | DIEGO | Male | | |
| CARRETERO | PEREZ | JESUS | Male | R4 | Leading Researcher |
| CRISTOBAL | BOCOS | HUMBERTO | Male | | |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| DEL POZO | PUÑAL | ELIAS | Male | | |
| EXPOSITO | SINGH | DAVID | Male | | |
| FERNANDEZ | MUÑOZ | JAVIER | Male | | |
| GARCIA | BLAS | FRANCISCO JAVIER | Male | | |
| GARCIA | CARBALLEIRA | FELIX | Male | | |
| GARCIA | FERNANDEZ | ALBERTO | Male | | |
| GARCIA | SANCHEZ | JOSE DANIEL | Male | | |
| MARTINEZ | RENDON | CHRISTIAN | Male | | |
| SANCHEZ | GALLEGOS | DANTE | Male | | |
| VISUÑA | PEREZ | LARA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **58,1***

| | Nº | IF |
|---|---|---|
| Own publications | 9 | 52.2 |
| Joint publications | 1 | 5.9 |
| First decile publications | 3 | 25 |
| First quartile publications | 8 | 53.7 |
| Second quartile publications | 1 | 3.5 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 1 | 0.9 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **10** | **58.1** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Torres-Charles, CA; Sanchez-Gallegos, DD; Gonzalez-Compean, JL; Morales-Sandoval, M; Carretero, J. *Xook-Sec: A policy-as-code framework for secure data-sharing on the computing continuum*. CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS. 2025; 28(14). IF: 5.5. Quartile: 1. (Article).

- Muñoz-Muñoz, D; Garcia-Carballeira, F; Camarmas-Alonso, D; Calderon-Mateos, A; Carretero, J. *Malleability and fault tolerance in ad-hoc parallel file systems*. CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS. 2025; 28(13). IF: 5.5. Quartile: 1. (Article).

- Visuña, L; Garcia-Blas, J; Ferrer-Bazaga, S; Lopez-Exposito, P; Carretero, J. *Automated monitoring of Mycobacterium population growth in time-lapse microscopy with Deep Learning pseudo-supervised algorithm*. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. 2025; 162. IF: 9. Quartile: 1. (Article).

- Barron-Lugo, JA; Lopez-Arevalo, I; Gonzalez-Compean, JL; Morin-Garcia, JC; Crespo-Sanchez, M; Carretero, J. *An avatar cloud service based method for supervising and interacting with containerized applications*. EXPERT SYSTEMS WITH APPLICATIONS. 2025; 269. IF: 9.4. Quartile: 1. (Article).

- Al-Maaitah, NO; Garcia-Blas, J; Sanchez-Gallegos, G; Carretero, J; Vef, MA; Brinkmann, A. *A comparative study of ad-hoc file systems for extreme scale computing*. FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE. 2025; 170. IF: 5.9. Quartile: 1. (Review).

- Belcastro, L; Carretero, J; Talia, D. *Edge-cloud solutions for big data analysis and distributed machine learning-2*. FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE. 2025; 167. IF: 5.9. Quartile: 1. (Article).

- Espinoza, C; Carretero, J. *Profiling and Archetyping of Higher Education Applicants Using Intelligent Data Analysis Techniques*. IEEE REVISTA IBEROAMERICANA DE TECNOLOGIAS DEL APRENDIZAJE-IEEE RITA. 2025; 20 139-151. IF: 0.9. Quartile: 4. (Article).

- Carretero, J; Garcia-Blas, J; Shende, S. *Guest Editorial: New Tools and Techniques for the Distributed Computing Continuum*. IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS. 2025; 36(12) 2451-2454. IF: 5.9. Quartile: 1. (Editorial Material).

- Camarmas-Alonso, D; Garcia-Carballeira, F; Calderon-Mateos, A; Carretero, J. *Improving I/O performance in HPC environments using the Expand Ad-Hoc file system*. JOURNAL OF SUPERCOMPUTING. 2025; 81(16). IF: 3.5. Quartile: 2. (Article).

- Sanchez-Gallegos, DD; Carrizales-Espinoza, DE; Torres-Charles, C; Carretero, J. *Smart Cities: A Systematic Review of Emerging Technologies*. SMART CITIES. 2025; 8(5). IF: 6.6. Quartile: 1. (Review).

## *1.04 Nonparametric statistical and intensive computing techniques*

Group Director: **Juan Romo Urroz**

Organisms involved: **UC3M**

**Associated 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* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUILERA | MORILLO | MARIA DEL CARMEN | Female | | |
| ARRIBAS | GIL | ANA | Female | | |
| HERNANDEZ | ROIG | HAROLD ANTONIO | Male | | |
| LILLO | RODRIGUEZ | ROSA ELVIRA | Female | | |
| MENDEZ | CIVIETA | ALVARO | Male | | |
| ROMO | URROZ | JUAN | Male | R4 | Leading Researcher |
| STRZALKOVSKA | KOMINIAK | EWA | Female | | |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: 0*

| | Nº | IF |
|---|---|---|
| Own publications | - | - |
| Joint publications | - | - |
| First decile publications | - | - |
| First quartile publications | - | - |
| Second quartile publications | - | - |
| Third quartile publications | - | - |
| Fourth quartile publications | - | - |
| Nonindexed publications / No IF | - | - |
| **Total publications (including those without IF)** | **-** | **-** |

# 1.05 Structural and functional medical image

Group Director: **Jesús de la Torre Fernández and Juan A. Guzmán de Villoria**

Organisms involved: **HGUGM**

**Emerging Group**

## Description of the research group

The Structural and Functional Medical Imaging group is a transversal research group whose objective is the assessment, quantification and analysis of parameters obtained from medical imaging. The results obtained provide diagnostic, prognostic or predictive biomarkers of the pathological processes studied.

## Research lines

**Axis 1: Neuroimaging**

L1: Differentiation of tumour progression in high-grade gliomas using AI

L2: Post-Contrast T1 Synthetic MRI Imaging in Neuro-Oncology using Deep Learning in Multiparametric MRI

L3: Deep Electrode Stimulation in Movement Disorder Patients

**Axis 2: Paediatric imaging**

L1: Postnatal liver elastography reference values by gestational age and their usefulness in neonatal liver pathology with special attention to foetal growth restriction

L2: Study of cardiac morphology and function for the Pulsta® valve prosthesis

L3: Doppler and cerebral MRI in the study of hypothermia treatment of cerebral hypoxia-ischaemia in the neonate

**Axis 3: Thoracic imaging**

L1: Development of a framework for tomographic reconstruction of thoracic tomosynthesis based on deep learning

**Axis 4: Vascular and interventional imaging**

L1: Efficacy and safety in radicular liver segmentation

L2: TIPS (Tranjugular intrahpetic portosystemic shunt) treatment of portal thrombosis

L3: Endovascular embolisation of haemorrhage by anticoagulation

**Axis 5: Breast imaging**

L1: Comparison of 2D vs 3D mammography screening

L2: Application of AI-based algorithms in 2D and 3D mammography cancer screening programme

**Axis 6: Abdominal imaging**

L1: Correlation of tumour progression with liquid biopsy in pancreatic cancer

L2: Assessment of body density by CT scanning

**Axis 7: Gynaecological imaging**

L1: Relationship between pelvic biometry and maternal perinatal prognosis

L2: Radiological study of pelvic bone anatomy in women with a history of shoulder dystocia

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUADO | DEL HOYO | ALEJANDRA | Female | R1 | First Stage Researcher |
| CALLEJA | CARTON | ENRIQUE | Male | R1 | First Stage Researcher |
| CARRETERO | LOPEZ | FERNANDEZ | Male | R1 | First Stage Researcher |
| DE LA TORRE | FERNANDEZ | JESUS | Male | R1 | First Stage Researcher |
| DIEZ | PEREZ DE LAS VACAS | MARIA ISABEL | Female | R1 | Postdoctoral |
| ECHENAGUSIA | BOYRA | MIGUEL JESUS | Male | R1 | Laboratory Technician |
| FERNANDEZ | GARCIA | MARIA DEL PILAR | Female | R1 | Postdoctoral |
| GARRIDO | MORRO | IRENE | Female | R1 | Laboratory Technician |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| GONZALEZ | CANTERO | JORGE LUIS | Male | | |
| GONZALEZ | LEYTE | MANUEL | Male | R1 | First Stage Researcher |
| GUZMAN DE VILLORIA | LEBIEDZIEJEWSKI | JUAN ADAN | Male | R1 | Laboratory Technician |
| HERRERA | HERRERA | ISABEL | Female | R1 | First Stage Researcher |
| LANCHARRO | ZAPATA | ANGEL MIGUEL | Male | R1 | Laboratory Technician |
| MARIN | RODRIGUEZ | CARLOS | Male | R2 | Senior Researcher/Line Manager |
| MARTINEZ | OLLERO | JAVIER | Male | R | Predoctoral |
| NOVO | RIVAS | ULRIKE MARIA | Female | R | First Stage Researcher |
| PANIAGUA | GONZALEZ | MIGUEL | Male | R1 | Predoctoral |
| RODRIGUEZ | CARNERO | PABLO | Male | R | Senior Researcher/Line Manager |
| RUIZ | MARTIN | YOLANDA | Female | R2 | Postdoctoral |
| SANCHEZ | ALEGRE | MARIA LUISA | Female | R1 | Senior Researcher/Line Manager |
| SANCHEZ | GARCIA | DANIEL | Male | R1 | Senior Researcher/Line Manager |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | | | |
| **Regional** | | | | |

TITLE: **Diferenciación por RM de la progresión tumoral en gliomas de alto grado mediante IA** (PI23/01181)
DIRECTOR: GUZMÁN DE VILLORIA LEBIEDZIEJEWSKI, JUAN ADÁN
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026
END DATE: 11/07/2027

## *Publications* *Total Impact Factor: 36*

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 8.1 |
| Joint publications | 4 | 27.9 |
| First decile publications | 1 | 18.1 |

| | | |
|---|---|---|
| First quartile publications | 3 | 24.7 |
| Second quartile publications | 3 | 9.8 |
| Third quartile publications | 1 | 1.5 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **9** | **36** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Hernanz-Lobo, A; Gomez-Valverde, JJ; Lancharro, A; Sánchez-Jacob, R; Ribo, JL; Schaaf, HS; Delgado, LG; Capellán-Martín, D; Aguilera-Alonso, D; Blázquez-Gamero, D; Noguera-Julian, A; Rodríguez-Molino, P; Minguell, L; Bustillo-Alonso, M; Soriano-Arandes, A; Gomez-Pastrana, D; García-Basteiro, AL; Augusto, O; Ledesma-Carbayo, MJ; Lopez-Varela, E; Santiago-García, B. *Diagnostic performance of chest radiography for pediatric tuberculosis across high- and low-burden settings*. FRONTIERS IN PEDIATRICS. 2025; 13. IF: 2.2. Quartile: 2. (Article).

- Conthe, A; Ibanez-Samaniego, L; Calleja, E; Saralegui, P; Alvarez-Luque, A; Echenagusia, MJ; Gonzalez-Leyte, M; Carretero, F; Ballano, C; Lopez-Baena, JA; Rinco, D; Catalina, MV; Banares, R. *Feasibility, Safety and Efficacy of Transjugular Intrahepatic Portosystemic Shunt for the Management of Portal Vein Thrombosis in Cirrhosis*. JOURNAL OF CLINICAL AND EXPERIMENTAL HEPATOLOGY. 2025; 15(5). IF: 3.4. Quartile: 2. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Ortega, MA; Luis, JAL. *Technical Notes on Liver Elastography: A Guide for Use in Neonates in Intensive Care Units*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(5). IF: 3.3. Quartile: 1. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Recarte, MDP; Navarro, PG; González, PV; Rodríguez, CM; Martín, YR; Sanchez-Luna, M; Ortega, MA; Arribas, CB; Luís, JAL. *Reference Values for Liver Stiffness in Newborns by Gestational Age, Sex, and Weight Using Three Different Elastography Methods*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(15). IF: 3.3. Quartile: 1. (Article).

- Capellán-Martín, D; Gómez-Valverde, JJ; Sánchez-Jacob, R; Hernanz-Lobo, A; Schaaf, HS; García-Delgado, L; Augusto, O; Roshanitabrizi, P; García-Basteiro, AL; Ribó, JL; Lancharro, A; Noguera-Julian, A; Blázquez-Gamero, D; Linguraru, MG; Santiago-García, B; López-Varela, E; Ledesma-Carbayo, MJ. *Multi-view deep learning framework for the detection of chest X-rays compatible with pediatric pulmonary tuberculosis*. NATURE COMMUNICATIONS. 2025; 16(1). IF: 18.1. Quartile: 1. (Article).

- del Hoyo, AA; Pérez, MS; López, MV; de Andrés, LV; Zapata, AL; Martín, YR. *Neuroimmunological diseases in paediatric patients: New entities and update*. RADIOLOGIA. 2025; 67(2) 176-190. IF: 1.5. Quartile: 3. (Article).

- Rodríguez-González, E; Martínez-Legazpi, P; Mombiela, T; González-Mansilla, A; Delgado-Montero, A; Guzmán-De-Villoria, JA; Díaz-Otero, F; Prieto-Arévalo, R; Juárez, M; del Rey, MDG; Fernández-García, P; Flores, O; Postigo, A; Yotti, R; García-Villalba, M; Fernández-Avilés, F; del Alamo, JC; Bermejo, J. *Stasis imaging predicts the risk of cardioembolic events related to acute myocardial infarction: the ISBITAMI study*. REVISTA ESPANOLA DE CARDIOLOGIA. 2025; 78(1) 22-33. IF: 4.2. Quartile: 2. (Article).

***Other publications:***

- Munyangaju I; Carratala-Castro L; Acacio S; Escudero Fernández JM; Soriano-Arandes A; Espiau M; Garcia BS; Hernanz-Lobo A; Lancharro Zapata ÁM; Soler-Garcia A; Ladera E; Noguera-Julian A; Manzanares A; Blazquez D; Pascual EA; Massingue J; Dalsuco J; Bramugy J; Thierry-Chef I; Bassat Q; Buonsenso D; Lopez-Varela E; Serres-Créixams X. *POCUS Examination of the Mediastinum in Children: A Simplified and Standardized Protocol for Pulmonary Tuberculosis.* POCUS JOURNAL. 2025; 10(2) 123-134. (Article).

- Aguado Del Hoyo A; Sánchez Pérez M; Vázquez López M; Vara de Andrés L; Lancharro Zapata Á; Ruiz Martín Y. *Neuroinmunological diseases in paediatric patients: New entities and update.* RADIOLOGIA. 2025; 67(2) 176-190. (Article).

## *1.06 Biomedical applications of engineering*

Group Director: **Javier Pascau González and Arrate Muñoz Barrutia**

Organisms involved: **UC3M**

**Emerging group**

## *Description of the research group*

The main objective of the BSEL group is to develop high-impact translational research combining the disciplines of biomedical sciences and engineering. Our activity encompasses biomedical signal and image processing, electronic device design, nanoparticle synthesis, artificial intelligence and deep learning at all levels. Therefore, algorithms, methods and technologies from the field of biomedical engineering are combined to solve current problems in biomedicine, always with a focus on unmet clinical needs. In this way, we aim to move away from purely methodological development to offer solutions in touch with the existing demands of biomedical research.

## *Research lines*

**Axis 1: Biomedical applications of microscopy**

L1: Analysis of cellular biomechanics

L2: Collaboration in the development of advanced methods through open science

**Axis 2: Image-guided processing**

L1: Image-guided treatment with application in surgery

L2: Image-guided treatment with application in clinical simulation and training

L3: Reduction of toxicity in radiotherapy

**Axis 3: Biomedical devices and instrumentation**

L1: Advanced detectors and geometries for nuclear imaging

L2: Micro- and nanodevices for biomedical applications

**Axis 4: Biotechnology**

L1: Accelerating the development of new treatment regimens

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARIJOHN | RAKOTOARISEDY | IRINA | Male | R1 | First Stage Researcher |
| BATRES | MONGIL | LUIS | Male | R1 | First Stage Researcher |
| BROOKS | | CLAIRE JORDAN | Female | R1 | First Stage Researcher |
| CALLE | MUÑOZ | MELISSA | Female | Other | Scientific Manager |
| CALVET | SERAL | JUAN | Male | R2 | Recognised Researcher |
| CARRERAS | SALINAS | SERGIO | Male | R1 | First Stage Researcher |
| CUBERO | GUTIERREZ | LUCIA | Female | R2 | Recognised Researcher |
| DE DIOS | ANTON | FRANCISCO | Male | R1 | First Stage Researcher |
| DE TAPIA | HERNANDEZ | LIDIA | Female | R1 | First Stage Researcher |
| DIAZ | UZQUIANO | MARINA | Female | R1 | First Stage Researcher |
| FELIPE | MAESTRE | MARIA DE LA JARA | Female | R1 | First Stage Researcher |
| FERRER | BAZAGA | SANTIAGO | Male | R4 | Leading Researcher |
| GALLEGO | VIÑARAS | LORENA | Female | R1 | First Stage Researcher |
| GARCIA | LOPEZ DE HARO | CARLOS JAVIER | Male | R1 | First Stage Researcher |
| GARCIA | SEVILLA | MONICA | Female | R2 | Recognised Researcher |
| GARCIA | SOLACHE | MONICA ADRIANA | Female | R3 | Established Researcher |
| GOMEZ | CRUZ | CLARA | Female | R1 | First Stage Researcher |
| GÓMEZ | CID | LIDIA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| IZQUIERDO | GARCIA | DAVID | Male | R3 | Established Researcher |
| JIMENEZ | ALGARRA | LIDIA | Female | R1 | First Stage Researcher |
| KINAKH | | ROMAN | Male | R1 | First Stage Researcher |
| LOPEZ | EXPÓSITO | PATRICIO ROBERTO | Male | R2 | Recognised Researcher |
| MENDOZA | LOSANA | ALFONSO | Male | R3 | Established Researcher |
| MERINO | BALAGUER | ALEJANDRO | Male | R1 | First Stage Researcher |
| MUÑOZ | BARRUTIA | ARRATE | Female | R4 | Leading Researcher |
| OLIVO | MARIN | JEAN CHRISTOPHE | Male | R4 | Leading Researcher |
| PASCAU | GONZÁLEZ-GARZÓN | JAVIER | Male | R4 | Leading Researcher |
| PEREZ | BENITO | DAVID | Male | R2 | Recognised Researcher |
| POSE | DIEZ DE LA LASTRA | ALICIA | Female | R2 | Recognised Researcher |
| RAIGOSA | MUÑOZ | MARIA FERNANDA | Female | R1 | First Stage Researcher |
| SÁNCHEZ-TEMBLEQUE | VERBO | VÍCTOR | Male | R2 | Recognised Researcher |
| VAQUERO | LOPEZ | JUAN JOSE | Male | R4 | Leading Researcher |
| VIDAL | RODRIGUEZ | MARCOS | Male | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | 3 | | |
| **National** | | 7 | | |
| **Regional** | | 3 | | 2 |

* **Not managed by the FIBHGM**

TITLE: **ERA4TB - European Regimen Accelerator for Tuberculosis**. GA - 853989
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN COMMISSION RESEARCH EXECUTIVE AGENCY
START DATE: 01/01/2020
END DATE: 31/12/2025

TITLE: **REAL TIME MOLECULAR IMAGER WITH UNSURPASSED RESOLUTION**. GA - 101099096
DIRECTOR: VAQUERO LOPEZ, JUAN JOSE
PROJECT TYPE: International research project
FUNDING BODY: EUROPEAN COMMISSION RESEARCH EXECUTIVE AGENCY
START DATE: 01/09/2023
END DATE: 28/02/2027

TITLE: **A4LIFE - Artificial intelligence for image data analysis in the life sciences**. GA - 101057970

DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE

PROJECT TYPE: International research project

FUNDING BODY: European Union – HORIZON-INFRA-2021-SERV-01-06 call

START DATE: 01/09/2022

END DATE: 31/08/2025

TITLE: **CPathAI - Plataforma de Inteligencia Artificial para estudios de imagen microscópica en oncología**. PID2023-152631OB-I00

DIRECTOR: MUÑOZ BARRUTIA, MARÍA ARRATE

PROJECT TYPE: Research project

FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)

START DATE: 01/09/2024

END DATE: 31/08/2027

TITLE: **DigiMatMed-Acelerando la transformación digital en salud materno-fetal mediante herramientas de simulación y entrenamiento. Accelerating digital transformation in maternal-fetal health through simulation and training tools**. TED2021-129392B-I00

DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU

PROJECT TYPE: Research project

FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)

START DATE: 01/12/2022

END DATE: 30/09/2025

TITLE: **FAIR-RT - Soluciones equitativas para una implementación clínica de la inteligencia artificial en el flujo de trabajo de Radioterapia**. PID2023-149604OB-I00

DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU

PROJECT TYPE: Research project

FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)

START DATE: 01/09/2024

END DATE: 31/08/2027

TITLE: **TAIN-TB - Desarrollo de contrastes de TAC específicos de micobacterias para el diagnóstico y seguimiento de la tuberculosis**. PID2022-142343OB-100

DIRECTOR: LÓPEZ EXPÓSITO, PATRICIO ROBERTO

PROJECT TYPE: Research project

FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)

START DATE: 01/09/2023

END DATE: 31/08/2027

TITLE: **NO AIR - Biomarcadores de enfermedades pulmonares basados en imágenes para el desarrrollo de nuevos tratamientos con oxido nítrico utilizando flujos de trabajo de canónicos y con IA**. PID 2024 - 1558070B-C22

DIRECTOR: JUAN JOSE VAQUERO LOPEZ, DAVID PEREZ BENITO

PROJECT TYPE: Research project

FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)

START DATE: 01/09/2025

END DATE: 31/08/2029

TITLE: **Creen Responsible AI for Next-gen Sustainable Bio-Imaging (GRAINS)**. AIA2025-164165-C41
DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION (AEI)
START DATE: 01/12/2025
END DATE: 30/11/2028

TITLE: **Desarrollo de un escáner de alta resolución de tomografía por emisión de positrones (PET) para cerebro (Licitación CDTI). Fase III**. CPP 08//2023 AB (DCCPI/OCPI)
DIRECTOR: VAQUERO LÓPEZ, JUAN JOSE
PROJECT TYPE: Research project
FUNDING BODY: CENTRO PARA EL DESARROLLO TECNOLOGICO Y LA INNOVACIÓN
START DATE: 01/09/2025
END DATE: 31/08/2029

TITLE: **Microscopio Confocal Avanzado con Tecnología de Láser Blanco**. 2024/REGING-76491
DIRECTOR: MUÑOZ BARUTIA, MARIA ARRATE
PROJECT TYPE: Research project
FUNDING BODY: CAM-CONSEJERIA DE CIENCIA, UNIVERSIDADES E INNOVAC
START DATE: 31/01/2025
END DATE: 31/12/2026

TITLE: **Desarrollo de sistemas de entrenamiento clínico mediante fabricación aditiva 3D para detección y prevención de complicaciones en el parto aplicando técnicas de IA**. SAFEDELIVERY-CM-UC3M
DIRECTOR: GARCÍA SEVILLA, MÓNICA
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/07/2024
END DATE: 31/12/2026

TITLE: **MAGERIT-CM - Medical AuGmentEd Reality and DIgital Twins**. TEC-2024/COM-44
DIRECTOR: GONZÁLEZ GARZÓN, JAVIER PASCAU
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD DE MADRID
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Programme for Pre-doctoral Research Staff in Training in the field of Artificial Intelligence**
DIRECTOR: Javier Pascau- González Garzón (Sergio Carreras Salinas)
PROJECT TYPE: Human Resources
FUNDING BODY: UC3M
START DATE: 11/07/2024
END DATE: 11/07/2027

TITLE: **Programme for Pre-doctoral Research Staff in Training in the field of Artificial Intelligence**
DIRECTOR: María Arrate Muñoz Barrutia (Roman Kinakh)
PROJECT TYPE: Human Resources

FUNDING BODY: UC3M
START DATE: 17/05/2024
END DATE: 11/07/2027

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| *Ph Thesis* | *Cubero Gutiérrez, Lucía* | *Applications of Artificial Intelligence for Toxicity Prediction in Radiotherapy* | *Pascau Gonzalez Garzón, Javier; Óscar Acosta* | UC3M | *30/05/2025* |

## *Publications* *Total Impact Factor: **149,3***

| | Nº | IF |
|---|---|---|
| Own publications | 7 | 66 |
| Joint publications | 6 | 83.3 |
| First decile publications | 7 | 123 |
| First quartile publications | 9 | 134.1 |
| Second quartile publications | 4 | 15.2 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **14** | **149.3** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Pose-Díez-de-la-Lastra, A; García-Sevilla, M; Tapp, A; Tousidonis, M; Darriba-Alles, JV; Linguraru, MG; Pascau, J; Ochandiano, S. *Microsoft HoloLens 2 vs. tablet-based augmented reality and 3D printing for fronto-orbital reconstruction of craniosynostosis: a case study*. 3D PRINTING IN MEDICINE. 2025; 11(1). IF: 3.1. Quartile: 2. (Article).
- Quilez, C; Gonzalez-Rico, J; Lopez-Donaire, ML; Gago-Lopez, N; Munoz-Barrutia, A; Velasco, D. *Absolute Quantification and Spatial Mapping of Hyaluronic Acid in Histological Tissue Sections*. ACS MEASUREMENT SCIENCE AU. 2025; 6(1) 21-27. IF: 14.7. Quartile: 1. (Article).
- Yun, HG; Cadierno, YA; Ki, SM; Lee, HJ; Muñoz-Barrutia, A; Garcia-Gonzalez, D; Lee, JM; Choi, S. *Horizontal Viscoelastic Focusing for Hyperspectral Microflow Cytometry*. BIOCHIP JOURNAL. 2025. IF: 6.7. Quartile: 1. (Article).
- Alfano, F; Navas, P; Lamata, P; García, KF; Ortuño, JE; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Goicolea, JM; Ledesma-Carbayo, MJ. *Patient-specific visco-hyperelastic mechanical model for breast tumor localization in surgical planning*. BIOENGINEERING & TRANSLATIONAL MEDICINE. 2025; 11(1). IF: 6.2. Quartile: 1. (Article).
- Fernández-Fernández, T; Orozco-Martínez, J; Iribar-Zabala, A; Jiménez, EA; de Gregorio-Bermejo, C; Mediavilla-Santos, L; Pascau, J; García-Sevilla, M; Pérez-Mananes, R; Calvo-Haro, JA. *Augmented Reality-Assisted Placement of Surgical Guides and Osteotomy Execution for Pelvic Tumour Resections: A Pre-Clinical Feasibility Study Using 3D-Printed Models*. CANCERS. 2025; 17(13). IF: 4.8. Quartile: 2. (Article).
- Visuña, L; Garcia-Blas, J; Ferrer-Bazaga, S; Lopez-Exposito, P; Carretero, J. *Automated monitoring of Mycobacterium population growth in time-lapse microscopy with Deep Learning pseudo-supervised algorithm*. ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE. 2025; 162. IF: 9. Quartile: 1. (Article).

- Fuster-Barceló, C; Cámara, C; Peris-López, P. *ECG-Based Patient Identification: A Comprehensive Evaluation Across Health and Activity Conditions*. IEEE ACCESS. 2025; 13 171942-171956. IF: 4.2. Quartile: 2. (Article).

- Gallego-Viñarás, L; Mira-Tomás, JM; Gaeta, AM; Pinol-Ripoll, G; Barbé, F; Olmos, PM; Muñoz-Barrutia, A. *Alzheimers Disease Detection in EEG Sleep Signals*. IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2025; 29(2) 948-959. IF: 7.7. Quartile: 1. (Article).

- Franco-Barranco, D; Román, JAAS; Hidalgo-Cenalmor, I; Backova, L; González-Marfil, A; Caporal, C; Chessel, A; Gómez-Gálvez, P; Escudero, LM; Wei, DL; Muñoz-Barrutia, A; Arganda-Carreras, I. *BiaPy: accessible deep learning on bioimages*. NATURE METHODS. 2025; 22(6) 1124-1126. IF: 28.3. Quartile: 1. (Letter).

- Joshi, S; Forjaz, A; Han, KS; Shen, Y; Queiroga, V; Selaru, FA; Gérard, M; Xenes, D; Matelsky, J; Wester, B; Barrutia, AM; Kiemen, AL; Wu, PH; Wirtz, D. *InterpolAI: deep learning-based optical flow interpolation and restoration of biomedical images for improved 3D tissue mapping*. NATURE METHODS. 2025; 22(7). IF: 28.3. Quartile: 1. (Article).

- Zulueta-Coarasa, T; Jug, F; Mathur, A; Moore, J; Muñoz-Barrutia, A; Anita, L; Babalola, K; Bankhead, P; Gilloteaux, P; Gogoberidze, N; Jones, ML; Kleywegt, GJ; Korir, P; Kreshuk, A; Yoldas, AK; Marconato, L; Narayan, K; Norlin, N; Oezdemir, B; Riesterer, JL; Russell, C; Rzepka, N; Sarkans, U; Serrano-Solano, B; Tischer, C; Uhlmann, V; Ulman, V; Hartley, M. *MIFA: Metadata, Incentives, Formats and Accessibility guidelines to improve the reuse of AI datasets for bioimage analysis*. NATURE METHODS. 2025. IF: 28.3. Quartile: 1. (Review).

- Cubero, L; Hémon, C; Barateau, A; Castelli, J; de Crevoisier, R; Acosta, O; Pascau, J. *Deep learning-based segmentation of head and neck organs at risk on CBCT images with dosimetric assessment for radiotherapy*. PHYSICS IN MEDICINE AND BIOLOGY. 2025; 70(7). IF: 3.1. Quartile: 2. (Article).

- Delgado-Rodriguez, P; Vitoria, I; Ríos-Muñoz, GR; Bardia, L; Lamanna-Rama, N; Nicolas-Saenz, L; Sporring, J; Soto-Montenegro, ML; Aldabe, R; Colombelli, J; Muñoz-Barrutia, A. *In-depth 3D exploration of autosomal dominant polycystic kidney disease through light sheet fluorescence microscopy*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

***Other publications:***

- Cubero L; Tessier C; Castelli J; Robert K; de Crevoisier R; Jégoux F; Pascau J; Acosta O. *Automated dysphagia characterization in head and neck cancer patients using videofluoroscopic swallowing studies.* COMPUTERS IN BIOLOGY AND MEDICINE. 2025; 187 109759-109759. (Article).

## AREA 2. CARDIOVASCULAR DISEASES

Area Coordinator: **Javier Bermejo Thomas**

Cardiovascular diseases remains 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 and multidisciplinary approach. Javier Bermejo, Area Coordinator, also serves as Scientific Director of the CIBERCV (Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares). This program integrates research groups across Spain and is leading several landmark clinical trials that define strategies for prevention, diagnosis, and treatment of cardiovascular disease.

In addition, the Area includes personnel from the Universidad Complutense and has tight collaboration with research groups belonging to the Universidad Nacional de Educación a Distancia, the Universidad Carlos III de Madrid and the University of Washington, CNIC, among others. Thanks to these close collaborations, the group has been able to consolidate a multidisciplinary work team formed by physicists, biologists, engineers, technicians, nurses and cardiologists. This multidisciplinary group has demonstrated a long-standing expertise not only in developing cutting edge research in cardiology but also in translating mathematical and physical principles to cardiac procedures.

Our approach has not only provided important advances in the understanding of cardiovascular physiology but has provided physicians and researchers with robust noninvasive indices of cardiac function, already transferred to everyday clinical practice.

For the upcoming years, our objectives include further promotion of basic and translational research, strengthening international collaborations, increasing funding from European research programs, and developing models for evaluation and identification of intellectual property products. We also aim to promote the responsible and effective use of artificial intelligence (AI) and advanced computational tools in research, clinical innovation, data analysis, and knowledge generation, while ensuring appropriate scientific oversight, transparency, ethical standards, and data protection. Finally, the Area of Cardiovascular Diseases places particular emphasis on undergraduate education and, importantly, the training of future research personnel.

# GROUPS IN AREA 2

2.01. Natural history of heart disease
2.02 Cardiovascular pathophysiology
2.03. Cardiac cellular electrophysiology
2.05. Cardiology and heart transplantation in children
2.06. Blood lipids and cardiovascular risk
2.07. Acute cerebral ischemia. Stroke.

## LIST OF THE PUBLICATIONS THAT THE DEPARTMENT HAS SELECTED AS THE MOST RELEVANT OF THE YEAR

- Rodríguez-González, E; Martínez-Legazpi, P; Mombiela, T; González-Mansilla, A; Delgado-Montero, A; Guzmán-De-Villoria, JA; Díaz-Otero, F; Prieto-Arévalo, R; Juárez, M; del Rey, MDG; Fernández-García, P; Flores, O; Postigo, A; Yotti, R; García-Villalba, M; Fernández-Avilés, F; del Alamo, JC; Bermejo, J. Stasis imaging predicts the risk of cardioembolic events related to acute myocardial infarction: the ISBITAMI study. REVISTA ESPANOLA DE CARDIOLOGIA. 2025; 78(1) 22-33.

- Carta-Bergaz, A; Rios-Muñoz, GR; Crisóstomo, V; Báez, C; Blanco, V; Sánchez-Margallo, FM; Bermejo, J; Arenal-Maiz, A. Scar Voltage Mapping in Fast Ventricular Tachycardia for Identifying Functional Substrates of Tachycardia Isthmuses: A Proof-of-Concept Study. CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY. 2025; 18(9).

- Martínez-Solano, J; Bermejo-Fernández, J; González-Mansilla, A; García-Orta, R; Sánchez-Fernández, PL; Castaño, M; Segovia-Cubero, J; Escribano-Subías, P; Bayés-Genís, A; Martínez-Legazpi, P; Mombiela, T; Ortiz-Bautista, C; González, A; Bermejo, J; Fernández-Avila, AI. The role of the bone morphogenetic protein receptor 2 pathway in group 2 pulmonary hypertension secondary to valvular heart disease. ERJ OPEN RESEARCH. 2025; 11(6)

- Camara-Checa, A; Alvarez, M; Rapún, J; Pérez-Martín, S; Núñez-Fernández, R; Rubio-Alarcón, M; Crespo-García, T; Desviat, LR; Delpón, E; Caballero, R; Richard, E. Propionic Acidemia-Induced Proarrhythmic Electrophysiological Alterations in Human iPSC-Derived Cardiomyocytes. JOURNAL OF INHERITED METABOLIC DISEASE. 2025; 48(3).

- Blázquez, ML; Castro, MAE; García-Rovés, RA; Jiménez, MC; Avila, AIF; Thomas, FJB; López, CM. Prognostic role of novel variables in sudden cardiac death risk associated to hypertrophic cardiomyopathy. ANALES DE PEDIATRIA. 2025; 102(4)

- Galeano-Valle, F; Alonso-Beato, R; Moragón-Ledesma, S; Pire-García, T; Huergo-Fernández, O; Ordieres-Ortega, L; Oblitas, CM; Walther, LAAS; Demelo-Rodríguez, P. External validation of a prognostic score to identify low-risk outpatients with acute deep venous thrombosis in the lower limbs. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2025; 132 76-83. FI: 8.1. Cuartil: 1.

# 2.01 Natural history of heart disease

Group Director: **Javier Bermejo Thomas**

Organisms involved: **HGUGM-UCM**

**Consolidated Group**

## Description of the research group

The Consolidated Cardiovascular Research Group is led by Professor Bermejo, who also serves as Scientific Director of the Spanish Biomedical Research Networking Center for Cardiovascular Diseases (CIBERCV). The core mission of our group is to develop new strategies for the prevention, diagnosis, and treatment of cardiovascular disease.

Our multidisciplinary team is composed of cardiologists, biomedical engineers, and basic and translational cardiovascular researchers, with a long-standing track record of excellence in collaborative research aimed at developing innovative diagnostic and therapeutic approaches.

The group's main priority is to improve the survival and quality of life of patients with cardiovascular diseases through outstanding cooperative research, by attracting and retaining talented young investigators, and by transferring scientific knowledge to industry through a strong commitment to fostering innovation and facilitating its translation to society.

## Research lines

**Axis 1: Consolidation of research lines in cardiovascular diseases**

- L1: Consolidation of the basic research area.
- L2: Leadership of national and European research projects.
- L3: Consolidation of the translational research area of the cellular cardiac electrophysiology group.
- L4: Maintenance and consolidation of scientific production.
- L5: Diversification of funding sources through the consolidation of several PIs.

**Axis 2: Strengthening Training**

- L1: Increasing the offer for postgraduate training.
- L2: Encourage temporary stays of researchers in prestigious laboratories.

**Axis 3: Infrastructure Consolidation**

- L1: Final layout and equipment of the Translational Cardiology Research Laboratory

**Axis 4: I+D+i**

- L1: Development of a model for the evaluation and identification of intellectual property products.
- L2: Development of spin-off models with the Hospital and the University.

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ACOSTA | OCAMPO | ALEJANDRA | Female | R1 | First Stage Researcher |
| ALONSO | GARCIA | ANDRES | Male | R1 | First Stage Researcher |
| ALVAREZ | BELLO | MARIA | Female | R1 | First Stage Researcher |
| ALVAREZ | ZABALLOS | SARA | Female | R1 | First Stage Researcher |
| ARENAL | MAÍZ | ÁNGEL | Male | R3 | Established Researcher |
| ATIENZA | FERNÁNDEZ | FELIPE | Male | R3 | Established Researcher |
| BENITO | VICENTE | YOLANDA | Female | R1 | First Stage Researcher |
| BERMEJO | THOMAS | JAVIER | Male | R4 | Leading Researcher |
| BLAZQUEZ | BERMEJO | ZORBA | Male | R2 | Recognised Researcher |
| CARTA | BERGAZ | ALEJANDRO | Male | R1 | First Stage Researcher |
| CASTRODEZA | CALVO | JAVIER | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| DELGADO | MONTERO | ANTONIA | Female | R2 | Recognised Researcher |
| DEVESA | CORDERO | CAROLINA | Female | R1 | First Stage Researcher |
| DOMINGO | GARDETA | TOMAS | Male | R1 | First Stage Researcher |
| DOMINGUEZ | GOMEZ | PIEDRAS ALBAS | Female | | |
| ESPINOSA | CASTRO | MARIA ÁNGELES | Female | R3 | Established Researcher |
| FERNANDEZ | AVILA | ANA ISABEL | Female | R3 | Established Researcher |
| FERNANDEZ | BAENA | DIEGO | Male | R1 | First Stage Researcher |
| FERNANDEZ | BAZA | ANA MARIA | Female | | |
| FERNANDEZ | SANTOS | Mª EUGENIA | Female | R3 | Established Researcher |
| FERNANDEZ | TOPHAM | JAVIER | Male | R1 | First Stage Researcher |
| FERNANDEZ-AVILES | IRACHE | CONSUELO | Female | R1 | First Stage Researcher |
| GARCIA | CARREÑO | JORGE | Male | R1 | First Stage Researcher |
| GOMEZ | GONZALEZ | CRISTINA | Female | R1 | First Stage Researcher |
| GOMEZ | SANCHEZ | ROBERTO | Male | R1 | First Stage Researcher |
| GONZALEZ | MANSILLA | ANA | Female | R2 | Recognised Researcher |
| GONZALEZ | RUIZ | LAURA | Female | R1 | First Stage Researcher |
| GONZÁLEZ | TORRECILLA | ESTEBAN | Male | R2 | Recognised Researcher |
| GUTIERREZ | GALVEZ | JENIFFER | Female | R1 | First Stage Researcher |
| GUTIÉRREZ | IBAÑES | ENRIQUE | Male | R3 | Established Researcher |
| HERNANDO | GONZÁLEZ | RUBÉN | Male | R1 | First Stage Researcher |
| JUÁREZ | FERNÁNDEZ | MIRIAM | Female | R2 | Recognised Researcher |
| LIN | | LONG | Male | R1 | First Stage Researcher |
| LOPEZ | GALAN | VIRGILIO | Male | R1 | First Stage Researcher |
| MANCEBO | LAGUNA | IRENE | Female | R1 | First Stage Researcher |
| MARTIN | MANZANO | VIRGINIA MILAGROS | Female | R1 | First Stage Researcher |
| MARTIN | MARTINEZ | INES | Female | R1 | First Stage Researcher |
| MARTINEZ | SOLANO | JORGE | Male | R1 | First Stage Researcher |
| MARTINEZ-LEGAZPI | AGUILO | PABLO | Male | R3 | Established Researcher |
| MARTÍNEZ-SELLES | D'OLIVEIRA SOARES | MANUEL | Male | R3 | Established Researcher |
| MENDEZ | FERNANDEZ | IRENE | Female | R2 | Recognised Researcher |
| MOMBIELA | RAMIREZ DE GANUZA | TERESA | Female | R2 | Recognised Researcher |
| MUÑOZ | PEREZ | MARIA | Female | | |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ORTIZ | BAUTISTA | CARLOS DAVID | Male | R2 | Recognised Researcher |
| PLASENCIA | MARTIN | VIRGINIA | Female | R1 | First Stage Researcher |
| PORTOLES | HERNANDEZ | ANTONIO | Male | R2 | Recognised Researcher |
| POSTIGO | ESTEBAN | ANDREA | Female | R2 | Recognised Researcher |
| PRIETO | AREVALO | RAQUEL | Female | R3 | Established Researcher |
| RODRIGUEZ | CRESPO | JOSE FERNANDO | Male | R1 | First Stage Researcher |
| RODRIGUEZ | GONZALEZ | ELENA | Female | R2 | Recognised Researcher |
| RUBIO | MILLAN | ALEJANDRA | Female | R1 | First Stage Researcher |
| RÍOS | MUÑOZ | GONZALO RICARDO | Male | R2 | Recognised Researcher |
| SANZ | RUIZ | RICARDO | Male | R3 | Established Researcher |
| SIERRA | FRUCTUOSO | JAVIER | Male | | |
| SOUSA | CASANOVAS | IAGO | Male | R2 | Recognised Researcher |
| SUAREZ | SANCHO | SUSANA | Female | R1 | First Stage Researcher |
| TRIGUERO | PLATERO | GLORIA IRENE | Female | R1 | First Stage Researcher |
| VALERO | MASA | MARIA JESUS | Female | R2 | Recognised Researcher |
| VAZQUEZ | ALVAREZ | MARCOS | Male | | |
| VAZQUEZ | ALVAREZ | MARIA EUGENIA | Female | R2 | Recognised Researcher |
| VAZQUEZ | CASTAÑO | ALEXANDRA | Female | R1 | First Stage Researcher |
| VEGA | MARTINEZ | PATRICIA | Female | R1 | First Stage Researcher |
| VILLA | ARRANZ | ADOLFO | Male | R2 | Recognised Researcher |
| ZATARAIN | NICOLAS | EDUARDO | Male | R2 | Recognised Researcher |
| ÁVILA | ALONSO | PABLO | Male | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | 4 | | | |
| **National** | 8 | | 3 | |
| **Regional** | | | | |

TITLE: **Future of Artificial Intelligence Trained for Heart Failure detection & Upgrading Latest technology** (FAITHFUL 230225)

DIRECTOR: BERMEJO THOMAS, JAVIER

PROJECT TYPE: European research project

FUNDING BODY: COMISION EUROPEA

START DATE: 01/03/2024

END DATE: 31/12/2025

TITLE: **AI Scalable Solution for ST Myocardial Infarction (ASSIST)** (ASSIST 230193)
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 31/12/2025

TITLE: **CARDIATEAM-IMI2-821508** (H2020 CARDIATEAM)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/03/2019
END DATE: 28/02/2026

TITLE: **H2020 BRAV3 "Regenerative medicine: from new insights to new applications. 874827** (H2020 BRAV3)
DIRECTOR: FERNÁNDEZ-AVILES DIAZ, FRANCISCO JESÚS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2020
END DATE: 30/06/2025

TITLE: **CURE-AF "Clinical Utilization and Evidence Generation for Real-time ECGI in Atrial Fibrillation - 250027** (2024-ITM-9419)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: European research project
FUNDING BODY: EIT HEALTH E.V
START DATE: 06/03/2025
END DATE: 31/12/2025

TITLE: **ARTEMISA Mapeo Cardíaco de Arritmias Estructurales mediante telemetría por radiofrecuencia** (CPP2024-011368)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 03/11/2025
END DATE: 02/11/2028

TITLE: **Impacto de la Esclerosis Aortica Funcional** (PI24/00565)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **High-Resolution Atrial Epicardial Mapping to Validate a Non-Invasive Technology for Personalised AF Treatment. Study EPIMAP-AF.** (PI23/01769)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Identificación del sustrato de fibrilación auricular en ritmo sinusal basada en co-localización de mapas auriculares electroanatómicos y de intensidad de señal (MRI). Diferencias de género** (PI22/01619)
DIRECTOR: ARENAL MAÍZ, ÁNGEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Rigorous Atrial Analysis in Advanced Interatrial Block (ARABIA)** (PI21/01501)
DIRECTOR: MARTÍNEZ-SELLES D'OLIVEIRA SOARES, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2025

TITLE: **Evaluación personalizada del riesgo cardiovascular - 1 (PACER1)** (PI21/00274)
DIRECTOR: BERMEJO THOMAS, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **CARE-ECGI - Terapia de resincronización cardiaca basada en imagen electrocardiográfica** (CPP2021-008562)
DIRECTOR: ATIENZA FERNÁNDEZ, FELIPE
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/11/2022
END DATE: 31/10/2025

TITLE: **Predoctoral contracts (PFIS)** FI22/00165
DIRECTOR: Manuel Martínez-Sellés D'Oliveira Soares (Jorge Martínez Solano)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Intensification contracts** INT23/00002
DIRECTOR: Ángel Arenal Maíz
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2025

TITLE: **Intensification contracts** INT24/00054
DIRECTOR: Felipe Atienza Fernández
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III

START DATE: 01/01/2025
END DATE: 31/12/2026

## Cooperative Research Structures

| *Type (RETIC, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| RICORS | Red Española de Terapias Avanzadas (TERAV+) | Collaborating group | RD24/0014/0035 |
| RICORS | Red Española de Terapias Avanzadas (TERAV+) | Collaborating group | RD21/0017/0002 |

## Industrial and intellectual property registrations

### *Industrial property*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Método y aparato para el guiado durante la ablación cardiaca mediante la reconstrucción global de la actividad cardiaca a partir de registros noinvasivos e intracavitarios combinados (Dispositivo de localización de arritmias cardiacas, CORIFY)** | P201431597 | FIBHGM, Universidad Politécnica de Valencia | Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, Mª Salud Guillem |
| **Cuantificación del riesgo embólico a partir del análisis del flujo intracardíaco: "A CLINICAL METHOD FOR MAPPING AND QUANTIFYING BLOOD STASIS AND THROMBUS RISK IN THE HEART" // Nuevo método clínico para la cuantificación del estasis sanguíneo en el interior del ventrículo izquierdo.** | US62259494 | FIBHGM, University of California | Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez- Legazpi, Raquel Yotti |
| **System and Method for Automatic Detection of Circular Cardiac Activations** | P201731161 | FIBHGM, UC3M | Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz |
| **Método para la detección de mecanismos de arritmias cardiacas complejas** | EP24383410 | FIBHGM | Gonzalo Ricardo Ríos Muñoz, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Rodríguez González, Elena* | *Intraventricular Stasis and Thromboembolic Risk in Patients with Non-Ischemic Dilated Cardiomyopathy* | *Bermejo Thomas, Javier; Martínez-Legazpi Aguiló, Pablo; Fernández-Avilés Díaz, Francisco* | *UCM* | *01/07/2025* |

## *Clinical Practice Guidelines*

| Authors | Title | Journal / Reference |
|---|---|---|
| González-Vílchez F, Almenar-Bonet L, Gómez-Bueno M, Crespo-Leiro MG, Cobo-Belaustegui M, Crespín-Crespín M, Ortiz-Bautista C, Delgado-Jiménez JF, de Antonio-Ferrer M, Sobrino-Márquez JM; Spanish Heart Transplant Teams; et al. | Spanish heart transplant registry. 36th official report of the Heart Failure Association of the Spanish Society of Cardiology. | **Rev Esp Cardiol**<br>ISSN: 1885-5857 |
| Grupo de Trabajo sobre el manejo de las valvulopatías de la Sociedad Europea de Cardiología (ESC) y la European Association for Cardio-Thoracic Surgery (EACTS). Javier Bermejo Thomas (revisor representante de la Sociedad Española de Cardiología) | 2025 ESC/EACTS Guidelines for the management of valvular heart disease | **European Heart Journal**<br>2025 Nov 21;46(44):4635-4736.<br>doi: 10.1093/eurheartj/ehaf194. |

## *Publications* *Total Impact Factor: **572,2***

| | Nº | IF |
|---|---|---|
| Own publications | 28 | 145.7 |
| Joint publications | 49 | 426.5 |
| First decile publications | 19 | 372.5 |
| First quartile publications | 36 | 454.4 |
| Second quartile publications | 25 | 92.4 |
| Third quartile publications | 13 | 23.3 |
| Fourth quartile publications | 3 | 2.1 |
| Nonindexed publications / No IF | 5 | - |
| **Total publications (including those without IF)** | **82** | **572.2** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Vicente, P; Inocêncio, LR; Ullate-Agote, A; Louro, AF; Jacinto, J; Gamelas, B; Iglesias-García, O; Martin-Uriz, PS; Aguirre-Ruiz, P; Rios-Muñoz, GR; Fernández-Santos, ME; van Mil, A; Sluijter, JPG; Prósper, F; Vega, MMM; Alves, PM;

Serra, M. *Billion-Scale Expansion of Functional hiPSC-Derived Cardiomyocytes in Bioreactors Through Oxygen Control and Continuous Wnt Activation*. ADVANCED SCIENCE. 2025; 12(11). IF: 14.1. Quartile: 1. (Article).

- Marschall, A; García-Guimaraes, M; Sanz-Ruiz, R; Sabaté, M; Velazquez-Martín, M; Veiga, G; Pérez-Guerrero, A; Avanzas, P; Cortés, C; Macaya, F; Ojeda, S; Jimenez-Kockar, M; Roura, G; Cid, B; Bastante, T; del Val, D; Alfonso, F. *Clinical and Prognostic Implications of Precipitating Factors in Patients With Spontaneous Coronary Artery Dissection*. AMERICAN JOURNAL OF CARDIOLOGY. 2025; 256 247-254. IF: 2.5. Quartile: 2. (Article).

- Mestre-Durán, C; León-Triana, O; Bareke, H; Pertiñez, L; Clares-Villa, L; Bueno, D; Lozano-Ojalvo, D; Navarro-Zapata, A; Sisinni, L; Badell-Serra, I; González-Vicent, M; Belendez, C; Palomo-Moraleda, P; Mozo, Y; Galan, V; Artazcoz, MF; Echecopar, C; Gasior, M; Al-Akioui, K; Cano-Ochando, J; Guerra-García, P; Fernández-Santos, ME; Aguirre-Portolés, C; Perez-Martínez, A. *Ex Vivo IL-15-Stimulated NK Cells as Adoptive Cell Therapy in Haploidentical Transplantation for Pediatric Leukemia*. AMERICAN JOURNAL OF HEMATOLOGY. 2025; 100(10) 1898-1901. IF: 9.4. Quartile: 1. (Letter).

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# *2.02 Cardiovascular pathophysiology*

Group Director: **Victoria Cachofeiro Ramos and Ernesto Martínez Martínez (from 7-2024)**

Organisms involved: **UCM**

**Consolidated Group**

## *Description of the research group*

The core of the project research team is made up of researchers from the Cardiovascular and Metabolic Pathophysiology Group of obesity of the Department of Physiology School of Medicine, UCM under the coordination of Victoria Cachofeiro and Ernesto Martínez 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.

In addition, we try to transfer the knowledge to human pathology through the collaboration with Dr. Luaces and Dr. Islas from the Cardiology Department and Dr. Ramchandani from the Cardiac Surgery Department of the Hospital Clínico San Carlos.

## *Research lines*

**Axis 1: Consolidation of research lines in cardiovascular diseases**

L1: Consolidation of the basic research area.

L2: Leadership of national and European research projects.

L3: Consolidation of the translational research area of the cellular cardiac electrophysiology group.

L4: Maintenance and consolidation of scientific production.

L5: Diversification of funding sources through the consolidation of several PIs.

**Axis 2: Consolidation of training**

L1: Increasing the offer for postgraduate training

L2: Encourage temporary stays of researchers in prestigious laboratories

**Axis 3: Consolidation of infrastructures**

L1: Final layout and equipment of the Translational Cardiology Research Laboratory

**Axis 4: R+D+i**

L1: Development of a model for the evaluation and identification of intellectual property products.

L2: Development of spin-off models with the Hospital and the University.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| BARTOLOMÉ | PASCUAL | MARIA VISITACIÓN | Female | R3 | Established Researcher |
| CACHOFEIRO | RAMOS | VICTORIA | Female | R4 | Leading Researcher |
| CUESTA | GARRIDO | MARIA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| DELGADO | VALERO | BEATRIZ | Female | R1 | First Stage Researcher |
| JIMENEZ | GONZALEZ | SARA | Female | R1 | First Stage Researcher |
| MARTINEZ | MARTINEZ | ERNESTO | Male | R4 | Leading Researcher |
| MONTORO | GARRIDO | ALEJANDRO | Male | R1 | First Stage Researcher |
| ROMERO | MIRANDA | ANA | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **1,9***

| | Nº | IF |
|---|---|---|
| Own publications | 1 | 1.9 |
| Joint publications | 0 | 0 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0 |
| Second quartile publications | 0 | 0 |
| Third quartile publications | 1 | 1.9 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **1** | **1.9** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Jiménez-González S; Delgado-Valero B; Romero-Miranda A; Islas F; Luaces M; Ramchandani B; Cuesta-Corral M; Montoro-Garrido A; Nieto ML; Martínez-Martínez E; Cachofeiro V. *The mechanisms underlying the cardiac effects of modified citrus pectin in obese rats with myocardial ischemia: Role of galectin-3.* CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS. 2025; 37(4). IF: 1.9. Quartile: 3. (Article).

# *2.03 Cardiac cellular electrophysiology*

Group Director**: Eva Delpón Mosquera**

Organisms involved: **UCM**

**Consolidated Group**

## *Description of the research group*

The Cardiac Cell Electrophysiology group has been part of the Instituto de Investigación Sanitaria Gregorio Marañón (IiSGM) since its foundation. It is a small academic group (we carry out non-clinical experimental activity) with a clear

translational vocation and whose headquarters are located in the Faculty of Medicine of the Complutense University of Madrid. The group was created in the early 1970s by Prof. Juan Tamargo Menéndez and is currently directed by Dr. Eva Delpón with the active collaboration of Dr. Ricardo Caballero. Its continuous evolution and scientific and technological adaptation have allowed it to become a reference and recognised group in the area of cardiac cellular electrophysiology at a national and international level for many years. The general objectives of our lines of research have been and/or are:

1. The identification of electrophysiological alterations of electrical remodelling produced by heart failure (HF) with reduced ejection fraction (HFrEF) or preserved ejection fraction (HFpEF) and design of an advanced targeted therapy for the treatment of ventricular arrhythmias in patients with HF
2. The identification of new genes responsible for inherited primary arrhythmogenic syndromes, as well as the functional study of the electrophysiological repercussions of these mutations at the molecular, cellular [in cardiomyocytes differentiated from human induced pluripotent stem cells (iPSCs)], and in vivo levels
3. The analysis of the biology and regulation of cardiac ion channels by cellular mediators, drugs, microRNAs, etc., as well as the consequences of their interaction with other channels and anchor proteins.

## *Research lines*

**Axis 1: Cardiac cellular pharmacology and electrophysiology**

L1: Identification of acquired alterations in cellular electrical properties (electrical remodelling) responsible for arrhythmias in patients with heart failure (HF).

L2: Regulation of cardiac electrical properties at the cellular level

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| CABALLERO | COLLADO | RICARDO | Male | R3 | Established Researcher |
| CAMARA | CHECA | ANABEL | Female | R1 | First Stage Researcher |
| DELPON | MOSQUERA | EVA | Female | R4 | Leading Researcher |
| GOMEZ | GARCIA | RICARDO | Male | R3 | Established Researcher |
| NUÑEZ | FERNANDEZ | ROBERTO | Male | | |
| PEREZ | MARTIN | SARA | Female | R1 | First Stage Researcher |
| RAPUN | JIMENEZ | JOSU | Male | R1 | First Stage Researcher |
| TAMARGO | MENENDEZ | JUAN | Male | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **140,8***

| | Nº | IF |
|---|---|---|
| Own publications | 4 | 28.4 |
| Joint publications | 5 | 112.4 |

| | | |
|---|---|---|
| First decile publications | 7 | 133.7 |
| First quartile publications | 8 | 137 |
| Second quartile publications | 1 | 3.8 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **10** | **140.8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Dobrev D; Tamargo J; Szymanski P. *Critical medications in cardiology: strategic policy of the European Medicines Agency*. EUROPEAN HEART JOURNAL. 2025; 46(26) 2491-2493. IF: 45.3. Quartile: 1. (Article).
- Sandner, S; Gaudino, M; Agewall, S; Bonalumi, G; Bonaros, N; Czerny, M; Jeppsson, A; Milojevic, M; Niessner, A; Parolari, A; Sulzgruber, P; Tamargo, J; Thielmann, M; Wassmann, S; Zientara, A; Dobrev, D. *Antithrombotic therapy after coronary artery bypass graft surgery: a Clinical Consensus Statement of the ESC Working Group on Cardiovascular Surgery, the ESC Working Group on Cardiovascular Pharmacotherapy, and the European Association for Cardio-Thoracic Surgery (EACTS)*. EUROPEAN HEART JOURNAL. 2025. IF: 45.3. Quartile: 1. (Review).
- Tamargo, J; Agewall, S; Ambrosio, G; Borghi, C; Cerbai, E; Dan, GA; Drexel, H; Ferdinandy, P; Grove, EL; Klingenberg, R; Morais, J; Parker, W; Rocca, B; Sulzgruber, P; Semb, AG; Sossalla, S; Kaski, JC; Dobrev, D. *New pharmacological agents and novel cardiovascular pharmacotherapy strategies in 2024*. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2025; 11(3) 292-317. IF: 8.2. Quartile: 1. (Review).
- Delpón, E; Caballero, R; Tamargo, J. *News in cardiovascular pharmacotherapy from the ACC.25 Meeting*. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2025; 11(4) 393-396. IF: 8.2. Quartile: 1. (Letter).
- Drexel, H; Festa, A; Schmidt, TA; Rocca, B; Dobrev, D; Agewall, S; Tamargo, J; Kaser, S. *Management of dyslipidaemia in patients with comorbidities: facing the challenge: type 2 diabetes mellitus*. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2025; 11(8) 698-711. IF: 8.2. Quartile: 1. (Review).
- Tamargo, J; Delpón, E. *Sex-related differences in cardiovascular pharmacotherapy: fiction or fact? Why can't we see the evidence?*. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2025; 11(7) 638-652. IF: 8.2. Quartile: 1. (Review).
- Sandner, S; Gaudino, M; Agewall, S; Bonalumi, G; Bonaros, N; Czerny, M; Jeppsson, A; Milojevic, M; Niessner, A; Parolari, A; Sulzgruber, P; Tamargo, J; Thielmann, M; Wassmann, S; Zientara, A; Dobrev, D. *Antithrombotic therapy after coronary artery bypass graft surgery: a Clinical Consensus Statement of the ESC Working Group on Cardiovascular Surgery, the ESC Working Group on Cardiovascular Pharmacotherapy, and the European Association for Cardio-Thoracic Surgery (EACTS)*. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY. 2025; 67(8). IF: 3.3. Quartile: 1. (Review).
- Luedde, M; Agewall, S; Ambrosio, G; Bayes-Genis, A; Borghi, C; Cerbai, E; Dan, GA; Drexel, H; Ferdinandy, P; Grove, EL; Kaski, JC; Klingenberg, R; Morais, J; Parker, W; Petrie, MC; Rocca, B; Semb, AG; Senni, M; Sohns, C; Sulzgruber, P; Tamargo, J; Metra, M; Böhm, M; Dobrev, D; Sossalla, S. *European Journal of Heart Failure consensus statement. Heart failure pharmacotherapy for patients with heart failure with reduced ejection fraction and concomitant atrial fibrillation: Review of evidence and call to action*. EUROPEAN JOURNAL OF HEART FAILURE. 2025; 27(11) 2198-2210. IF: 10.3. Quartile: 1. (Review).
- Camara-Checa, A; Alvarez, M; Rapún, J; Pérez-Martín, S; Núñez-Fernández, R; Rubio-Alarcón, M; Crespo-García, T; Desviat, LR; Delpón, E; Caballero, R; Richard, E. *Propionic Acidemia-Induced Proarrhythmic Electrophysiological Alterations in Human iPSC-Derived Cardiomyocytes*. JOURNAL OF INHERITED METABOLIC DISEASE. 2025; 48(3). IF: 3.8. Quartile: 2. (Article).

***Other publications:***

- Rapún J; Pérez-Martín S; Cámara-Checa A; San José G; Núñez-Fernández R; Crespo-García T; Hoban A; Rubio-Alarcón M; Martínez-Blanco E; Tamargo J; Díez-Guerra FJ; López B; Gómez R; González A; DELPÓN E; Caballero R. *Two concurrent mechanisms are responsible for the I(Na) increase produced by dapagliflozin and empagliflozin in healthy and heart failure cardiomyocytes.* BIOMEDICINE & PHARMACOTHERAPY. 2025; 186 117984-117984. (Article).

# 2.05 Cardiology and heart transplantation in children

Group Director: **Constancio Medrano López**

Organisms involved: **HGUGM**

**Emerging Group**

## Description of the research group

The group encompasses the research and innovative activity of the Children's Heart Area, which includes paediatric cardiology and cardiac surgery. During 2016 the group of Dr. B. Ezquieta joined the group in the field of Rasopathies. New lines have been opened in the field of Cardiac Transplantation and in Microbiology and Nursing, and international cooperation has been reactivated. Scientific production has increased, especially in the areas of familiar cardiopathies, cardiac surgery and innovation in paediatric cardiac intervention.

## Research lines

**Axis 1: Cardiac transplantation in children**

L 1: Optimising and reducing anti-rejection therapies

**Axis 2: Myocardiopathy in infancy**

L 1: Genotype-phenotype correlation

L 2: Development of advanced imaging techniques (speckel tracking echocardiography)

**Axis 3: Respiratory infections and congenital heart disease**

L1: Impact on heart disease population

**Axis 4: Drugs in paediatric paediatric cardiology**

L1: Utility and safety of cardiovascular drugs in childhood

**Axis 5: Paediatric cardiac rehabilitation (collaboration with Children's Rehabilitation)**

L1: Improving quality of life

**Axis 6: Cell therapy in paediatric cardiology**

L1: New therapies in advanced heart failure

**Axis 7: Innovation in paediatric and congenital interventional cardiology congenital cardiac interventionism**

L1: New devices adapted to congenital heart disease

**Axis 8: Innovation in paediatric and congenital cardiac surgery**

L1: New mini-invasive techniques are safe, decrease morbidity

**Axis 9: Telemedicine**

L1: Tool to optimise the follow-up of patients and collaboration with other centres/professionals

**Axis 10: Rasopathies (in collaboration with Molecular Biochemistry: Dra. Begoña Ezquieta)".**

L1: Improving knowledge of the disease

**Axis 11: International Cooperation**

L1: Training as a tool for development

**Axis 12: Innovation in Infant Electrophysiology**

L1: Optimising paediatric electrophysiological techniques and devices

**Axis 13: Paediatric cardiology care.**

L1: Optimising access to peripheral pathways

L2: Music therapy

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALCAIDE | BAZAN | PAOLA | Female | R1 | First Stage Researcher |
| ALCARAZ | GARCIA | MARIA TERESA | Female | | |
| ALVAREZ | GARCIA-ROVES | REYES | Female | | |
| ALVAREZ | MARTIN | TERESA | Female | | |
| ARRIBA | DOMENECH | MARIA | Female | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| BALLESTEROS | TEJERIZO | FERNANDO | Male | R1 | First Stage Researcher |
| CALLE | VALDA | ALTA CORAZON MABEL | Female | | |
| CAMBRA | CONEJERO | ANA | Female | | |
| CAMINO | LOPEZ | MANUELA | Female | | |
| CAMUÑA | CORREA | JOSE IGNACIO | Male | | |
| CENTENO | JIMENEZ | MIRIAN | Female | | |
| COBOS | HINOJAL | SUSANA | Female | | |
| CUENCA | YUNTA | ALEJANDRA | Female | | |
| DIAZ | CESAR | MARIA | Female | | |
| DOMARCO | MANRIQUE | ALEJANDRO | Male | | |
| EZQUIETA | ZUBICARAY | BEGOÑA | Female | | |
| FERRER | SANCHEZ | MARIA SOLEDAD | Female | | |
| GIL | JAURENA | JUAN MIGUEL | Male | | |
| GIL | VILLANUEVA | NURIA | Female | | |
| LOPEZ | BLAZQUEZ | MARIA | Female | | |
| MARTIN | MAYORAL | ANABEL | Female | R1 | First Stage Researcher |
| MEDRANO | LOPEZ | CONSTANCIO | Male | R4 | Leading Researcher |
| MUÑOZ-PACHECO | ROMÁN | RAFAEL | Male | | |
| PANADERO | CARLAVILLA | MARIA ESTHER | Female | | |
| PARDO | PARDO | CARLOS ANDRES | Male | | |
| PEREZ-CABALLERO | MARTINEZ | RAMON | Male | | |
| PINERO | DIAZ | GLORIA ISABEL | Female | | |
| PITA | FERNANDEZ | ANA | Female | | |
| RELAÑO | GARCÍA | CRISTINA | Female | | |
| RODRIGUEZ | OGANDO | ALEJANDRO | Male | | |
| SOLANA | GRACIA | RUTH | Female | | |
| ZUNZUNEGUI | MARTINEZ | JOSE LUIS | Male | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | Nº Human Resources |
|---|---|---|

| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
|---|---|---|---|---|
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **60,3***

| | Nº | IF |
|---|---|---|
| Own publications | 5 | 10.3 |
| Joint publications | 10 | 50 |
| First decile publications | 3 | 27.2 |
| First quartile publications | 8 | 47.2 |
| Second quartile publications | 3 | 8.7 |
| Third quartile publications | 2 | 2.8 |
| Fourth quartile publications | 2 | 1.6 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **16** | **60.3** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Blázquez, ML; Castro, MAE; García-Rovés, RA; Jiménez, MC; Avila, AIF; Thomas, FJB; López, CM. *Prognostic role of novel variables in sudden cardiac death risk associated to hypertrophic cardiomyopathy*. ANALES DE PEDIATRIA. 2025; 102(4). IF: 2.6. Quartile: 1. (Article).

- Orgaz, JAR; Altamarina, EC; Cisterne, C; García, EG; Pardo, MD; Lopez, LV; Laso, CA; Martínez, DF; Alonso, LG; Florez, LG; Castro, PG; Lorenzo, IH; García, JIR; Alvarez, AS; Alonso, NT; García-Olmo, D; Hernández-Villafranca, S; Jiménez, F; Cavero, A; Portugal, V; Caballero, EH; Domenech, MA; Gomez, LMJ; Gomez, IP; Ortúzar, JZ; Balaguer, F; Daca-Alvarez, M; Ocaña, T; Castillo, J; Cuatrecasas, M; Carballal, S; Kumari, H; Moreira, L; Moreno, L; Pellisé, M; Sánchez, A; Toscano, MJ; Coma, MI; de Molina, AR; Colmenarejo, G; Espinosa-Salinas, I; Fernández, LP; de Cedron, MG; Perea, J; García, JL; González-Sarmiento, R; Herrero, AB; Pérez, J; Alvaro, E; Barambio, J; Brandariz, L; Burdaspal, A; de Fuenmayor, ML; Rojo, IL; Pastor, C; Alvarellos, A; Arredondo, J; Matos, I; Rodríguez, J; Muñoz, PM; Candela, AF; Pérez, AB; Trill, JD; Cebrian, JMF; Jiménez, JO; Juez, LD; Carlos, GSS; Dziakova, J; Marín, SP; Lopez, RS; Solís, MS; Alcazar, JA; Tocino, RV; Antona, FB; Guarner, P; Sánchez, MCM; Malats, N; Estudillo, L; Gallostra, MM; García-Rodríguez, A; Kraft, M; Marinello, F; Viyuela, C; Valverde, I; Prosperi, A. *Multiple primary tumours in early-onset colorectal cancer: deciphering the risk*. BJS-BRITISH JOURNAL OF SURGERY. 2025; 112(12). IF: 9.4. Quartile: 1. (Article).

- Buño, I; Medrano, C. *Research training during residency: Reflections on an opportunity*. EDUCACION MEDICA. 2025; 26(6). IF: 0.7. Quartile: 4. (Editorial Material).

- Gómez-Cid, L; Campo-Fonseca, A; Cervera-Negueruela, M; Ocampo, A; Pinto, A; Gil-Jaurena, JM; Suárez-Sancho, S; Fernández-Avilés, F; Grigorian-Shamagian, L. *Unraveling the aging-reversal potency of stem cell-derived extracellular vesicles in a rat model of premature cardiac senescence*. ISCIENCE. 2025; 28(7). IF: 4.5. Quartile: 1. (Article).

- Norrish, G; Hall, K; Field, E; Cervi, E; Boleti, O; Ziólkowska, L; Olivotto, I; Passantino, S; Khraiche, D; Limongelli, G; Weintraub, RG; Anastasakis, A; Biagini, E; Ragni, L; Sarquella-Brugada, G; Cesar, S; Prendiville, T; McLeod, K; Ilina, M; Baban, A; Ojala, TH; Spentzou, G; Bhole, V; Gran, F; Brown, E; Delle Donne, G; Khodaghalian, B; Fernandez, A; Daubeney, PEF; Linter, K; Kubus, P; Uzun, O; Bökenkamp, R; Raimondi, F; Marrone, C; Medrano, C; Gonzalez-Lopez, E; Siles, A; Luczak-Wozniak, K; Bharucha, T; Adwani, S; Klaassen, S; Castro, FJ; Guereta, L; Yamazawa, H; Sinagra, G; Popoiu, A; Perin, F; Chana, B; De Wilde, H; Rasmussen, TB; Mogensen, J; Mathur, S; Centeno, F; Reinhardt, Z;

Barriales-Villa, R; Kubo, T; Felice, T; Radulescu, C; Schouvey, S; Chaker, M; Kaski, JP. *Sex Differences in Children and Adolescents With Hypertrophic Cardiomyopathy*. JACC-ADVANCES. 2025; 4(8). IF: 5.5. Quartile: 1. (Article).

- Bottari, G; Buccione, E; Bayrakci, B; Briassoulis, G; Carter, MJ; Demirkol, D; Ilia, S; Morin, L; Reiter, K; Santiago, MJ; Schlapbach, LJ; Slocker-Barrio, M; Tissieres, P; Zaoral, T; Bianzina, S; Deep, A. *Extracorporeal Blood Purification in European Pediatric Intensive Care Units A Consensus Statement*. JAMA NETWORK OPEN. 2025; 8(2). IF: 11.7. Quartile: 1. (Review).

- Butragueño-Laiseca, L; García-Orueta, G; Riva, N; Trocóniz, IF; Fernández, SN; Vicente, VC; Padilla, B; Slöcker, M; Santiago, MJ. *Population pharmacokinetic analysis of teicoplanin in paediatric patients, including those receiving continuous kidney replacement therapy: a prospective cohort study*. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2025; 80(3) 868-875. IF: 4.1. Quartile: 1. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Recarte, MDP; Navarro, PG; González, PV; Rodríguez, CM; Martín, YR; Sanchez-Luna, M; Ortega, MA; Arribas, CB; Luís, JAL. *Reference Values for Liver Stiffness in Newborns by Gestational Age, Sex, and Weight Using Three Different Elastography Methods*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(15). IF: 3.3. Quartile: 1. (Article).

- Haddad, RN; Bentham, J; Pardo, C; Alloush, R; Al Soufi, M; Jaber, O; Kasem, M; El Rassi, I. *Surgical removal of pulmonary flow restrictors in children with congenital heart disease: What the outcomes reveal*. JTCVS OPEN. 2025; 23 235-244. IF: 2.2. Quartile: 2. (Article).

- Ogando, AR; Sabaté-Rotés, A; Bonora, AM; de la Torre, LA; López, JME; de Lera, CL; Marin, MJD. *Macitentan in Children with Pulmonary Arterial Hypertension: A Multicenter Experience*. PEDIATRIC CARDIOLOGY. 2025. IF: 1.3. Quartile: 3. (Article).

- López-Camacho, E; Aguilera-Alonso, D; Buenestado-Serrano, S; Marín, M; Molero-Salinas, A; Fresneña, NL; Cercenado, E; Vicente, T; Herrera, L; Slocker-Barrio, M; Muñoz, P; Lozano, JS; Gómez, MLN; de Viedma, DG; Pérez-Lago, L. *Genomically-supported Redefinition of an Outbreak in a Pediatric Unit Caused by bla<sub>VIM</sub>-harboring Klebsiella michiganensis*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2025; 44(2) 166-173. IF: 2.3. Quartile: 2. (Article).

- Tejerizo, FB; Sánchez, FC; Bastante, T; Alvarez, ABC; Alvarez-Fuente, M; Domingo, EB; Blasco, PB; Mata, RB; Carrasco, JI; Bellón, JMC; López, JME; Fernandez, MF; Gómez-Jaume, A; Albert, BI; Valero, SJ; Lalaguna, LA; Pineda, SO; Guerrero, AP; Rodríguez, AR; Gila, JS; Sanz-Ruiz, R; Vázquez-Alvarez, ME; Argüelles, JIZ. *Spanish cardiac catheterization in congenital heart diseases registry. Fourth official report from the ACI-SEC and the GTH SECPCC (2023)*. REC-INTERVENTIONAL CARDIOLOGY. 2025. IF: 1.5. Quartile: 3. (Article).

- Canedo, CAR; Pérez-Caballero, R; Pardo, CAP; Díez, JFG; Prieto-Arevalo, R; Gil-Jaurena, JM. *David after Ross: a possible option before Bentall?*. REVISTA ESPANOLA DE CARDIOLOGIA. 2025; 78(3) 277-279. IF: 4.2. Quartile: 2. (Letter).

- Gallego-Valle, J; Pérez-Fernández, VA; Pita, A; Rosales-Magallares, J; López-Esteban, R; Gil-Manso, S; Carbonell, D; Pérez-Caballero, R; Pardo, C; Gil-Jaurena, JM; Correa-Rocha, R; Pion, M. *Enhancing specific thymic Treg activation and function with 4-1BB monomeric streptavidin-based CARs*. TRANSLATIONAL RESEARCH. 2025; 284 1-16. IF: 6.1. Quartile: 1. (Article).

- Dodge-Khatami, A; Gil-Jaurena, JM; Hörer, J; Heinisch, PP; Cleuziou, J; Arrigoni, SC; Cesnjevar, RA; Dave, HH; Giamberti, A; Rito, ML; Kadner, A; Siepe, M; Sekelyk, R; Kozhokar, D; Yemets, I; Poncelet, A; de Beco, G; Rubay, J; Rüffer, A; Kundt, V; Said, SM; Tobota, Z; Jacobs, JP; Padalino, M; Vida, V. *Over 3,000 Minimally Invasive Thoracotomies*

*From the European Congenital Heart Surgeons Association for Quality Repairs of the Most Common Congenital Heart Defects: Safe and Routine for Selected Repairs*. WORLD JOURNAL FOR PEDIATRIC AND CONGENITAL HEART SURGERY. 2025. IF: 0.9. Quartile: 4. (Article).

***Publications from the WOS Core Collection without Impact Factor:***

- Bermejo-Gómez A; Tarancon-Diez L; Lazaro-Martin B; Santiago-Garcia B; Gil Villanueva N; Alonso R; Muñoz-Fernández MÁ; Camino López M; Hernanz-Lobo A; Navarro Gómez ML. *Humoral and cellular response to SARS-CoV-2 mRNA vaccine in paediatric heart transplant recipients.* HELIYON. 2025; 11(1). Quartile: 1. (Article).

# *2.06 Blood lipids and cardiovascular risk*

Group Director**: Luis Antonio Álvarez-Sala Walther**

Organisms involved: **HGUGM**

**Emerging Group**

## *Research lines*

L1: Prevalence of subaneurysmal dilations of abdominal aorta in a cohort of hypertensive patients and predictive value of micro-RNA

L2: Effects of pectin obtained from the Canary Islands banana on mitochondrial biogenesis

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALONSO | BEATO | RUBÉN | Male | R1 | Predoctoral |
| AUSIN | GARCIA | CRISTINA | Female | R1 | First Stage Researcher |
| BARRIENTOS | GUERRERO | MARIA | Female | R1 | First Stage Researcher |
| BELLO | MARTÍNEZ | ELENA | Female | R3 | Established Researcher |
| DEMELO | RODRIGUEZ | PABLO | Male | R3 | Established Researcher |
| GALEANO | VALLE | FRANCISCO | Male | R3 | Established Researcher |
| LAVILLA | OLLEROS | CRISTINA | Female | R1 | First Stage Researcher |
| LOPEZ | RUBIO | MARINA | Female | R1 | First Stage Researcher |
| MARTÍNEZ | CASTILLA | VICTOR MANUEL | Male | R1 | Predoctoral |
| MORAGON | LEDESMA | SERGIO | Male | R1 | First Stage Researcher |
| ORDIERES | ORTEGA | LUCÍA | Female | R3 | Established Researcher |
| PIRE | GARCIA | TATIANA | Female | | Sin Definir |
| PUJOLS | LEON | PAULA RAQUEL | Female | R1 | Predoctoral |
| TOLEDO | SAMANIEGO | NEREA | Female | R2 | Recognised Researcher |
| TORRES | DO REGO | ANA | Female | R3 | Established Researcher |
| VILLALBA | GARCIA | MARIA VICTORIA | Female | R1 | First Stage Researcher |
| ÁLVAREZ-SALA | WALTHER | LUIS ANTONIO | Male | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | - | - | - | - |
| European | - | - | - | - |
| National | - | - | - | - |
| Regional | - | - | - | - |

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| *Ph Thesis* | *Christian Mario Amodeo Oblitas* | *Measurement of soluble P-selectin, cytokines and CA-125 in the prediction of early complications in patients with symptomatic acute pulmonary embolism* | *Demelo Rodríguez, Pablo; Galeano Valle. Francisco* | *UCM* | *09/04/2025* |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Aurora Villalobos, Reina Valle, Javier Pagán-Escribano, María Ortiz, Pablo Demelo Rodríguez, Carme Font | 2024 Spanish Society of Internal Medicine (SEMI) recommendations for the management of cancer-associated venous thromboembolism | **Revista Clínica Española** DOI: 10.1016/j.rceng.2024.10.007 |
| Ordieres Ortega L, Modesto Dos Santos JL, Parra Caballero P, Soriano Sánchez T, Sánchez Del Hoyo C, Coloma Bazán E, Anta Fernández M, Martín Del Pozo M. | Executive summary of the consensus document on home care treatment of pulmonary embolism. | **Revista Clínica Española** doi: 10.1016/j.rceng.2025.502280 |

## *Publications* *Total Impact Factor: **149,5***

| | Nº | IF |
|---|---|---|
| Own publications | 13 | 51.2 |
| Joint publications | 11 | 98.3 |
| First decile publications | 4 | 77.1 |
| First quartile publications | 16 | 130.2 |
| Second quartile publications | 6 | 16.4 |
| Third quartile publications | 1 | 2.5 |
| Fourth quartile publications | 1 | 0.4 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **27** | **149.5** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Sánchez, MS; Pérez, SC; Frías, LI; Olleros, CL. *Uveitis and idiopathic retroperitoneal fibrosis: an unusual association*. BMJ CASE REPORTS. 2025; 18(9). IF: 0.4. Quartile: 4. (Article).

- Oblitas, CM; López-Rubio, M; Lago-Rodríguez, MO; Galeano-Valle, F; Walther, LAAS; Demelo-Rodríguez, P. *D-dimer to lymphocyte ratio predicts mortality in acute symptomatic pulmonary embolism patients*. BRITISH JOURNAL OF HAEMATOLOGY. 2025; 206(6) 1845-1848. IF: 3.6. Quartile: 2. (Letter).

- Andrés-Rebollo, FJS; Cárdenas-Valladolid, J; Abanades-Herranz, JC; Vich-Pérez, P; De Miguel-Yanes, JM; Guillán, M; Salinero-Fort, MA. *A different perspective on studying stroke predictors: joint models for longitudinal and time-to-event data in a type 2 diabetes mellitus cohort*. CARDIOVASCULAR DIABETOLOGY. 2025; 24(1). IF: 15.6. Quartile: 1. (Article).

- Moreno, DM; López, GP; Walther, LAAS; Camino, JAR; Vallejo, JM; Albarrán, OG. *Clinical Profile and Management of Patients with Newly Diagnosed Type 2 Diabetes Mellitus in Hospital Setting*. CLINICAL MEDICINE INSIGHTS-ENDOCRINOLOGY AND DIABETES. 2025; 18. IF: 2.5. Quartile: 3. (Article).

- Cardi, S; Barco, S; Wolf, S; Demelo-Rodríguez, P; Pérez-Pinar, M; Skride, A; Tazi-Mezalek, Z; López-Sáez, JB; Marchena, PJ; Monreal, M. *Characteristics and outcomes of acute pulmonary embolism among patients with polyvascular, single-vascular or no atherosclerotic disease: insights from RIETE*. CLINICAL RESEARCH IN CARDIOLOGY. 2025. IF: 3.4. Quartile: 2. (Article).

- Jiménez, D; Dubois-Silva, A; Demelo-Rodríguez, P; Ruiz-Artacho, P; López-Núñez, JJ; Moisés, J; Muriel, A; Bura-Riviere, A; Mahé, I; Barillari, G; Bikdeli, B; Monreal, M. *Acute pulmonary embolism: a multimarker calculator to predict short-term outcomes*. EUROPEAN HEART JOURNAL. 2025. IF: 45.3. Quartile: 1. (Article).

- Zamora, A; Masana, L; Civeira, F; Ibarretxe, D; Fanlo-Maresma, M; Vila, A; Tembra, MS; Marco-Benedí, V; Alvarez-Sala-Walther, LA; Camacho-Ruiz, M. *Prognostic stratification of familial hypercholesterolaemia patients using AI algorithms: a gender-specific approach*. EUROPEAN HEART JOURNAL - DIGITAL HEALTH. 2025; 6(6) 1113-1123. IF: 5.3. Quartile: 1. (Article).

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- Ena J; Carretero Gómez J; Suárez Tembra M; Lajara Villar L; Fernández Peña C; Rosales Castillo A; Domínguez Pinilla N; Carrasco Sánchez FJ; Bustos Merlo A; Rabassa Soler A. *Evaluating chronic kidney disease in Spanish people with diabetes: a study from internal medicine clinics.* REVISTA CLÍNICA ESPANÕLA. 2025; 225(5) 102279-102279. (Article).

# 2.07 Acute cerebral ischemia. Stroke

Group Director**: Antonio Gil Núñez**

Organisms involved: **HGUGM**

**Emerging group**

## *Description of the research group*

Research group of the Vascular Neurology Section - Stroke Center on all aspects of cerebrovascular disease with participation in multidisciplinary and multicenter studies.

## *Research lines*

**Axis 1: Acute stroke**

- L1: Organization of acute stroke care
- L2. Reperfusion therapy in acute stroke (intravenous thrombolysis and mechanical thrombectomy)
- L3. Management of acute Intracerebral hemorrhage

**Axis 2: Stroke etiology**

- L1: Carotid atherosclerotic disease
- L2: Cardioembolic stroke
- L3: Stroke of undetermined/cryptogenic cause
- L4: Stroke in young adults
- L5: Cerebral venous thrombosis

**Axis 3: Neurosonology**

- L1: Neurosonology in cerebrovascular disease

**Axis 4: Neurorehabilitation**

- L1: Neurorehabilitation in stroke

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUILAR | VACA | GEMA | Female | | |
| ARRIETA | BARTOLOMÉ | GUSTAVO | Male | | |
| DE CELIS | RUIZ | ELENA | Female | R3 | Established Researcher |
| DÍAZ | OTERO | FERNANDO | Male | R2 | Recognised Researcher |
| ELVIRA | RUIZ | PASCUAL | Male | | |
| GARCIA | PASTOR | ANDRES | Male | R4 | Leading Researcher |
| GIL | NUÑEZ | ANTONIO | Male | R4 | Leading Researcher |
| IGLESIAS | MOHEDANO | ANA MARIA | Female | R3 | Established Researcher |
| ODENE | CANTERO | CRISTINA | Female | | |
| VALES | MONTERO | MARTA | Female | R3 | Established Researcher |
| VAZQUEZ | ALEN | PILAR | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

*Publications* *Total Impact Factor: **28,6***

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 8.3 |
| Joint publications | 3 | 20.3 |
| First decile publications | 1 | 11 |
| First quartile publications | 3 | 18.9 |
| Second quartile publications | 2 | 7 |
| Third quartile publications | 1 | 2.7 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **6** | **28.6** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Gomez-Llobell, M; Smith, CS; Gómez-Costas, D; Gómez-Centurión, I; Domínguez, JMG; Escudero-Vilaplana, V; Bullido, YF; Carbonell, D; Pion, M; Bailén, R; Gil-Perotin, S; Ginés, MLM; Revuelta-Herrero, JL; Fernández-Caldas, P; Fernández, VAP; Collado-Borrell, R; Bastos-Oreiro, M; Villanueva-Bueno, C; García-Sanz, R; Kwon, M. *ICANS risk model in CD19 CAR-T therapy: insights from serum and CSF cytokine profiling*. BONE MARROW TRANSPLANTATION. 2025. IF: 5.1. Quartile: 1. (Article).

- Marto JP; Strambo D; Ntaios G; Nguyen TN; Wrona P; Escalard S; Marcheselli S; Mansour OY; Fuentes B; Dorobek M; Nowakowska-Kotas M; Terecoasa EO; Coutinho JM; Carvalho-Dias M; Calleja P; Sargento-Freitas J; Paiva-Nunes A; Šrámek M; Khandelwal P; Meira T; Abdalkader M; Jabbour P; Kovár M; Ayo-Martin O; Michel P; Herzig R; Czlonkowksa A; Demeestere J; Nogueira RG; Salerno A; Wegener S; Baumgartner P; Cereda CW; Bianco G; Beyeler M; Arnold M; Carrera E; Machi P; Altersberger V; Bonati L; Gensicke H; Bolognese M; Peters N; Wetzel S; Magriço M; Nuno Ramos J; Machado R; Maia C; Machado E; Ferreira P; Pinho-E-Melo T; Paula A; Correia MA; Castro P; Azevedo E; Albuquerque L; Nuno-Alves J; Ferreira-Pinto J; Pereira L; Rodrigues M; Araújo A; Rodrigues M; Rocha M; Pereira-Fonseca Â; Ribeiro L; Varela R; Malheiro S; Cappellari M; Zivelonghi C; Sajeva G; Zini A; Gentile M; Forlivesi S; Migliaccio L; Sessa M; Gioia S; Pezzini A; Sangalli D; Zedde M; Pascarella R; Ferrarese C; Beretta S; Diamanti S; Schwarz G; Frisullo G; Seners P; Sabben C; Piotin M; Maier B; Charbonnier G; Vuillier F; Legris L; Cuisenier P; Vodret FR; Marnat G; Liegey JS; Sibon I; Flottmann F; Broocks G; Gloyer NO; Bohmann FO; Schaefer JH; Nolte CH; Audebert H; Siebert E; Sykora M; Lang W; Ferrari J; Mayer-Suess L; Knoflach M; Gizewski ER; Stolp J; Stolze LJ; Nederkoorn PJ; et al. *Recanalization Outcomes and Procedural Complications in Patients With Acute Ischemic Stroke and COVID-19 Receiving Endovascular Treatment.* JOURNAL OF STROKE. 2025; 27(1) 128-132. IF: 11. Quartile: 1. (Article).

- Uriz, O; Pastor, AG; Mohedano, AMI; Otero, FD; Alén, PV; Bullido, YF; Montero, MV; Núñez, ACG. *Impact of restarting anticoagulation on the outcome of patients with intracerebral hemorrhage and atrial fibrillation*. MEDICINA CLINICA. 2025; 165(2). IF: 2.8. Quartile: 1. (Article).

- Tejado, LD; Montero, MV; Mohedano, AMI; Pastor, AG; Otero, FD; Alén, PV; Bullido, YF; Núñez, AG. *Short neck as a cause of stroke? Bilateral vertebral artery dissection in a patient with Klippel-Feil Syndrome*. NEUROLOGICAL SCIENCES. 2025. IF: 2.7. Quartile: 3. (Article).

- Pastor, AG; Ramirez, IL; Tena, AB; Seoane, D; Calleja, P; Ostos, F; De Celis-Ruiz, E; Escalonilla, CG; Simal, P; López-Jurado, ALF; Gil, DP; Lechuga, RV; Moreno-López, C; Fernandez-Ferro, JC; Moraleda, MTM; Escobar, JR; Torres, AG; Vinagre, IN; Escamilla, EE; Carpio, RT; Avila, GM; Mohedano, AMI; Montero, MV; Núñez, AG. *Technical effectiveness and safety of emergent stenting in patients with acute ischemic stroke and carotid near-occlusion*. NEURORADIOLOGY. 2025. IF: 2.8. Quartile: 2. (Article).

- Rodríguez-González, E; Martínez-Legazpi, P; Mombiela, T; González-Mansilla, A; Delgado-Montero, A; Guzmán-De-Villoria, JA; Díaz-Otero, F; Prieto-Arévalo, R; Juárez, M; del Rey, MDG; Fernández-García, P; Flores, O; Postigo, A; Yotti, R; García-Villalba, M; Fernández-Avilés, F; del Alamo, JC; Bermejo, J. *Stasis imaging predicts the risk of cardioembolic events related to acute myocardial infarction: the ISBITAMI study*. REVISTA ESPANOLA DE CARDIOLOGIA. 2025; 78(1) 22-33. IF: 4.2. Quartile: 2. (Article).

# AREA 3. NEUROSCIENCE AND MENTAL HEALTH

Area Coordinator: **Celso Arango López / Mara Parellada Redondo**

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 patients, such as those with autism spectrum disorders, 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

### LIST OF THE PUBLICATIONS THAT THE DEPARTMENT HAS SELECTED AS THE MOST RELEVANT OF THE YEAR:

- Howes, OD; Bukala, BR; Chen, EYH; Correll, CU; Hasan, A; Honer, WG; Kane, JM; Leucht, S; Siafis, S; Agid, O; Akena, D; Arango, C; Atwoli, L; Barnes, TRE; Birnbaum, ML; Bitter, I; Breier, A; Buchanan, RW; Citrome, L; Cotter, DR; Crossley, N; Davidson, M; De Bartolomeis, A; Delisi, LE; Dollfus, S; Dursun, SM; Ebdrup, BH; Elkis, H; Emsley, R; Falkai, P; Fernández-Egea, E; Fleischhacker, W; Freudenreich, O; Gadelha, A; Gaebel, W; Graff-Guerrero, A; Gridley, A; Hallak, JEC; Homan, P; Kahn, RS; Kaiser, S; Kapi, M; Kennedy, JL; Kim, E; Kinon, BJ; Kwon, JS; Lawrie, SM; Lee, J; Leweke, FM; Li, T; Libiger, J; Marder, SR; Melle, I; Meltzer, H; Mucci, A; Naber, D; Nakajima, S; Nielsen, J; O'Brien, O; Ojagbemi, A; Omlor, W; Pantelis, C; Peuskens, J; Raedler, TJ; Ran, MS; Marques, TR; Remington, G; Rossell, S; Rubio, JM; Sachs, G; Scott, J; Si, TM; Siskind, D; Siu, CO; Sommer, IE; Suzuki, T; Takeuchi, H; Tandon, R; Taylor, D; Teferra, S; Thomas, N; Tiihonen, J; Uchida, H; Ucok, A; Umbricht, D; Venkatasubramanian, G; Wagner, E; Walters, JTR; Wang, CY; Weiser, M; Wright, C; Yu, X; McCutcheon, RA. Relapse in Schizophrenia: A Systematic Review of Criteria for Clinical Studies and International Consensus Guidelines to Improve Them. AMERICAN JOURNAL OF PSYCHIATRY. 2025; 182(11) 969-983. FI: 15.9. Cuartil: 1. (Review).

- Andreu-Bernabeu, A; González-Peñas, J; Mora, A; Bernardo, M; Mezquida, G; Amoretti, S; Bobes, J; Saiz, PA; García-Portilla, MP; Sanjuan, J; Santos, JL; Jiménez-López, E; Arrojo, M; Carracedo, A; Parellada, M;

Maric, NP; Atbasoglu, C; Üçok, A; Alptekin, K; Saka, MC; Pries, LK; O'Donovan, M; van Os, J; Rutten, BPF; Delespaul, P; Guloksuz, S; Arango, C; Díaz-Caneja, CM. Linking prolonged childhood and adolescent loneliness to schizophrenia spectrum disorders: results from EU-GEI study. BRITISH JOURNAL OF PSYCHIATRY. 2025. FI: 8.5. Cuartil: 1. (Article).

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## *3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment*

Group Director: **Celso Arango López**
Organisms involved: **HGUGM**
**UCM**
**Consolidated Group**

### *Description of the research group*

The research group Neurobiological and Psychological Bases of Mental Disorders at the Institute of Psychiatry and Mental Health, Gregorio Marañón University General Hospital, Faculty of Medicine, Complutense University of Madrid, led by Dr. Celso Arango (> 740 publications; i-H = 76; 24,871 citations; 33.61 citations/doc) has been actively engaged in scientific research in the field of psychiatric disorders, particularly psychosis and other neurodevelopmental disorders, for more than 25 years.

The group's main interest is the study of the neurobiological mechanisms involved in the development of mental disorders, the identification of clinically and biologically relevant subgroups, and the analysis of different clinical, cognitive, and functional trajectories in neurodevelopmental disorders. In addition, the group is part of the Neuroscience and Mental Health Area of the Gregorio Marañón Health Research Institute (IiSGM; www.iisgm.com), coordinated by Dr Arango. The group is also part of the CIBER Mental Health Network (CIBERSAM; www.cibersam.es), which encompasses 25 national reference centres and more than 400 researchers and whose Scientific Director and Group Leader has been Dr. Celso Arango during its first successful 10 years.

The group is made up of a multidisciplinary team that includes clinical and basic researchers, experts in neurodevelopment, neurocognition, neuroimaging, and genetics, among others. Its strategic lines of research are: 1) Schizophrenia and other psychotic disorders; 2) Autism spectrum disorders and other neurodevelopmental

disorders; 3) Affective disorders and suicide; 5) Other disorders with onset in childhood and adolescence; 6) Prevention and early intervention in mental health; 7) Neuroimaging in psychiatric disorders; 8) Cognition in psychiatric disorders; 9) Genetics of psychiatric disorders. In these areas, the group has been carrying out prolific research and translation activities for the Spanish National Health System, in collaboration with national and international centres for more than twenty years.

Its scientific activity is reflected in the number of externally evaluated projects funded by competitive public funds and private funds, researchers hired through competitive HR calls, publications, and agreements and collaborations with other scientific institutions. It is one of the few groups with international recognition in the field of early-onset psychosis. Specifically, in the last 10 years (2015-2025), the group has participated in a total of 724 publications (75% in Q1), with an average of 80 publications per year, with an average impact factor of 13.572 points according to the Journal Citation Reports (JCR) 2024 and more than 20,000 citations. In addition, the group has participated in ten projects funded by the Seventh Framework Programme, three projects funded by the American National Institute of Mental Health (NIMH), four projects funded by Horizon 2020, two projects funded by the prestigious American Brain and Behaviour Research Foundation, and six projects funded by Horizon Europe. The team also collaborates with other hospital services and university departments within and outside the UCM (UC3M, UAM), promoting synergies and the development of research and teaching in translational neuroscience, with a highly structured training plan.

The quality of his scientific output is reflected in the number of externally evaluated projects that have been funded through competitive calls for proposals from public and private institutions (e.g., Carlos III Health Institute, Ministry of Education, BBR Foundation, Mutua Madrileña Foundation, Alicia Koplowitz Foundation), pre-doctoral and post-doctoral researchers with contracts funded by competitive public funds, publications and collaborations, including the development of several novel lines of research in collaboration with other departments of the Hospital and the IiSGM (e.g., biochemistry, medical imaging, experimental medicine, cardiology, genetics and nutrition, among others). The research team also has extensive experience in research training through a systematic training plan with regular quality controls as part of the EFQM quality assurance programme implemented in the Department of Child and Adolescent Psychiatry, Institute of Psychiatry and Mental Health, which has achieved a '+500' rating in the EFQM programme. Several members of the group are participating or have participated in 10 projects funded by the Seventh Framework Programme of the European Union, including a project funded by the 'European Research Area Network for Neuroscience (ERANET-NEURON)', three projects funded by the Horizon 2020 Innovative Medicines Initiative, and one project funded by the US National Institute of Mental Health (NIMH). The group has published numerous articles in high-impact journals (e.g., Nature, Nature Genetics, PNAS, American Journal of Psychiatry, JAMA, Lancet Psychiatry, British Journal of Psychiatry, Schizophrenia Bulletin, Journal of the American Academy of Child and Adolescent Psychiatry, etc.) in the fields of schizophrenia, autism spectrum disorders, and other neurodevelopmental disorders. Its scientific activity has also been transferred to clinical practice through several clinical trials and the development and publication of clinical practice guidelines for the management of children and adolescents with neurodevelopmental disorders and other conditions such as psychosis, bipolar disorder, and autism spectrum disorder. The group participates in more than 30 courses per year and is involved in the training of various master's degrees focused on neuroscience research (Master's Degree in Introduction to Mental Health Research at CIBERSAM, UCM; Master's Degree in Translational Medicine at UCM; Master's Degree in Neuroscience at UCM, etc.).

Over the last 10 years, it has also received numerous awards, leading several of them in the Health Reputation Monitor ranking carried out by Merco (2020, 2021, 2022, 2023 and 2024), and the Best in Class Awards in the specialities of Psychiatry and Mental Health and Schizophrenia (2020-2024). Similarly, in 2021, the group was awarded the Best Psychiatry Service in Spain by the Hospital Excellence Index (IEH) of the Coordenadas Institute for Governance and Applied Economics, and the members of the group have received numerous research awards, both individual and collective, including the TELVA Science Award, the Early Career Award from the Schizophrenia International Research Society and the ECNP Excellence Award, all in 2022, the Margarita Salas Research Award from the Community of Madrid in 2023, and in 2024 the Reputational Leadership Award in Psychiatry within the MERCO-OdS Reputational Leadership Awards.

Much of its recognition and service provision capacity stems from the fact that clinical, research and training activities are fully integrated into all of the Service's activities. The research group offers training and undergraduate, pre-doctoral and post-doctoral placements to numerous students and researchers at different stages of their professional careers and has a highly structured training plan, which includes clinical and bibliographic sessions and seminars, specific courses on methodology and research tools, neurodevelopment, and aspects relevant to clinical and translational research in neuroscience. In addition, it actively participates in the teaching activities offered by

the IiSGM and CIBERSAM training plan, such as scientific forums, annual courses, research seminars, and mental health promotion in educational centres, the media, and patient and family associations.

## *Research lines*

**Axis 1: Consolidation of research networks and alliances in neuroscience**

L 1: Consolidation of a network for the study of the pathophysiological continuum between Autism Spectrum Disorders and Schizophrenia Spectrum Disorders

L2: More efficient integration of basic research carried out at the UCM and clinical research carried out at the HGGM through collaborative projects and the use of animal models

L3: Increasing the capacity and complementarity of our group within the CIBERSAM to achieve the expansion of the samples necessary to achieve significant results in collaborative studies

**Axis 2: Consolidation of lines of research in neuroscience**

L1: Consolidation of the line of research on populations at high risk of developing mental disorders and neurodevelopmental disorders

L2: Expansion of additional sources of funding; regional, national and international

L3: Increase scientific output in the Neurodevelopmental Disorders programme

L4: Increase scientific output in basic research

L5: Continue and promote translational and collaborative research in schizophrenia and other psychoses

**Axis 3: Consolidation of the neuroscience teaching plan**

L1: Consolidation of the group's teaching plan with a stable offering of courses, stays and doctoral thesis preparation

**Axis 4: Consolidation of infrastructure**

L 1: Expansion of the structures and equipment of the Laboratory space; consolidation of the Psychiatry Laboratory

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ABREGU | CRESPO | RENZO | Male | R1 | First Stage Researcher |
| ABROKWA | ACHEAMPONG | HAYFORD | Male | R1 | First Stage Researcher |
| ANDRES | CAMAZON | PABLO | Male | R1 | First Stage Researcher |
| ANDREU | BERNABEU | ÁLVARO | Male | R1 | First Stage Researcher |
| ARANGO | VICTORIA | MANUEL JOVINO | Male | Sin Definir | |
| AYORA | RODRIGUEZ | MIRIAM VALLE | Female | R1 | First Stage Researcher |
| AZNAR | NUÑEZ | ALEJANDRA | Female | R1 | First Stage Researcher |
| BALTASAR | TELLO | ITZIAR | Female | R1 | First Stage Researcher |
| BARRIGON | ESTEVEZ | MARÍA LUISA | Female | R2 | Recognised Researcher |
| BOADA | MUÑOZ | LETICIA | Female | R1 | First Stage Researcher |
| BOQUETE | VAZQUEZ | LUCIANO | Male | R3 | Established Researcher |
| BRAVO | SANCHEZ | MARTA | Female | R2 | Recognised Researcher |
| BURDEUS | OLAVARRIETA | MONICA | Female | R1 | First Stage Researcher |
| CALVO | CALVO | ANA BELEN | Female | R2 | Recognised Researcher |
| CAMACHO | RUBIO | JAVIER | Male | R1 | First Stage Researcher |
| CASAS | RAMON | VIOLETA | Female | Sin Definir | |
| CAVERO | OLIVERA | BEATRIZ | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| CAVONE | | VITO | Male | R1 | First Stage Researcher |
| CEREZO | ROMÁN | LOURDES | Female | R1 | First Stage Researcher |
| CHAPARRO | RIVERA | MARIA CAMILA | Female | R1 | First Stage Researcher |
| CIVEIRA | MARIN | IGNACIO | Male | R1 | First Stage Researcher |
| COLOMAR | MOLLA | LAURA | Female | R1 | First Stage Researcher |
| COTOBAL | MARTIN | FRANCISCO JAVIER | Male | R2 | Recognised Researcher |
| CUNILLERA | LLORENTE | ALICIA | Female | R1 | First Stage Researcher |
| DE CRUYLLES DE PERATALLADA | JAUMANDREU | SUSANA | Female | R1 | First Stage Researcher |
| DE DIEGO | RUIZ | HECTOR | Male | R1 | First Stage Researcher |
| DE FRESNO | CEREZO | RAFAEL | Male | R1 | First Stage Researcher |
| DE HOYOS | GONZALEZ | LUCIA | Female | R2 | Recognised Researcher |
| DE MATTEIS | | MARIO | Male | R1 | First Stage Researcher |
| DE PORTUGAL | FERNÁNDEZ DEL RIVERO | ENRIQUE | Male | R2 | Recognised Researcher |
| DORADO | MARTÍNEZ | MARÍA LUISA | Female | R2 | Recognised Researcher |
| DURAN | CUTILLA | MANUEL | Male | R1 | First Stage Researcher |
| ECHEVARRIA | BRUNO | ANA | Female | R1 | First Stage Researcher |
| ESPLIEGO | FELIPE | ANA | Female | R1 | First Stage Researcher |
| FADON | MARTIN | PATRICIA | Female | R1 | First Stage Researcher |
| FERNANDEZ | PEREZ | MARIA | Female | R1 | First Stage Researcher |
| FERRE | NAVARRETE | FRANCISCO | Male | R3 | Established Researcher |
| GALVAÑ | GARCIA | JOAQUIN | Male | R1 | First Stage Researcher |
| GARCÍA | LINARES | ERNESTO | Male | R1 | First Stage Researcher |
| GAREY | FUENTES | NEIZA | Female | R1 | First Stage Researcher |
| GARIBI | PÉREZ | AINHOA | Female | R2 | Recognised Researcher |
| GARRIZ | LUIS | ALEXANDRA | Female | R1 | First Stage Researcher |
| GIL | MOLINA | SANTIAGO | Male | R2 | Recognised Researcher |
| GONZALEZ | LOIS | NOEMI | Female | R1 | First Stage Researcher |
| GONZALEZ | PEÑAS | JAVIER | Male | R2 | Recognised Researcher |
| GUERRA | BLACIO | EMILY | Female | R1 | First Stage Researcher |
| GUIL | GALLEGO | ANA | Female | R1 | First Stage Researcher |
| GUILLEN | EHIDIADUWA | ADRIAN EGOSA | Male | R1 | First Stage Researcher |
| GURRIARAN | BAS | XAQUIN | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| HERNANDEZ | JUSDADO | PATRICIA | Female | R2 | Recognised Researcher |
| HODDAN | CAUDEVILLA | RICARDO MIGUEL | Male | R2 | Recognised Researcher |
| HUARTE | SEBASTIAN | CECILIA | Female | R1 | First Stage Researcher |
| HUERTAS | PATÓN | ABIGAIL | Female | R1 | First Stage Researcher |
| HUETE | DIEGO | MIGUEL A. | Male | Sin Definir | |
| LAORDEN | NIETO | ALEJANDRA TERESA | Female | R2 | Recognised Researcher |
| LEGANES | PASTOR | PEDRO ANGEL | Male | R1 | First Stage Researcher |
| LLORENTE | SARABIA | CLOE | Female | R1 | First Stage Researcher |
| LOBATO | DE ENCISO | PABLO | Male | R1 | First Stage Researcher |
| LOGO | LENDO | NERMINA | Female | R1 | First Stage Researcher |
| LOPEZ | CANOVAS | FRANCISCO JAVIER | Male | R1 | First Stage Researcher |
| LOPEZ | MORENO | LAURA | Female | R1 | First Stage Researcher |
| LOPEZ | MORIÑIGO | JAVIER DAVID | Male | R2 | Recognised Researcher |
| LOPEZ | MOYA | BELEN | Female | R1 | First Stage Researcher |
| LUCAS | SANCHEZ | MARIA | Female | R1 | First Stage Researcher |
| MAGAZ | MUÑOZ | ANA MARIA | Female | R1 | First Stage Researcher |
| MALLO | CAÑO | MARIA | Female | R1 | First Stage Researcher |
| MARDONES | ESCAPA | PAULA MARIA | Female | R1 | First Stage Researcher |
| MARIN | CAMUÑAS | ANA MARIA | Female | R1 | First Stage Researcher |
| MARTIN | DIAZ | OLGA | Female | R1 | First Stage Researcher |
| MARTIN | HERNANDEZ | IVAN | Male | R2 | Recognised Researcher |
| MARTIN | MARTINEZ | NURIA | Female | R1 | First Stage Researcher |
| MARTINEZ | RODRIGUEZ | KENIA | Female | R2 | Recognised Researcher |
| MARTINEZ | VILLAR | SOFIA | Female | R1 | First Stage Researcher |
| MENDEZ | HERNANDEZ | MARIA ANDREINA | Female | R2 | Recognised Researcher |
| MERCHAN | NARANJO | JESSICA | Female | R2 | Recognised Researcher |
| MERCHAN | RIBERA | SUSANA | Female | Sin Definir | |
| MOLINA | AGUILERA | MARIA JOSE | Female | R1 | First Stage Researcher |
| MOLINA | LIETOR | MARIA DEL CARMEN | Female | R1 | First Stage Researcher |
| MONLEON | PEREZ | NIEVES | Female | R1 | First Stage Researcher |
| MORA | PERDIGUERO | ALBERTO | Male | R1 | First Stage Researcher |
| MORAN | MOYA | PURIFICACION | Female | Sin Definir | |
| MORENO | PARDILLO | MARIA DOLORES | Female | R3 | Established Researcher |
| MOTA | MOLINA | MACARENA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| OBESO | MARTIN | IGNACIO | Male | R3 | Established Researcher |
| OLMEDA | GARCÍA | MARIA SOLEDAD | Female | R1 | First Stage Researcher |
| ORDAS | DIAZ | CELIA | Female | R1 | First Stage Researcher |
| PANADERO | GOMEZ | ROCIO | Female | R1 | First Stage Researcher |
| PARDO DE VERA | GARCIA | MARTA | Female | R1 | First Stage Researcher |
| PARELLADA | REDONDO | MARIA JOSE | Female | R4 | Leading Researcher |
| PARRILLA | CARRASCO | SARA | Female | R1 | First Stage Researcher |
| PARRO | TORRES | CARLOS | Male | R2 | Recognised Researcher |
| PENZOL | ALONSO | MARIA JOSE | Female | R1 | First Stage Researcher |
| PEREZ | GUERRERO | IRENE | Female | R1 | First Stage Researcher |
| PEÑA | GRANGER | MARIA DE LAS MERCEDES | Female | R1 | First Stage Researcher |
| PICOUTO | GONZALEZ | MARIA DOLORES | Female | R2 | Recognised Researcher |
| PINA | CAMACHO | LAURA | Female | R3 | Established Researcher |
| PUERTAS | PEREZ | ELISA | Female | R1 | First Stage Researcher |
| QUINTAS | REY | RITA | Female | R2 | Recognised Researcher |
| RAMIREZ | CARDESIN | MARIA | Female | R1 | First Stage Researcher |
| RAPADO | CASTRO | MARTA | Female | R3 | Established Researcher |
| RECIO | LAMPARERO | SANDRA | Female | Sin Definir | |
| RIVAS | CAMBRONERO | EVA | Female | R2 | Recognised Researcher |
| RODRIGUEZ | CASTRO | RAQUEL | Female | R1 | First Stage Researcher |
| RODRIGUEZ | LATORRE | PAMELA | Female | R1 | First Stage Researcher |
| RODRIGUEZ | TOSCANO | ELISA | Female | R2 | Recognised Researcher |
| ROJAS | OLMOS | JULIAN FRANCISCO | Male | Sin Definir | |
| ROLDAN | DIAZ | LAURA | Female | R2 | Recognised Researcher |
| ROMAY | GONZALEZ | JORGE | Male | R1 | First Stage Researcher |
| RONCERO | RODRIGUEZ | MARIA SOLEDAD | Female | R1 | First Stage Researcher |
| SALAS | PEREZ | SARA | Female | R1 | First Stage Researcher |
| SALAZAR | DE PABLO | GONZALO | Male | R2 | Recognised Researcher |
| SAN JOSE | CACERES | ANTONIA | Female | R2 | Recognised Researcher |
| SANCHEZ | ADSUARA | JESÚS | Male | R1 | First Stage Researcher |
| SANCHEZ | CAMARA | ANA | Female | R1 | First Stage Researcher |
| SANCHEZ | DIAZ | EMILIO IGNACIO | Male | R1 | First Stage Researcher |
| SANCHEZ | MORLA | EVA MARIA | Female | R2 | Recognised Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| SCHNACK | | HUGO | Male | R2 | Recognised Researcher |
| SEPULVEDA | PALOMO | MARTA | Female | R1 | First Stage Researcher |
| SEVILLA | CERMEÑO | LAURA MARIA | Female | R2 | Recognised Researcher |
| SEVILLANO | BERMEJO | ANA | Female | Sin Definir | |
| SIPOS | GALVEZ | LOURDES | Female | R1 | First Stage Researcher |
| SOLIS | OLCESE | ANDREA XIMENA | Female | R1 | First Stage Researcher |
| STELLA | | CAROL | Female | R1 | First Stage Researcher |
| SZERMAN | BOLOTNER | NESTOR | Male | R2 | Recognised Researcher |
| SÁNCHEZ | GÓMEZ | CLAUDIA | Female | Sin Definir | |
| TAULERO | ESCALERA | BELEN | Female | R1 | First Stage Researcher |
| TOLEDANO | LÓPEZ | REBECA | Female | R1 | First Stage Researcher |
| URBIOLA | MERINA | ELENA | Female | R1 | First Stage Researcher |
| URTUBIA | HERRERA | VALENTINA GABRIELA | Female | R1 | First Stage Researcher |
| VALENCIA | AGUDO | FATIMA | Female | R1 | First Stage Researcher |
| VALTUEÑA | GARCIA | MERCEDES | Female | R1 | First Stage Researcher |
| VAZQUEZ | PEREZ | MARTA MARIA | Female | Sin Definir | |
| VERDURA | VIZCAÍNO | JOSÉ ERNESTO | Male | R2 | Recognised Researcher |
| VICENTE | MORENO | RAQUEL PILAR | Female | R1 | First Stage Researcher |
| VICENTE | SANCHEZ | ISABEL | Female | R1 | First Stage Researcher |
| VIDAL | DE LA FUENTE | JORGE | Male | R1 | First Stage Researcher |
| VILLAR | ARENZANA | MARA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | 2 | | | |
| **European** | 7 | | | |
| **National** | 16 | | 9 | |
| **Regional** | | | 1 | |

TITLE: **The impact of social isolation on aging health in schizophrenia** (NIH-2022/Aging)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: International research project
FUNDING BODY: NATIONAL INSTITUTES OF HEALTH (NIH)
START DATE: 15/08/2022
END DATE: 31/05/2027

TITLE: **ProNET: Psychosis-Risk Outcomes Network** (NIH-2020/ProNet)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: International research project
FUNDING BODY: YALE UNIVERSITY
START DATE: 08/09/2020
END DATE: 31/05/2026

TITLE: **Bridging Gaps in Mental Health Support: A Comprehensive European Strategy** (HE YouthREACH 101156514-1)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **FAMILY: Running in the FAMILY - Understanding and predicting the intergenerational transmission of mental illness** (HE FAMILY 101057529)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2022
END DATE: 30/09/2027

TITLE: **Psych-STRATA: Stratified Treatment Algorithm in Psychiatry: A program on stratified pharmacogenomics in severe mental illness** (HE Psych-STRATA 101057454)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2022
END DATE: 30/09/2027

TITLE: **Youth-GEMs: Gene Environment interactions in Mental health trajectories of Youth** (HE Youth-GEMs 101057182)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/06/2022
END DATE: 31/05/2027

TITLE: **BOOTSTRAP: Boosting Societal Adaptation and Mental Health in a Rapidly Digitalising, Post-Pandemic Europe** (HE BOOTSTRAP 101080238-1)
DIRECTOR: MORENO RUIZ, CARMEN
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 30/06/2028

TITLE: **COllaborative Network for European Clinical Trials For Children ("c4c")** (H2020 c4c-777389)
DIRECTOR: MORENO RUIZ, CARMEN
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA

START DATE: 01/05/2019
END DATE: 30/04/2025

TITLE: **H2020 Autism Innovative Medicine Studies – 2 – Trials. The overall goal of this project is to improve patient outcomes. To do this we will create a pipeline for developing, testing and implementing new treatments for ASD with stakeholder involvement at each stage.** (H2020 AIMS-2-TRIALS)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/05/2018
END DATE: 30/11/2026

TITLE: **SMARTomicS: Prevención de la conducta suicida medianete interveciones terapéuticas guiadas por fenotipo digital y farmacogenética** (PMP24/00026)
DIRECTOR: BARRIGON ESTEVEZ, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 11/12/2025
END DATE: 31/12/2026

TITLE: **Estudio piloto de implementación de una herramienta de cribado para la prevención, diagnóstico y tratamiento de pacientes con un trastorno psiquiátrico del neurodesarrollo: utilización del sindrome deleción 22Q11.2** (PMP22/00088)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 02/10/2024
END DATE: 31/12/2025

TITLE: **Imagen cerebral molecular no invasiva en psicosis de inicio temprano: descifrando el sustrato neurobiológico de los síntomas psicóticos, la disfunción cognitiva y la respuesta al tratamiento antipsicótico** (PI24/01298)
DIRECTOR: RAPADO CASTRO, MARTA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Hacia una intervención estratificada en psiquiatría: Predicción de trayectorias de riesgo y resiliencia para la salud mental en una muestra transdiagnóstica de jóvenes (proyecto PREMY)** (PI23/00625)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Del microbioma a los síntomas en los Trastornos del Espectro Autista: hacia intervenciones personalizadas** (PI23/00747)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Sesgo de salto a conclusiones y conducta suicida: subproyecto del proyecto SURVIVE-2** (PI23/01066)
DIRECTOR: BARRIGON ESTEVEZ, MARÍA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Trayectorias de neurodesarrollo alterado en prematuros extremos y sus bases neurobiológicas: Estudio de cohortes de 6 años de seguimiento** (PI23/00368)
DIRECTOR: BLANCO BRAVO, DOROTEA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Interacciones genes-ambiente en las trayectorias de salud mental de los jóvenes** (PI22/01824)
DIRECTOR: ARANGO LÓPEZ, CELSO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Utilizando modelado normativo longitudinal para el análisis de subgrupos de pacientes con primero episodio psicósis** (PI22/01621)
DIRECTOR: JANSSEN JEUCKEN, JOOST
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Estudio integral de variación genética y molecular de una cohorte española de trastornos del espectro autista y diseño de algoritmos de diagnóstico genético y de biotipos terapéuticos. Cohorte ESTEA.** (PMP21/00051)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Bases etiopatológicas de la disregulación emocional en adolescentes con depresión** (PI21/01929)
DIRECTOR: SEVILLA CERMEÑO, LAURA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Identificando los correlatos de neuroimágen de la función ejecutiva a lo largo del continuum de la psicosis: Un estudio enadolescentes y adultos jóvenes.** (PI21/00701)
DIRECTOR: RAPADO CASTRO, MARTA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros epidodios psicóticos** (PI20/00721)
DIRECTOR: MARTÍNEZ DÍAZ-CANEJA, MARÍA COVADONGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Bases neurobiológicas de las trayectorias diferenciales de los Trastornos del Espectro Autista** (PI20/01382)
DIRECTOR: PARELLADA REDONDO, MARIA JOSE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Mecanismos epigénicos implicados en la génesis y curso de trastornos del neurodesarrollo en prematuros extremos: estudio de seguimiento a 4 años** (PI20/01342)
DIRECTOR: PINA CAMACHO, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Impacto de las alteraciones del sueño en el patrón de desregulación emocional de los adolescentes con depresión, y su posible asociación con el riesgo de autolesiones** (AEPNYA22/01)
DIRECTOR: SEVILLA CERMEÑO, LAURA MARIA
PROJECT TYPE: Research project
FUNDING BODY: ASOCIACION ESPAÑOLA DE PSIQUIATRIA DE LA INFANCIA Y LA ADOLESCENCIA (AEPNYA)
START DATE: 01/02/2023
END DATE: 31/01/2025

TITLE: **Miguel Servet contracts** CP24/00080
DIRECTOR: Javier González Peñas
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 16/01/2025
END DATE: 15/01/2030

TITLE: **Sara Borrell contracts** CD23/00002
DIRECTOR: Celso Arango López (Marta Ferrer Quintero)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE:

END DATE:

TITLE: **Río Hortega contracts** CM23/00091
DIRECTOR: Celso Arango López (Joaquín Galvañ García)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/01/2024
END DATE: 28/01/2026

TITLE: **Río Hortega contracts** CM24/00125
DIRECTOR: Celso Arango López (Pablo Andrés Camazón)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 17/02/2025
END DATE: 16/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI23/00215
DIRECTOR: Celso Arango López (Ana Echevarría Bruno)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 13/02/2024
END DATE: 12/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI24/00202
DIRECTOR: (Emily Guerra Blacio)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Intensification contracts** INT24/00089
DIRECTOR: María José Parellada Redondo
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025
END DATE: 31/12/2025

TITLE: **FPU Contracts (University Teacher Training Contracts)** FPU19/06752
DIRECTOR: Celso Arango López (Rocío Panadero Gómez)
PROJECT TYPE: Human Resources
FUNDING BODY: Ministerio de Educación y Ciencia
START DATE: 01/12/2021
END DATE: 30/11/2025

TITLE: **FPU Contracts (University Teacher Training Contracts)** FPU20/07486
DIRECTOR: Celso Arango López (Hayford Abrokwa Acheampong)
PROJECT TYPE: Human Resources
FUNDING BODY: Ministerio de Educación y Ciencia
START DATE: 13/12/2021
END DATE: 12/12/2025

TITLE: **Grants for predoctoral research staff in training** PIPF-2024/SAL-GL-35100
DIRECTOR: Marta Rapado Castro (Belén Taulero Escalera)

PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Programa de mejora de la convivencia y prevención del acoso escolar LINKlusive** | M-008620/2021 | FIBHGM, UCM | Covadonga Martínez, Javier Martín, Celso Arango |

Transfered Intelectual Property 31/12/2025

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| CIBER | CIBERSAM | Collaborating group | CB/07/09/0023 |
| Other | Ambiente y genes en esquizofrenia | Coordinating group | AGES-CM3 |
| Other: c4c research network | conect4children | Expert advice group | c4c |
| Other: ECNP Network | Networks Board and Taskforce – ECNP | Thematic Working Groups | |
| Other: ECNP Network | Child and Adolescent Neuropsychopharmacology Network | Thematic Working Groups | |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Calvo, Ana; Rapado Castro, Marta, Moreno, Carmen, Mayoral, María | Psychoeducational intervention | **Guía de manejo psicoterapéutico de personas con psicosis** Rapado-Castro, M., Moreno, C. y Mayoral, M. (2025). Guía de manejo psicoterapéutico de personas con psicosis. Madrid: Centro de Investigación Biomédica en Red (CIBER). |
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| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Persico AM, Asta L, Chehbani F, Mirabelli S, Parlatini V, Cortese S, Arango C, Vitiello B | The pediatric psychopharmacology of autism spectrum disorder: A systematic review - Part II: The future | **Prog Neuropsychopharmacol Biol Psychiatry** 2025 Jan 10;136:111176. doi: 10.1016/j.pnpbp.2024.111176. Epub 2024 Oct 28. PMID: 39490514. |
| Lefaucheur JP, Colzi C, Hollander E, Pampaloni I, Van Ameringen M, Baeken C, Fusar-Poli P, Arango C, Fontenelle LF, Batail JM, Brunoni AR, Nicolini H, Haffen E, Soriano-Mas C, Rodriguez CI, Dell'Osso BM, Vieta E, Sauvaget A, Szekely D, Mayer-Linderberg A, Denys D, Stein DJ, Drapier D, Voon V, Pallanti S. | Comparison between accelerated and standard or sham rTMS in the treatment of depression: A systematic review. | **Neurosci Biobehav Rev** 2025 Jun;173:106140. doi: 10.1016/j.neubiorev.2025.106140. Epub 2025 Apr 17. PMID: 40252882. |
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| Frearson G, de Otazu Olivares J, Catalan A, Aymerich C, Salazar de Pablo G. | Review: Efficacy of preventative interventions for children and adolescents at clinical high risk of psychosis - a systematic review and meta-analysis of intervention studies | **Child Adolesc Ment Health** 2025 Feb;30(1):66-82. doi: 10.1111/camh.12755. Epub 2024 Dec 17. PMID: 39688301; PMCID: PMC11754713. |
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| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| McCutcheon R, Pillinger T, Varvari I, et al. | INTEGRATE: international guidelines for the algorithmic treatment of schizophrenia | **The Lancet Psychiatry** 2025;12:384-394. DOI: 10.1016/S2215-0366(25)00031-8 |
| Stringaris A, Burman C, Delpech R, Uher R, Bhudia D, Miliou D, Rokas IM, Kyriakopoulos M, Foulkes L, Moreno C, Cortese S, Lewis G, Krebs G | Comparing apples and oranges in youth depression treatments? A quantitative critique of the evidence base and guidelines. | **BMJ Ment Health** 2025 Jan 19;28(1):e301162. doi: 10.1136/bmjment-2024-301162. PMID: 39832835; PMCID: PMC11752052. |
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## *Publications* *Total Impact Factor: **652,6***

| | Nº | IF |
|---|---|---|
| Own publications | 33 | 174.4 |
| Joint publications | 79 | 478.2 |
| First decile publications | 44 | 401.2 |
| First quartile publications | 83 | 571.3 |
| Second quartile publications | 20 | 64.3 |
| Third quartile publications | 7 | 16.7 |
| Fourth quartile publications | 2 | 0.3 |
| Nonindexed publications / No IF | 7 | - |
| **Total publications (including those without IF)** | **119** | **652.6** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Howes, OD; Bukala, BR; Chen, EYH; Correll, CU; Hasan, A; Honer, WG; Kane, JM; Leucht, S; Siafis, S; Agid, O; Akena, D; Arango, C; Atwoli, L; Barnes, TRE; Birnbaum, ML; Bitter, I; Breier, A; Buchanan, RW; Citrome, L; Cotter, DR; Crossley, N; Davidson, M; De Bartolomeis, A; Delisi, LE; Dollfus, S; Dursun, SM; Ebdrup, BH; Elkis, H; Emsley, R; Falkai, P; Fernández-Egea, E; Fleischhacker, W; Freudenreich, O; Gadelha, A; Gaebel, W; Graff-Guerrero, A; Gridley, A; Hallak,

JEC; Homan, P; Kahn, RS; Kaiser, S; Kapi, M; Kennedy, JL; Kim, E; Kinon, BJ; Kwon, JS; Lawrie, SM; Lee, J; Leweke, FM; Li, T; Libiger, J; Marder, SR; Melle, I; Meltzer, H; Mucci, A; Naber, D; Nakajima, S; Nielsen, J; O'Brien, O; Ojagbemi, A; Omlor, W; Pantelis, C; Peuskens, J; Raedler, TJ; Ran, MS; Marques, TR; Remington, G; Rossell, S; Rubio, JM; Sachs, G; Scott, J; Si, TM; Siskind, D; Siu, CO; Sommer, IE; Suzuki, T; Takeuchi, H; Tandon, R; Taylor, D; Teferra, S; Thomas, N; Tiihonen, J; Uchida, H; Ucok, A; Umbricht, D; Venkatasubramanian, G; Wagner, E; Walters, JTR; Wang, CY; Weiser, M; Wright, C; Yu, X; McCutcheon, RA. *Relapse in Schizophrenia: A Systematic Review of Criteria for Clinical Studies and International Consensus Guidelines to Improve Them*. AMERICAN JOURNAL OF PSYCHIATRY. 2025; 182(11) 969-983. IF: 15.9. Quartile: 1. (Review).

- Ivesa, LSE; Patón, AH; Buratt, MAF; Pitti, JA; Salmerón-Ruiz, MA; Hernández, PJR; Real-López, M. *Impact of screen and social media use on mental health*. ANALES DE PEDIATRIA. 2025; 103(2). IF: 2.6. Quartile: 1. (Article).

- Vieta, E; Montejo, AL; Pillinger, T; Dell'Osso, BM; Dimitraka, M; Farooq, S; Jesus, G; Torres, CP; Wobrock, T; Pappa, S. *Managing schizophrenia with affective, sexual, metabolic and substance-use comorbidities: pharmacological considerations from an expert consensus*. ANNALS OF GENERAL PSYCHIATRY. 2025; 25(1). IF: 5.8. Quartile: 1. (Article).

- Gómez-Vallejo, S; Iriondo-Blanco, O; de Pablo, GS; Escalona, RC; García, LL. *The role of obstetric adversities in neurodevelopmental conditions: A sibling study*. AUTISM. 2025. IF: 5.7. Quartile: 1. (Article).

- Herrero, MC; Sastre-Buades, A; Barrigón, ML. *Social Cognition in Suicidal Behavior in Psychosis: A Systematic Review*. BEHAVIORAL SCIENCES. 2025; 15(6). IF: 3.2. Quartile: 1. (Review).

- Escobedo-Aedo, PJ; Porras-Segovia, A; Barrigón, ML; Courtet, P; López-Castroman, J; Baca-Garcia, E. *Association Between Trauma, Impulsivity, and Functioning in Suicide Attempters*. BEHAVIORAL SCIENCES. 2025; 15(9). IF: 3.2. Quartile: 1. (Article).

- Sanz-Gómez, S; Vera-Varela, C; de-la-Vega-Sánchez, D; Barrigón, ML; Alacreu-Crespo, A; Guija, JA; Sánchez, A; de León, S; Baca-García, E; Giner, L. *Impulsivity and aggression in suicide across age and sex: case-control study*. BJPSYCH OPEN. 2025; 11(5). IF: 4. Quartile: 1. (Article).

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- Demjaha, A; Stahl, D; Arango, C; Glenthoj, B; Rodriguez-Jimenez, R; Díaz-Caneja, CM; Baandrup, L; Ebdrup, B; Garcia-Portlla, MP; Diaz-Marsa, M; Winter-van Rossum, I; Kahn, R; Dazzan, P; McGuire, P. *Confirmatory factor analysis of competing PANSS negative symptom models: data from OPTiMiSE first-episode schizophrenia study*. BJPSYCH OPEN. 2025; 12(1). IF: 4. Quartile: 1. (Article).

- Gorwood, P; Yildirim, M; Madera-McDonough, J; Fagiolini, A; Arango, C; Correll, CU; Arcà, E; Barlassina, A; Selveindran, S; Sahota, N; Kane, JM. *Assessment of functional recovery in patients with schizophrenia, with a focus on early-phase disease: results from a Delphi consensus and narrative review*. BMC PSYCHIATRY. 2025; 25(1). IF: 4.6. Quartile: 1. (Article).

- Rodríguez-Toscano, E; Schleicher, D; Ecker, A; Kandsperger, S; Brunner, R; Jarvers, I. *Exploring the mental health impact of COVID-19 on parents of young children: anxiety, depression, and contributing factors*. BMC PUBLIC HEALTH. 2025; 25(1). IF: 4.4. Quartile: 1. (Article).

- Stringaris, A; Burman, C; Delpech, R; Uher, R; Bhudia, D; Miliou, D; Rokas, IM; Kyriakopoulos, M; Foulkes, L; Moreno, C; Cortese, S; Lewis, G; Krebs, G. *Comparing apples and oranges in youth depression treatments? A quantitative critique of the evidence base and guidelines*. BMJ MENTAL HEALTH. 2025; 28(1). IF: 6.6. Quartile: 1. (Article).

- Cortese, S; Moreno, C. *Advancing the evidence base for child and adolescent psychopharmacology*. BMJ MENTAL HEALTH. 2025; 28(1). IF: 6.6. Quartile: 1. (Editorial Material).

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- Andreu-Bernabeu, A; González-Peñas, J; Mora, A; Bernardo, M; Mezquida, G; Amoretti, S; Bobes, J; Saiz, PA; García-Portilla, MP; Sanjuan, J; Santos, JL; Jiménez-López, E; Arrojo, M; Carracedo, A; Parellada, M; Maric, NP; Atbasoglu, C; Üçok, A; Alptekin, K; Saka, MC; Pries, LK; O'Donovan, M; van Os, J; Rutten, BPF; Delespaul, P; Guloksuz, S; Arango, C; Díaz-Caneja, CM. *Linking prolonged childhood and adolescent loneliness to schizophrenia spectrum disorders: results from EU-GEI study*. BRITISH JOURNAL OF PSYCHIATRY. 2025. IF: 8.5. Quartile: 1. (Article).

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- Mirzaeian S; Jensen KM; Ballem R; Andrés Camazón P; Chen J; Calhoun VD; Iraji A. *Toward Granular Brain Intrinsic Connectivity Networks and Insights into Schizophrenia.* BIORXIV : THE PREPRINT SERVER FOR BIOLOGY. 2025. (Article).

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# *3.03B Neurological diseases*

Group Director: **Francisco Javier Grandas Pérez**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

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

## Research lines

**Axis 1: Parkinson's disease and movement disorders**

L 1: Pathophysiology and treatment of Parkinson's disease.

L 2: Pathophysiology and treatment of dysphonia.

L 3: Balance and gait disorders.

**Axis 2: Dementia**

L 1: Alzheimer's disease.

**Axis 3: Neuroinflammation**

L 1: Neuroinflammation in neurodegenerative diseases.

L 2: Multiple sclerosis.

**Axis 4: Neuromuscular diseases**

L 1: Amyotrophic lateral sclerosis.

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALUN | GULESE | ANCA | Female | R1 | First Stage Researcher |
| CATALINA | ÁLVAREZ | IRENE | Female | R1 | First Stage Researcher |
| CONTRERAS | CHICOTE | ANA | Female | R1 | First Stage Researcher |
| CUELLO | FERRO | JUAN PABLO | Male | R2 | Recognised Researcher |
| DE CASTRO | DE CASTRO | PEDRO | Male | R2 | Recognised Researcher |
| DE LA CASA | FAGES | BEATRIZ | Female | R2 | Recognised Researcher |
| DE PABLO | JIMENEZ | IRENE | Female | | Sin Definir |
| FERNANDEZ | CARBALLAL | CARLOS | Male | R1 | First Stage Researcher |
| GARCIA | DOMINGUEZ | JOSE MANUEL | Male | R1 | First Stage Researcher |
| GOICOCHEA | BRICEÑO | HAYDEE | Female | R1 | First Stage Researcher |
| GRANDAS | PÉREZ | FRANCISCO JAVIER | Male | R4 | Leading Researcher |
| GUISASOLA | ZULUETA | MARIA CONCEPCIÓN | Female | R3 | Established Researcher |
| HIGUERAS | HERNANDEZ | YOLANDA | Female | R2 | Recognised Researcher |
| LOZANO | ROS | ALBERTO | Male | R2 | Recognised Researcher |
| LUQUE | BUZO | ELISA | Female | R2 | Recognised Researcher |
| MARI | HUALDE | AMAIA | Female | R2 | Recognised Researcher |
| MARTINEZ | GINES | MARIA LUISA | Female | R2 | Recognised Researcher |
| MATEO | SIERRA | OLGA | Female | R2 | Recognised Researcher |
| MERCEDES | ÁLVAREZ | BLANCA | Female | R1 | First Stage Researcher |
| MIRANDA | HERRERO | Mª CONCEPCION | Female | R2 | Recognised Researcher |
| MUÑOZ | BLANCO | JOSÉ LUÍS | Male | R3 | Established Researcher |
| OLAZARÁN | RODRÍGUEZ | FRANCISCO JAVIER | Male | R3 | Established Researcher |
| PEREZ | SANCHEZ | JAVIER RICARDO | Male | R2 | Recognised Researcher |
| PRIETO | MONTALVO | JULIO IGNACIO | Male | R3 | Established Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ROMERO | MARTINEZ | JULIA | Female | R2 | Recognised Researcher |
| SANCHEZ | SOBLECHERO | ANTONIO | Male | R1 | First Stage Researcher |
| SECADES | GARCIA | SERGIO | Male | R1 | First Stage Researcher |
| VAZQUEZ | LÓPEZ | MARIA | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 3 | | | |
| Regional | | | | |

TITLE: **BRinging Artificial INTelligencE home for a better cAre of amyotrophic lateral sclerosis and multiple SclERosis (BRAINTEASER)** (H2020 BRAINTEASER 101017598)
DIRECTOR: MUÑOZ BLANCO, JOSÉ LUÍS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **PReDICT: Ictus pediátrico asociado a enfermedades raras: Diagnóstico y tratamiento integrando Multi-ómica e inteligencia artificial** (PMPER24/00021)
DIRECTOR: VAZQUEZ LÓPEZ, MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Amantadina y estimulación magnética transcraneal para fatiga en la EM: ensayo Fase III, controlado, randomizado, cruzado y doble ciego (FETEM)** (ICI20/00074)
DIRECTOR: MARTINEZ GINES, MARIA LUISA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 31/12/2026

TITLE: **Biomarcadores de la fase prodrómica de la enfermedad de Parkinson: un abordaje multimodal** (PI21/00771)
DIRECTOR: GRANDAS PÉREZ, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/03/2026

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number) | Owner | Inventors |
|---|---|---|---|
| **Customized surface stimulation of peripheral nerves for the prolonged reduction of pathological tremor** | EP25382795 | FIBHGM, Instituto Cajal | Francisco Javier Grandas Pérez, Cristina Montero Pardo, Filipe Andre Oliveira Barroso, Alejandro Pascual Valdunciel, Javier Ricardo Pérez Sánchez |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

## *Publications* *Total Impact Factor: **242,8***

| | Nº | IF |
|---|---|---|
| Own publications | 7 | 17.3 |
| Joint publications | 34 | 225.5 |
| First decile publications | 10 | 131 |
| First quartile publications | 23 | 196.3 |
| Second quartile publications | 12 | 37.7 |
| Third quartile publications | 3 | 6.2 |
| Fourth quartile publications | 3 | 2.6 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **45** | **242.8** |

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

Area Coordinator: **Patricia Muñoz García de Paredes**

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 and other emerging pathogens. Hence the need for a priority research area in infectious diseases and AIDS at the IiSGM. Essentially, this area carries out its research around two 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 analysis have been implemented. The area has also promoted cooperative epidemiological studies aimed at analysing 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. Clinical microbiology and infectious diseases
4.02. Clinical and epidemiological aspects of HIV and associated conditions

# *4.01 Clinical microbiology and infectious diseases*

Group Director**: Patricia Muñoz García de Paredes**
Organisms involved: **HGUGM**
**Consolidated Group**

### *Description of the research group*

We are a multidisciplinary service, focused on care, teaching and research, and have become a national and international reference in all three fields. We provide diagnosis, treatment and prevention in all areas of infection.
Our service is made up of two roots that nourish it. On the one hand, a highly specialised Clinical Microbiology laboratory in which the microbiologist must transmit relevant information to the clinician as quickly as possible, both inside and outside the hospital, which is why we promote rapid microbiology and influence treatment through expert advice. In addition, the Infectious Diseases department has highly specialised professionals in areas such as infection in immunosuppressed patients, infections in cardiac surgery, critical care, vascular surgery, traumatology and surgery, tuberculosis, HIV, hepatitis C, endocarditis and programmes to optimise antibiotic and antifungal treatment, with the overarching objective of improving the safety and health of our patients.
The Clinical Microbiology and Infectious Diseases Service of the Gregorio Marañón Hospital responds to the health needs of the population and to the demand of requests from other departments of the hospital, integrating 4 care branches: Clinical Microbiology Laboratory, Infectious Diseases Areas, Outpatients and Microbial Epidemiology.
The Clinical Microbiology and Infectious Diseases Service of the Gregorio Marañón Hospital teaches at the two universities with which our hospital has agreements: the Complutense University of Madrid and the Carlos III University.
We are integrated in the Department of Medicine of the UCM and we teach second- and third-year classes in Medicine, also in the degree of Nutrition and we participate in several master's degrees. We collaborate with the Carlos III University in the training of biomedical engineers. We also direct undergraduate and master's degree final projects, such as the master's degree in virology at the UCM.
Our classes are based on clinical cases, favouring student participation, the ability to learn by themselves, and the differentiation of the essential (Need to know) from the accessory (Nice to know).
We have two professors, one full professor and seven associate professors of Health Sciences at the Complutense University of Madrid.
Every year we supervise Final Degree Projects (TFG) with excellent results and a high degree of satisfaction on the part of students and professors.
The Microbiology and Infectious Diseases service has belonged to the Gregorio Marañón Research Institute since its creation and is one of the world leaders in the speciality with a production aimed at Microbiology applied to humans.
This area has two groups, the first includes Microbiology and general Infectious Diseases and the second AIDS and associated complications.
Another of the characteristics of our research is its integrative nature with other specialties within our hospital.
Our research model is translational and the patient's interest is what determines its strategic focus.

### *Research lines*

**Axis 1: Consolidating research networks and partnerships in infectious diseases and AIDS**
- L1: Integration in Research Networks in the area of infectious diseases and AIDS
- L2: Fostering Alliances and Collaborations in the field of infectious diseases and AIDS

**Axis 2: Consolidation of lines of research in infectious diseases and AIDS**
- L1: Scientific continuity in the molecular mycobacteriology research line
- L2: Scientific continuity in the Immunosuppressed and Invasive Mycoses research line
- L3: Consolidation of the Clostridium Difficile research line

L4: Consolidation of the research line on sensitivity to new antibiotics and mechanisms of resistance in GRAM-positive bacteria
L5: Consolidate the research line in Cardiovascular Infection
L6: Maintaining the Clinical Trials activity (HIV, HCV, opportunistic infections, tumours)
L7: Maintenance of scientific production - Impact factor
L8: Maintenance and diversification of funding sources

**Axis 3: Training**

L1: Expansion of the teaching offer

**Axis 4: Infrastructure**

L1: Improving and securing physical space in the area of infectious diseases and AIDS research

**Axis 5: Microbial genomics**

L1: Genomic epidemiology, community transmission
L2: Genomic epidemiology, nosocomial outbreaks
L3: Microevolution and acquisition of genomic diversity
L4: Diagnostic optimisation

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ADAN | RODRIGUEZ | IVAN | Male | Sin Definir | |
| ALCALÁ | HERNÁNDEZ | LUÍS | Male | R3 | Established Researcher |
| ALONSO | FERNANDEZ | ROBERTO | Male | R4 | Leading Researcher |
| ALVAREZ | CALATAYUD | GUILLERMO | Male | R3 | Established Researcher |
| ALVAREZ-URIA | MIYARES | ANA MARIA | Female | R3 | Established Researcher |
| AREVALO | MOYA | ALVARO | Male | R1 | First Stage Researcher |
| BERNAL | RAMIREZ | GUADALUPE | Female | R1 | First Stage Researcher |
| BOUZA | SANTIAGO | EMILIO | Male | R4 | Leading Researcher |
| BUENESTADO | SERRANO | SERGIO | Male | R1 | First Stage Researcher |
| BURILLO | ALBIZUA | ALMUDENA | Female | R3 | Established Researcher |
| CAMERO | GONZALEZ-RODILES | FABIANA | Female | R1 | First Stage Researcher |
| CARDENAS | ISASI | MARIA JOSE | Female | R1 | First Stage Researcher |
| CARRASCO | GIL | MARIA TERESA | Female | R1 | First Stage Researcher |
| CATALÁN | ALONSO | PILAR | Female | R3 | Established Researcher |
| D'ELIA | | DENISE | Female | R1 | First Stage Researcher |
| DAVILA | CHERRES | LORENA | Female | R1 | First Stage Researcher |
| DE LA VILLA | MARTINEZ | SOFIA | Female | R2 | Recognised Researcher |
| DIAZ | NAVARRO | MARTA | Female | R1 | First Stage Researcher |
| ESCALERA | BALDERRAMA | IVAN | Male | R1 | First Stage Researcher |
| ESCRIBANO | MARTOS | PILAR | Female | R4 | Leading Researcher |
| ESTEVEZ | PRIETO | AGUSTIN | Male | R1 | First Stage Researcher |
| FERNÁNDEZ | REY | ROCIO | Female | Sin Definir | |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| FERRANDO | MERIDA | VALERIA | Female | R1 | First Stage Researcher |
| FILLAOS | MORA | ESTHER SUSANA | Female | R1 | First Stage Researcher |
| GALAR | RECALDE | ALICIA | Female | R3 | Established Researcher |
| GALINDO | GUZMAN | NAYRA CAROLINA | Female | R1 | First Stage Researcher |
| GARCIA | CLEMENTE | PALOMA MARIA | Female | R1 | First Stage Researcher |
| GARCÍA DE VIEDMA | DEL ALAMO | DARIO | Male | R4 | Leading Researcher |
| GOMEZ | NUÑEZ | ANA | Female | R2 | Recognised Researcher |
| GUEMBE | RAMIREZ | MARÍA | Female | R4 | Leading Researcher |
| GUINEA | ORTEGA | JESÚS VICENTE | Male | R4 | Leading Researcher |
| HERRANZ | MARTÍN | MARTA | Female | R3 | Established Researcher |
| HORTAL | IGLESIAS | FRANCISCO JAVIER | Male | R4 | Leading Researcher |
| KESTLER | HERNANDEZ | MARTHA JEANNETTE | Female | R2 | Recognised Researcher |
| LALINDE | PINILLOS | DANIEL | Male | Sin Definir | |
| LOPEZ | SUAREZ | LAUYRA VIVIANA | Female | R1 | First Stage Researcher |
| MACHADO | VILCHEZ | MARINA | Female | R2 | Recognised Researcher |
| MAGDY SALEEB BAKHEIT | | GADELKARIM SHERI | Female | R1 | First Stage Researcher |
| MARCOS | ABELLAN | ANDREA | Female | R1 | First Stage Researcher |
| MARTIN | MARTIN | CRISTINA | Female | R1 | First Stage Researcher |
| MARÍN | ARRIAZA | MARÍA DE LAS MERCEDES | Female | R3 | Established Researcher |
| MORAGA | COLORADO | JESUS | Male | R1 | First Stage Researcher |
| MUÑOZ | GARCIA-PAREDES | PATRICIA | Female | R4 | Leading Researcher |
| NAVA | GONZALES | NATALIA | Female | R1 | First Stage Researcher |
| PALOMO | LASTRAS | MARIA | Female | R2 | Recognised Researcher |
| PEREZ | DE LA CALLE | MARIA | Female | R1 | First Stage Researcher |
| PEREZ | GARCIA | LAURA | Female | R4 | Leading Researcher |
| PEREZ | GRANDA | MARIA JESUS | Female | R2 | Recognised Researcher |
| PIÑERO | MIRAS | ANDRES | Male | R1 | First Stage Researcher |
| REIGADAS | RAMIREZ | ELENA MANUELA | Female | R4 | Leading Researcher |
| RINCÓN | SANZ | CRISTINA | Female | R2 | Recognised Researcher |
| RIQUELME | MATEO | GUILLERMO | Male | R1 | First Stage Researcher |
| RODRIGUEZ | FERNANDEZ | SARA | Female | R2 | Recognised Researcher |
| RODRIGUEZ | SANCHEZ | MARIA BELEN | Female | R4 | Leading Researcher |
| RODRIGUEZ | TEMPORAL | DAVID | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| RUIZ | SERRANO | MARÍA JESUS | Female | R2 | Recognised Researcher |
| RUSSIAN | RODRIGUEZ | SOPHIA ISABEL | Female | R1 | First Stage Researcher |
| SANCHEZ | CUETO | MARIA | Female | R1 | First Stage Researcher |
| SANCHEZ | DEL POZO | IRIS | Female | Sin Definir | |
| SANCHEZ | MARTINEZ | CELIA | Female | R1 | First Stage Researcher |
| SANCHEZ | SOMOLINOS | MAR | Female | R2 | Recognised Researcher |
| SERRANO | LOBO | JULIA | Female | R1 | First Stage Researcher |
| URBINA | | LUCIANA VALERIA | Female | R1 | First Stage Researcher |
| VALENZUELA | MEDINA | MARIA FLOR | Female | R1 | First Stage Researcher |
| VALERIO | MINERO | MARICELA | Female | R3 | Established Researcher |
| VEINTIMILLA | YAÑEZ | MARIA CRISTINA | Female | R2 | Recognised Researcher |
| YTUZA | CHARAHUA DE KIRSCH | KATHY MARLENE | Female | R1 | First Stage Researcher |
| ZAMORA | DE LA FUENTE | VEGA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 2 | | 1 | |
| National | 12 | | 7 | |
| Regional | | | 1 | |

TITLE: **Consolidation of WGS and RT-PCR activities for SARS-CoV-2 in Spain towards sustainable use and integration of enhanced infrastructure and processes in the RELECOV network** (EU4H RELECOV 2.0 101113109)
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/07/2023
END DATE: 31/03/2026

TITLE: **Improved Identification of Fungal Species by MALDI-TOF and Application of Machine Learning for Detection of Antifungal Resistance Mechanisms** (ESCMID23/01)
DIRECTOR: RODRIGUEZ TEMPORAL, DAVID
PROJECT TYPE: European research project
FUNDING BODY: ESCMID - EUROPEAN SOCIETY OF CLINICAL MICROBIOLOGY AND INFECTIOUS DISEASES
START DATE: 01/04/2023
END DATE: 31/12/2025

TITLE: **Epidemiología de la fungemia en España: monitorización y vigilancia de cepas resistentes a antifúngicos** (PI24/00373)
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Diagnóstico de las especies del complejo M. tuberculosis y resistencia a los fármacos mediante MALDI-TOF proteico y lipídico y espectroscopia de infrarrojos (FTIR) usando técnicas de "Machine Learning"** (PI23/01288)
DIRECTOR: RODRIGUEZ TEMPORAL, DAVID
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Aplicación de la genómica en Candida para responder problemas clínicos relacionados con la candidiasis invasora: trasmisión intra-hospitalaria, pronóstico del paciente, y estudio del foco** (PI22/00005)
DIRECTOR: ESCRIBANO MARTOS, PILAR
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **La Nanobiotecnología como Herramienta para la Optimización de la Terapia de Sellado con Etanol en el Tratamiento de la Bacteriemia Relacionada con el Catéter** (PI21/00344)
DIRECTOR: GUEMBE RAMIREZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Estudio de la epidemiología y resistencia a triazoles en cepas clínicas de Aspergillus spp. (estudio ASPEIN II): situación en 82 hospitales españoles** (PI21/00450)
DIRECTOR: GUINEA ORTEGA, JESÚS VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Plataforma genómica para una vigilancia optimizada de patógenos relevantes: Tuberculosis y COVID-19 como modelos de intervención** (PI21/01823)
DIRECTOR: GARCÍA DE VIEDMA DEL ALAMO, DARIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **The role of the microbiome as a diagnostic, prognostic and therapeutic tool in C. difficile infection and other diseases** (PI20/01381)
DIRECTOR: REIGADAS RAMIREZ, ELENA MANUELA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Nuevos métodos diagnósticos para identificar la cancidemia relacionada a catéter en pacientes con catéter in situ ¿Es posible personalizar el manejo de la candidemia? Estudio CANDICATH** (PI20/00575)
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Proyecto de Alerta en Neumonía Grave (PANG). Impacto de un bundle multidisciplinar de intervención diagnóstica y terapéutica.** (PI20/01350)
DIRECTOR: GALAR RECALDE, ALICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **SINTESIS (eStudio del IMpacto de las Nuevas TEcnologías y técnicas rápidas en la sepSIS de origen urinario** (PI20/01201)
DIRECTOR: BURILLO ALBIZUA, ALMUDENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **PIC IDEPTE PMG. "TRATAMIENTO PREVENTIVO DEL CMV EN PACIENTES INMUNOCOMPETENTES DE ALTO RIESGO CON CIRUGÍA CARDÍACA MAYOR. UN ENSAYO CLÍNICO MULTICÉNTRICO, DOBLE CIEGO, ALEATORIZADO, FASE III (GAN-CAR)** (ICI19/00079)
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2020
END DATE: 31/12/2025

TITLE: **Dalbavancina como tratamiento local para las complicaciones infecciosas tras fracturas de alta energía ¿fake o esperanza?** (FMM21/01)
DIRECTOR: GUEMBE RAMIREZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/07/2021
END DATE: 10/02/2025

TITLE: **Human - Centric Indoor Climate for Healthcare Facilities (HumanIC).** HE HumanIC 101119726
DIRECTOR: MUÑOZ GARCIA-PAREDES, PATRICIA (D'Elia, Denise)
PROJECT TYPE: Human Resources
FUNDING BODY: COMISION EUROPEA
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Sara Borrell contracts** CD22/00014
DIRECTOR: Belén Rodríguez (David Rodríguez Temporal)

PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023
END DATE: 31/12/2025

TITLE: **Río Hortega contracts** CM22/00130
DIRECTOR: Darío García de Viedma (Agustín Estévez Prieto)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/01/2023
END DATE: 30/01/2025

TITLE: **Río Hortega contracts** CM24/00208
DIRECTOR: (Vega Zamora de la Fuente)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 10/02/2025
END DATE: 09/02/2027

TITLE: **Predoctoral contracts (PFIS)** FI21/00314
DIRECTOR: Patricia Muñoz García-Paredes (Ana Soriano Martín-Nieto)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Predoctoral contracts (PFIS)** FI22/00145
DIRECTOR: Darío García de Viedma (Sergio Buenestado Serrano)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Predoctoral contracts (PFIS)** FI22/00022
DIRECTOR: María Guembe Ramírez (Marta Díaz Navarro)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 14/02/2023
END DATE: 13/02/2027

TITLE: **Technical Support Staff** PTA2024-024972-I
DIRECTOR: María Belén Rodríguez Sánchez (Iris Sánchez del Pozo)
PROJECT TYPE: Human Resources
FUNDING BODY: Agencia Estatal de Investigación
START DATE: 01/12/2025
END DATE: 30/11/2028

TITLE: **Young employment Program contracts** PEJ-2021-TI/BMD-23377
DIRECTOR: Jesús Vicente Guinea Ortega (José González Leiva)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/10/2022

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference (nº solicitud) | Owner | Inventors |
|---|---|---|---|
| **ESCATI (Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables)** | M-001225/2015 | FIBHGM | María Guembe, Pablo Martín- Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente |
| **Material Docente para la Prevención de la infección Relacionada con el Catéter (póster, díptico y libreta)** | M-005463/2014 | FIBHGM | María Guembe, Emilio Bouza, María Jesús Pérez |
| **Nueva alternativa de Diagnóstico Conservador de Colonización de Catéter** | M-005577/2016 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín- Rabadán |
| **Nueva alternativa de Diagnóstico Conservador de Colonización de Catéter II** | M-004704/2022 | FIBHGM | Emilio Bouza, María Guembe, Mª Jesús Pérez, Pablo Martín- Rabadán |
| **BBDD de hongos filamentosos para mejora en la identificación por Maldi-Tof** | M-003778/2019 | FIBHGM | Belén Rodríguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz |
| **Vídeo con instrucciones para preparación de muestras de hongos filamentosos para su identificación mediante MALDI-TOF** | M-006517/2020 | FIBHGM | Belén Rodríguez, Estreya Zvezdanova, Patricia Muñoz |
| **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2308145061169 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299224 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299217 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| **Material docente para el diagnóstico de la Bacteriemia/Fungemia relacionada con el catéter** | 2412050299200 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |
| **Modelo de diferenciación automática de ribotipos de Clostridioides difficile "presuntivos 027" mediante análisis de espectros de MALDI-TOF -AutoCdiff-** | M-0681/2025 | FIBHGM | Mª Jesús Pérez Granda, María Guembe Ramírez, Pablo Martín Rabadán, Patricia Muñoz García Paredes |

Transfered Intelectual Property 31/12/2025

## Doctoral theses. Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | Buenestado Serrano, Sergio | Genomic responses to the challenges of rapid diagnosis of emerging viruses, advanced epidemiological surveillance of tuberculosis, and characterization of prolonged infections caused by non-tuberculous mycobacteria | García de Viedma, Darío; Pérez García, Laura | Universidad de Alcalá de Henares | 21/10/2025 |
| Ph Thesis | Serrano Lobo, Julia | Detection of azole resistance in Aspergillus fumigatus sensu lato: methodological simplification for adaptation to the Clinical Microbiology laboratory | Escribano, Pilar; Guinea Ortega, Jesús Vicente | UCM | 01/04/2025 |
| Ph Thesis | Mesquida Marcos, Aína | The abdominal cavity as a reservoir of Candida spp strains causing candidemia: application of genotyping as a tool for detecting genotypes capable of reaching the bloodstream | Escribano, Pilar; Guinea Ortega, Jesús Vicente | UCM | 01/05/2025 |
| Ph Thesis | Vázquez, Silvia | Study of the intestinal microbiota of patients with Clostridioides difficile infection | Reigadas, Elena; Bouza, Emilio | UCM | 10/06/2025 |

## Clinical Practice Guidelines

| Authors | Title | Journal / Reference |
|---|---|---|
| Cornely OA, Sprute R, Bassetti M, Chen SC-A, Groll AH, Kurzai O, Lass-Flörl C, Ostrosky-Zeichner L, Rautemaa-Richardson R, Revathi G, Santolaya ME, White PL, et al. | Global guideline for the diagnosis and management of candidiasis: an initiative of the ECMM in cooperation with ISHAM and ASM | **Lancet Infect Dis** doi: 10.1016/S1473-3099(24)00749-7 |
| Mikulska M, Robin C, Neofytos D, Oltolini C, Piekarska A, Reigadas E, Gil L, Chemaly RF, Groll AH, Muñoz P, Teh BW. | Management of Clostridioides difficile infection in patients with haematological malignancies and after cellular therapy: guidelines from 10th European Conference on Infections in Leukaemia (ECIL-10) | **eClinicalMedicine (Lancet Discovery Science)** doi: 10.1016/j.eclinm.2025.103371 |

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Baccelli F, Aguilar-Guisado M, Vidal CG, Mikulska M, Vanbiervliet Y, Blijlevens N, Muñoz P, Neofytos D, Cordonnier C, Calandra T, Averbuch D, Akova M | Epidemiology of resistant bacterial infections in patients with hematological malignancies or undergoing hematopoietic cell transplantation in Europe: A systematic review by the European Conference on Infections in Leukemia (ECIL). | **J Infect** doi: 10.1016/j.jinf.2025.106571 |
| Martin-Loeches I, Cornely OA, Denning DW, Guinea J, Bassetti M, Maertens J, Hoenigl M, Kanj SS, Slavin M, Ostrosky-Zeichner L, Muñoz P. | Invasive candidiasis in intensive care medicine: shaping the future of diagnosis and therapy | **Intensive Care Med** doi: 10.1007/s00134-025-08151-1 |
| Salmanton-García J, Giacinta A, Giannella M, Vena A, Muñoz P, Cornely OA, Valerio M | Current trends on antifungal prophylaxis in solid organ transplantation: a study from ESCMID-EFISG, ESCMID-ESGICH, SITA, and SEIMC-GESITRA-IC | **Infection** doi: 10.1007/s15010-025-02575-z |
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## *Publications* — *Total Impact Factor:* ***559,7***

| | Nº | IF |
|---|---|---|
| Own publications | 41 | 202.6 |
| Joint publications | 62 | 357.1 |
| First decile publications | 24 | 262.5 |
| First quartile publications | 59 | 423.4 |
| Second quartile publications | 29 | 101.3 |
| Third quartile publications | 15 | 35 |

| | | |
|---|---|---|
| Fourth quartile publications | o | o |
| Nonindexed publications / No IF | 8 | - |
| **Total publications (including those without IF)** | **111** | **559,7** |

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- Bermejo-Gómez A; Tarancon-Diez L; Lazaro-Martin B; Santiago-Garcia B; Gil Villanueva N; Alonso R; Muñoz-Fernández MÁ; Camino López M; Hernanz-Lobo A; Navarro Gómez ML. *Humoral and cellular response to SARS-CoV-2 mRNA vaccine in paediatric heart transplant recipients.* HELIYON. 2025; 11(1). Quartile: 1. (Article).

***Other publications:***

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- Álvarez Calatayud G; Leis Trabazo R; Seoane Reula E; Marcos Sánchez A. *The gut microbiota and its modulation: impact on digestive health and the immune system.* NUTRICION HOSPITALARIA. 2025; 42(Spec No1) 51-55. (Article).
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# *4.02 Clinical and epidemiological aspects of HIV and associated conditions*

Group Director: **Juan Carlos López Bernaldo de Quirós**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

Clinical research group on different aspects of HIV infection and associated diseases, as well as other emerging viruses.

## *Research lines*

**Axis 1: HIV infection**

L1: Immunopathogenesis of HIV infection
L2: Observational research
L3: Clinical drug trials
L4: Lipid disorders in people with HIV and good virological control
L5: Vaccine research
L6: HIV infection in primary care
L7: Low-level replication
L8: Clinical and developmental characteristics of HIV-positive trans women
L9: Screening and access to care to the health care system
L10: Frailty and physical exercise in HIV-positive people over 50 years old
L11: Long acting treatment every 2 months in people living with HIV
L12: Recreational drug use during sex
L13: HHV8 and AIDS in HIV-positive patients
L14: Neurodegeneration in adolescents with perinatal HIV
L15: Access to treatment in vulnerable patients

**Axis 2: Viral Hepatitis**

L1: Hepatitis C immunopathogenesis
L2: Epidemiology of HIV/HCV coinfection
L3: Epidemiology of HIV/HBV coinfection
L4: Hepatitis delta. Epidemiological screening studies in vulnerable populations.
L5: New therapeutic options in HIV/HBV and Delta patients
L6: Acute hepatitis and HCV reinfections

**Axis 3: COVID-19**

L1: COVID in immunosuppressed patients
L2: COVID-19 and HIV interaction
L3: Immune response against SARS-CoV-2
L4: Chronic Covid
L5: Long Covid and vaccine response
L6: Neonatal Passive humoral immunity in COVID-19

**Axis 4: Other**

L1: Evaluation of HIV, hepatitis and SARS-CoV-2 diagnostic tests.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALDAMIZ-ECHEVARRIA | LOIS | Mª TERESA | Female | R3 | Established Researcher |
| BERENGUER | BERENGUER | JUAN | Male | R4 | Leading Researcher |
| CORRAL | CARRETERO | SARAY | Female | R1 | First Stage Researcher |
| DIEZ | ROMERO | CRISTINA | Female | R3 | Established Researcher |
| FANCIULLI | | CHIARA | Female | R2 | Recognised Researcher |
| GUTIERREZ | CUELLAR | ISABEL | Female | R1 | First Stage Researcher |
| LEON | PANADERO | MARIA JOSEFA | Female | R1 | First Stage Researcher |
| MORALES | RUBIO | SANDRA | Female | R1 | First Stage Researcher |
| PASCUAL | DOMINGUEZ | RAQUEL | Female | R1 | First Stage Researcher |
| PEREZ | LATORRE | LEIRE | Female | R3 | Established Researcher |
| RAMIREZ | SCHACKE | MARGARITA | Female | R2 | Recognised Researcher |
| RYAN | MURUA | PABLO | Male | R3 | Established Researcher |
| TEJERINA | PICADO | FRANCISCO | Male | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | **1** | | | |
| **National** | **4** | | | |
| **Regional** | | | | |

TITLE: **Mobile Health Units for Vulnerable Populations in Europe.** MOBHOPE
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: European research project
FUNDING BODY: EU4Health
START DATE: 01/01/2025

END DATE: 31/12/2028

TITLE: **Incidencia, inmunidad y factores asociados a infecciones de transmisión sexual en personas transgénero con y sin infección por VIH** (PI24/00933)
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **VHH-8 y VIH: seroprevalencia de VHH-8 en población con VIH en España. PCR de VHH-8, estudio filogenético y marcadores inflamatorios en coinfectados. Impacto de terapias antineoplásicas** (PI23/01706)
DIRECTOR: ALDAMIZ-ECHEVARRIA LOIS, MARIA TERESA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Infecciones agudas/recientes y reinfecciones por VHC en hombres que tienen sexo con hombres con y sin VIH.** (PI20/00474)
DIRECTOR: RYAN MURUA, PABLO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Long Covid: análisis de la posible persistencia viral sistémica y de un reservorio intestinal de Sars-CoV-2 como mecanismo fisiopatogénico** (FMM22/01)
DIRECTOR: TEJERINA PICADO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 15/09/2022
END DATE: 30/01/2026

## *Publications* *Total Impact Factor:* ***172,4***

| | Nº | IF |
|---|---|---|
| Own publications | 7 | 41 |
| Joint publications | 26 | 131.4 |
| First decile publications | 8 | 74.9 |
| First quartile publications | 18 | 126.8 |
| Second quartile publications | 11 | 35.7 |
| Third quartile publications | 4 | 9.9 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |

| | | |
|---|---|---|
| **Total publications (including those without IF)** | **34** | **172.4** |

## ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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- Chalouni, M; Van Santen, DK; Berenguer, J; Jarrin, I; Miro, JM; Klein, MB; Young, J; Torgersen, J; Rentsch, CT; Gill, MJ; Epstein, RL; Linas, B; Zangerle, R; Surial, B; Rauch, A; Touloumi, G; Papadopoulos, A; Wittkop, L; Van Der Valk, M; Boyd, A; Monforte, AD; Puoti, M; Logan, RW; Rein, SM; Hernán, MA; Lodi, S. *Time to direct-acting antiviral initiation and liver-related events in people with HIV and hepatitis C virus*. AIDS. 2025; 39(8) 1074-1079. IF: 2.9. Quartile: 2. (Article).

- Ollero, MJF; Ryan, P; Dolengevich-Segal, H; Cano-Smith, J; Ramos-Ruperto, L; Cabello, A; Sanchez-Conde, M; Cabello, N; Sanz, J; García-Fraile, LJ; Perez-Latorre, L; Bisbal, O; de la Fuente, S; Losa, JE; González-Baeza, A. *Drug Addiction in Gay and Bisexual Men Living with HIV Engaged in Sexualized Drug Use: Recent Drug Use, Polydrug and Depressive Symptoms as Predictors*. AIDS AND BEHAVIOR. 2025; 29(7) 2324-2335. IF: 2.5. Quartile: 2. (Article).

- Martín-Quirós, A; Soriano, A; Tejerina-Picado, F; Güerri-Fernández, R; Cotarelo, M; Molloy, B; Fernández-Vigo, E; Chacón, F. *Baseline medication profile and risk of CYP3A4 mediated drug-drug interactions among COVID-19 hospitalized patients in Spain*. BMC INFECTIOUS DISEASES. 2025; 26(1). IF: 3.2. Quartile: 2. (Article).

- Pérez-Valero, I; Mata, DC; Espejo, AC; Gallo, M; de Morales, AGGR; Fanciulli, C; Martín-Carbonero, L; Isbert, SC; Gutiérrez, CH; Asensi, V; Juarez, AR; Rivero, A. *Real-world Effectiveness and Safety of Bictegravir/Emtricitabine/Tenofovir Alafenamide in Comparison With Other Regimens in People With Human Immunodeficiency Virus Starting Therapy With AIDS-Defining Conditions: Results From the CoRIS Cohort-The ACTUAS II Study*. CLINICAL INFECTIOUS DISEASES. 2025. IF: 8.3. Quartile: 1. (Article).

- Grinspoon, SK; Watanabe, M; Ribaudo, HJ; Bloomfield, GS; Fichtenbaum, CJ; Umbleja, T; Chu, SM; Fitch, K; Diggs, MR; Zhao, SP; Looby, SE; Currier, JS; Aberg, JA; Malvestutto, CD; Erlandson, KM; Martinez, E; Asupoto, O; Gupta, SK; de Quiros, JCLB; Nixon, D; Bedimo, R; Lu, MT; Douglas, PS; Zanni, M. *Factors Affecting Risk of Cardiovascular Disease (CVD) Events in a Global CVD Prevention Cohort of People With Human Immunodeficiency Virus (HIV)*. CLINICAL INFECTIOUS DISEASES. 2025. IF: 8.3. Quartile: 1. (Article).

- Martínez-Martín, P; Esteban-Cantos, A; Jurado, F; Montejano, R; Gutiérrez-García, L; Grela, AD; González, JC; Marcelo, C; Vidal, AD; Arcos-Rueda, MD; Buckley, RD; Bernardino, J; Jiménez-González, M; de Lagarde, M; Sanz-Moreno, J; Ryan, P; Pérez, VE; Pérez-Latorre, L; Losa-García, JE; Rodés, B; Arribas, JR. *Prognostic Value of Blood Epigenetic Biomarkers of Aging in Persons With Well-Controlled Human Immunodeficiency Virus (HIV-1) Infection*. CLINICAL INFECTIOUS DISEASES. 2025. IF: 8.3. Quartile: 1. (Article).

- Berenguer, J; Fanciulli, C; Arcos, MM; Vivancos, MJ; Domingo, P; Hernando, A; Barrado, J; Ryan, P; Navarro, J; Palacios, R; Morano, LE; Iribarren, JA; Martínez, R; Galindo, MJ; de los Santos, I; López-Cruz, I; Rivero, A; Pérez-Latorre, L; Giner, L; Fariñas, MC; García, C; Montero-Alonso, M; Ferrero, OL; Villoslada, A; Soler-González, JF; Sanz, J; Rodríguez, S; Losa, JE; Bernal, E; Veloso, S; Pérez-Martínez, L; Mateos, F; Arbonés, L; Franch, R; Corps, D; Martín, C; Alonso, G; Clavero-Olmos, M; Silvariño, R; Teira, R; Belinchón, O; de Miguel, M; Jarrín, I; González-García, J. *Trends in Hepatitis C Virus Infection Prevalence Among People With HIV in Spain Over 2 Decades (2002-2023)*. CLINICAL INFECTIOUS DISEASES. 2025. IF: 8.3. Quartile: 1. (Article).

- Van Santen, DK; Chalouni, M; Berenguer, J; Jarrin, I; Miro, JM; Klein, MB; Young, J; Torgersen, J; Rentsch, CT; Gill, MJ; Epstein, RL; Nunes, D; Surial, B; Rauch, A; Touloumi, G; Papadopoulos, A; Wittkop, L; Gilbert, C; Leleux, O; van der Valk, M; Boyd, A; Monforte, AD; Puoti, M; Zangerle, R; Gisinger, M; Logan, RW; Rein, S; Hernán, MA; Lodi, S. *Risk of Hepatocellular Carcinoma After Direct-Acting Antiviral Treatment for Hepatitis C Virus Infection in People With Human Immunodeficiency Virus*. CLINICAL INFECTIOUS DISEASES. 2025. IF: 8.3. Quartile: 1. (Article).

- Tejerina, F; Marín, M; Oteo, JA; Martin-Rabadán, P; Muñoz, P; Pérez, L; Aldámiz, T; Fanciulli, C; Diez, C; Santibáñez, P; Portillo, A. *Q fever transmission mediated by ticks*. EMERGING MICROBES & INFECTIONS. 2025; 14(1). IF: 7. Quartile: 1. (Letter).

- De la Villa, S; Parras, V; Pérez-Latorre, L; Martín-Rabadán, P. *An exceptional cause of brain abscess*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2025; 43(3) 177-178. IF: 2.2. Quartile: 3. (Letter).

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# AREA 5. DISEASES OF THE IMMUNE SYSTEM

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

Immunology could be considered the medical discipline in which the most relevant advances have been made in recent years. These advances are evidenced by the many Nobel Prizes awarded to researchers in the field, it is no surprise. Therefore, that the IiSGM has a dedicated immunology research area. In addition to its scientific and social relevance, the importance of this area within the Institute can be seen in its cutting-edge scientific output, the wide variety of its research lines, and its collaborations with other research areas, such as basic and clinical immunology,

rheumatology, allergology, gynecology and obstetrics, cardiology, pneumology, pharmacogenetics, hematology and neurology.

The participation of this Area in numerous publications by groups belonging to other areas of the Institute clearly highlights its philosophy of cooperative research, the cornerstone of any health research institute. There can be no doubt that the Area is perfectly situated for setting down the strategic lines for its continued growth. As a result, collaboration agreements have been proposed with prestigious international institutions, groups from the IiSGM itself, and groups from outside the IiSGM.

## GROUPS IN AREA 5

5.01. Pathophysiology and clinical investigation of chronic inflammatory and immune diseases
5.02. Molecular biology of HIV
5.03. Systemic autoimmune diseases
5.05. Pathogenesis of the immunoallergic response
5.06. Immune regulation and homeostasis in diseases of the immune system
5.07. Infections in paediatric patients

# *5.01 Pathophysiology and clinical research of chronic inflammatory and immune diseases*

Group Director: **Eduardo Fernández-Cruz Pérez (until 8-2024) and Paloma Sánchez-Mateos Rubio (from 9-2024)**
Organisms involved: **HGUGM**
**Consolidated Group**

### *Description of the research group*

The group of Pathophysiology and Clinical Research of Chronic Inflammatory and Immune Diseases has been coordinated by Professor Eduardo Fernández-Cruz, head of the Department of Clinical Immunology, until August 2024. Since then, the group has been led by Dr. Paloma Sánchez-Mateos Rubio.

### *Research lines*

**Axis 1: Immunotherapy with immunomodulatory agents in immune-mediated pathologies**

L1: Immunomodulation of innate, adaptive and genetic responses with immunomodulatory agents in the treatment of immune-mediated diseases

**Axis 2: Study of immunopathogenic mechanisms in: (2.1) Primary Immunodeficiencies and (2.2) Secondary to infections by emerging viruses (SARS-CoV2); (2.4) Immuno-oncology; (2.7) Autoimmune Chronic Inflammatory Diseases; (2.9) Reproductive Failures and (2.10) Solid Organ Transplantation.**

L1: Primary immunodeficiencies: immunopathogenesis, classification and treatment
L2: Study of specific memory T-cell responses to SARS-CoV2
L3: Biomarkers in secondary immunodeficiencies
L4: Cell migration in cancer
L5: Tumour macrophages in melanoma
L6: Study of the efficacy of combining immunotherapy and radiotherapy in different human tumours
L7: Immunology of autoimmune chronic inflammatory diseases
L8: Role of macrophages in Autoimmune Inflammatory Diseases
L9: Reproductive Immunology

**Axis 3: Immunology and HLA; Population Genetics and Signal Transduction**

L1: Immunology and HLA
L2: Population genetics

*Group members – Grupo 501*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGILA | ACURIO | EDISON HERNAN | Male | R1 | First Stage Researcher |
| CASTRO | MOYA | CARLOS FELIPE | Male | R1 | First Stage Researcher |
| DI NATALE | CIPRIANO | MARISA | Female | R1 | First Stage Researcher |
| ESCOBAR | PALAZON | MARIA ANGELES | Female | R1 | First Stage Researcher |
| GARCIA | MARTINEZ | ELENA | Female | R1 | First Stage Researcher |
| GIL | HERRERA | JUANA | Female | R3 | Established Researcher |
| JUAREZ | MARTIN DELGADO | IGNACIO | Male | R2 | Recognised Researcher |
| LÓPEZ | NAVARRO | BALTASAR | Male | | |
| MANZANO | SANTIAGO | PAULA | Female | R1 | First Stage Researcher |
| MARTIN | VILLA | JOSE MANUEL | Male | R3 | Established Researcher |
| MEJIA | GONZALEZ | MARIA ALEJANDRA | Female | R1 | First Stage Researcher |
| NAVARRO | CASPISTEGUI | JOAQUÍN | Male | R3 | Established Researcher |
| NIETO | VALLE | ALICIA | Female | R1 | First Stage Researcher |
| PEREZ | BOTAS | HUGO | Male | R1 | First Stage Researcher |
| PUIG | KRÖGER | AMAYA ROCIO | Female | R3 | Established Researcher |
| QUER | COMPANYS | GENIS | Male | R1 | First Stage Researcher |
| RIOS | DAMIAN | GUADALUPE SOPHIA | Female | R1 | First Stage Researcher |
| RODRÍGUEZ | SAINZ | MARIA CARMEN | Female | R3 | Established Researcher |
| SAMANIEGO | GARCÍA | RAFAEL | Male | R3 | Established Researcher |
| SANCHEZ | CERRILLO | ILDEFONSO | Male | R2 | Recognised Researcher |
| SCHIAFFINO | GARCIA-VILLANOVA | MARIA TERESA | Female | R1 | First Stage Researcher |
| SÁNCHEZ-MATEOS | RUBIO | PALOMA | Female | R3 | Established Researcher |
| TATO | MORENO | PATRICIA | Female | R1 | First Stage Researcher |
| TORRES | TORRESANO | MÓNICA | Female | Sin Definir | |
| TRIGUERO | MARTINEZ | ANA | Female | R1 | First Stage Researcher |
| VITERI | ALVAREZ | DANIEL ALEJANDRO | Male | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | | | | |
| **European** | | | | |
| **National** | **4** | | | |
| **Regional** | | **1** | | |

TITLE: **Reeducación del sistema inmunitario innato en artritis reumatoide mediante el uso de metotrexato e inhibidores de JAK** (PI23/00224)
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Mecanismos moleculares de la inmunidad entrenada inducida por metotrexato** (PI20/00316)
DIRECTOR: PUIG KRÖGER, AMAYA ROCIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Mecanismos de evasión de la inmunidad antitumoral y de resistencia a la inmunoterapia mediados por macrófagos (mel-TAM)** (PID2021-123507OB-I00)
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/09/2022
END DATE: 31/08/2026

TITLE: **Local immunoradiotherapy (LIRT)** (FIBHGM-CCA001-2020)
DIRECTOR: SÁNCHEZ-MATEOS RUBIO, PALOMA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION INVESTIGACION MEDICA APLICADA (FIMA) FIMA
START DATE: 01/12/2019
END DATE: 30/11/2025

* **Not managed by the FIBHGM**

TITLE: **"ILT2 y HLA-G: Nuevas dianas de inmunoterapia en adenocarcinomas gastrointestinales"**. PR17/24-31948 ILyADA
DIRECTOR: JUAREZ MARTÍN-DELGADO, IGNACIO
PROJECT TYPE: Research project
FUNDING BODY: CAM
START DATE: 01/01/2025
END DATE: 31/12/2026

## *Cooperative Research Structures*

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD24/0007/0029 |
| RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD21/0002/0034 |

## *Publications* *Total Impact Factor: 76,8*

| | Nº | IF |
|---|---|---|
| Own publications | 6 | 33.6 |
| Joint publications | 7 | 43.2 |
| First decile publications | 2 | 20.4 |
| First quartile publications | 8 | 61.5 |
| Second quartile publications | 3 | 10.4 |
| Third quartile publications | 2 | 4.9 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **15** | **76.8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Barrio-Alonso, C; Nieto-Valle, A; Barandalla-Revilla, L; Avilés-Izquierdo, JA; Parra-Blanco, V; Sánchez-Mateos, P; Samaniego, R. *Translating genetics into tissue: inflammatory cytokine-producing TAMs and PD-L1 tumor expression as poor prognosis factors in cutaneous melanoma*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Article).
- Sánchez, MS; Garcia-Martínez, E; Martín, HB; Durán-García, ME; Olleros, CL. *Use of anakinra in cryopyrin-associated periodic syndromes: case report and review of literature*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Article).
- García-Martínez, E; Schiaffino, MT; Di Natale, M; Luna, MDD; Alvarez, DAV; González, MAM. *From syndromic clues to diagnosis: understanding CARD11-driven disorders*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Review).
- Alba-Cano, T; Alonso, R; Balastegui-Martín, H; Bravo-Gallego, LY; Sánchez-Mateos, P; Martín-López, M; Gil-Herrera, J. *Impact of CMV latency on T-cell responses to COVID-19 vaccination among predominantly antibody-deficient patients*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Article).
- Zhang, FH; Al-Amin, MY; Utturkar, S; Jiang, RA; Cresswell, G; Alfar, R; Ophaug-Johansen, I; Bachman, G; Srinivasarao, M; Finnell, R; Puig-Kröger, A; Ratliff, T; Low, PS. *Folate receptor ß performs an immune checkpoint function in activated macrophages*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Article).
- Vaquero-Yuste, C; Juarez, I; Molina-Alejandre, M; Gutiérrez-Calvo, A; Lopez-García, A; Lasa, I; Gomez, R; Arnaiz-Villena, A; Martín-Villa, JM. *Hampered CD8+ILT2+T cell activation by HLA-G suggests a new immune checkpoint in gastric adenocarcinoma*. GASTRIC CANCER. 2025; 29(1) 83-96. IF: 6.1. Quartile: 1. (Article).
- Martínez-López, S; Juanola, O; Gómez-Hurtado, I; Angel-Gomis, E; Boix, P; Fernández-Iglesias, A; Gallardo-Cruz, A; Cubero, FJ; Gracia-Sancho, J; Puig-Kröger, A; Caparrós, E; Francés, R. *LSECtin attenuates hepatic Th17 expansion in a murine model of cirrhosis and signals through the LAG-3 receptor*. JHEP REPORTS. 2025; 7(9). IF: 8.7. Quartile: 1. (Article).
- Garate-Soraluze, E; Serrano-Mendioroz, I; Fernández-Rubio, L; De Andrea, CE; Barrio-Alonso, C; Herrero, CD; Teijeira, A; Luri-Rey, C; Claus, C; Tanos, T; Klein, C; Umana, P; Rullan, A; Simón, JA; Collantes, M; Sánchez-Mateos, P; Melero, I; Rodriguez-Ruiz, ME. *4-1BB agonist targeted to fibroblast activation protein a synergizes with radiotherapy to treat*

*murine breast tumor models*. JOURNAL FOR IMMUNOTHERAPY OF CANCER. 2025; 13(1). IF: 11.7. Quartile: 1. (Article).

- Arnaiz-Villena, A; Juarez, I; Vaquero-Yuste, C; Lledo, T; Martín-Villa, JM; Suarez-Trujillo, F. *Two different complement Factor B (Bf) alleles of the orangutan major histocompatibility complex (MHC) are also conserved in chimpanzee and humans showing importance in primate immunity*. MOLECULAR BIOLOGY REPORTS. 2025; 52(1). IF: 3.2. Quartile: 3. (Article).

- García-Martínez, E; Nieto-Valle, A; Barrio-Alonso, C; López-Navarro, B; Avilés-Izquierdo, JA; Parra-Blanco, V; Gutiérrez-Seijo, A; Sánchez-Mateos, P; Samaniego, R. *Adverse prognosis of GM-CSF expression in human cutaneous melanoma*. NEOPLASIA. 2025; 70. IF: 4.8. Quartile: 2. (Article).

- Portela-Sánchez, S; Catalina, I; Muñoz, SL; Ros, AL; Sánchez-Soblechero, A; Vendrel, ES; Sánchez-Mateos, P; Muñoz-Blancoa, JL. *Immune-mediated necrotizing myopathy: experience in a neuromuscular unit*. NEUROLOGIA. 2025; 40(8) 729-738. IF: 2.8. Quartile: 2. (Article).

- Molina-Alejandre, M; Juárez, I; Vaquero-Yuste, C; Gorroño-Echebarría, M; Molanes-López, EM; Fernandez-Cruz, E; Rodriguez-Sainz, C; Arnaiz-Villena, A; Martin-Villa, JM. *HLA-G Polymorphisms of The 3'-UTR Region Are Involved in Susceptibility to Non-Infectious Uveitis*. OCULAR IMMUNOLOGY AND INFLAMMATION. 2025; 33(5) 806-811. IF: 1.7. Quartile: 3. (Article).

- Bourgeois, C; Sánchez-Lucas, M; Olmedo-Galindo, J; Schiaffino, MT; del Río, T; Molina-Collada, J; Martínez-Barrio, J; Fernández-Plana, G; Rivera, J; Alvaro-Gracia, JM; Castrejon, I. *Improving early referrals for inflammatory arthritis through primary care engagement: a quality improvement initiative*. RHEUMATOLOGY ADVANCES IN PRACTICE. 2025; 9(4). IF: 2.8. Quartile: 2. (Article).

***Publications from the WOS Core Collection without Impact Factor:***

- Rios, I; Herrero, C; Torres-Torresano, M; López-Navarro, B; Schiaffino, MT; Crespo, FD; Nieto-Valle, A; Samaniego, R; Sierra-Palomares, Y; Oliver, E; Revuelta-Salgado, F; García-Luján, R; Sánchez-Mateos, P; Delgado, R; Puig-Kröger, A; Corbi, AL. *Reprogramming of GM-CSF-dependent alveolar macrophages through GSK3 activity modulation*. ELIFE. 2025; 14. Quartile: 1. (Article).

***Other publications:***

- González-Novo R; Armesto M; González-Murillo Á; Dreger M; Hurlstone AFL; Benito A; Samaniego R; Ramírez M; Redondo-Muñoz J. *Dual effect of targeting LSD1 on the invasiveness and the mechanical response of acute lymphoblastic leukemia cells.* BIOMEDICINE & PHARMACOTHERAPY. 2025; 183 117830-117830. (Article).

# *5.02 Molecular biology of HIV*

Group Director: **María Ángeles Muñoz Fernández**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

The Molecular Immunobiology Research Laboratory (LIBM) is a multidisciplinary and consolidated research group belonging to the Instituto de Investigación Sanitaria Gregorio Marañón (IiSGM), directed by Dra. Muñoz Fernández. Dra. Muñoz-Fernández is a specialist in Immunology, Doctor in Biology, Doctor in Medicine and Surgery and current head of the Immunology Section at the Hospital General Universitario Gregorio Marañón. She is the Scientific Director of the HGM HIV BioBank and LIBM. The group is made up of support technicians, predoctoral researchers, postdoctoral researchers and senior researchers, as well as administrative and management staff. Dra. Muñoz-Fernández's group has received continuous funding for more than 70 research projects, through both public and private competitive calls, at national and international level, and maintaining collaborations in national and international projects and foundations. It has also received funding in 19 projects from the Health Research Fund (FIS), with the following project in force: PI23/01137 ""Generation of vaginal organoids from human pluripotent stem cells (hPSCs): platform for modeling sexually infectious diseases (SIDs). Nanotechnology-based therapies", 2024-2026 with funding of €202,500 similar to the projects it has received previously, in other calls for proposals.

The LIBM has been incorporated in 2023 to the CIBER of Bioengineering, Biomaterials and Nanomedicine (BBN) (group code: CB22/01/00041). Dra. Muñoz-Fernández has more than 490 publications in prestigious international journals, with a number h of 68 in Google Scholar. She has also trained a large number of scientific researchers,

directing up to 50 PhD Theses (12 of which were awarded the International Mention and 10 with the Extraordinary PhD Award), all of which were graded Cum Laude, more than 40 Masters students and 30 postdoctoral researchers. In addition, she has written 34 book chapters, has participated in 10 clinical practice guidelines and 5 reference books in the field of biomedicine. She has 150 teaching activities, including PhD courses, Bachelor's Degrees, Master's Degrees, Summer Courses, etc., which translates into more than 85 students tutored in various categories: DEA, MIR, Río Hortega, PhD, Final Projects and Master's Degrees.

The activity of the research group has also played an important role in innovation. The research results have registered 17 patents or utility models as inventor based on the development of nanoparticles, especially dendrimers, as new tools in nanomedicine, 1 national and international patent, and the use of these results has promoted the transfer of patents and the development of commercial projects based on technology. It is an accredited evaluator of research projects at national and international level, and a member of 14 scientific societies and committees, highlighting the participation in the Executive Committee of the Spanish Association of Paediatrics (INVEST-AEP). One of the group's priority objectives includes scientific communication and dissemination activities. It has organised 35 scientific events and has presented more than 714 communications and papers at national and international congresses and conferences. The quality of the work produced has been recognised with 39 awards and distinctions from public and private sector entities, aimed at both business management and research excellence: 25 awards granted in recognition of research work, 1 of them at European level, 11 awards granted in Innovation and Translational Research and 3 awards granted by Foundations and private institutions in professional development. It is worth highlighting the Decoration of Admission to the Civil Order of Health in the category of the Simple Cross, awarded by the Ministry of Health and Consumer Affairs.

The group carries out a great deal of excellent research in the field of infectious diseases, both inside and outside Spain, either through its participation in state/European networks or through consortia with research groups, based on the development of new strategies for the prevention, detection and treatment of infectious diseases. Since 1994, the main lines of research developed have been fundamentally related to sexually transmitted infections (STIs), mainly infection by the human immunodeficiency virus (HIV-1). The group's current projects are framed within different lines of research, with a focus applied to basic, clinical or translational research.

## *Research lines*

**Axis 1: Basic Research Axis**

L1: The use of nanoparticles as miRNA delivery agents.

L2: Use of nanoparticles, mainly dendrimers, as microbicides against HIV-1, HSV and other sexually transmitted viruses.

L3: Generation of organoids from human pluripotent stem cells: a platform for modelling infectious diseases. Nanotechnology-based therapies.

**Axis 2: Clinical Research Axis**

L1: Design of immunomodulators and therapeutic vaccines based on dendritic cells against HIV and other sexually transmitted viruses.

L2: Paediatric infection by HIV and other viruses.

L3: Study of SARS-CoV2 infection in adult population and HIV/SARS-Co2 co-infection.

**Axis 3: BioBank**

L1: Private sample collections for specific projects and coordinated by the Director of the HGM HIV biobank, Dr. Muñoz-Fernández, the HGUGM has several cohorts of patients, such as the broncholitis cohort, neonatology, nephrology, rare diseases, respiratory diseases, sepsis, tuberculosis and the recent GesNEO cohort (pregnant women infected by SARS-CoV2 and their newborns) with biological samples stored in the BioBank.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| CRIADO | SANTIAGO | SILVIA | Female | | |
| GALLEGO | DE LA FUENTE | JORGE LUIS | Male | R1 | First Stage Researcher |
| GOMEZ | RICO | CORAL | Female | R1 | First Stage Researcher |
| GONZALEZ | LÓPEZ | DAVID | Male | | |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| JIMENEZ | FUENTES | JOSE LUIS | Male | R3 | Established Researcher |
| MAGRO | LOPEZ | ESMERALDA | Female | R2 | Recognised Researcher |
| MUÑOZ | FERNANDEZ | Mª ANGELES | Female | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | | | |
| **Regional** | | | | |

TITLE: **Generación de organoides vaginales a partir de células madre humanas pluripotentes (hPSCs): una plataforma para modelizar infecciones de transmisión sexual (ETSs). Terapias basadas en la nanotecnología.** (PI23/01137)

DIRECTOR: JIMENEZ FUENTES, JOSE LUIS

PROJECT TYPE: Research project

FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2024

END DATE: 31/12/2026

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Vázquez Alejo, Elena* | *Characterization of the evolution of the immune response in patients infected with SARS-CoV-2* | *Muñoz Fernández, Mª Ángeles* | *UAM* | *25/06/2025* |

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number) | Owner | Inventors |
|---|---|---|---|
| **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 |

| Title | Reference of patent family (Priority number) | Owner | Inventors |
|---|---|---|---|
| **Dendríticos carbosilanos homo y hetero funcionalizados** | P201231187 | 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 |
| **Dendrímeros carbosilanos y su uso como antivirales** | P201030233 | 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 |
| **Nanopartículas metálicas estabilizadas con dendrones carbosilanos 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** | P201600726 | 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 |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

## *Publications*

*Total Impact Factor: **38,2***

| | Nº | IF |
|---|---|---|
| Own publications | 2 | 11.8 |
| Joint publications | 3 | 26.4 |
| First decile publications | 2 | 22.3 |
| First quartile publications | 4 | 35.1 |
| Second quartile publications | 0 | 0 |
| Third quartile publications | 1 | 3.1 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |

| | | |
|---|---|---|
| **Total publications (including those without IF)** | 6 | 38.2 |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Vazquez-Cuesta, S; Olmedo, M; Kestler, M; Alvarez-Uria, A; de la Villa, S; Alcala, L; Marin, M; Rodriguez-Ferna, S; Sanchez-Martinez, C; Munoz, P; Bouza, E; Reigadas, E. *Prospective analysis of biomarkers associated with successful faecal microbiota transplantation in recurrent Clostridioides difficile infection*. CLINICAL MICROBIOLOGY AND INFECTION. 2025; 31(7) 1187-1195. IF: 8.7. Quartile: 1. (Article).
- Sánchez-Cerrillo, I; Agudo-Lera, M; Popova, O; Tsukalov, I; Calvet-Mirabent, M; de los Santos, I; García-Fraile, L; Fuentes, P; Delgado-Arévalo, C; Alcain, J; Sánchez-Gaona, N; Grau-Expósito, J; Lázaro-Díez, M; Muñoz-Calleja, C; Alfranca, A; Genescà, M; Prado, JG; Vrbanac, V; Balazs, A; Buzón, MJ; Toribio, ML; Muñoz-Fernández, MA; Sánchez-Madrid, F; Martín-Gayo, E. *Combined dendritic cell and anti-TIGIT immunotherapy potentiates adaptive NK cells against HIV-1*. EMBO MOLECULAR MEDICINE. 2025; 17(7) 1756-1793. IF: 7.9. Quartile: 1. (Article).
- Vazquez-Alejo, E; Espinar-Buitrago, MD; Magro-Lopez, E; Tarancon-Diez, L; Díez, C; Bernardino, JI; Rull, A; de los Santos, I; Alonso, R; Zamora, A; Jiménez, JL; Muñoz-Fernández, MA. *Deciphering long-term immune effects of HIV-1/SARS-CoV-2 co-infection: a longitudinal study*. MEDICAL MICROBIOLOGY AND IMMUNOLOGY. 2025; 214(1). IF: 3.1. Quartile: 3. (Article).
- Quero-Delgado, M; Codina, H; Gómez, R; Terán, FJ; Muñoz-Fernández, MA; Jiménez, JL; Resino, S; Sepúlveda-Crespo, D; Martínez, I. *Advances in Nanotechnology-Enabled Optical Biosensors for Dengue Virus Detection: A Systematic Review*. MEDICINAL RESEARCH REVIEWS. 2025. IF: 13.6. Quartile: 1. (Review).
- Tarancon-Diez, L; Iriarte-Gahete, M; Sanchez-Mingo, P; Muñoz-Fernandez, MA; Navarro-Gomez, ML; Pacheco, YM; Leal, M. *Impact of obesity on iron metabolism and the effect of intravenous iron supplementation in obese patients with absolute iron deficiency*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

***Publications from the WOS Core Collection without Impact Factor:***

- Bermejo-Gómez A; Tarancon-Diez L; Lazaro-Martin B; Santiago-Garcia B; Gil Villanueva N; Alonso R; Muñoz-Fernández MÁ; Camino López M; Hernanz-Lobo A; Navarro Gómez ML. *Humoral and cellular response to SARS-CoV-2 mRNA vaccine in paediatric heart transplant recipients.* HELIYON. 2025; 11(1). Quartile: 1. (Article).

# *5.03 Systemic autoimmune diseases*

Group Director**: José María Álvaro-Gracia**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

The group 5.03 focuses its research activities on: 1) studying the mechanisms of action and safety of biological disease-modifying drugs and targeted molecules; 2) Biomarkers and strategies for the early detection of rheumatoid arthritis; 3) Validation of patient-reported outcomes (PROs) in rheumatic diseases 4) Characterisation and prognostic factors in systemic autoimmune diseases, multidisciplinary unit and CSUR reference centre; 5) Musculoskeletal and vascular ultrasound for the assessment of rheumatic pathology; 6) Characterisation of chronic musculoskeletal pain

## *Research lines*

**Axis 1: Biological and targeted therapies in rheumatic diseases**

Line 1: Safety, efficacy and optimisation in biological and targeted therapies.

Line 2: Biomarkers of response to methotrexate and JAK inhibitors.

**Axis 2: Rheumatoid arthritis**

Line 1: Early arthritis – REUCARE

Line 2: Determinants of remission in RA - Remission Unit

Line 3: Interstitial lung disease in RA

**Axis 3: Systemic autoimmune rheumatic diseases**

Line 1: FAST track in giant cell arteritis

Line 2: Biomarkers of activity in scleroderma

Line 3: Remission and discordance in SLE – RELESSER
Line 4: Characterisation of Sjogren's syndrome

**Axis 4: Osteoporosis and Bone Metabolism**

Line 1: Osteoporosis and mastocytosis

**Axis 5: Imaging in Rheumatology**

Line 1: Ultrasonography in large vessel vasculitis

**Axis 6: Paediatric Rheumatology**

Line 1: Characterisation of JIA
Line 2: Remission in JIA

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALVARO-GRACIA | ALVARO | JOSE MARIA | Male | R4 | Leading Researcher |
| BOURGEOIS | | CAMILLE | Female | R1 | First Stage Researcher |
| CASTREJÓN | FERNÁNDEZ | ISABEL | Female | R3 | Established Researcher |
| COMINO | MAROTO | LUCIA | Female | R1 | First Stage Researcher |
| DEL RIO | BLASCO | TAMARA | Female | R1 | First Stage Researcher |
| MARTINEZ | BARRIO | JULIA | Female | R2 | Recognised Researcher |
| MOLINA | COLLADA | JUAN | Male | R1 | First Stage Researcher |
| NIETO | GONZALEZ | JUAN CARLOS | Male | R2 | Recognised Researcher |
| PAVIA | PASCUAL | MARINA | Female | R1 | First Stage Researcher |
| REBOLLO | GIMENEZ | ANA ISABEL | Female | R1 | First Stage Researcher |
| RODRIGUEZ | MERLOS | PABLO | Male | R1 | First Stage Researcher |
| SERRANO | BENAVENTE | BELÉN | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | 1 | | | |
| **National** | 3 | | | |
| **Regional** | | | | |

TITLE: **Stratification of Patients using advanced Integrative modeling of Data Routinely acquired for diagnosing Rheumatic complaints (SPIDeRR 101080711)** (HE SPIDeRR 101080711)
DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/05/2023
END DATE: 30/04/2028

TITLE: **Clinical validation of OPTIBIO algorithm to predict persistent remission in rheumatoid arthritis patients treated with biological therapy. (REMRABIT- plus)** (PMP22/00101)
DIRECTOR: ALVARO-GRACIA ALVARO, JOSE MARIA

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 24/10/2025
END DATE: 30/06/2026

TITLE: **Efectividad y Seguridad de Tratamientos Biológicos y Terapias Dirigidas desde la Perspectiva del Paciente en Vida Real: avanzando en el cuidado centrado en el paciente en Reumatología** (PI23/01226)
DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Consulta de Alta Resolución en Reumatología (Reu-CAR): Una iniciativa coordinada entre Atención Primaria/Reumatología para el diagnóstico precoz y mejor manejo de los pacientes con artritis inflamatoria.** (PI20/00847)
DIRECTOR: CASTREJÓN FERNÁNDEZ, ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

## *Cooperative Research Structures*

| ***Type (RICORS, CIBER, others)*** | ***Name of Network*** | ***Role*** | ***Code*** |
|---|---|---|---|
| RICORS | Red de Enfermedades Inflamatorias (REI) | Collaborating group | RD24/0007/0029 |

## *Industrial and intellectual property registrations*

### *Copyright*

| **Title** | **Reference of patent family (Priority number))** | **Owner** | **Inventors** |
|---|---|---|---|
| **Infiltraciones Guiadas por Ecografia** | M-005488/2018 | FIBHGM | Juan Carlos Nieto González |

Transferred Industrial Property 31/12/2025

## *Publications* *Total Impact Factor: **163,6***

| **Nº** | **IF** |
|---|---|

| | | |
|---|---|---|
| Own publications | 8 | 29.3 |
| Joint publications | 29 | 134.3 |
| First decile publications | 3 | 37.4 |
| First quartile publications | 18 | 108.6 |
| Second quartile publications | 16 | 50.2 |
| Third quartile publications | 3 | 4.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **37** | **163.6** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Rubio, E; Moreno, MJ; Gallego, A; Castrejón, I; Cobo, A; Moyano, S; Comellas, M. *Use of Patient-Reported Outcome Measures in Patients with Rheumatoid Arthritis in Spain and Barriers to Implementation: A Delphi Study*. ADVANCES IN THERAPY. 2025. IF: 4.7. Quartile: 1. (Article).

- Ravelli, A; Rosina, S; Macmahon, JM; Baird, T; Rebollo-Gime, AI; Hinze, C; Mccann, LJ; Reed, AM; Rider, LG; Arvigo, M; Bader-Meunier, B; Bruno, C; Caifeng, L; Campanilho-Marques, R; Cuccato, S; Fiorillo, C; Hahn, NA; Huber, AM; Jansen, M; Kasapcopur, O; Katsikas, MM; Kim, S; Livermore, P; Maillard, S; Malattia, C; Migowa, AN; Miyamae, T; Murphy, R; Nicolai, R; Papadopoulou, C; Pilkington, C; Sanner, H; Sawhney, S; Smolewska, E; Tarvin, SE; Tiller, G; Toplak, N; Wedderburn, LR; Bovis, F; Consolaro, A; Feldman, BM. *Treating juvenile dermatomyositis to target: Paediatric Rheumatology European Society/Childhood Arthritis and Rheumatology Research Alliance-endorsed recommendations from an international task force*. ANNALS OF THE RHEUMATIC DISEASES. 2025; 84(7) 1055-1067. IF: 24. Quartile: 1. (Article).

- Rodriguez-Merlos, P; Cabrera-Alarcón, JL; Ruiz-Esquide, V; Chacur, CA; Sanmartí, R; De Miguel-Mendieta, E; Alvaro-Gracia, JM; Balsa, A; Plasencia-Rodríguez, C; Novella-Navarro, M. *Early-onset difficult-to-treat rheumatoid arthritis: proposal of data-driven predictors and temporal threshold*. ARTHRITIS RESEARCH & THERAPY. 2025; 27(1). IF: 5.4. Quartile: 1. (Article).

- Vela-Casasempere, P; Otero-Varela, L; Sabater, SG; Alameda, RC; Fernández, CC; Calvo-Gutiérrez, J; Pérez-Vera, Y; Arija, SM; Bustabad, S; Ruiz, JM; Montesino, MDR; Gutiérrez, LR; Varela, AM; Ramos, MJM; Sánchez-Alonso, F; Castrejón, I. *Gender differences in clinical and prescribing characteristics of biologic and targeted synthetic drugs in naïve patients with rheumatoid arthritis: Data from BIOBADASER III registry*. ARTHRITIS RESEARCH & THERAPY. 2025; 27(1). IF: 5.4. Quartile: 1. (Article).

- Ciurea, A; Kissling, S; Götschi, A; Ornbjerg, LM; Rasmussen, SH; Tamási, B; Möller, B; Nissen, MJ; Glintborg, B; Loft, AG; Scherer, A; Bräm, R; Pavelka, K; Závada, J; Dias, JM; Valente, P; Gudbjornsson, B; Palsson, O; Rantalaiho, V; Peltomaa, R; Codreanu, C; Mogosan, C; Iannone, F; Sebastiani, M; Jones, GT; Macfarlane, GJ; Castrejon, I; Rotar, Z; Michelsen, B; Wallman, JK; van der Horst-bruinsma, I; Distler, O; Ostergaard, M; Hetland, ML; Micheroli, R; Ospelt, C. *Differences in the response to TNF inhibitors at distinct joint locations in patients with psoriatic arthritis: results from nine European registries*. ARTHRITIS RESEARCH & THERAPY. 2025; 27(1). IF: 5.4. Quartile: 1. (Article).

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## *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**

L1: Mechanisms of the allergic response and their regulation.

L2: Transgenesis and phenotyping.

L3: Hyperoxia-induced disease.

L4: Allergenic characterization of noncommercial allergens.

**Axis 2: Uncommon allergic diseases**

L1: Difficult-to-control asthma.

L2: Hereditary angioedema.
L3: Eosinophilic esophagitis.
L4: Activation of mastocytes.

**Axis 3: Pediatric allergy**

L1: Oral immunotherapy with foods.
L2: Gastrointestinal allergy.
L3: Anaphylaxis in children.
L4: Use of social networks in food-allergic children.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALTUVE | | RAUL FRANCESCO | Male | R1 | First Stage Researcher |
| ALVAREZ | PEREA | ALBERTO | Male | R3 | Established Researcher |
| ARANA | ARCE | JUAN SEBASTIAN | Male | R1 | First Stage Researcher |
| ARQUERO | URBANOS | GUILLERMO | Male | R1 | First Stage Researcher |
| BARRETO | PUEBLA | MARIA | Female | R1 | First Stage Researcher |
| BENITEZ DEL CASTILLO | MATEOS | MARIA | Female | R1 | First Stage Researcher |
| BERZAL | PLAZA | LAURA | Female | R1 | First Stage Researcher |
| BLANCO | LOPEZ | MARTA | Female | R1 | First Stage Researcher |
| BUENO | BALBOA | ALBERTO | Male | R1 | First Stage Researcher |
| CABRERA | FREITAG | PAULA | Female | R3 | Established Researcher |
| CUBILLO | HERAS | PAULA | Female | R1 | First Stage Researcher |
| CUEVAS | BRAVO | CRISTINA | Female | R1 | First Stage Researcher |
| DE CASTRO | MARTINEZ | FRANCISCO JAVIER | Male | R1 | First Stage Researcher |
| ENTRALA | BUESO | ANA | Female | R3 | Established Researcher |
| GARATE | RODRIGUEZ | ERIK | Male | R1 | First Stage Researcher |
| GONZALEZ | EJIDO | PABLO | Male | R1 | First Stage Researcher |
| INFANTE | HERRERO | SONSOLES | Female | R3 | Established Researcher |
| MATEO | FRANCES | MARIA VICTORIA | Female | R1 | First Stage Researcher |
| MORALES | GUTIERREZ DE LA SOLANA | LEONOR | Female | R1 | First Stage Researcher |
| MORALES | JANKE | ANNIKA INGRID | Female | R1 | First Stage Researcher |
| NOGUERADO | MELLADO | BLANCA | Female | R3 | Established Researcher |
| NOGUERALES | FUERTE | LUCIA | Female | R1 | First Stage Researcher |
| PALOMINO | LOZANO | LAURA | Female | R1 | First Stage Researcher |
| PRIETO | GARCÍA | ALICIA | Female | R3 | Established Researcher |
| PROAÑO | MOSQUERA | SOFIA MARGARITA | Female | R1 | First Stage Researcher |
| RIDRUEJO | FLOREZ | MARIA | Female | R1 | First Stage Researcher |
| RODRIGUEZ | MAZARIEGO | MARTA ELENA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ROJAS | PEREZ EZQUERRA | PATRICIA EUGENIA | Female | R1 | First Stage Researcher |
| TORNERO | MOLINA | PILAR | Female | R1 | First Stage Researcher |
| ZAMBRANO | IBARRA | GABRIELA ANDREA | Female | R1 | First Stage Researcher |
| ZUBELDIA | ORTUÑO | JOSÉ MANUEL | Male | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Protocolo de alergia a medicamentos** | 2308115023081 | FIBHGM | José Manuel Zubeldia Ortuño, María Luisa Baeza Ochoa de Ocariz, Patricia Rojas Pérez-Ezquerra, Blanca Noguerado Mellado |

Transferred Industrial Property 31/12/2025

## *Cooperative Research Structures*

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| CIBER | Centro de Investigación Biomédica en Red de Enfermedades Raras | Associated group | CIBERER |

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Crespo Quirós, Jimena* | *Food protein-induced enterocolitis syndrome in adults* | *Infante Herrero, Sonsoles; Zubeldia Ortuño, José Manuel* | *Universidad de Alcalá de Henares* | *07/03/2025* |

## *Publications* *Total Impact Factor: **124,8***

| | Nº | IF |
|---|---|---|
| Own publications | 7 | 26.1 |
| Joint publications | 11 | 98.7 |
| First decile publications | 10 | 90 |
| First quartile publications | 14 | 113.9 |
| Second quartile publications | 2 | 6 |
| Third quartile publications | 2 | 4.9 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **18** | **124.8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Santos, AF; Riggioni, C; Agache, I; Akdis, CA; Akdis, M; Alvarez-Perea, A; Alvaro-Lozano, M; Ballmer-Weber, B; Barni, S; Beyer, K; Bindslev-Jensen, C; Brough, HA; Buyuktiryaki, B; Chu, DR; Del Giacco, S; Dunn-Galvin, A; Eberlein, B; Ebisawa, M; Eigenmann, P; Eiwegger, T; Feeney, M; Fernandez-Rivas, M; Fiocchi, A; Fisher, HR; Fleischer, DM; Giovannini, M; Gray, C; Hoffmann-Sommergruber, K; Halken, S; Hourihane, JO; Jones, CJ; Jutel, M; Knol, EF; Konstantinou, GN; Lack, G; Lau, S; Mejias, AM; Marchisotto, MJ; Meyer, R; Mortz, CG; Moya, B; Muraro, A; Nilsson, C; de Oliveira, LCL; O'Mahony, L; Papadopoulos, NG; Perrett, KP; Peters, R; Podesta, M; Poulsen, LK; Roberts, G; Sampson, H; Schwarze, J; Smith, P; Tham, E; Untersmayr, E; Van Ree, R; Venter, C; Vickery, B; Vlieg-Boerstra, B; Werfel, T; Worm, M; Du Toit, G; Skypala, I. *EAACI guidelines on the management of IgE-mediated food allergy*. ALLERGY. 2025; 80(1) 14-36. IF: 11.3. Quartile: 1. (Article).

- Rossi, CM; Terreehorst, I; Apostolidou, E; Votto, M; Bakirtas, A; Cianferroni, A; Konstantinou, GN; Pantavou, K; Antolin-Amerigo, D; Heffler, E; Alvarez-Perea, A; Fernandez-Rivas, M; Nikolopoulos, GK; Pfaar, O; Pitsios, C. *A Systematic Review and Meta-Analysis on the Induction of Confirmed Eosinophilic Esophagitis as a Side Effect of Allergen Immunotherapy: An EAACI Task Force Report*. ALLERGY. 2025. IF: 11.3. Quartile: 1. (Review).

- Pouessel, G; Divaret-Chauveau, A; Herrero, SI; Garriga-Baraut, T; Arasi, S; Sabouraud-Leclerc, D. *Reply to Correspondence "Anaphylaxis Induced by Goat's and Sheep's Milk-A Rare Entity in Europe"*. ALLERGY. 2025; 81(1) 314-315. IF: 11.3. Quartile: 1. (Letter).

- Vassilopoulou, E; Tsabouri, S; Arasi, S; Comotti, A; Milani, GP; Ryczaj, K; Agostoni, C; Pagkalos, I; Vlieg-Boerstra, B; Caballero-Lopez, CG; Feketea, G; Nowak-Wegrzyn, A; Halken, S; Beken, B; Alvaro-Lozano, M; Padua, I; Giovannini, M; Du Toit, G; Alvarez-Perea, A; Canani, RB; Peroni, D; Pérez-Gordo, M; Shamji, MH; Klimek, L; Agache, I; Berghea, EC; Roth-Walter, F; Ozdemir, C; Smith, P; Mahony, LO; Meyer, RW; Venter, C. *Healthcare Professional Survey on Complementary Feeding and Allergy Prevention in High- Versus Low-Risk Infants: An EAACI Task Force Report*. ALLERGY. 2025. IF: 11.3. Quartile: 1. (Article).

- Vázquez-Barrera, I; Juárez-Guerrero, A; Cuevas-Bravo, C; Perez-Ezquerra, PR; Noguerado-Mellado, B. *Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) caused by niraparib: a novel antineoplastic agent*. ALLERGY ASTHMA AND CLINICAL IMMUNOLOGY. 2025; 21(1). IF: 3. Quartile: 2. (Article).

- Vázquez-Barrera, I; Quirós, JC; Letón-Cabanillas, P; González-Egido, P; Infante, S. *Quality of life in adults with food protein-induced enterocolitis syndrome*. ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. 2025; 134(1) 98-99. IF: 7.1. Quartile: 1. (Letter).

- Bonertz, A; Drai, C; Hartenstein, D; Kaul, S; Mitrevski, M; Zubeldia, JM. *European Medicines Agency (EMA) commentary on EMA/CHMP Guideline on allergen products development for immunotherapy and allergy diagnosis in moderate to low-sized study populations*. BRITISH JOURNAL OF CLINICAL PHARMACOLOGY. 2025; 91(5) 1293-1296. IF: 3. Quartile: 2. (Editorial Material).

- del-Barrio-Buesa, S; Narrillos-Moraza, A; García-de-Pedro, J; de-Castro-Martínez, FJ; Durán-García, ME; Escudero-Vilaplana, V; Lobato-Matilla, E; Romero-Jimenez, R; Chamorro-de-Vega, E; Ruiz-Briones, P; Garcia-Moreno, FJ; Martín-Bartolomé, M; Herranz, A; Sanjurjo, M. *Monoclonal antibodies in severe asthma: outcomes from real-world data*. FRONTIERS IN MEDICINE. 2025; 12. IF: 3.6. Quartile: 1. (Article).

- Marco-Martin, G; Hernández, AL; Serrano-Garcia, I; Zubeldia, JM; Baeza, ML. *Anisakis simplex Excretion/Secretion Antigens Abolish the Anaphylactic Response in Allergic Mice*. INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY. 2025. IF: 2.3. Quartile: 3. (Article).

- Láinez-Nuez A; Baeza Ochoa de Ocáriz ML. *Reply*. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY: GLOBAL. 2025; 4(2) 100388-100388. IF: 2.6. Quartile: 3. (Article).

- Ibrahim T; Argiz L; Infante S; Arasi S; Nurmatov U; Vazquez-Ortiz M. *Oral Food Challenge Protocols in Food Protein-Induced Enterocolitis Syndrome: A Systematic Review.* JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2025; 13(4) 814-832. IF: 7.2. Quartile: 1. (Article).

- Phelan, AK; Infante, S; Barni, S; Nurmatov, U; Boyle, RJ; Vazquez-Ortiz, M. *The Role of IgE Sensitization in Acute FPIES: A Systematic Review and Meta-Analysis*. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2025; 13(4). IF: 7.2. Quartile: 1. (Review).

- del Río, PR; Riggioni, C; Deschildre, A; Greenhawt, M; Schnadt, S; Arasi, S; Nowak-Wegrzyn, A; Wasserman, RL; Begin, P; Waserman, S; Patel, N; Coelho, GLD; Alvaro, PC; Mori, F; Caminiti, L; Mack, DP; Wexler, M; Bernaola, M; Perez, FJR; Jimenez, AR; El Abd, K; Wanin, S; Yassin, M; Guenard-Bilbault, L; Metz-Favre, C; Badina, L; Schreiber, R; Amoros, SM; Fox, AT; Vazquez-Cortés, S; Garriga-Baraut, T; Cros, P; Bazire, R; Fitzhugh, D; Muraro, A; Perea, AA; Turner, P; Lozano, MA; Rivas, MF; Galvin, AD. *Patient-Reported Outcomes on Food Immunotherapy Differ Between Countries and Foods: Results From COFAITH*. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2025; 13(8). IF: 7.2. Quartile: 1. (Article).

- Sabaté-Brescó, M; Guilarte, M; Alkorta-Aranburu, G; Sala-Cunill, A; Donado, CD; Baeza, ML; Azofra, J; Gaig, P; Herrera-Lasso, V; Veleiro, B; Pruneda, PC; Rodriguez-Garijo, N; Gil, MP; Labrador-Horrillo, M; Puga, MF. *Familial mast cell-mediated angioedema: Description of 4 families*. JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2025; 13(9). IF: 7.2. Quartile: 1. (Editorial Material).

- Tomas-Perez, M; Vera-Berrios, R; Casas-Saucedo, R; Galleani, C; Gonzalez-Bravo, L; Gonzalo-Fernandez, A; Gonzalez-Perez, A; Rodriguez-Mazariego, E; Ruano-Zaragoza, M; Zambrano-Ibarra, G; Bartra-Tomas, J. *Sensitization to Pru p 7 in Peach-Allergic Patients Sensitized to Pru p 3 in Areas of High Exposure to Cypress Pollen*. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2025; 35(4) 311-313. IF: 6.6. Quartile: 1. (Article).

- Carpio-Escalona, LV; Prieto-García, A; Morales-Cabeza, C; Guilarte, M; Matito, A; Torrado,; Vega-Castro, A; González-de-Olano, D. *Tyrosine Kinase Inhibitors for the Treatment of Mast Cell Diseases: Review and Update*. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2025; 35(5) 328-340. IF: 6.6. Quartile: 1. (Review).

- Murillo-Cuesta, S; Seoane, E; Cervantes, B; Zubeldia, JM; Varela-Nieto, I. *NLRP3 inflammasome and hearing loss: from mechanisms to therapies*. JOURNAL OF NEUROINFLAMMATION. 2025; 22(1). IF: 11.5. Quartile: 1. (Review).

- Pessina, B; Cabrera-Freitag, P; Entrala, A; Infante, S; Alvarez-Perea, A. *Mollusk tolerance in crustacean-allergic children: Unraveling pediatric shellfish allergy cross-reactivity patterns*. PEDIATRIC ALLERGY AND IMMUNOLOGY. 2025; 36(10). IF: 4.5. Quartile: 1. (Letter).

## *5.06 Immune regulation and homeostasis in diseases of the immune system*

Group Director**: Rafael Correa Rocha and Marjorie Pion**

Organisms involved: **HGUGM**

**Emerging group**

### *Description of the research group*

The Laboratory of Immuno-regulation (LIR) directed by Rafael Correa Rocha, is an emerging group within the Instituto de Investigación Sanitaria Gregorio Marañón (IISGM), included in Area 5 (Immune System Pathology). The group has focused its research on the study of the immunological mechanisms involved in different immune pathologies in paediatric patients. These studies constitute an unprecedented line of research at the centre and have led to the development of a pioneering clinical trial to prevent rejection in children with heart transplants through therapy with Treg cells. Another PI of the group, Dr Marjorie Pion, is developing a cutting-edge line of research on the genetic modification of immune cells for the development of advanced cellular immunotherapies.

### *Research lines*

**Axis 1: Advanced Cellular Therapies**

L1: Pioneering development of a cell therapy with thyTreg cells.
L2: Clinical trials on the autologous and allogeneic use of thyTreg cell therapy.
L3: Development of antigen-specific genetically modified regulatory T-cells.

**Axis 2: New Diagnostic and Therapeutic Techniques in Immunology**

L1: Development of extracellular vesicles produced in thymus regulatory T-cell culture

**Axis 3: Advanced Diagnostics and Personalised Precision Medicine**

L1: Implementation of advanced diagnostic techniques and therapies in immunology for rare paediatric diseases

**Axis 4: Immune response in COVID-19**

L1: Study of the immune system of patients infected by SARS-CoV-2 or vaccinated by mRNA-based vaccines.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| BELTRAN | PRETELL | VANESSA | Female | Other | Other |
| BENAVENTE | GARCIA | SARA | Female | R1 | First Stage Researcher |
| BERNALDO DE QUIROS | PLAZA | ESTHER | Female | R2 | Recognised Researcher |
| CHECA | FERNÁNDEZ | SERGIO | Male | Other | Laboratory Technician |
| CORREA | ROCHA | RAFAEL | Male | R4 | Leading Researcher |
| COZAR | FERNANDEZ | BEATRIZ | Female | R1 | First Stage Researcher |
| DE LA CRUZ | TABERNERO | AITANA | Female | Other | Laboratory Technician |
| GÓMEZ | ARCONADA | SANDRA | Female | R1 | First Stage Researcher |
| HERNANDEZ | FLOREZ | DIANA CAROLINA | Female | Other | Other |
| KENNEDY | BATALLA | REBECA | Female | R2 | Recognised Researcher |
| LOPEZ | ESTEBAN | ROCIO | Female | Other | Laboratory Technician |
| MARTINEZ | BONET | MARTA | Female | R3 | Established Researcher |
| MERINO | FERNANDEZ | LAURA | Female | R1 | First Stage Researcher |
| MOYA | CABANES | ROCIO | Female | Other | Project Manager |
| PION | | MARJORIE | Female | R4 | Leading Researcher |
| QUIJADA | MORALES | PATRICIA ANDREA | Female | R1 | First Stage Researcher |
| ROSALES | MAGALLARES | JESÚS | Male | R1 | First Stage Researcher |
| SAEZ | RASPEÑO | RAQUEL | Female | Other | Laboratory Technician |
| SEOANE | REULA | MARÍA ELENA | Female | R3 | Established Researcher |
| ZIEBA | | PAULINA MAGDALENA | Female | Other | Other |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 9 | | 2 | |
| **Regional** | 1 | | 4 | |

TITLE: **Allogeneic Thymic Tregs (ThyTreg) as a Novel Therapeutic Approach for Pediatric Very Early Onset Inflammatory Bowel Disease (VEO-IBD). TREAT-KIDS** (CPP2024-011294)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/11/2025
END DATE: 31/10/2028

TITLE: **Implementación clínica de un protocolo de diagnóstico avanzado para establecer estrategias de medicina personalizada de precisión en pacientes pediátricos con enfermedades raras inmunomediadas** (PI24/01098)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Ensayo clínico Fase I/IIa para determinar la eficacia de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) alogénicas y criopreservadas en el control de la inflamación en pacientes adultos con enfermedad de Crohn refractaria** (ICI24/00008)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **Receptor de Antígeno Quimérico en células T reguladoras derivadas del timo: prueba de concepto preclínica para su uso en terapia inmunosupresora alógena** (DTS23/00037)
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 30/06/2026

TITLE: **Uni-thyTreg: prueba de concepto preclínica para el uso de células T reguladoras obtenidas de tejido tímico (thyTreg) y modificadas genéticamente como terapia celular alogénica.** (PI22/00473)
DIRECTOR: PION, MARJORIE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Caracterización de las alteraciones inmunológicas, específicamente en células Treg, implicadas en la desregulación inmune en pacientes pediátricos con errores innatos de inmunidad, hacia terapias dirigidas** (PI21/01325)
DIRECTOR: SEOANE REULA, MARÍA ELENA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **PIC IDEPTE " Ensayo clínico para determinar la eficacia de una terapia con células thyTreg en la prevención de rechazo en niños trasplantados de corazón y de la enfermedad injerto contra receptor en adultos."** (ICI20/00063)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 31/12/2026

TITLE: **Ensayo Clínico para evaluar la eficacia de una Terapia Celular pionera con células Treg obtenidas de tejido tímico (thyTreg) dirigida a inducir Inmunotolerancia en Niños Trasplantados de Corazón** (FMM24/02)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 24/07/2024
END DATE: 23/07/2027

TITLE: **Ensayo Clínico Fase II para evaluar la eficacia de una Terapia Celular pionera con células Treg obtenidas de tejido tímico (thyTreg) en la prevención de rechazo en Niños Trasplantados de Corazón con reducción en la dosis de inmunosupresores** (SET25/01)
DIRECTOR: CORREA ROCHA, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD ESPAÑOLA DE TRASPLANTE
START DATE: 15/02/2025
END DATE: 14/02/2027

TITLE: **thyTreg, terapias celulares avanzadas, células Treg, tolerancia inmunológica, terapia alogénica, COVID19** (IND2022/BMD-23591)
DIRECTOR: COZAR FERNANDEZ, BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: COMUNIDAD AUTONOMA DE MADRID
START DATE: 01/12/2022
END DATE: 30/11/2025

TITLE: **Miguel Servet contracts** CP24/00097
DIRECTOR: Marta Martínez Bonet
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 22/01/2025
END DATE: 21/01/2030

TITLE: **Predoctoral contracts (PFIS)** FI23/00086
DIRECTOR: Marjorie Pion (Jesús Rosales Magallares)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Grants for predoctoral research staff in training** PIPF-2023/SAL-GL-30591
DIRECTOR: Rafael Correa Rocha (Sandra Gómez Arconada)
PROJECT TYPE: Human Resources

FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2024
END DATE: 28/02/2028

TITLE: **Grants for predoctoral research staff in training** PIPF-2024/SAL-GL-34197
DIRECTOR: Marjorie Pion (Laura Merino Fernández)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2025
END DATE: 30/11/2029

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-26491
DIRECTOR: Marjorie Pion (Paulina Magdalena Zieba)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/02/2024
END DATE: 31/01/2026

TITLE: **Young employment Program contracts** PEJ-2023-AI/SAL-GL-26622
DIRECTOR: Rafael Correa Rocha (Sara Benavente García)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 28/02/2026

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Kit de tratamiento de niños trasplantados de corazón con células T reguladoras para suprimir el rechazo del órgano (para regular el sistema inmunitario)** | P201830197 | FIBHGM | FranciRafael Correa, Marjorie Pion, Esther Bernaldo de Quirós |
| **Generación de células T reguladoras provenientes de timo (thyTreg) modificadas genéticamente para expresar el receptor de antígeno quimérico (CAR, del inglés "chimeric antigen receptor")** | EP23382478 | FIBHGM | Marjorie Pion, Rafael Correa Rocha, Jorge Gallego Valle |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

## *Cooperative Research Structures*

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| Other | Canadian Donation and Transplantation Program | Collaborating group | CDTRP |
| Other | ERN TRANSPLANT-CHILD | Collaborating group | |
| RICORS | Red Española de Terapias Avanzadas | Collaborating group | TERAV+ |

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Cózar Fernández, Beatriz* | *Allogeneic use of thymus-derived regulatory T cells (thyTreg) as cell therapy in immune system disorders* | *Correa Rocha, Rafael; Martínez Bonet, Marta* | *UAM* | *17/07/2025* |

## *Publications* *Total Impact Factor: **48,2***

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 14.3 |
| Joint publications | 5 | 33.9 |
| First decile publications | 3 | 22.5 |
| First quartile publications | 8 | 48.2 |
| Second quartile publications | 0 | 0 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **9** | **48.2** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Gomez-Llobell, M; Smith, CS; Gómez-Costas, D; Gómez-Centurión, I; Domínguez, JMG; Escudero-Vilaplana, V; Bullido, YF; Carbonell, D; Pion, M; Bailén, R; Gil-Perotin, S; Ginés, MLM; Revuelta-Herrero, JL; Fernández-Caldas, P; Fernández, VAP; Collado-Borrell, R; Bastos-Oreiro, M; Villanueva-Bueno, C; García-Sanz, R; Kwon, M. *ICANS risk model in CD19 CAR-T therapy: insights from serum and CSF cytokine profiling*. BONE MARROW TRANSPLANTATION. 2025. IF: 5.1. Quartile: 1. (Article).

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- Zapata-Cobo, P; Salvador-Martín, S; Gil-Manso, S; Rodríguez-Belvís, MV; Palomino, LM; Moreno-alvarez, A; Pérez-Moneo, B; García-Romero, R; Fobelo, MJ; García-Tirado, D; Sánchez, C; Pujol-Muncunill, G; Segarra, O; Montraveta, M; Magallares, L; Correa-Rocha, R; Sanjurjo-Sáez, M; Pion, M; López-Fernández, LA. *Changes in T Lymphocytes and Cytokines After Anti-TNF Treatment in Pediatric Inflammatory Bowel Disease: Association with Response to Pharmacologic Therapy*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2025; 26(7). IF: 5.6. Quartile: 1. (Article).

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# *5.07 Infections in paediatric population*

Group Director: **María Luisa Navarro Gómez**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

The paediatric infections research group has participated in the IISGM since its creation and is consolidated within it. The group is made up of healthcare professionals with extensive experience in clinical and translational research, from various paediatric disciplines and subspecialties, and aims to promote and develop research projects in the field of paediatric diseases. The main lines of research are:

- Bronchiolitis
- HIV infection
- Tuberculosis
- Osteoarticular infection
- Invasive Streptococcus group A infection
- Fever and neutropenia in paediatric patients
- Infections in the sickle cell patient
- Infection prevention research in the complex paediatric patient
- Congenital infections
- Invasive fungal infection.
- Research plan in other infectious pathologies prevalent in the healthy population and in the highly complex patient.
- Zero pain in paediatrics: pharmacological and non-pharmacological pain control.
- Analysis of readmissions in paediatrics
- Severity factors in asthma
- High-flow oxygen therapy in paediatric wards
- Safety and quality in paediatric hospitalisation
- The chronic patient in paediatric hospitalisation
- Fluid therapy in paediatric hospitalisation
- Environmental Paediatrics: Impact of pollutants on respiratory pathology
- Severity factors in influenza

- Implementation of paediatric telemedicine consultation in Africa
- COVID-19 in paediatrics. COVID-19 perinatal infection (GESNEO-COVID).
- Immunoprophylaxis in immunocompromised patients
- Vaccination of special populations (immunosuppressed and immunosuppressive patients).
- Fungal infections in paediatrics
- Resistance study and paediatric PROA
- Feverish infants
- Intoxications in the paediatric age group
- Analgesia and sedation
- Unintentional injuries
- Quality and safety in the paediatric ED
- Hyperfrequency in the Paediatric Emergency Department
- Knowledge of parents and caregivers about the reasons for consultation in the Emergency Department.
- Critical patient

In addition, we are very aware of the training in the field of paediatric infectious diseases of the junior researchers who are joining us, where they play an important role in research and many of them end up carrying out translational research activity and culminating in doctoral theses.

The networking and collaborations with other research groups, both national and international, stand out. In addition, the group is committed to cooperation by training professionals from Africa and Latin America, supporting them in their clinical and translational research activity in person and through telemedicine and other information techniques.

## *Research lines*

**Axis 1: Bronchiolitis**

L1: Description of early markers of severity in RSV bronchiolitis: IL-8 in respiratory secretions and plasma during patient admission and its predictive value of severity. Viral load in patients with RSV bronchiolitis and its predictive value for severity will be determined. Lymphopenia will be assessed as an early marker of severity during the admission of infants with RSV bronchiolitis. Does the severity of RSV bronchiolitis depend on viral genotypes?

L2: RSV bronchiolitis. Humoral immune response to RSV. Determination of antibodies against RSV surface proteins F and G and their role in the development of RSV vaccines. Study of humoral immunity against RSV preF postF and G proteins in term and preterm infants.

L3: Bronchiolitis due to RSV. 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 one month and one year after discharge. Description of a cytokine profile to predict the development of recurrent wheezing after bronchiolitis.

L4: Treatment of bronchiolitis in the admitted patient. High-flow oxygen therapy in the treatment of bronchiolitis: what is the ideal flow rate? Hypertonic saline in the treatment of bronchiolitis: Is it suitable for all inpatients?

L5: Impact on families of admission for RSV bronchiolitis. European RSV outcome study. EROS study. ab 140103

L6: Evaluation of the antiviral efficacy of Lumicitabine in children with respiratory infection by respiratory syncytial virus.

L7: Needs for future pharmacoeconomic analysis of RSV vaccines: Assessing the burden of paediatric RSV disease and QALYs lost (Phase I: prospective study).

**Axis 2: HIV infection**

L1: Study the clinical characteristics, immunovirological status and associated comorbidities including features related to bone metabolism, cardiovascular system and lipodystrophy, as well as antiretroviral treatment strategies in CoRISpe patients (newly infected infants, adolescents and young adults).

L2: Determine the HIV reservoir and inflammatory and immunosenescence status and immune function of paediatric patients including gut microbiota and response to vaccines.

L3: Assess the current status and evolution of all paediatric HCV-HIV co-infected patients. Liver function status and response to treatment. Compare with a cohort of HCV monoinfected paediatric patients.

L4: CoRISpe FARO project: Evaluate vertically infected adolescents and young adults who have been transferred to adult units, and identify factors associated with loss to follow-up, morbidity and mortality.

Assess stigma, quality of life, substance abuse and sexual and reproductive health in these patients, compared to other populations (controls and a horizontal cohort).

L5: Assess the evolution of neuroimaging and neurocognitive profile and outcomes of vertically HIV-infected patients. To assess sleep quality in this population.

L6: To analyse the clinical, immunological, virological and treatment characteristics of pregnant women with HIV during pregnancy and at the time of delivery and of their exposed children, the development of perinatal comorbidities of HIV exposed uninfected children and the epidemiological characteristics of recently diagnosed paediatric patients.

L7: Describe the characteristics of new HIV infections in adolescents in Spain. FIS Project

L8: Describe and compare the characteristics of different populations, mainly located in developing countries. Participation with information on other cohorts in different countries. To evaluate the virological parameters of HIV in terms of its genotype and subtypes and resistance to antiretroviral drugs, to analyse and compare between cohorts and the time trends in each of them. The Equatorial Guinea cohort. The European cohort. The Latin American cohort.

L9: Activation and immunosenescence during immune maturation in vertically HIV-infected children.

L10: NeuroHIV study (Neurocognitive and central nervous system senescence in HIV patients).

**Axis 3: Tuberculosis**

L1: Determination of the plasma free cytokine profile and specific response to M. tuberculosis. Usefulness as biomarkers in children with active disease and latent tuberculous infection.

L2: To determine the usefulness of diagnostic tests (tuberculin test, quantiferon, chest X-ray, chest CT scan, microscopy, culture, PCR) in an outbreak of paediatric tuberculosis in an early childhood education centre.

L3: Describe the pharmacokinetics (C max, area under the curve, time to maximum concentration) after administration of isoniazid (single daily oral dose of 10 mg/kg body weight) in the study population, and its equivalence in neonates, infants between 1 and 3 months, and infants between 3 and 6 months.

L4: Register paediatric TB cases in our country and describe their clinical presentation, diagnosis, therapeutic approach and evolution of paediatric TB cases in the hospitals of the Spanish Network for the Study of Paediatric Tuberculosis.

L5: To create a national collection of samples from paediatric tuberculosis patients, archived as a biobank.

L6: To learn about antituberculosis drug prescription practices in children in Spain (Phase I MAGISTRAL Project) and to write a consensus document on the prescription of antituberculosis drugs in children (Phase II MAGISTRAL Project).

L7: To determine the combined sensitivity and specificity of the tuberculin test and IGRA tests in the diagnosis of peripheral adenitis due to nontuberculous mycobacteria in Spain and Europe.

L8: Compare the efficacy of different therapeutic approaches (medical and surgical) to nontuberculous mycobacterial peripheral adenitis in children.

L9: To evaluate the efficacy and safety of linezolid therapy against tuberculosis in patients under 18 years of age.

L10: To evaluate the risk factors, contagiousness and evolution after treatment of adult-type pulmonary TB in a cohort of children and adolescents with TB in a low endemic country.

L11: Develop a European database of children with paediatric TB to describe their clinical presentation, diagnosis, therapeutic approach and evolution, as well as the different diagnostic and therapeutic approaches among European countries.

L12: Describe the clinical presentation, diagnosis, therapeutic approach and evolution of TB meningitis in European children.

L13: ULTRATB-Xpert MTB/RIF Ultra for the diagnosis of paediatric TB in a low TB burden region.

L14: Implementation of a computer-assisted tool for the diagnosis of paediatric TB (CAD4PTB)

**Axis 4: Osteoarticular infection in paediatrics**

L1: Epidemiological, clinical, laboratory and clinical features and evolution of children with OAI.

L2: Most frequent aetiology of OAI in children and its impact on clinical presentation and evolution.

L3: Evaluation of the diagnostic and medical-surgical approach to children with OAI in the different collaborating centres.

L4: Study of predictors of severity and sequelae in children with OAI.

**Axis 5: Invasive group A Streptococcus infection**

L1: Evaluation of the incidence of EISGA over a period of 11 years in the Community of Madrid.

L2: Epidemiological, clinical and laboratory characteristics and evolution of children with AGEIA.

L3: Study of predictors of severity in children with AGEIA.

L4: Study of the clinical presentation and evolution of children with AGE according to the serotypes involved.

**Axis 6: Fever and neutropenia in the paediatric patient**

L1: Clinical and laboratory characteristics and evolution of children admitted with fever and neutropenia.

L2: Epidemiological characteristics and aetiological agents of children admitted with fever and neutropenia, and comparison with asymptomatic controls. Determination of viral PCR in nasopharyngeal samples.

L3: Study of predictors of severity in children admitted with fever and neutropenia. Cytokine profile and proinflammatory response.

**Axis 7: Infections in the sickle cell patient**

L1: RETROSPECTIVE STUDY (RETRO-DREP PROJECT): a. To determine the incidence and epidemiological characteristics of infections in children with sickle cell disease in our environment, b. To determine the clinical characteristics and analytical parameters that are related to a higher risk of presenting severe bacterial infection, c. To propose criteria for low risk of severe bacterial infection, in order to select patients who could benefit from a more conservative approach.

L2: PROSPECTIVE STUDY (F-DREP PROJECT): a. To determine the incidence of viral infections in children with sickle cell disease admitted for fever in our environment, by means of multiplex PCR in nasopharyngeal exudate, b. To determine the profile of cystic fibrosis production in children with sickle cell disease in our environment. To determine the proinflammatory cytokine production profile of children with sickle cell disease according to the final diagnosis (bacterial or viral infection, vasoocclusive crisis or other) and compare it with its production at baseline, c. To validate the criteria for low risk of severe bacterial infection set out in the retrospective study.

L3: Study of biomarkers of risk of severe bacterial infection in children with sickle cell disease and fever. Determination of the proinflammatory cytokine profile and role of multiplex PCR for respiratory viruses.

**Axis 8: Immunoprophylaxis in special populations**

L1: Vaccination in patients undergoing immunosuppressive treatment.

L2: Vaccination in patients undergoing HSCT (haematopoietic progenitor transplantation).

L3: Vaccination in patients undergoing SOT (solid organ transplantation).

**Axis 9: Research Plan on other infectious pathologies prevalent in the healthy population and in the highly complex patient.**

L1: Study of invasive pneumococcal infection

L2: Role of respiratory viral co-infections and the expression of genomic transcriptional profiles in the severity of pertussis in infants.

L3: Congenital CMV infection

L4: ZIKA infection network in pregnancy and newborns

L5: Paediatric Optimisation Programme for Antifungal Drugs (POPA)

L6: National Kawasaki Network (Kawa-RACE)

L7: Control of nosocomial infection and restriction of the use of antibiotherapy in paediatrics. RANNIN-KIDS.

L8: Infections by non-tuberculous mycobacteria (NTM) in Spain: clinical-epidemiological, microbiological and pathogenicity study.

L9: Infections after cardiac surgery

L10: Study of colonisations by multi-resistant bacteria and their effect on the development of infections and new colonisations in high-risk paediatric units.

L11: SOMI study for the prospective evaluation of mononucleosis syndrome.

L12: Study of sexually transmitted infections in adolescents.

**Axis 10: Other lines**

L1: Zero Pain in Paediatrics

L2: Analysis of readmissions in paediatrics.

L3: Severity factors in Asthma. Asthma and obesity

L4: Implementation of a Paediatric Telemedicine consultation in Lamu (Kenya) and Meki (Ethiopia)

**Axis 11: Infection COVID19 (2020)**

L1: Study of the pregnant woman and her exposed newborn

L2: Study of the child with COVID

L3: Study of the child with systemic hyperinflammatory syndrome (PIMS)

**Axis 12: Hospital Emergencies**

L1: Intoxications in the paediatric age group

L2: Analgesia and sedation
L3: Unintentional injuries
L4: Quality and safety in paediatric emergencies
L5: Hyperfrequency in Paediatric Emergency Care
L6: Knowledge of parents and caregivers about the reasons for ED visits
L7: Critically ill patients
L8: Child abuse
L9: Intravenous rehydration
L10: Humanisation and patient experience

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUILERA | ALONSO | DAVID | Male | R2 | Recognised Researcher |
| AMOROS | VILLAVERDE | SOLEDAD | Female | R1 | First Stage Researcher |
| ANGULO | CHACON | ANA MARIA | Female | R1 | First Stage Researcher |
| BADILLO | NAVARRO | KATIE LUCIA | Female | R3 | Established Researcher |
| BUSQUETS | FERRER | CARMEN | Female | R1 | First Stage Researcher |
| DE LA SEN | DE LA CRUZ | LAURA | Female | R1 | First Stage Researcher |
| EIZAGUIRRE | FERNANDEZ-PALACIOS | MARIA TERESA | Female | R1 | First Stage Researcher |
| ESCOBAR | CASTELLANOS | MARÍA | Female | R1 | First Stage Researcher |
| FERNANDEZ | GONZALEZ | ALICIA | Female | R1 | First Stage Researcher |
| FERRERO | GARCÍA-LOYGORRI | CLARA | Female | R1 | First Stage Researcher |
| GARCÍA DE OTEYZA | GARCÍA | MARÍA | Female | R1 | First Stage Researcher |
| GONZALEZ | MARTINEZ | FELIPE | Male | R2 | Recognised Researcher |
| GONZALEZ | SANCHEZ | MARIA ISABEL | Female | R1 | First Stage Researcher |
| GUIDA | PIQUERAS | MERCEDES | Female | R1 | First Stage Researcher |
| JORDAN | FERRAZ | CRISTINA EUGENIA | Female | R1 | First Stage Researcher |
| JOVE | BLANCO | ANA | Female | R1 | First Stage Researcher |
| LAZARO | MARTIN | BEATRIZ | Female | R1 | First Stage Researcher |
| LOPEZ | LLARIA | MARTA | Female | R1 | First Stage Researcher |
| LOPEZ | SUAREZ | ANDREA | Female | R1 | First Stage Researcher |
| MARAÑÓN | PARDILLO | RAFAEL | Male | R1 | First Stage Researcher |
| MIGUEZ | NAVARRO | MARIA CONCEPCION | Female | R3 | Established Researcher |
| MORENO | LOPEZ | RAQUEL | Female | R1 | First Stage Researcher |
| MOURE | ROMANO | ROBERTO | Male | R1 | First Stage Researcher |
| NAVARRO | GÓMEZ | MARÍA LUISA | Female | R4 | Leading Researcher |
| PEDRUELO | REYES | NURIA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| PINTO | RUBIO | MARTA | Female | R1 | First Stage Researcher |
| RETAMAL | MARTINEZ | ROCIO | Female | R1 | First Stage Researcher |
| RINCON | LOPEZ | ELENA | Female | R1 | First Stage Researcher |
| RIVAS | GARCÍA | ARISTIDES | Male | R2 | Recognised Researcher |
| RODRIGUEZ | FERNANDEZ | ROSA MARIA | Female | R3 | Established Researcher |
| SAAVEDRA | LOZANO | JESÚS | Male | R3 | Established Researcher |
| SANCHEZ | CONTRERAS | NURIA | Female | R1 | First Stage Researcher |
| SANTIAGO | GARCÍA | BEGOÑA | Female | R3 | Established Researcher |
| SANTOS | SEBASTIAN | MAR | Female | R1 | First Stage Researcher |
| TABOADA | FERRER | ELENA | Female | R1 | First Stage Researcher |
| TARANCON | DIEZ | LAURA | Female | R2 | Recognised Researcher |
| TIERRASECA | SERRANO | MARIA ESTHER | Female | R1 | First Stage Researcher |
| TOLEDO | DEL CASTILLO | BLANCA | Female | R1 | First Stage Researcher |
| VÁZQUEZ | LÓPEZ | PAULA | Female | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | 2 | | | |
| **National** | 4 | | 3 | |
| **Regional** | | | | |

TITLE: **HE VERDI 101045989 SARS-coV2 variants Evaluation in pRegnancy and paeDIatrics cohorts** (HE VERDI 101045989)
DIRECTOR: AGUILERA ALONSO, DAVID
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/11/2021
END DATE: 31/10/2025

TITLE: **ESPID Small Grant Award: "The role of iron deficiency in the vaccine immune response of paediatric patients on immunosuppressive treatment (IronVac project)"** (ESPID23/01)
DIRECTOR: TARANCON DIEZ, LAURA
PROJECT TYPE: European research project
FUNDING BODY: ESPID
START DATE: 09/10/2023
END DATE:

TITLE: **TB STARS - Vigilancia de la Transmisión mediante Secuenciación y Vigilancia Activa Refinada** (PI23/01700)

DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Infeccion por VRS y desarrollo de sibilancias persistentes: una cohorte de nacimiento. (Marañón RSV Birth cohort; MARCO Study** (PI21/00840)
DIRECTOR: RODRIGUEZ FERNANDEZ, ROSA MARIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Child-TB-Omics: APLICACIÓN DE TÉCNICAS ÓMICAS PARA EL DIAGNÓSTICO DE TUBERCULOSIS EN NIÑOS Y ADOLESCENTES** (PI20/01607)
DIRECTOR: SANTIAGO GARCÍA, BEGOÑA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **IronHIV Study: Role of iron metabolism in chronic HIV infection in patients under suppressive antiretroviral treatment. Implications for immunological alterations and persistent inflammation** (GLD24/00119)
DIRECTOR: TARANCON DIEZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: GILEAD SCIENCE, S.L.U.
START DATE: 24/02/2025
END DATE: 23/02/2027

TITLE: **Miguel Servet contracts** CP23/00009
DIRECTOR: Laura Tarancón Díez
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2024
END DATE: 31/12/2028

TITLE: **Juan Rodés contracts** JR24/00062
DIRECTOR: David Aguilera Alonso
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/03/2025
END DATE: 30/03/2029

TITLE: **Predoctoral contracts (PFIS)** FI24/00161
DIRECTOR: (Marta López Llaría)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 13/01/2025
END DATE: 28/02/2028

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **App para la clasificación de la etiología de la Gastroenteritis Aguda (GEA) en pacientes pediátricos** | M-005349/2023 | FIBHGM, UPM | Rosa Rodríguez Fernández, Felipe González Martínez, Carolina Silvia García Martos, José Manuel Mira McWilliams, Gonzalo Aris Jiménez |

Transfered Intelectual Property 31/12/2025

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| CIBER | Centro de Investigación Biomédica en Red de Enfermedades Infecciosas | Collaborating group | CIBERINFEC |
| Other | Red Española de Estudio de la Tuberculosis Pediátrica | Coordinating group | pTBred |
| Other | Grupo de Estudio de tuberculosis resistente en niños de la Comunidad de Madrid | Coordinating group | EREMITA |
| Other | Estudio sobre la influencia genética en la enfermedad meningocócica | Collaborating group | ESIGEM |
| Other | Red de la Infección Congénita por CMV | Collaborating group | REDICCMV |
| Other | Red para el estudio de la enfermedad invasiva por SGA | Collaborating group | PeiSGA |
| Other | Red Nacional de Infección Osteoarticular en niños | Collaborating group | RioPed |
| Other | Red nacional de Kawasaki | Collaborating group | KawaRACE |
| Other | Red Nacional para el Diagnóstico, Tipificación Genética y Actuaciones Terapeúticas de la giardiasis infantil | Collaborating group | RedGIp |
| Other | Red de Investigación Traslacional en Infectología Pediátrica | Collaborating group | RITIP |
| Other | Registro nacional de estudio de casos de infección por ZIKA en el embarazo y recién nacido | Collaborating group | pedZIKA |
| Other | Red de Investigación de la Sociedad española de Urgencias de Pediatría | Collaborating group | RISeuP |
| Other | Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños | Collaborating group | PLANTAIDS |
| Other | Pediatric European Network for Treatment of AIDS | Collaborating group | PENTA |
| Other | Estudio epidemiológico de las infecciones pediátricas por el nuevo coronavirus SARS-CoV-2 | Collaborating group | EPICO-AEP |
| Other | Red Europea de Investigación en RSV | Collaborating group | ResVinet |
| Other | Red Estatal de Investigación en Toxoplasmosis Congénita | Collaborating group | REIV-TOXO |
| Other | Pediatric Tuberculosis Network European Trials group | Coordinating group | PTBNET |
| Other | Paediatric invasive S. aureus study | Collaborating group | PISA |
| Other | Sickle cell disease Pediatric Research about Infections Group | Collaborating group | SPRING |

| | | | |
|---|---|---|---|
| Other | MultiCenter modified point prevALence studY of antifungal use in PediatricS in EurOpe | Collaborating group | CALYPSO |
| Platform | Plataforma europea para el estudio e implementación de grupos PROA en las diferentes instituciones europeas | Collaborating group | Ranin-Kids |
| Platform | European Pregnancy an Pediatric HIV Cohorts Coollaboration | Collaborating group | EPPICC |
| Other | Cohorte Nacional de Pacientes Pediátricos con Infección VIH | Coordinating group | CoRISpe |
| Other | Red Española de Ensayos Clínicos Pediatricos | Collaborating group | RECLIP |

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| *Ph Thesis* | *Berzosa Sánchez, Arantxa* | *Evolution of clinical, epidemiological and therapeutic characteristics in the cohort of children and adolescents with hiv infection in spain* | *Ramos, José Tomás; Guillén, Sara; Navarro, Marisa* | *UCM* | *21/10/2025* |

## *Publications* *Total Impact Factor: **162,5***

| | Nº | IF |
|---|---|---|
| Own publications | 19 | 54.9 |
| Joint publications | 21 | 107.6 |
| First decile publications | 5 | 63.8 |
| First quartile publications | 19 | 117.9 |
| Second quartile publications | 13 | 31.4 |
| Third quartile publications | 8 | 13.2 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 5 | - |
| **Total publications (including those without IF)** | **45** | **162.5** |

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

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# AREA 6 TRASLATIONAL ONCOLOGY

Area Coordinators: **Francisco Ayala de la Peña y Ramón García Sanz**

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: **Ana Álvarez González and Mercedes Muñoz Fernández**

Organisms involved: **HGUGM-UCM**

**Consolidated Group**

## *Research 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* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALONSO | FARTO | JUAN CARLOS | Male | R2 | Recognised Researcher |
| ÁLVAREZ | GONZÁLEZ | ANA | Female | | Sin Definir |
| AYALA | LAZARO | RAFAEL | Male | R1 | First Stage Researcher |
| CALÍN | LORCA | ANA | Female | | Sin Definir |
| CALVO | MANUEL | FELIPE ÁNGEL | Male | | Sin Definir |
| CASCON | PEREZ-TEIJON | MARIA ELENA | Female | | Sin Definir |
| CUERVO | DEHESA | MIGUEL | Male | | Sin Definir |
| DEL VALLE | HERNÁNDEZ | EMILIO | Male | | Sin Definir |
| FIGAL | VICENTE | ELENA | Female | | Sin Definir |
| GARCIA | HERNANDEZ | MARÍA JESÚS | Female | | Sin Definir |
| GOMEZ | CORES | SUSANA | Female | | Sin Definir |
| GONZÁLEZ | SAN SEGUNDO | CARMEN | Female | | Sin Definir |
| LEAMAN | ALCIBAR | OLWEN ERIETE | Female | | Sin Definir |
| LOZANO | BARRIUSO | MIGUEL ÁNGEL | Male | | Sin Definir |
| MEDIAVILLA | SANTOS | LYDIA | Female | R2 | Recognised Researcher |
| MORENO | DOMENE | MARIA MERCEDES | Female | | Sin Definir |
| MUÑOZ | FERNANDEZ | MERCEDES | Female | | Sin Definir |
| ORCAJO | RINCÓN | JAVIER | Male | | Sin Definir |
| ORTIZ | QUINTANA | LUIS | Male | | Sin Definir |
| PELIGROS | GÓMEZ | MARÍA ISABEL | Female | | Sin Definir |
| PRIETO | RODRIGUEZ | MARIA JESUS | Female | | Sin Definir |
| RAMON | BOTELLA | ENRIQUE | Male | | Sin Definir |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| RODRÍGUEZ | MARTÍN | MARCOS | Male | | Sin Definir |
| ROTGER | REGI | AMANDA | Female | | Sin Definir |
| RUIZ | GALAN | GEMA | Female | | Sin Definir |
| SANCHEZ | LUIS | SILVIA MARIA | Female | | Sin Definir |
| SANTOS | RODRIGUEZ | MARINA | Female | | Sin Definir |
| SIERRA | DIAZ | FERNANDO | Male | | Sin Definir |
| TAVERA | POMATA | PATRICIA | Female | | Sin Definir |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | **1** | | | |
| **National** | **2** | | | |
| **Regional** | | | | |

TITLE: **Theranostics Ecosystem for Personalised Care (Thera4Care)** (HE Thera4Care 101172788)
DIRECTOR: ALONSO FARTO, JUAN CARLOS
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/10/2024
END DATE: 30/09/2029

TITLE: **Elaboración de una curva de calibración dosis-efecto para protones, su validación en pacientes de radioterapia y actualización de la curva de neutrones** (CSN24/01)
DIRECTOR: PRIETO RODRIGUEZ, MARIA JESUS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJO DE SEGURIDAD NUCLEAR
START DATE: 05/12/2024
END DATE: 04/12/2027

TITLE: **Elaboración de un protocolo nacional en dosimetría biológica (PRONADB)** (2023-094-1_CSN_MONTORO)
DIRECTOR: PRIETO RODRIGUEZ, MARIA JESUS
PROJECT TYPE: Research project
FUNDING BODY: CONSEJO DE SEGURIDAD NUCLEAR
START DATE: 16/05/2023
END DATE: 28/12/2026

## *Publications* *Total Impact Factor: **85,4***

| | Nº | IF |
|---|---|---|
| Own publications | 4 | 7.2 |
| Joint publications | 12 | 78.2 |

| | | |
|---|---|---|
| First decile publications | 3 | 42 |
| First quartile publications | 5 | 52.5 |
| Second quartile publications | 6 | 25 |
| Third quartile publications | 4 | 6.7 |
| Fourth quartile publications | 1 | 1.2 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **20** | **85.4** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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- Fernández-Fernández, T; Orozco-Martínez, J; de Gregorio-Bermejo, C; Aguilera-Jiménez, E; Iribar-Zabala, A; Mediavilla-Santos, L; Pascau, J; García-Sevilla, M; Pérez-Mañanes, R; Calvo-Haro, JA. *Feasibility and Accuracy of a Dual-Function AR-Guided System for PSI Positioning and Osteotomy Execution in Pelvic Tumour Surgery: A Cadaveric Study*. BIOENGINEERING-BASEL. 2025; 12(8). IF: 4.4. Quartile: 2. (Article).

- Orgaz, JAR; Altamarina, EC; Cisterne, C; García, EG; Pardo, MD; Lopez, LV; Laso, CA; Martínez, DF; Alonso, LG; Florez, LG; Castro, PG; Lorenzo, IH; García, JIR; Alvarez, AS; Alonso, NT; García-Olmo, D; Hernández-Villafranca, S; Jiménez, F; Cavero, A; Portugal, V; Caballero, EH; Domenech, MA; Gomez, LMJ; Gomez, IP; Ortúzar, JZ; Balaguer, F; Daca-Alvarez, M; Ocaña, T; Castillo, J; Cuatrecasas, M; Carballal, S; Kumari, H; Moreira, L; Moreno, L; Pellisé, M; Sánchez, A; Toscano, MJ; Coma, MI; de Molina, AR; Colmenarejo, G; Espinosa-Salinas, I; Fernández, LP; de Cedron, MG; Perea, J; García, JL; González-Sarmiento, R; Herrero, AB; Pérez, J; Alvaro, E; Barambio, J; Brandariz, L; Burdaspal, A; de Fuenmayor, ML; Rojo, IL; Pastor, C; Alvarellos, A; Arredondo, J; Matos, I; Rodríguez, J; Muñoz, PM; Candela, AF; Pérez, AB; Trill, JD; Cebrian, JMF; Jiménez, JO; Juez, LD; Carlos, GSS; Dziakova, J; Marín, SP; Lopez, RS; Solís, MS; Alcazar, JA; Tocino, RV; Antona, FB; Guarner, P; Sánchez, MCM; Malats, N; Estudillo, L; Gallostra, MM; García-Rodríguez, A; Kraft, M; Marinello, F; Viyuela, C; Valverde, I; Prosperi, A. *Multiple primary tumours in early-onset colorectal cancer: deciphering the risk*. BJS-BRITISH JOURNAL OF SURGERY. 2025; 112(12). IF: 9.4. Quartile: 1. (Article).

- Fernández-Fernández, T; Orozco-Martínez, J; Iribar-Zabala, A; Jiménez, EA; de Gregorio-Bermejo, C; Mediavilla-Santos, L; Pascau, J; García-Sevilla, M; Pérez-Mananes, R; Calvo-Haro, JA. *Augmented Reality-Assisted Placement of Surgical Guides and Osteotomy Execution for Pelvic Tumour Resections: A Pre-Clinical Feasibility Study Using 3D-Printed Models*. CANCERS. 2025; 17(13). IF: 4.8. Quartile: 2. (Article).

- Rosa, AA; Carolina, AP; Marta, AV; Francisco, A; Adriana, FG; Natalia, G; Pablo, LL; Cristina, MF; Lidia, MS; Ulrike, N; Marina, S; Guillermo, HT; Henar, CG; Ana, GOD. *Desmoid Tumors-Experience from a Referral Center, Part 1: Multidisciplinary Review and Practical Recommendations*. CANCERS. 2025; 17(21). IF: 4.8. Quartile: 2. (Review).

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# *6.02 Translational medical oncology and personalized cancer therapy*

Group Director: **Miguel Martín Jiménez**
Organisms involved: **HGUGM**
**Consolidated Group**

## *Description of the research group*

The general objective of research in the Oncology Area is to generate reliable and scientifically relevant information on individualised cancer treatment through translational research, enabling the selection of anti-tumour treatment that provides more curative options and fewer side effects for each patient.
The selection of therapy will be based essentially on the genetic/molecular profile of the patient and the tumour. The proper identification of cancer patients who are candidates for sophisticated antitumour therapies (targeted medical treatments, high-definition radiotherapy, cell therapy, haematopoietic stem cell transplantation) available at our centre will allow the most suitable choice for each patient.
In addition, the Area will study hereditary-familial cancer syndromes and other situations of high risk of cancer development, in which various interventions can be very effective in reducing the likelihood of the disease occurring.

## *Research lines*

**Axis 1: Internationalisation, cooperation and visibility**
- L1: Value of liquid biopsy as a predictor of response in cancer patients.
- L2: Search for predictors of response to neoadjuvant chemotherapy with docetaxel carboplatin in patients with triple-negative breast cancer
- L3: Development of preclinical models and PDXs
- L4: Development of organoids

**Axis 2: Management and infrastructure**
- L1: Digital PCR for mutation analysis from liquid biopsies
- L2: Development of new technologies with an impact on cancer patients (FAITH)
- L3: Quality Management and Humanisation of Oncology
- L4: Cancer Genetic Counselling

**Axis 3: Translational research and society**
- L1: Search for genomic profiles as predictors of response in cancer patients
- L2: Integration of physical exercise in breast cancer patients
- L3: Student training

**Axis 4: Innovation**
- L1: Design and implementation of a ddPCR-based platform for the detection of mutations in ESR1 in cancer patients
- L2: Immunotherapy for cancer
- L3: Innovation in the treatment of colorectal cancer
- L4: Innovation in the treatment of gastric cancer
- L5: Innovation in the treatment of pancreatic cancer
- L6: Innovation in the treatment of lung cancer
- L7: Innovation in the treatment of genitourinary tumours
- L8: Innovation in the systemic treatment of brain tumours
- L9: Innovation in the systemic treatment of melanoma
- L10: Innovation in the treatment of breast cancer

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUILAR | CABALLERO | IKER | Male | Sin Definir | |
| ALVAREZ | ALVAREZ | ROSA MARIA | Female | R3 | Established Researcher |
| APARICIO | SALCEDO | INMACULADA | Female | R1 | First Stage Researcher |
| ARIANT | CAÑETE | MARC | Male | Sin Definir | |
| ARIAS | GARCIA | AINHOA | Female | Sin Definir | |
| ARRANZ | ARIJA | JOSE ÁNGEL | Male | R3 | Established Researcher |
| ARREGUI | VALLES | MARTA | Female | R1 | First Stage Researcher |
| AYALA | DE LA PEÑA | FRANCISCO | Male | R4 | Leading Researcher |
| AYLLON | GARCIA | CAROLINA | Female | Sin Definir | |
| BENAVENTE | DE LUCAS | MÓNICA | Female | Sin Definir | |
| BRINGAS | BERANEK | MARIANELA | Female | R2 | Recognised Researcher |
| BUENO | ZAMORA | OSCAR | Male | Sin Definir | |
| CALLES | BLANCO | ANTONIO | Male | R3 | Established Researcher |
| CALVO | FERRÁNDIZ | PILAR AITANA | Female | R3 | Established Researcher |
| CANTERO | MARTIN | MARTA | Female | Sin Definir | |
| CEBOLLERO | PRESMANES | MARÍA | Female | Sin Definir | |
| COBOS | LAMA | CARMEN | Female | Sin Definir | |
| CUBERO | PEREZ | MARIA ANTONIA | Female | Sin Definir | |
| DE TOMÁS | PALACIOS | JORGE | Male | Sin Definir | |
| DEL MONTE | MILLAN | MARIA | Female | Sin Definir | |
| ECHAVARRÍA | DÍAZ-GUARDAMINO | ISABEL | Female | R3 | Established Researcher |
| ESCOBAR | ALVAREZ | YOLANDA | Female | R3 | Established Researcher |
| ESTEBAN | ARRANZ | MAGDALENA | Female | Sin Definir | |
| FERNANDEZ | GONZALEZ | SARA | Female | Sin Definir | |
| FLOREZ | PEÑASCO | SANDRA | Female | Sin Definir | |
| GARCIA | ADRIAN | SILVIA | Female | R3 | Established Researcher |
| GARCIA | ALFONSO | MARIA PILAR | Female | R3 | Established Researcher |
| GARCIA | LABORDA | ELSA | Female | Sin Definir | |
| GONZALEZ | CARABALLO | IRENE | Female | Sin Definir | |
| GONZALEZ | PALMA | MARIA | Female | Sin Definir | |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| GONZALEZ DEL VAL | SUBIRATS | RICARDO | Male | R3 | Established Researcher |
| GUTIERREZ | ALONSO | NATALIA | Female | R1 | First Stage Researcher |
| HERNANDEZ | TORRADO | GUILLERMO | Male | Sin Definir | |
| JARA | MARTIN | PABLO | Male | R1 | First Stage Researcher |
| JEREZ | GILARRANZ | YOLANDA | Female | R3 | Established Researcher |
| JIMENEZ | ALDUAN | NELIA | Female | R2 | Recognised Researcher |
| JIMENEZ | RODRIGUEZ | ROBERTO | Male | Sin Definir | |
| LOPEZ | JUAREZ | ESTELA | Female | Sin Definir | |
| LOPEZ | LOPEZ | CRISTINA | Female | R3 | Established Researcher |
| LOPEZ | VALLS | MARIA | Female | Sin Definir | |
| LÓPEZ-TARRUELLA | COBO | SARA | Female | R3 | Established Researcher |
| MARQUEZ | RODAS | IVAN | Male | R3 | Established Researcher |
| MARTIN | JIMENEZ | MIGUEL | Male | R4 | Leading Researcher |
| MARTIN | LOZANO | ROCIO | Female | Sin Definir | |
| MASSARRAH | SANCHEZ | TATIANA | Female | Sin Definir | |
| MUÑOZ | MARTÍN | ANDRES JESUS | Male | R3 | Established Researcher |
| OCAÑA | TORRES | INMACULADA | Female | Sin Definir | |
| OLCOZ | MONREAL | FRANCISCO JAVIER | Male | Sin Definir | |
| ORTEGA | MORAN | LAURA | Female | R1 | First Stage Researcher |
| PALOMERO | PLAZA | MARIA ISABEL | Female | R2 | Recognised Researcher |
| PEREZ | DE LA FUENTE | INES | Female | Sin Definir | |
| PEREZ | RAMIREZ | SARA | Female | R3 | Established Researcher |
| PICORNELL | COMPANY | ANTONIO CLEMENTE | Male | R3 | Established Researcher |
| POLO | VAQUERO | CORAL | Female | R2 | Recognised Researcher |
| PUENTE | VAZQUEZ | BEATRIZ | Female | Sin Definir | |
| RAMIREZ | MERINO | NATALIA | Female | Sin Definir | |
| REVUELTA | GALLEGO | NATALIA | Female | Sin Definir | |
| RINCÓN | OLBÉS | PATRICIA | Female | Sin Definir | |
| SOMOLINOS | HORCAJUELO | SARA | Female | Sin Definir | |
| SOTO | ALSAR | JAVIER | Male | R1 | First Stage Researcher |
| TELLADO | RODRIGUEZ | JOSE MARIA | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| VILLAREJO | LOPEZ | LUCIA | Female | Sin Definir | |
| ÁLVAREZ | CASTILLO | ENRIQUE LUIS | Male | Sin Definir | |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | 3 | | | |
| Regional | | | | |

TITLE: **Development Of Patient-derived organoid PLatforms for Evading Resistances in Lung Cancer (DOPPLER-LC)** (TRNSC259881CALL)
DIRECTOR: CALLES BLANCO, ANTONIO
PROJECT TYPE: European research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/11/2025
END DATE: 31/10/2028

TITLE: **Detección de ctDNA y caracterización de subpoblaciones inmunes circulantes en pacientes con CMTN Tratadas con quimio (inmuno) terapia neoadyuvante** (PI22/01346)
DIRECTOR: LÓPEZ-TARRUELLA COBO, SARA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Small cell lung cancer: from biology networks to tailored therapy** (RETOS245794PAZA)
DIRECTOR: CALLES BLANCO, ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/01/2025
END DATE: 31/12/2029

TITLE: **VII Edición Becas GEM: MIRTILOS: Mejora de la Inducción y Recolecta de TILs de Órgano Sólido** (2025-CCA017)
DIRECTOR: MARQUEZ RODAS, IVAN
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN DEL GRUPO ESPAÑOL MULTIDISCIPLINAR DE MELANOMA (GEM)
START DATE: 02/07/2025
END DATE: 01/07/2027

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Kit de diagnóstico oncológico** | EP3631016 | FIBHGM, IIB Sant Pau | Andrés Múñoz, Eduardo Salas, José Manuel Soria |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **SMART (Syndrome Matching and Asessment of Risk Tool)** | M-008855/2014 | FIBHGM, UNED, URJC | Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo |

Transfered Intelectual Property 31/12/2025

## *Cooperative Research Structures*

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| Other: Researchers association | Alianza de Investigación en Cáncer de Páncreas | Other | ALIPANC |
| Other: Scientific Association | American Society of Clinical Oncology | Other | ASCO |
| Other: Scientific Association | Breast Cancer Internacional Research Group | Other | BCIRG |
| Other: Cooperative Group | Central European Cooperative Oncology Group | Other | CECOG |
| CIBER | CIBERONC | Associated group | CB16/12/00471 |
| Other: Cooperative Group | EBCTCG. Early Breast Cancer Trialist Cooperative Group | Other | EBCTCG |
| Other: Scientific Association | ESMO. European Society for Medical Oncology | Other | ESMO |
| Other: Researchers association | Asociación cáncer colorrectal | Other | EUROPACOLON |
| Other: Scientific Association | Grupo Español de Cancer de mama. | Coordinating group | GEICAM |
| Other: Cooperative Group | Grupo Español de Investigación en Cáncer Ginecológico | Other | GEICO |
| Other: Cooperative Group | Grupo Español de Investigación en NeuroOncología | Other | GEINO |
| Other: Scientific Association | Grupo Español de Investigación en Sarcomas. | Other | GEIS |
| Other: Scientific Association | Grupo Español Multidisciplinar de Melanoma | Other | GEM |
| Other: Scientific Association | Grupo ECO para la calidad en la Oncología | Other | ECO |
| Other: Scientific Association | Sociedad Española de Oncología Médica | Other | SEOM |
| Other: Cooperative Group | Grupo Español de Oncología Genitourinaria. | Other | SOGUG |
| Other: Cooperative Group | Shaping the future of cancer research | Other | SOLTI |
| Other: Scientific Association | Sociedad Oncológica Madrileña | Other | SOMA |
| Other: Scientific Association | Translational Research In Oncology | Coordinating group | TRIO |
| Other: Cooperative Group | Grupo Español de Tratamiento de los Tumores de Cabeza y Cuello | Other | TTCC |
| Other: Scientific Association | Grupo de Tratamiento de los Tumores Digestivos | Other | TTD |
| Other | Asociación Española de Investigación sobre el Cáncer | Other | ASEICA |
| Other | Grupo Español de Pacientes con Cáncer | Other | GEPAC |

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Aguado Orihuela, Gema* | *Evolution of survival in patients with metastatic melanoma before and after the introduction of immunotherapy and targeted therapy at hospital general universitario gregorio marañón* | *Martín Jiménez, Miguel; López Tarruella Cobo, Sara; Márquez Rodas, Iván* | *UCM* | *14/05/2025* |

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Montes AF, Alonso V, Aguilar EA, Élez E, Alfonso PG, Castro CG, Maurel J, García RV, Tocino RV, Urtasun JA | 2025 updated version v1.0 SEOM-GEMCAD-TTD clinical guidelines for the systemic treatment of metastatic colorectal cancer (2022). | **Clin Transl Oncol** 2025 Apr;27(4):1845-1850. doi: 10.1007/s12094-025-03860-x. Epub 2025 Feb 25. PMID: 39998748; PMCID: PMC12000258. |
| Ramírez SP, Fidalgo AP, Ginesta MPB, De Juan Ferré A, Madrid LF, Martínez AG, Montosa FG, Madariaga A, Gómez TM, Gil-Martin M. | SEOM-GEICO clinical guidelines on endometrial cancer (2025) | **Clin Transl Oncol** 2025 Dec;27(12):4368-4380. doi: 10.1007/s12094-025-04046-1. Epub 2025 Sep 23. PMID: 40986254; PMCID: PMC12630260. |
| de la Peña FA, Novoa SA, Gregori JG, Cortijo LG, Carrasco FH, Martínez Martínez MT, Estévez CM, Stradella A, Losada MJV, Ciruelos E. | SEOM-GEICAM-SOLTI clinical guidelines for early-stage breast cancer (UPDATE 2025). | **Clin Transl Oncol** 2026 Jan;28(1):105-125. doi: 10.1007/s12094-025-04139-x. Epub 2025 Nov 29. PMID: 41317270; PMCID: PMC12790541. |
| Garcia-Saenz JA, Lopez-Barajas IB, Echavarria I, Gonzalez CH, Vila MM, Antón FM, Pernas S, Cajal TRY, Ribelles N, Ezquerra MB. | SEOM-GEICAM-SOLTI clinical guidelines in advanced breast cancer (UPDATE 2025) | **Clin Transl Oncol** 2026 Jan;28(1):126-147. doi: 10.1007/s12094-025-04102-w. Epub 2025 Nov 3. PMID: 41182651; PMCID: PMC12790535. |
| Rosa AA, Carolina AP, Marta AV, Francisco A, Adriana FG, Natalia G, Pablo LL, Cristina MF, Lidia MS, Ulrike N, Marina S, Guillermo HT, Henar CG, Ana G-O de la T. | Desmoid Tumors—Experience from a Referral Center, Part 1: Multidisciplinary Review and Practical Recommendations | **Cancers** 2025;17:3470. https://doi.org/10.3390/cancers17213470 |
| Vaz-Salgado MA, Valverde-Morales C, Alvarez R, Asencio JM, Collado E, de Alava E, Diaz Beveridge R, Gómez-Mateo MC, Gracia Alegria I, Marquina G, Martin Broto J, Martínez-Trufero J, Narváez JA, Redondo A, Sebio A, Verges R, Viñals JM, García del Muro X. | Diagnosis and Therapy of Soft Tissue Sarcomas: Spanish Group for Research in Sarcomas (GEIS) Guidelines | **Cancers** 2025;17:3158. https://doi.org/10.3390/cancers17193158 |

## *Publications* *Total Impact Factor: **1611,4***

| | Nº | IF |
|---|---|---|
| Own publications | 37 | 290.9 |
| Joint publications | 72 | 1320.5 |
| First decile publications | 30 | 1235.2 |
| First quartile publications | 53 | 1421.4 |
| Second quartile publications | 34 | 135.2 |

| | | |
|---|---|---|
| Third quartile publications | 19 | 49.7 |
| Fourth quartile publications | 3 | 5.1 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **110** | **1611.4** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Felip, E; Rojas, CI; Schenker, M; Kowalski, DM; Casarini, IA; Csöszi, T; Sendur, MAN; Martins, J; Blanco, AC; Wang, C; Wang, M; Fallas, RALR; Yoshioka, H; Nair, S; Song, X; Deng, X; Lala, M; Eiras, R; Takahashi, T. *Subcutaneous versus intravenous pembrolizumab, in combination with chemotherapy, for treatment of metastatic non-small-cell lung cancer: the phase III 3475A-D77 trial*. ANNALS OF ONCOLOGY. 2025; 36(7) 775-785. IF: 80.4. Quartile: 1. (Article).

- Hortobagyi, GN; Lacko, A; Sohn, J; Cruz, F; Borrego, MR; Manikhas, A; Park, YH; Stroyakovskiy, D; Hurvitz, S; Barrios, C; Untch, M; Moroose, R; Yardley, DA; Visco, F; Chia, S; Huang, CS; Fasching, PA; Parnizari, F; Crown, J; Zarate, JP; Bardia, A; Loi, S; Li, Z; Martin, M; Xu, B; Im, SA; Waters, S; Chakravartty, A; Slamon, D. *A phase III trial of adjuvant ribociclib plus endocrine therapy versus endocrine therapy alone in patients with HR-positive/HER2-negative early breast cancer: final invasive disease-free survival results from the NATALEE trial*. ANNALS OF ONCOLOGY. 2025; 36(2) 149-157. IF: 80.4. Quartile: 1. (Article).

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*<SUP>177</SUP>Lutetium[Lu]-edotreotide versus everolimus in patients with neuroendocrine tumors of the lung and thymus: the LEVEL study (GETNE T-2217)*. BMC CANCER. 2025; 25(1). IF: 4.1. Quartile: 2. (Article).

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***Publications from the WOS Core Collection without Impact Factor:***

- Alonso-Gonzalo, L; Oblitas, CM; Cebollero-Presmanes, M; Vieru, CM; García-Leoni, ME. *Hepatoid adenocarcinoma of the lung: a rare case report*. GALICIA CLINICA. 2025; 86(2) 27-29. (Article).

# *6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell trasplantation*

Group Directors: **José Luis Díez-Martín (until 5-2024) and Ismael Buño Borde and Ramón García Sanz (from 6-2024)**

Organisms involved: **HGUGM-UCM**

**Consolidated Group**

## *Research lines*

**Axis 1: Hematology-oncology in adults**

L1: Haematopoietic progenitor transplantation and other cell therapies.
L2: Myeloid neoplasms: Acute myeloid leukemia and myelodysplastic syndrome.
L3: High-grade lymphomas.
L4: Chronic myeloid leukemia.
L5: Genetics of hematologic neoplasms.
L6: Clinical Research (Clinical Trials)
L7: Electronic management of clinical information.

**Axis 2: Paediatric hematology-oncology**

L1: Hemoglobinopathies.
L2: Adjuvant therapies in oncology and paediatric haematology.
L3: Fanconi anemia.
L4: Paediatric solid tumours.
L5: Paediatric leukaemias.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUDO | LOPEZ | PATRICIA | Female | Sin Definir | |
| AGUILAR | PEREA | VERONICA | Female | R1 | First Stage Researcher |
| ANGUITA | VELASCO | JAVIER | Male | R3 | Established Researcher |
| BAILEN | ALMOROX | REBECA | Female | R1 | First Stage Researcher |
| BALLESTEROS | ANDRÉS | MÓNICA | Female | R3 | Established Researcher |
| BARATAS | ALVAREZ | LUCIA | Female | Sin Definir | |
| BARDON | CANCHO | EDUARDO JESUS | Male | R1 | First Stage Researcher |
| BARRANCO | CARRICHES | BEATRIZ | Female | Sin Definir | |
| BASTOS | OREIRO | MARIANA BEATRIZ | Female | R3 | Established Researcher |
| BAÑULS | GARCIA | MIREIA | Female | R1 | First Stage Researcher |
| BELENDEZ | BIELER | CRISTINA | Female | R3 | Established Researcher |
| BERBEL | DIAZ | MARIA INMACULADA | Female | Sin Definir | |
| BUÑO | BORDE | ISMAEL | Male | R4 | Leading Researcher |
| CARBONELL | MUÑOZ | DIEGO | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| CELA | DE JULIÁN | ELENA | Female | R3 | Established Researcher |
| DE LA IGLESIA | SAN SEBASTIAN | ISMAEL | Male | R1 | First Stage Researcher |
| DIAZ | PEREZ | DAVID | Male | R1 | First Stage Researcher |
| DOMINGUEZ | PARRILLA | LIDIA | Female | Sin Definir | |
| ENCINAS | RODRÍGUEZ | CRISTINA | Female | R3 | Established Researcher |
| FERNANDEZ | GONZALEZ | RAQUEL | Female | R1 | First Stage Researcher |
| FERNANDEZ DE CORDOBA | OÑATE | SARA | Female | R1 | First Stage Researcher |
| FIGAREDO | GARCIA-MINA | GLORIA | Female | R1 | First Stage Researcher |
| FONT | LÓPEZ | PATRICIA | Female | R3 | Established Researcher |
| GARCIA | GARCIA | ANA MARIA | Female | R1 | First Stage Researcher |
| GARCIA | SANZ | RAMON | Male | R4 | Leading Researcher |
| GARCÍA | MORÍN | MARINA | Female | R2 | Recognised Researcher |
| GOMEZ | CENTURION | IGNACIO ALBERTO | Male | R3 | Established Researcher |
| GOMEZ | SERRANO | LETICIA | Female | R1 | First Stage Researcher |
| GONZALEZ | GUERRERO | ALBA | Female | R1 | First Stage Researcher |
| GUTIERREZ | GUTIERREZ | MARIO | Male | R1 | First Stage Researcher |
| HUERTA | ARAGONÉS | JORGE | Male | R1 | First Stage Researcher |
| JIMENEZ | CHILLON | CARLOS | Male | R1 | First Stage Researcher |
| KWON | KIM | MI | Female | R3 | Established Researcher |
| LANCHO | LAVILLA | PILAR | Female | Sin Definir | |
| LOPEZ | ESTEBAN | MIGUEL | Male | R1 | First Stage Researcher |
| LOPEZ | GONZALEZ | MIRIAM | Female | Sin Definir | |
| LOZANO | QUERO | HELENA | Female | Sin Definir | |
| MANZANERO | CAMARA | PATRICIA | Female | Sin Definir | |
| MARCO | SANCHEZ | JOSE MANUEL | Male | R1 | First Stage Researcher |
| MARTINEZ | GARCIA | MARIA | Female | R1 | First Stage Researcher |
| MARTINEZ | LAPERCHE | CAROLINA | Female | R3 | Established Researcher |
| MARTINEZ | SANCHEZ | JAVIER ALFONSO | Male | R1 | First Stage Researcher |
| MAS | ESPINOSA | VERONICA | Female | R1 | First Stage Researcher |
| MATA | FERNÁNDEZ | CRISTINA | Female | R3 | Established Researcher |
| MEDIN | DE BLOCK | HILDA GABRIELA | Female | R1 | First Stage Researcher |
| MENA | SICILIA | EVA | Female | R1 | First Stage Researcher |
| MILLAN | CARNEROS | JAVIER | Male | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| MOLINA | SANCHEZ | GLORIA EMILIA | Female | Sin Definir | |
| MUÑOZ | MARAÑON | OLGA | Female | Sin Definir | |
| MUÑOZ | MARTINEZ | CRISTINA | Female | R3 | Established Researcher |
| ORTIZ | LOPEZ | ALICIA | Female | R1 | First Stage Researcher |
| OSORIO | PRENDES | SANTIAGO | Male | R3 | Established Researcher |
| OVIEDO | PRADA | SORAYA LOLA | Female | R1 | First Stage Researcher |
| PANIZO | MORGADO | ELENA | Female | R3 | Established Researcher |
| PASCUAL | IZQUIERDO | CRISTINA | Female | R3 | Established Researcher |
| PEREZ | CORRAL | ANA MARIA | Female | R3 | Established Researcher |
| PRIETO | MEDINA | MARIA DEL MAR | Female | R1 | First Stage Researcher |
| RODRIGUEZ | BARQUERO | PEDRO ANTONIO | Male | R1 | First Stage Researcher |
| RODRÍGUEZ | MACÍAS | MARIA GABRIELA | Female | R3 | Established Researcher |
| SANCHEZ | CANO | SERGIO | Male | R1 | First Stage Researcher |
| SANCHEZ | CARRILLO | MARTA | Female | Sin Definir | |
| SANCHEZ | GARCIA | TAMARA | Female | R1 | First Stage Researcher |
| SERRANO | TORRES | RAUL | Male | Sin Definir | |
| SILVA | DE TENA | PABLO | Male | Sin Definir | |
| SUAREZ | GONZALEZ | JULIA | Female | R2 | Recognised Researcher |
| TATIS | BELTRE | ELISANNY BEATRIZ | Female | Sin Definir | |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | 1 | | | |
| **National** | 6 | | 2 | |
| **Regional** | | | 1 | |

TITLE: **Remote Ischemic Conditioning in Lymphoma Patients Receiving Anthracyclines.' — 'RESILIENCE'** (H2020-RESILIENCE-945118)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 01/06/2021
END DATE: 31/05/2027

TITLE: **Identificación de biomarcadores predictivos a terapia CART mediante una aproximación multiómica (transcriptómica espacial y célula única) para optimizar la selección de pacientes con LNH-B.** (PI24/01057)
DIRECTOR: BUÑO BORDE, ISMAEL

PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Firma específica de mutaciones rastreables mediante ADN tumoral circulante combinado con PET/CT para predecir el fracaso de la terapia con células CART-T en pacientes con linfoma de células B grandes en recaída o refractarios** (PI23/01877)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Caracterización de la heterogeneidad intratumoral de la macroglobulinemia de Waldenström: utilidad en el diagnóstico y tratamiento de los pacientes** (PI21/00568)
DIRECTOR: GARCIA SANZ, RAMON
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/06/2024
END DATE: 30/06/2026

TITLE: **Búsqueda de biomarcadores relacionados con genes del sistema inmune para predecir la eficacia y la toxiicdad en pacientes con neoplasias hematológicas tratadas con inmunoterapia basada en el receptor de células T antigénicas quiméticas (CART9** (PI20/00521)
DIRECTOR: BUÑO BORDE, ISMAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Fight Osteosarcoma Through European Research evolving study platform from diagnosis to relapse" (FOSTER-evolving)** (ATTRA236786MATA)
DIRECTOR: MATA FERNÁNDEZ, CRISTINA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 15/12/2023
END DATE: 31/03/2033

TITLE: **Dynamics of circulating tumor DNA and other biomarkers prior to infusion of CAR-T therapy as a prognostic marker of treatment failure in diffuse large B cell lymphoma** (GS22BMD/01)
DIRECTOR: BASTOS OREIRO, MARIANA BEATRIZ
PROJECT TYPE: Research project
FUNDING BODY: GILEAD SCIENCE, S.L.U.
START DATE: 19/02/2023
END DATE: 18/02/2025

TITLE: **Intensification contracts** INT24/00088
DIRECTOR: Mariana Beatriz Bastos Oreiro
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/01/2025

END DATE: 31/12/2026

TITLE: **Grants for predoctoral research staff in training** PIPF-2022/SAL-GL-24713
DIRECTOR: Carolina Martínez Laperche (Ismael de la Iglesia San Sebastián)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/12/2023
END DATE: 30/11/2027

TITLE: **AECC Junior Clinical Grant 2024**
DIRECTOR: Ismael Buño Borde (Miguel López Esteban)
PROJECT TYPE: Human Resources
FUNDING BODY: AECC
START DATE: 01/12/2024
END DATE: 01/12/2027

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Implantación de nuevos módulos/funcionalidades y nuevas plataformas de comunicación (servidores externos) para GesTHtronica.** | M-006478/2004 | FIBHGM | Pascual Balsalobre, Ismael Buño, José Luis Díez |
| **AlloGenomics** | M-005730/2014 | FIBHGM | Ismael Buño, Milagros González, José Luis Díez, Jorge Gayoso, Carolina Martínez, Elena Buces, David Serrano, Pascual Balsalobre, Mi Kwon |

Transfered Intelectual Property 31/12/2025

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Santiago Osorio Prendes (Coordinador); F. Ferrer Marín, V García Gutiérrez, MT Gómez Casares, JM Hernández Rivas, Santiago Osorio Prendes | Handbook of recommendations on chronic Philadelphia-negative myeloproliferative neoplasms. 2025 edition. | **Grupo GemFin, SEHH** Depósito legal: B-9778-2025. ISBN: 978-84-09-72344-7; https://manual-gemfin2025.gemfin.org/ |

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Santiago Osorio Prendes (Autor Capítulo 4); G. Carreño, V García-Gutierrez, Irene Pastor, Santiago Osorio, JM Raya | Myelofibrosis | **Grupo GemFin, SEHH** Depósito legal: B-9778-2025. ISBN: 978-84-09-72344-7; https://manual-gemfin2025.gemfin.org/ |
| Encinas C, Blanchard MJ, Fernández RA, Hernández-Rivas JÁ, Tamayo RR, Machado-Vílchez M, Martínez-López J, Mateos MV; Grupo Español de Mieloma (GEM-PETHEMA) | Factors Increasing the Risk of Infection in Patients With Multiple Myeloma: From Biology to Prevention | **Clinical Lymphoma, Myeloma & Leukemia** Volume 25, Issue 10:e844-e856. October 2025. DOI: 10.1016/j.clml.2025.06.012; PMID: 40695637 |
| Carolina Martínez Laperche (varios autores) | Handbook for diagnosis and clinical care in germline predisposition to hematological neoplasms | **SEHH** Depósito Legal: M-20796-2025; ISBN: 978-84-09-67102-1 |

## *Publications* *Total Impact Factor: **485,4***

| | **Nº** | **IF** |
|---|---|---|
| Own publications | 14 | 66.2 |
| Joint publications | 53 | 419.2 |
| First decile publications | 17 | 266.2 |
| First quartile publications | 42 | 414.7 |
| Second quartile publications | 16 | 55.2 |
| Third quartile publications | 7 | 13.4 |
| Fourth quartile publications | 2 | 2.1 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **68** | **485.4** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Ramírez, MJ; Pujol, R; Minguillón, J; Bogliolo, M; Persico, I; Cavero, D; de la Cal, A; Río, P; Navarro, S; Casado, JA; Bailador, A; de la Fuente, AS; de Heredia, ML; Almazán, F; Antelo, ML; Argilés, B; Badell, I; Baragaño, M; Beléndez, C; Bermúdez, M; Bernués, M; Buedo, MI; Carrasco, E; Català, A; Costa, D; Cuesta, I; Fernández-Delgado, R; Fernández-Teijeir, A; Figuera, A; García, M; Gondra, A; González, M; Muñiz, SG; Hernández-Rodríguez, I; Ibañez, F; Kelleher, NJ; Lendínez, F; López, M; López-Almaraz, R; Marchante, I; Mendoza, C; Nieto, J; Ojeda, E; Payán-Pernía, S; Peláez, I; de Soto, IP; Portugal, R; Ramos-Arroyo, MA; Regueiro, A; Rodríguez, A; Rosell, J; Saez, R; Sánchez, J; Sánchez, M; Senent, ML; Tapia, M; Trujillo-Quintero, JP; Vagace, JM; Verdú-Amorós, J; Verdugo, V; Vidales, I; Villarreal, J; Díaz-de-Heredia, C; Sevilla, J; Bueren, J; Surralles, J. *Prognostic significance of mutation type and chromosome fragility in Fanconi anemia*. AMERICAN JOURNAL OF HEMATOLOGY. 2025; 100(2) 272-284. IF: 9.4. Quartile: 1. (Article).
- Mestre-Durán, C; León-Triana, O; Bareke, H; Pertiñez, L; Clares-Villa, L; Bueno, D; Lozano-Ojalvo, D; Navarro-Zapata, A; Sisinni, L; Badell-Serra, I; González-Vicent, M; Belendez, C; Palomo-Moraleda, P; Mozo, Y; Galan, V; Artazcoz, MF; Echecopar, C; Gasior, M; Al-Akioui, K; Cano-Ochando, J; Guerra-García, P; Fernández-Santos, ME; Aguirre-Portolés, C; Perez-Martínez, A. *Ex Vivo IL-15-Stimulated NK Cells as Adoptive Cell Therapy in Haploidentical Transplantation for Pediatric Leukemia*. AMERICAN JOURNAL OF HEMATOLOGY. 2025; 100(10) 1898-1901. IF: 9.4. Quartile: 1. (Letter).

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- Stock, CNT; Chillón, CJ; Hernández, CL; Moro, FM; Palomanes, JM; Villaespesa, MP; de Abia, AL; Santiago, ER; Martín, ER; Rodríguez, AC; Gutiérrez, VG; Jiménez, GM; Jiménez, JL; Puente, PH. *Combination of disease burden before allogeneic transplantation and early post-transplant minimal residual disease predicts survival in patients with acute myeloid leukemia*. ANNALS OF HEMATOLOGY. 2025; 104(4) 2469-2481. IF: 2.3. Quartile: 3. (Article).

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- Kuter, DJ; Ghanima, W; Cooper, N; Liebman, HA; Zhang, L; Hu, Y; Miyakawa, Y; Homenda, W; Galindo, LEM; Basquiera, AL; Tan, CW; Saydam, G; Huetter-Kroenke, ML; Chai-Adisaksopha, C; Gomez-Almaguer, D; Tran, H; Shin, HJ; Junior, ADD; Lazar, Z; Izquierdo, CP; Kirgner, I; Lucchini, E; Kuzmina, G; Fillitz, M; Audia, S; Taparia, M; Cordoba, M; Diab, R; Yao, MJ; Gouia, I; Lee, MCL; Daak, A. *Safety and efficacy of rilzabrutinib vs placebo in adults with immune thrombocytopenia: the phase 3 LUNA3 study*. BLOOD. 2025; 145(24) 2914-2926. IF: 23.9. Quartile: 1. (Article).

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MJ; Vanderfaeillie, A; Bertoni, E; Cuzzubbo, D; Ferreira, T; Saunders, CJ; Stiakaki, E; van de Velde, AL; Diamantidis, MD; Kerkhoffs, JLH; Oliveira, MI; Quota, A; Russo, R; Van Damme, A; Marina, MA; Reggiori, ML; Rijneveld, AW; Gallego, AR; Colombatti, R; Iolascon, A; Taher, A; Gulbis, B; Roy, NBA; Mañú-Pereira, MD. *COVID-19 in patients affected by red blood cell disorders, results from the European registry ERN-EuroBloodNet*. ORPHANET JOURNAL OF RARE DISEASES. 2025; 20(1). IF: 3.6. Quartile: 2. (Article).

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## *6.04 Surgical oncology*

Group Director: **Luis González-Bayón**

Organisms involved: **HGUGM**

**Emerging group**

### *Research lines*

**Axis 1: Malignant peritoneal disease**

L1: Nephroprotection in cisplatin HIPEC

**Axis 2: Sarcomas**

## Group members

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| FERNANDEZ | VAZQUEZ | MARIA LUZ | Female | R2 | Recognised Researcher |
| GONZÁLEZ | BAYÓN | LUÍS | Male | R4 | Leading Researcher |
| LOZANO | LOMINCHAR | PABLO | Male | R2 | Recognised Researcher |
| PALENCIA | GARCIA | NATIVIDAD | Female | R2 | Recognised Researcher |

## Research Projects – Competitive Calls

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |

## Publications

*Total Impact Factor:* ***26,1***

| | Nº | IF |
|---|---|---|
| Own publications | 0 | 0 |
| Joint publications | 4 | 26.1 |
| First decile publications | 1 | 11.7 |
| First quartile publications | 1 | 11.7 |
| Second quartile publications | 3 | 14.4 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **4** | **26.1** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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- Fernández, JA; Gómez, B; Díaz-Gómez, D; López, I; Lozano, P; Muñoz, P; Muñoz-Casares, FC; Olivares-Ripoll, V; Vasques, H; Asencio-Pascual, JM. *Diagnostic Delay in Soft Tissue Sarcomas: A Review*. CANCERS. 2025; 17(11). IF: 4.8. Quartile: 2. (Review).
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- Sánchez, SG; Fernández, JG; Cascales-Campos, PA; Gil, AG; Manzanedo, I; Perez, FP; Gómez, DD; González-de Pedro, C; Diaz, EA; Sanchez, DP; Prada-Villaverde, A; Torrejimeno, IJ; Lacueva, J; Caravaca-García, I; Torres-Melero, J; Sanchez-Garcia, S; Reques, ED; Plaza, CR; Gutierrez-Calvo, A; Bayón, LG; Morales-Soriano, R; López-Mozos, F; Bjelic, L; Alvarez, JG; Fernandez, MEM; Santos, ET; García, AT; Seoane, RA; Armas, MA; Garaulet, ET; Campos, PV;

Roda, EB; Caro, CR; Fadrique, AG; Arjona-Sánchez, A. *Interval Cytoreductive Surgery and Cisplatin- or Paclitaxel-Based HIPEC for Advanced Ovarian Cancer*. JAMA NETWORK OPEN. 2025; 8(6). IF: 11.7. Quartile: 1. (Article).

# AREA 7 SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

Area Coordinator: **Rafael Bañares Cañizares**

The Area of Systemic Diseases comprises a broad spectrum of mainly clinical research groups. Its most fruitful research lines range from acute and chronic kidney failure to the biology of aging, covering fields such as the pathophysiology of liver and digestive diseases and abdominal organ transplantation. In addition, some of the groups in the Area participate in cooperative research structures funded by the ISCIII, such as the Centro de Investigación Biomédica en Red: Enfermedades Hepáticas y Digestivas (CIBEREHD [Networked Center for Biomedical Research in Liver and Digestive Diseases]) and have made a relevant contribution to the development and implementation of clinical practice guidelines.

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

7.01. Inflammation 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. Physiological and therapeutic medical-surgical aspects of respiratory diseases
7.06. Regenerative medicine in plastic surgery
7.07. Experimental kidney transplantation
7.08. Paediatric endocrinology
7.10. Regeneration and biomaterials in musculoskeletal diseases
7.12. Emergency medicine
7.16B. Pathophysiology of the cardiovascular system and circulatory support
7.18. Peritransplant evaluation of the liver
7.19. Perianesthesic assessment
7.20. Anesthesia, toxins, and arrhythmias
7.21. Biopathology of aging
7.22. Neonatal and developmental pathophysiology
7.26. Evaluation of health services and clinical epidemiology
7.27. Hospital pharmacy and pharmacogenomics
7.28. Clinical nutrition
7.29. Pharmacology and vascular pathophysiology
7.31. Pathophysiology in women, pregnancy, labor and puerperium
7.32. Physical medicine and rehabilitation
7.33. Pathological Anatomy
7.34 Multimorbidity, chronic diseasses and health services. Primary Care
7.35.Translational dermatology: Research and innovation
7.36 Translational Research and Biotechnology in Head and Neck Surgery

# 7.01 Inflammation and vascular damage in Chronic Kidney Disease, Dialysis and Renal Transplantation. Renal pathophysiology

Group Director: **María de los Ángeles Goicoechea Diezhandino**
Organisms involved: **HGUGM**
**Consolidated Group**

## *Description of the research group*

Our research group aims to contribute to improving the prevention, diagnosis and complications of acute and chronic renal failure, with different and broad lines of research in all fields. We are currently members of the Cooperative Research Network oriented to health outcomes: RICORS 2040 KIDNEY DISEASE: RD23/0003/0023. We are also a member group of the Consortium for Research on Renal Failure and its Impact on Cardiovascular Pathology (CIFRA_COR-CM; 2022/BMD-7223) and previously of CIFRA2-CM, and of the R&D activity programmes between research groups of the Community of Madrid, whose objectives include the development of new models of acute renal failure in which to study early diagnosis tools, prognostic biomarkers and new therapeutic approaches, reducing its cardiovascular impact. We are participating in two independent clinical trials, one of them multicentre, of which we are the PI.

## *Research lines*

**Axis 1: Research in Acute Renal Failure**

L1: Search for new therapeutic alternatives in acute renal failure of different aetiology (nephrotoxic, sepsis, rhabdomyolysis...).
L2: Inhibition of cholesterol rafts as a therapeutic target in ARF
L3: Nephroprotective role of cilastatin in patients subjected to HIPEC-cisplatin.
L4: Effect of renal inflammasome on distant organ damage
L5: Inhibition of cholesterol rafts as a therapeutic target in lung and intestinal damage
L6: Malaria and acute renal failure
L7: Cardiorenal syndrome, cardiovascular damage in renal failure
L8: Pharmacological Modulation of Reperfusion Injury in Renal Grafts Subjected to Normothermic Ischemia.

**Axis 2: CKD progression**

L1: Role of colchicine in progression of CKD
L2: RAAS blockers in elderly CKD patients without albuminuria
L3: CKD aetiology and progression
L4: Prevention and risk stratification of chronic kidney disease

**Axis 3: Haemodialysis and complications**

L1: Clearance of protein-bound uremic medium molecular weight toxins: HFRs
L2: Potassium levels, dialysate and cardiac arrhythmias
L3: Evaluation of convective transport and online HF techniques on efficacy, tolerability and long-term prognosis of ESRD patients.

**Axis 4: Peritoneal dialysis and home haemodialysis**

L1: Application of new home dialysis modalities
L2: Efficacy of peritoneal dialysis in patients with refractory heart failure

**Axis 5: Acute renal failure**

L1: Code acute renal failure in hospitalisation
L2: Acute renal failure and prognosis
L3: Acute renal failure in hypertensive disorders of pregnancy
L4: Mortality and prognosis of patients presenting with in-hospital acute renal failure

**Axis 6: Glomerular Pathology**

L1: Fsgmac-02: Identification of Mutations in the MAFB gene in patients with podocytopathies. Analysis of the effect of these mutations on the functional and transcriptional polarisation of human macrophages.
L2: Tubuloo1- markers of tubular damage in proteinuric nephropathies, histological correlation and progression of chronic kidney disease.

L3: Markers of fibrosis in patients with glomerular pathology. Proteomic analysis.

**Axis 7: CKD Genetics**

L1: GENSEN study: Identification of genetic mutations in patients with CKD of non-cellular aetiology.

**Axis 8: Extracorporeal purification techniques**

L1: Therapeutic afferesis and its new applications

**Axis 9: Resistant arterial hypertension**

L1: Pocus and Vexus as tools for assessing volemia in resistant arterial hypertension

**Axis 10: Cardiovascular risk**

L1: Lp/a) in CKD patients

L2: Hyperuricaemia in CKD patients

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ACOSTA | BARRIOS | ADRIANA PATRICIA | Female | R1 | First Stage Researcher |
| ARROYO | RUEDA | DAVID | Male | R3 | Established Researcher |
| BARRACA | NUÑEZ | DANIEL | Male | R1 | First Stage Researcher |
| BASCUÑANA | COLOMINA | ARTURO | Male | R1 | First Stage Researcher |
| CARBAYO | LOPEZ DE PABLOS | JAVIER | Male | R3 | Established Researcher |
| GARCIA | PRIETO | ANA Mª | Female | R2 | Recognised Researcher |
| GOICOECHEA | DIEZHANDINO | MARIA DE LOS ANGELES | Female | R4 | Leading Researcher |
| GONZALEZ-NICOLAS | GONZALEZ | Mª ANGELES | Female | R3 | Established Researcher |
| LAZARO | FERNANDEZ | ALBERTO | Male | R4 | Leading Researcher |
| MACIAS | CARMONA | NICOLAS | Male | R3 | Established Researcher |
| MIJAYLOVA | ANTONOVA | ANTONIA GUEORGUIEVA | Female | R1 | First Stage Researcher |
| PEREZ | DE JOSE | ANA MARIA | Female | R2 | Recognised Researcher |
| RODRIGUEZ | BENITEZ | PATROCINIO | Male | R3 | Established Researcher |
| RODRIGUEZ | FERRERO | MARIA LUISA | Female | R2 | Recognised Researcher |
| RUBIO | GONZALEZ | ESTHER | Female | R3 | Established Researcher |
| SANCHEZ | CAMARA | LUIS ALBERTO | Male | R1 | First Stage Researcher |
| VACA | GALLARDO | MARCO ANTONIO | Male | R1 | First Stage Researcher |
| VAZQUEZ | OGANDO | ELENA | Female | R2 | Recognised Researcher |
| VEGA | MARTINEZ | MARIA ALMUDENA | Female | R3 | Established Researcher |
| VELASCO | PARDO | MARÍA | Female | R1 | First Stage Researcher |
| VERDALLES | GUZMAN | URSULA | Female | R3 | Established Researcher |
| VERDE | MORENO | EDUARDO | Male | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |

| | | | | |
|---|---|---|---|---|
| **European** | | | | |
| **National** | 5 | | | |
| **Regional** | | | | |

TITLE: **Caracterización del mecanismo de acción de la cilastatina para actuar como tratamiento preventivo en indicaciones inflamatorias agudas y crónicas** (CPP2022-009633)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/09/2023
END DATE: 31/08/2026

TITLE: **Eficacia de la Colchicina en prevención secundaria de eventos vasculares y progresión renal en pacientes con enfermedad renal crónica moderada (estudio COLCHIREN)** (ICI22/00006)
DIRECTOR: GOICOECHEA DIEZHANDINO, MARIA DE LOS ANGELES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **"Ensayo clínico de nefroprotección con cilastatina en cirugía de citorreducción con quimioterapia intraperitoneal intraoperatoria hipertérmica con cisplatino"** (ICI21/00111)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **El control de la apoptosis renal bloquea el inflamasoma y evita el daño orgánico a distancia.** (PI20/01577)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/04/2025

TITLE: **Modulación farmacológica de la lesión por reperfusión en injertos renales con isquemia normotérmica** (FMM23/02)
DIRECTOR: LAZARO FERNANDEZ, ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 28/07/2023
END DATE: 27/07/2026

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|

| | | | |
|---|---|---|---|
| **Uso de la cilastatina para reducir la nefrotoxicidad de distintos compuestos** | PCT/ES2008070137 | FIBHGM | Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas |
| **Cilastatina para su uso en el tratamiento de sepsis** | EP16382299 | FIBHGM | Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás |
| **Cilastatina, nuevo fármaco protector frente a patologías neuroinflamatorias / neurodegenerativas como el glaucoma** | EP23383314 | Telara Pharma, FIBHGM, UCM | Alberto Lázaro, Meritxell López, María Ángeles González-Nicolás, Eva María Marco, Beatriz Martín, Diego San Felipe, Ricardo Llorente, Miguel Ángel Martínez, Sara Rubio |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

## *Cooperative Research Structures*

| ***Type (RICORS, CIBER, others)*** | ***Name of Network*** | ***Role*** | ***Code*** |
|---|---|---|---|
| *RICORS* | *RICORS2040-RENAL* | *Collaborating group* | *RICORS2040-RENAL* |
| RICORS | RICORS2040-RENAL | Collaborating group | RD21/0005/0029 |
| *Other: Programs of R&D activities among research groups in the Community of Madrid* | *Consorcio para el estudio del fracaso renal y su impacto en la patología cardiovascular* | *Collaborating group* | *CIFRA_COR-CM* |

## *Doctoral theses. Bachelor theses and Master theses*

| ***Type*** | ***Candidate*** | ***Title*** | ***Name/s Director/s*** | ***University*** | ***Date Defended*** |
|---|---|---|---|---|---|
| *Ph thesis* | *Carbayo Lopez de Pablos, Javier* | *Markers of tubular damage in proteinuric nephropathies, histological correlation and progression of chronic kidney disease* | *Cachofeiro, Victoria; Goicoechea, María Ángeles; Verdalles, Úrsula* | *UCM* | *12/03/2025* |
| *Ph Thesis* | *Garcia Prieto, Ana María* | *Effect of renin-angiotensin-aldosterone system blockers on the progression of chronic kidney disease in elderly patients with non-proteinuric nephropathies (proercan clinical trial, nct:03195023)* | *Praga Terente, Manuel; Goicoechea, María Ángeles; Verdalles, Úrsula* | *UCM* | *29/09/2025* |

| Authors | Title | Journal / Reference |
|---|---|---|
| Montero N, Oliveras L, Martínez-Castelao A, Gorriz JL, Soler MJ, Fernández-Fernández B, Quero M, García-Carro C, Garcia-Sancho P, Goicoechea M, Gorgojo Martínez JJ, Molina P, Puchades MJ, Rodríguez-Espinosa D, Sablón N, Santamaría R, Navarro-González JF; GEENDIAB (Spanish Diabetic Nephropathy Study Group). | Clinical Practice Guideline for detection and management of diabetic kidney disease: A consensus report by the Spanish Society of Nephrology | **Nefrologia** Nefrologia (Engl Ed). 2025 Apr;45 Suppl 1:1-26. doi: 10.1016/j.nefroe.2025.04.005. PMID: 40222774. |

## Publications

## Total Impact Factor: 65,3

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 13.7 |
| Joint publications | 12 | 51.6 |
| First decile publications | 2 | 15.8 |
| First quartile publications | 8 | 47.5 |
| Second quartile publications | 1 | 6 |
| Third quartile publications | 6 | 11.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **17** | **65.3** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Sarmiento, E; Ezzahouri, I; Jimenez-Lopez, M; Carré, KML; Alonso, R; Ortiz-Bautista, C; Plaza, MS; Rodríguez-Ferrero, ML; Padilla-Machaca, PM; Cerron, A; Chaman, JC; Salvo, APV; Carbone, J. *A New Routine Immunity Score (RIS2020) to Predict Severe Infection in Solid-Organ Transplant Recipients*. ANNALS OF TRANSPLANTATION. 2025; 30. IF: 1.3. Quartile: 3. (Article).
- Mazon-Ruiz, J; Arroyo, D; De Cos, M; Riestra, M; Sánchez-Alvarez, E; Bores, PG; Hernández, JL; Corral, P. *Lipid lowering therapies in chronic kidney disease: A call to action*. ATHEROSCLEROSIS. 2025; 411. IF: 7.1. Quartile: 1. (Article).
- Martín-Ramírez, R; González-Nicolás, MA; Alvarez-Tosco, K; Machín, F; Avila, J; Morales, M; Lázaro, A; Martín-Vasallo, P. *Cilastatin Modulates DPEP1-and IQGAP1-Associated Neuro-Glio-Vascular Inflammation in Oxaliplatin-Induced Peripheral Neurotoxicity*. CELLS. 2025; 14(16). IF: 6. Quartile: 2. (Article).
- Arnalich-Montiel, A; Barrio-Pérez, IM; Burgos-Santamaría, A; Fernández-Riveira, C; Lázaro, A; González-Nicolás, MA; Río, J; Bellón, JM; Canal, MI; Ligero, JM; Quintana-Villamandos, B. *Influence of the type of volatile anesthetic on the development of acute kidney injury after endovascular repair of aortic aneurysm: a randomized controlled trial (DESEVAR study)*. FRONTIERS IN PHARMACOLOGY. 2025; 16. IF: 5.4. Quartile: 1. (Article).
- González-Nicolás, MA; Humanes, B; Herrero, R; Arenillas, M; López, B; Ferruelo, A; Lorente, JA; Lázaro, A. *Cilastatin Attenuates Acute Kidney Injury and Reduces Mortality in a Rat Model of Sepsis*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2025; 26(16). IF: 5.6. Quartile: 1. (Article).
- Lamas-Paz, A; Hionides-Gutierrez, A; Guo, FF; Jorquera, G; Moran-Blanco, L; Benede-Ubieto, R; Mesquita, M; Estevez-Vazquez, O; Zheng, K; Mazariegos, M; Vazquez-Ogando, E; Blazquez-Lopez, E; Asensio, I; Mutlu, B; Gomez-Santos, B; Peligros, MI; Vaquero, J; Banares, R; Delgado, TC; Martinez-Chantar, ML; Martinez-Naves, E; Sanz-Garcia, C; Mohamed, MR; Tesolato, S; Iniesta, P; Gallego-Duran, R; Maya-Miles, D; Ampuero, J; Romero-Gomez, M; Martinez-Alcocer, A; Sanfeliu-Redondo, D; Fernandez-Iglesias, A; Gracia-Sancho, J; Coll, M; Graupera, I; Gines, P; Ciudin, A;

Rivera-Esteban, J; Pericas, JM; Avila, MA; Frutos, MD; Martinez-Caceres, CM; Ramos-Molina, B; Aspichueta, P; Puigserver, P; Nevzorova, YA; Cubero, FJ. *Loss of Cdkn1a protects against MASLD alone or with alcohol intake by preserving lipid homeostasis*. JHEP REPORTS. 2025; 7(1). IF: 8.7. Quartile: 1. (Article).

- Caravaca-Fontán, F; Toledo-Rojas, R; Huerta, A; Pérez-Canga, JL; Martínez-Miguel, P; Miquel, R; Da Silva, I; Verdalles, U; Albornoz, M; López, CMD; Mon, C; Fernandez-Juárez, G; Praga, M. *Comparative Analysis of Proteinuria and Longitudinal Outcomes in Immune Complex Membranoproliferative Glomerulonephritis and C3 Glomerulopathy*. KIDNEY INTERNATIONAL REPORTS. 2025; 10(4) 1223-1236. IF: 6.2. Quartile: 1. (Article).

- Bermejo, S; González, E; López-Revuelta, K; Ibernon, M; López, D; Martín-Gómez, A; Garcia-Osuna, R; Linares, T; Díaz, M; Martín, N; Barros, X; Marco, H; Navarro, MI; Esparza, N; Elias, S; Coloma, A; Robles, NR; Agraz, I; Poch, E; Rodas, L; Lozano, V; Fernández-Fernández, B; Hernández, E; Martínez, MI; Stanescu, RI; Moirón, JP; García-Fernández, N; Goicoechea, M; Calero, F; Bonet, J; Liaño, F; Pascual, J; Praga, M; Fulladosa, X; Soler, MJ. *A predictive model of non-diabetic kidney disease in patients with diabetes mellitus and chronic kidney disease. A Spanish multi-center study*. NEFROLOGIA. 2025; 45(5) 360-368. IF: 2.1. Quartile: 3. (Article).

- Goicoechea, M; Garcia-Marina, R. *Hyperuricemia in patients with chronic kidney disease: When and what to treat?*. NEFROLOGIA. 2025; 45(6). IF: 2.1. Quartile: 3. (Article).

- Escamilla-Cabrera, B; Montomoli, M; Kislikova, M; de la Espada, V; Olarte-García, A; García-Prieto, AM; Piqueras-Sánchez, S; López, AA; Rodríguez-Gayo, L; Centellas-Pérez, J; Villafuerte, H; Baena, PB. *Multicenter validation of the Kidney Failure Risk Equation (KFRE) formula in Spanish patients with advanced chronic kidney disease*. NEFROLOGIA. 2025; 45(5) 388-396. IF: 2.1. Quartile: 3. (Article).

- Montero, N; Oliveras, L; Martínez-Castelao, A; Gorriz, JL; Soler, MJ; Fernández-Fernández, B; Quero, M; García-Carro, C; García-Sancho, P; Goicechea, M; Martínez, JJG; Molina, P; Puchades, MJ; Rodríguez-Espinosa, D; Sablón, N; Santamaría, R; Navarro-González, JF. *Clinical Practice Guideline for detection and management of diabetic kidney disease: A consensus report by the Spanish Society of Nephrology*. NEFROLOGIA. 2025; 45 1-26. IF: 2.1. Quartile: 3. (Article).

- Macía, M; Fernández-Juárez, G; Avila, AI; Espino, M; Espinosa, M; Fulladosa, X; García-Carro, C; Goicoechea, M; Morales, E; Quintana, LF; Rojas-Rivera, JE; Praga, M. *GLANCE survey: Awareness and implementation of the GLOSEN recommendations for the diagnosis and treatment of lupus nephritis*. NEFROLOGIA. 2025; 45(9). IF: 2.1. Quartile: 3. (Article).

- López-Valverde, L; Vazquez-Mosquera, ME; Colón-Mejeras, C; Alvarez, JV; López-Pardo, BM; López, LL; Sánchez-Martínez, R; López-Mendoza, M; López-Rodríguez, M; Villacorta-Argüelles, E; Goicoechea-Diezhandino, MA; Guerrero-Márquez, FJ; Ortolano, S; Leao-Teles, E; Hermida-Ameijeiras, A; Couce, ML. *Disrupted synaptic gene expression in Fabry disease: Findings from RNA sequencing*. NEUROBIOLOGY OF DISEASE. 2025; 209. IF: 6. Quartile: 1. (Article).

- Fontao, SM; Manso, P; Audije-Gil, J; Gascueña, DH; Dapena, F; Aresté, N; Sánchez-Alvarez, E; Molina, P; Ojeda, R; Goicoechea, M; Simó, VE; Bezhold, GA; Prieto-Velasco, M; Lloret, MJ; Santos, AB; Buades, JM; Narváez, C; Sánchez-Villanueva, R; Pérez-Morales, RE; Jiménez, MDA; Fdn Renal Espanola Working Grp; Prurito Working Grp. *Quality of life and clinical data in hemodialysis patients with different degrees of pruritus*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

- Perez-Sáez, MJ; Melilli, E; Arias, M; Franco, A; Martinez, R; Sancho, A; Molina, M; Facundo, C; Polanco, N; López, V; Mazuecos, A; Cabello, S; García, MEG; Suárez, ML; Auyanet, I; Espi, J; Falcón, TG; Ruiz, JC; Galeano, C; Artamendi, M; Rodríguez-Ferrero, ML; Portolés, JM; Santana, MA; Martín-Moreno, PL; Arhda, N; Calvo, M; Mendiluce, A; Macía, M; Pérez-Tamajón, ML; de Teresa, J; Gascó, B; Soriano, S; Tabernero, G; de la Vara, L; Ramos, AM; Martínez, R; de Espinosa, EM; Zalve, JL; Pascual, J; Rodriguez-Mañas, L; Gutiérrez-Dalmau, A; Moreso, F. *Frailty Prevalence and Characterization Among Kidney Transplant Candidates in Spain: A Multicenter Study*. TRANSPLANT INTERNATIONAL. 2025; 38. IF: 3.6. Quartile: 1. (Article).

## ***Publications from the WOS Core Collection without Impact Factor:***

- González-Nicolás MÁ; Lázaro A. *Induction of sepsis in a rat model by the cecal ligation and puncture technique. Application for the study of experimental acute renal failure.* METHODS IN CELL BIOLOGY. 2025; 192 69-82. Quartile: 4. (Article).

## ***Other publications:***

- VALIÑO-RIVAS L; González-Nicolás MÁ; Vázquez-Ogando E; Lázaro A. *Experimental model of unilateral ureteral obstruction reproduces key events of chronic kidney disease: From mice to humans.* METHODS IN CELL BIOLOGY. 2025; 197 193-206. (Article).

# 7.02 Pathophysiology and natural history of liver and digestive diseases

Group Director: **Rafael Bañares Cañizares**

Organisms involved: **HGUGM**

**Consolidated Group**

## Description of the research group

This is a well-established group with a presence in clinical and translational research. The group is composed of several principal investigators (Dr. Cubero, Dr. Vaquero, Dr. Menchén, Dr. Salcedo, Dr. Bañares) with funding obtained from various national and international calls for proposals. One part of the group (PI Dr. Cubero) is based at the Complutense University, Department of Immunology. Therefore, the group belongs to two organisations (HGUGM/UCM). In addition, the group's PI (Dr. Bañares) also belongs to the UCM with a linked position.

## Research lines

**Axis 1: Clinical hepatology and liver transplantation**

L1: Portal hypertension and its complications.

L2: Impact of liver volume on key events in the natural history of cirrhosis.

L3: Cardiac alterations in chronic liver disease.

L4: Natural history and pathophysiology of hepatic vascular diseases.

L5: Complications of liver transplantation.

L6: Immunology of liver transplantation.

L7: Preservation machines in liver transplantation.

**Axis 2: Clinical Gastroenterology**

L1: Natural history and complications of inflammatory bowel disease

**Axis 3: Translational Gastroenterology and Hepatology**

L1: Exosomes in experimental liver disease

L2: Environmental and microbial factors associated with the progression of sclerosing cholangitis associated with experimental inflammatory bowel disease

L3: Influence of metabolic fatty liver disease on hepatic carcinogenesis

L4: Study of intestinal barrier mechanisms

L5: Models of experimental liver disease

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AHUMADA | JIMENEZ | ADRIANA MARIA | Female | R1 | First Stage Researcher |
| ALONSO | LOPEZ | SONIA | Female | R2 | Recognised Researcher |
| ARANDA | HERNÁNDEZ | JAVIER | Male | Sin Definir | |
| BARCENA | VARELA | MARINA | Female | R2 | Recognised Researcher |
| BAÑARES | CAÑIZARES | RAFAEL | Male | R4 | Leading Researcher |
| BIGHELLI | | FEDERICO | Male | R1 | First Stage Researcher |
| BOROBIA | SANCHEZ | RODRIGO | Male | Sin Definir | |
| CABALLERO | MARCOS | ARANZAZU | Female | R2 | Recognised Researcher |
| CARRION | MARTIN | LAURA | Female | R1 | First Stage Researcher |
| CASTILLO | GONZALEZ | RAQUEL ANA | Female | Sin Definir | |
| CATALINA | RODRÍGUEZ | MARÍA DE LA VEGA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| CLEMENTE | SANCHEZ | ANA | Female | R2 | Recognised Researcher |
| CONTHE | ALONSO | ANDRES | Male | R1 | First Stage Researcher |
| CUBERO | PALERO | FRANCISCO JAVIER | Male | R3 | Established Researcher |
| DE BONIS | TRUJILLO | ADRIANA | Female | Sin Definir | |
| DIAZ | GOMEZ | ARANTXA | Female | Sin Definir | |
| DÍAZ | FONTENLA | FERNANDO | Male | R2 | Recognised Researcher |
| ESTEVEZ | VAZQUEZ | OLGA | Female | R2 | Recognised Researcher |
| FERNANDEZ | CACERES | PALOMA | Female | Sin Definir | |
| FERNANDEZ | YUNQUERA | AINHOA | Female | R1 | First Stage Researcher |
| FLORES | FERNANDEZ | VIRGINIA | Female | R1 | First Stage Researcher |
| FRANCO | HERRERA | CAROLINA | Female | R1 | First Stage Researcher |
| GARCIA | MARTINEZ | RITA | Female | R2 | Recognised Researcher |
| GARCÍA | LLEDÓ | JAVIER | Male | Sin Definir | |
| HERNANDO | ALONSO | ANA ISABEL | Female | R2 | Recognised Researcher |
| IBAÑEZ | SAMANIEGO | LUIS | Male | R2 | Recognised Researcher |
| LEIVA | ARJONA | MARIA MAGDALENA | Female | R3 | Established Researcher |
| LÓPEZ | CAUCE | BEATRIZ | Female | Sin Definir | |
| LÓPEZ | IBAÑEZ | MARÍA | Female | Sin Definir | |
| MARIN | JIMENEZ | IGNACIO | Male | R2 | Recognised Researcher |
| MARQUEZ | PEREZ | LAURA | Female | R1 | First Stage Researcher |
| MARTIN | GUERRA | MARIA ROCIO | Female | Sin Definir | |
| MARTINEZ | LOZANO | HELENA | Female | R1 | First Stage Researcher |
| MARTOS | VIZCAINO | ESPERANZA | Female | Sin Definir | |
| MATILLA | PEÑA | ANA MARÍA | Female | R2 | Recognised Researcher |
| MENCHEN | VISO | LUIS ALBERTO | Male | R3 | Established Researcher |
| MERINO | RODRIGUEZ | BEATRIZ | Female | Sin Definir | |
| MIRANDA | BAUTISTA | JOSÉ | Male | R2 | Recognised Researcher |
| NEVZOROVA | CHUJINA | YULIA | Female | R3 | Established Researcher |
| NOGALES | RINCON | OSCAR | Male | Sin Definir | |
| PAJARES | DÍAZ | JOSE ANTONIO | Male | R2 | Recognised Researcher |
| PUERTO | CANTERO | MARTA | Female | R2 | Recognised Researcher |
| PÉREZ | CARAZO | LETICIA | Female | Sin Definir | |
| RINCÓN | RODRÍGUEZ | DIEGO | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ROMERO | CRISTOBAL | MARIO | Male | R2 | Recognised Researcher |
| RUBIO | CABALLERO | CARMEN | Female | Sin Definir | |
| RUIZ | MARTIN | CHRISTIAN | Male | Sin Definir | |
| SALCEDO | PLAZA | MAGDALENA | Female | R3 | Established Researcher |
| SIERRA | ROJAS | JOHANNA | Female | Sin Definir | |
| VAQUERO | MARTIN | JAVIER | Male | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | | 1 | | |
| National | 9 | 3 | 2 | |
| Regional | | | 1 | |

TITLE: **Factores medioambientales y microbianos asociados a la evolución de la colangitis esclerosante asociada a enfermedad inflamatoria intestinal experimental** (PI23/01906)
DIRECTOR: MENCHEN VISO, LUIS ALBERTO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Profundización en el diagnóstico y mecanismos de las alteraciones de las plaquetas y médula ósea en la enfermedad hepática crónica** (PI21/01749)
DIRECTOR: VAQUERO MARTIN, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 31/12/2025

TITLE: **Evaluación de la capacidad diagnóstica y pronóstica de la biopsia hepática en la insuficiencia hepática crónica agudizada (ACLF): unabordaje traslacional** (PI21/01957)
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Beca IMPULSO trasplante: Fragilidad persistente tras el trasplante hepático: Prevalencia, mecanismos involucrados y potencial de reversibilidad con estrategias de intervención personalizadas** (2024-CCA034)
DIRECTOR: CLEMENTE SANCHEZ, ANA
PROJECT TYPE: Research project
FUNDING BODY: CHIESI ESPAÑA, S.A.
START DATE: 18/10/2024

END DATE: 17/10/2026

TITLE: **Beca IMPULSO trasplante: Programa Educacional & Experiencia del paciente en un programa de trasplante hepático de adulto. Plan de digitalización e integración en la historia clínica electrónica** (2024-CCA035)
DIRECTOR: SALCEDO PLAZA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: CHIESI ESPAÑA, S.A.
START DATE: 29/10/2024
END DATE: 28/10/2026

TITLE: **Neoadjuvant-adjuvant immunotherapy and cancer vaccines to improve survival in hepatocellular carcinomaNeoadjuvant-adjuvant immunotherapy and cancer vaccines to improve survival in hepatocellular carcinoma (ASPIRE)** (RETOS245779LLOV)
DIRECTOR: MATILLA PEÑA, ANA MARÍA
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 05/03/2025
END DATE: 04/03/2031

TITLE: **Base racional para modular el estrés del retículo endoplásmico inducido por el microbioma como herramienta para evitar la evasión inmune en el carcinoma hepatocelular (RETO)** (FAECC23/01)
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: FUNDACION AECC
START DATE: 01/12/2023
END DATE: 30/11/2028

TITLE: **"La perfusión normotérmica de órgano aislado como sistema de recuperación de órganos subóptimos para aumentar el pool de donantes. Biomarcadores de viabilidad y trasplantabilidad"** (FMM21/02)
DIRECTOR: BAÑARES CAÑIZARES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 16/06/2021
END DATE: 31/01/2026

TITLE: **Impacto de las máquinas de perfusión hepática ex-vivo sobre la inmunogenicidad del injerto: normotermia vs. Hipotermia** (SMT23/01)
DIRECTOR: CABALLERO MARCOS, ARANZAZU
PROJECT TYPE: Research project
FUNDING BODY: SOCIEDAD MADRILEÑA DE TRASPLANTES
START DATE: 07/03/2024
END DATE: 06/03/2026

TITLE: **Juan Rodés contracts** JR22/00052
DIRECTOR: Aránzazu Caballero Marcos
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 23/01/2023
END DATE: 22/01/2027

TITLE: **Juan Rodés contracts** JR23/00080
DIRECTOR: Ana Clemente Sánchez
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/01/2024
END DATE: 28/01/2028

TITLE: **Attracting Research Talent: César Nombela candidate** 2024-T1/SAL-GL-31615
DIRECTOR: (Marina Bárcena Varela)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/05/2025
END DATE: 30/04/2030

* **Not managed by the FIBHGM**

TITLE: **Discovering chronic inflammation biomarkers that define key stages in the Healthy-to-NASH (non-alcoholic steatohepatitis) transition to inform early prevention and treatment strategies**. 101095679
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER
PROJECT TYPE: European research project
FUNDING BODY: EU HORIZON
START DATE: 01/12/2022
END DATE: 30/11/2026

TITLE: **DESCIFRANDO EL PAPEL DE FGF21 EN EL DESARROLLO DEL COLANGIOCARCINOMA INTRAHEPÁTICO**. PID2024-158138OB-I00
DIRECTOR: LEIVA ARJONA, MAGDALENA
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2025
END DATE: 31/12/2028

TITLE: **PREVENCIÓN DEL ESTRÉS DEL RETÍCULO ENDOPLÁSMICO MEDIANTE LA REGULACIÓN DE LA HOMEOSTASIS REDOX EN ENFERMEDAD CRÓNICA HEPÁTICA INFLAMATORIA DE BASE METABÓLICA**. PID2023-151347OB-I00
DIRECTOR: CUBERO PALERO, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2024
END DATE: 31/12/2027

TITLE: **Estudio del eje músculo-intestino-hígado en la MetALD: de la fisiopatología a la terapia específica para la medicina personalizada**. PID2023-150260OB-I00
DIRECTOR: NEVZOROVA CHUJINA, YULIA
PROJECT TYPE: Research project
FUNDING BODY: MICINN
START DATE: 01/01/2024
END DATE: 31/12/2027

## *Cooperative Research Structures*

| Type (RICORS, CIBER, others) | Name of Network | Role | Code |
|---|---|---|---|
| CIBER | Centro de Investigación Biomédica en Red de Enfermedades Hepáticas y Digestivas | Collaborating group | CIBEREHD |

## Doctoral theses. Bachelor theses and Master theses

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| Ph Thesis | Hanghang, Wu | Role of X-Box Binding Protein 1 (XBP1) in Hepatic Stellate Cells (hscs) in the Progression of Chronic Liver Disease | Cubero Palero, Francisco Javier | UCM | 19/06/2025 |
| Ph Thesis | Díaz Ruiz, Raquel | Role of vitamin D deficiency in key events of liver cirrhosis and impact of its supplementation | García Martínez, Rita; Bañares Cañizares, Rafael | UCM | 09/10/2025 |

## Clinical Practice Guidelines

| Authors | Title | Journal / Reference |
|---|---|---|
| Albillos A, Bañares R, Hernández-Gea V | Portal hypertension: recommendations for diagnosis and treatment. Consensus document sponsored by the Spanish Association for the Study of the Liver | **Rev Esp Enferm Dig**<br>Rev Esp Enferm Dig 2025;117:14-57 |

## Publications

Total Impact Factor: **793,3**

| | Nº | IF |
|---|---|---|
| Own publications | 17 | 113.8 |
| Joint publications | 61 | 679.5 |
| First decile publications | 25 | 562.7 |
| First quartile publications | 59 | 742.7 |
| Second quartile publications | 10 | 33 |
| Third quartile publications | 9 | 17.6 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **78** | **793.3** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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# *7.04 Diseases of the critically ill child*

Group Director: **Jesús López-Herce Cid**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

A multidisciplinary group of doctors and nurses from Paediatric Intensive Care and other paediatric specialties who focus their clinical, experimental animal and teaching research on the pathology of the critically ill child, with a practical translational orientation.

## *Research lines*

**Axis 1: Pathology of the critically ill child**

L1: Cardiopulmonary arrest and cardiopulmonary resuscitation in childhood
L2: Treatment of acute renal failure in the critically ill child
L3: Haemodynamic monitoring and tissue perfusion and shock management
L4: Nutrition and digestive pathology in the critically ill child
L5: Monitoring of sedation and analgesia in the critically ill child
L6: Respiratory assistance in the critically ill child
L7: Teaching in paediatric intensive care
L8: Anaemia and transfusions in the critically ill child
L9: Pathology of the technology-dependent child
L10: Quality and safety in paediatric intensive care
L11: Vascular access in paediatrics
L12: Infections in the critically ill child
L13: Ocular pathology in the critically ill child
L14: End of life care

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALCON | NAJERA | SARA | Female | R1 | First Stage Researcher |
| BARROSO | SANTIAGO | MARIA | Female | R1 | First Stage Researcher |
| BUTRAGUEÑO | LAISECA | LAURA | Female | R2 | Recognised Researcher |
| CAMACHO | VICENTE | VERONICA | Female | R1 | First Stage Researcher |
| CIEZA | ASENJO | RAQUEL | Female | R1 | First Stage Researcher |
| CORDERO | MARTINEZ | MARTA | Female | R1 | First Stage Researcher |
| DE LA MATA | NAVAZO | SARA | Female | R1 | First Stage Researcher |
| DEL CASTILLO | PERAL | JIMENA | Female | R3 | Established Researcher |
| FERNANDEZ | LAFEVER | SARAH NICOLE | Female | R2 | Recognised Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| GARRIDO | GASPAR | BEATRIZ | Female | R1 | First Stage Researcher |
| GONZÁLEZ | CORTES | RAFAEL | Male | R3 | Established Researcher |
| HERRERA | CASTILLO | LAURA XIMENA | Female | R1 | First Stage Researcher |
| LOPEZ | GONZALEZ | JORGE | Male | R3 | Established Researcher |
| LÓPEZ-HERCE | CID | JESÚS | Male | R4 | Leading Researcher |
| MANRIQUE | MARTÍN | GEMA | Female | R2 | Recognised Researcher |
| MENCÍA | BARTOLOMÉ | SANTIAGO | Male | R3 | Established Researcher |
| RODRIGUEZ | MARTINEZ | ALICIA | Female | R1 | First Stage Researcher |
| SANCHEZ | SANCHEZ | CESAR | Female | R2 | Recognised Researcher |
| SANTIAGO | LOZANO | MARÍA JOSÉ | Female | R3 | Established Researcher |
| SANZ | ALVAREZ | DEBORA | Female | R1 | First Stage Researcher |
| SLOCKER | BARRIO | MARIA | Female | R2 | Recognised Researcher |
| SOLANA | GARCÍA | MARÍA JOSÉ | Female | R3 | Established Researcher |
| SÁNCHEZ | GALINDO | AMELIA | Male | R3 | Established Researcher |
| TORRES | SOBLECHERO | LAURA | Female | R1 | First Stage Researcher |
| URBANO | VILLAESCUSA | JAVIER | Male | R3 | Established Researcher |
| VILCHEZ | RODRIGUEZ | BEATRIZ | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | 1 | | | |
| **European** | | | | |
| **National** | 8 | 1 | 2 | |
| **Regional** | | | | |

TITLE: **ASCEND (ARDS in Children and ECMO initiation strategies impact on Neuro-Development)** (NIH-2020/PAF01099)
DIRECTOR: BUTRAGUEÑO LAISECA, LAURA
PROJECT TYPE: International research project
FUNDING BODY: UNIVERSIDAD DE MICHIGAN
START DATE: 05/09/2020
END DATE: 30/06/2026

TITLE: **Identificación precoz del daño renal agudo en niños críticos mediante peptidómica y proteómica en orina aplicando machine learning** (PI24/00984)
DIRECTOR: FERNANDEZ LAFEVER, SARAH NICOLE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Desarrollo de un sistema de simulación para la formación en técnicas de depuración extrarrenal continua** (DTS22/00022)
DIRECTOR: MENCÍA BARTOLOMÉ, SANTIAGO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Influencia de la modalidad de ventilación y la inflamación sobre el pronóstico en un modelo de experimental animal pediátrico de parada cardiaca** (PI21/01149)
DIRECTOR: LÓPEZ-HERCE CID, JESÚS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Ensayo clínico controlado aleatorizado sobre el tratamiento profiláctico del estreñimiento con polietilenglicol con electrolitos en el niño crítico.** (PI20/01339)
DIRECTOR: LOPEZ GONZALEZ, JORGE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Comparación de la eficacia en sepsis de las técnicas de depuración sanguínea para niños críticos: estudio clínico y experimental.** (PI20/01428)
DIRECTOR: SANTIAGO LOZANO, MARÍA JOSÉ
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Utilidad de las nuevas modalidades de imagen en ecografía y videomicroscopia para la evaluación microcirculatoria y tisular a pie de cama en niños sometidos a cirugía cardíaca.** (PI20/01491)
DIRECTOR: GONZÁLEZ CORTES, RAFAEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Efectos de la resucitación con albumina hipertónica y nuevas drogas vasoactivas en un modelo animal infantil de shock hemorragico.** (PI20/01706)
DIRECTOR: URBANO VILLAESCUSA, JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Liquid-walled circuits for anticoagulant-free Extra-corporeal Membrane**. HR25-00225
DIRECTOR: SANTIAGO, MARIA JOSÉ
PROJECT TYPE: Research project

FUNDING BODY: Caixa
START DATE: 01/01/2025
END DATE: 12/12/2027

TITLE: **Río Hortega contracts** CM23/00041
DIRECTOR: Jesús López-Herce Cid (Sara de la Mata Navazo)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 29/07/2024
END DATE: 27/01/2027

TITLE: **Juan Rodés contracts** JR24/00040
DIRECTOR: Laura Butragueño Laiseca
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 01/02/2025
END DATE: 31/01/2029

* **Not managed by the FIBHGM**

TITLE: **Monitorización continua de la glucemia en pacientes pediátricos críticamente enfermos**. Beca Ruza 2025
DIRECTOR: MANRIQUE, GEMA
PROJECT TYPE: Research project
FUNDING BODY: Sociedad Española de Cuidados Intensivos Pediátricos
START DATE: 01/07/2025
END DATE: 31/06/2026

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| RICORS | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | Collaborating group | RD24/0013/0012 |

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Simulador de hemofiltración (HEFISIM-1)** | P201330340 | FIBHGM, Universidad de Santiago de Compostela, SERGAS | Jesús López-Herce, Santiago Mencía, Antonio Rodríguez |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

***Copyright***

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos** | M-008355/2010 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |

Transfered Intelectual Property 31/12/2025

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| RICORS | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | Collaborating group | RD24/0013/0012 |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Scholefield BR, Acworth J, Ng KC, Tiwari LK, Raymond TT, Christoff A, Katzenschlager S, Escalante-Kanashiro R, Bansal A, Topjian A, Kleinman M, Kurosawa H, Myburgh MC, Del Castillo J, Rossano J, Djakow J, Guerguerian AM, Nadkarni VM, Bittencourt Couto T, Schexnayder SM, Nuthall G, Tijssen JA, Ong GY, Gray JM, Lopez-Herce J, Ambunda ES, Nolan JP, Berg KM, Morrison LJ, Atkins DL, de Caen AR; Pediatric Life Support Task Force Collaborators. | Pediatric Life Support: 2025 International Liaison Committee on Resuscitation Consensus on Science With Treatment Recommendations. | **Circulation** 2025 Oct 21;152(16_suppl_1):S116-S164. doi: 10.1161/CIR.0000000000001362. Epub 2025 Oct 22. PMID: 41122843. |
| Greif R, Lauridsen KG, Djärv T, Ek JE, Monnelly V, Monsieurs KG, Nikolaou N, Olasveengen TM, Semeraro F, Spartinou A, Yeung J, et al.; European Resuscitation Council Guidelines 2025 Collaborator Group | European Resuscitation Council Guidelines 2025 Executive Summary | **Resuscitation** 2025 Oct;215 Suppl 1:110770. doi: 10.1016/j.resuscitation.2025.110770. PMID: 41117573 |
| Bottari G, Buccione E, Bayrakci B, Briassoulis G, Carter MJ, Demirkol D, Ilia S, Morin L, Reiter K, Santiago MJ, Schlapbach LJ, Slocker-Barrio M, Tissieres P, Zaoral T, Bianzina S, Deep A. | Extracorporeal Blood Purification in European Pediatric Intensive Care Units: A Consensus Statement. | **JAMA Network Open** 2025 Feb 3;8(2):e2457657. doi: 10.1001/jamanetworkopen.2024.57657. PMID: 39899300. |
| Liu J, Inchingolo R, Suryawanshi P, Guo BB, Kurepa D, Cortés RG, Yan W, Chi JH, Acosta CM, Jagła M, Sharma D, Sorantin E, Hsieh KS, Graziani G, Malta B, Woods P, Meng Q, You CM, Kruczek P, Kneyber M, Buda N, Smargiassi A, Lovrenski J, Ren XL, Guo YL, Qiu RX, Razak A, Feletti F. | Guidelines for the use of lung ultrasound to optimise the management of neonatal respiratory distress: international expert consensus. | **BMC Med** 2025 Feb 24;23(1):114. doi: 10.1186/s12916-025-03879-5. |

| Authors | Title | Journal / Reference |
|---|---|---|
| López-Herce J, Rodríguez Núñez A, García-Salido A, Santiago Lozano MJ, Mayordomo Colunga J, González Cortés R. | Handbook of Pediatric Intensive Care - 6th ed. | **Editorial Médica Panamericana** Editorial Médica Panamericana; 2026; Depósito Legal: M-21687-2025; ISBN: 9788411064620 |

## *Publications* *Total Impact Factor: **191,1***

| | Nº | IF |
|---|---|---|
| Own publications | 14 | 49.6 |
| Joint publications | 21 | 141.5 |
| First decile publications | 12 | 120.4 |
| First quartile publications | 21 | 154.5 |
| Second quartile publications | 9 | 27.1 |
| Third quartile publications | 5 | 9.5 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **38** | **191.1** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Oulego-Erroz, I; De Castro-Vecino, MD; González-Cortés, R; Alonso-Ojembarrena, A; Rodriguez-Nuñez, A; Palanca-Arias, D; Quesada-Ortega, U; Sanchiz-Cardenas, S; Murillo-Pozo, MA; López-González, J; Sánchez-Yáñez, P; Valencia-Ramos, J; de la Ballina, AF; Chaves-Caro, N; Borrego-Domínguez, R; Sánchez-Porras, M; Rodríguez-Martínez, M; Carballo-Martín, PJ; Bermúdez-Barrezueta, L; Rodríguez-Fanjul, J; Vivanco-Allende, A; Rodríguez-Campoy, P; Vega-Puyal, L; Gil-Antón, J; Sánchez-Martínez, I; Pérez-Quevedo, O; Muñoyerro-Sesmero, M; de Suso, LBG; Mayordomo-Colunga, J. *Lung Ultrasound Score, Severity of Acute Lung Disease, and Prolonged Mechanical Ventilation in Children*. AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE. 2025; 211(1) 103-112. IF: 21.7. Quartile: 1. (Article).

- Cid, JLH. *Ultrasound for monitoring intraosseous cannulation*. ANALES DE PEDIATRIA. 2025; 103(5). IF: 2.6. Quartile: 1. (Editorial Material).

- Liu, J; Inchingolo, R; Suryawanshi, P; Guo, BB; Kurepa, D; Cortés, RG; Yan, W; Chi, JH; Acosta, CM; Jagla, M; Sharma, D; Sorantin, E; Hsieh, KS; Graziani, G; Malta, B; Woods, P; Meng, Q; You, CM; Kruczek, P; Kneyber, M; Buda, N; Smargiassi, A; Lovrenski, J; Ren, XL; Guo, YL; Qiu, RX; Razak, A; Feletti, F. *Guidelines for the use of lung ultrasound to optimise the management of neonatal respiratory distress: international expert consensus*. BMC MEDICINE. 2025; 23(1). IF: 8.7. Quartile: 1. (Review).

- García-San Prudencio, M; Manrique, G; Cieza, R; Corraliza, C; Arias, P; Medina, E; López-Herce, J; Mencía, S. *Relationship of Melatonin Levels in Blood and Urine with Sleep Quality in Children Admitted to Pediatric Intensive Care Unit*. CHILDREN-BASEL. 2025; 12(8). IF: 2.6. Quartile: 1. (Article).

- Pérez-Moreno, J; Bernaldo-de-Quirós, E; Hernani, MT; Alvarez-Calatayud, G; Perezábad, L; Sánchez, CS; Correa-Rocha, R. *The Immunological Mechanisms Involved in the Pathophysiology of Allergic Proctocolitis*. CHILDREN-BASEL. 2025; 12(6). IF: 2.6. Quartile: 1. (Article).

- García-Orueta, G; Butragueño-Laiseca, L; Santiago, MJ; Parra-Guillén, ZP; Troconiz, IF. *Design Optimization for Developing Population Pharmacokinetic Models in Critically Ill Children: Application to Teicoplanin, Piperacillin and Meropenem*. CLINICAL PHARMACOKINETICS. 2025; 65(2) 257-267. IF: 4. Quartile: 2. (Article).

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# *7.05B. Physiological and therapeutic medical-surgical aspects of respiratory diseases*

Group Directors**: Luis Puente Maestu and Ignacio Garutti Martínez**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

It is a multidisciplinary group made up of anaesthesiologists, thoracic surgeons and pulmonologists, with an interest in expanding the knowledge of respiratory physiology and biology, in the epidemiology of respiratory diseases as well as in the development of new pharmacological and non-pharmacological treatments for respiratory diseases.

## *Research lines*

**Axis 1: Apneic oxygenation in one-lung ventilation**

**Axis 2: Epidemiology of respiratory diseases**

L1: Historical evolution of hospital admissions due to respiratory diseases CMBD analysis

**Axis 3: Respiratory Sleep Disorders**

L1: Obesity-Hypoventilation Syndrome

L2: Sleep Disorders and Heart Disease

**Axis 4: Development of new drugs or new indications**

L1: Development of biological products for the prevention of COPD exacerbations

L2: Development of P2X3 receptor inhibitors for treatment of cough Gefapixant (MK-7264-042 and 043) and Eliapixant

L3: Development of antibiotic medication for IPF

L4: Development of biologic medication for eosinophilic asthma

L5: Development of anti-inflammatory drugs for the treatment of bronchiectasis.

**Axis 5: Treatment of COPD patients with cardiopathy**

L1: Impact of respiratory drugs on cardiac function in patients with COPD and low ejection fraction

**Axis 6: Monitoring of patients with Sleep Disordered Breathing and respiratory failure**

L1: Mechanical simulation of respiratory therapies and their effect on lung dynamics

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALGABA | JARAMILLO | JOSE JUAN | Male | R1 | First Stage Researcher |
| BENEDETTI | | PAOLA ANTONELLA | Female | R2 | Recognised Researcher |
| BROGLY | | NICOLAS | Male | R4 | Leading Researcher |
| CABALLERO | SEGURA | FRANCISCO JOSE | Male | R1 | First Stage Researcher |
| CALVO | GARCIA | CARLOS ALBERTO | Male | R1 | First Stage Researcher |
| CASANOVA | BAREA | JAVIER | Male | R2 | Recognised Researcher |
| CEREZO | LAJAS | ALICIA | Female | R1 | First Stage Researcher |
| CRUZ | PARDOS | PATRICIA | Female | R3 | Established Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| DE LA FUENTE | TORNERO | ELENA | Female | R1 | First Stage Researcher |
| DE LA GALA | GARCÍA | FRANCISCO ANDRÉS | Male | R3 | Established Researcher |
| DE MIGUEL | DIEZ | JAVIER | Male | R4 | Leading Researcher |
| FUENTES | ALONSO | MARTA | Female | R2 | Recognised Researcher |
| GALLO | GONZALEZ | VIRGINIA | Female | R1 | First Stage Researcher |
| GARCIA | DE PEDRO | JULIA | Female | R3 | Established Researcher |
| GARCIA | HERNANDEZ | SANTIAGO | Male | R1 | First Stage Researcher |
| GARCIA | LOPEZ | JOSE JAVIER | Male | R3 | Established Researcher |
| GARUTTI | MARTÍNEZ | IGNACIO | Male | R4 | Leading Researcher |
| GIRON | MATUTE | WALTHER IVAN | Male | R3 | Established Researcher |
| GOMEZ | GARCIA | MARIA TERESA | Female | R3 | Established Researcher |
| GOMEZ | GARCIA | ROSA MARIA | Female | R1 | First Stage Researcher |
| GOMEZ | SACRISTAN | ANGELA | Female | R3 | Established Researcher |
| GONZÁLEZ | CASAURRÁN | GUILLERMO | Male | R2 | Recognised Researcher |
| GONZALEZ | MORAGA | FRANCISCO JOSE | Male | R2 | Recognised Researcher |
| HERNANDEZ | YAÑEZ | MARGARITA | Female | R1 | First Stage Researcher |
| HUERTA | MARTINEZ | LUIS JAVIER | Male | R3 | Established Researcher |
| LATIFF | ESSA | AILAF | Female | R1 | First Stage Researcher |
| LOPEZ | GIL | ELENA | Female | R1 | First Stage Researcher |
| LÓPEZ | MARTÍN | SOLEDAD | Female | R4 | Leading Researcher |
| LOPEZ | PADILLA | DANIEL EDUARDO | Male | R4 | Leading Researcher |
| MARANILLO | ALCAIDE | EVA | Female | R3 | Established Researcher |
| MARIN | AGUILERA | ROSA ISABEL | Female | R1 | First Stage Researcher |
| MARTINEZ | GASCUEÑA | DAVID | Male | R1 | First Stage Researcher |
| OJEDA | CASTILLEJO | ELENA | Female | R2 | Recognised Researcher |
| OLIVA | RAMOS | ALICIA | Female | R2 | Recognised Researcher |
| PAREDES | ROYANO | SERGIO | Male | R3 | Established Researcher |
| PEDRAZA | SERRANO | FERNANDO | Male | R2 | Recognised Researcher |
| PIÑEIRO | OTERO | PATRICIA | Female | R3 | Established Researcher |
| PUENTE | MAESTU | LUIS | Male | R4 | Leading Researcher |
| PUIG | RAMOS | ÁNGELA | Female | R2 | Recognised Researcher |
| RANCAN | | LISA | Female | R3 | Established Researcher |
| REYES | FIERRO | MARIA ALMUDENA | Female | R3 | Established Researcher |
| ROJAS | MORENO-TOME | ROSA MARIA | Female | R1 | First Stage Researcher |
| SANCHEZ | MUÑOZ | GEMA | Female | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| SANCHEZ | PEDROSA | GUILLERMO | Male | R2 | Recognised Researcher |
| SIMÓN | ADIEGO | CARLOS MARIA | Male | R4 | Leading Researcher |
| TERAN | MARCOS | RAQUEL | Female | R1 | First Stage Researcher |
| VARA | AMEIGEIRAS | ELENA | Female | R4 | Leading Researcher |
| VARGAS | ESPINAL | JULIO CESAR | Male | R1 | First Stage Researcher |
| ZICHEN | | JI | Male | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 2 | | | |
| **Regional** | | | | |

TITLE: **PRograma de Optimización de uso de Medicación Inhalada (Proyecto PROMI)** (PI23/01888)
DIRECTOR: LOPEZ PADILLA, DANIEL EDUARDO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Impacto de la aplicación de flujo de oxígeno continuo, con o sin presión en la vía aérea, en el pulmón no dependiente durante la ventilación unipulmonar sobre las complicaciones postoperatorias en cirugía de resección pulmonar** (PI23/00386)
DIRECTOR: DE LA GALA GARCÍA, FRANCISCO ANDRÉS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Hernández García, Santiago* | *Predictors of response to interventional techniques in chronic low back pain (preti-dol). Development of a predictive model. Prospective clinical data collection study.* | *de la Gala, Francisco; López, Esther; Garutti, Ignacio* | *UCM* | *11/03/2025* |
| *Ph Thesis* | *Alonso Chico, Ángel* | *Metalloproteinase levels in bronchoalveolar lavage fluid after one-lung ventilation in lung resection surgery. Prognostic value and association with* | *de la Gala, Francisco; Vara, Elena; Garutti, Ignacio* | *UCM* | *02/09/2025* |

| | | | | | |
|---|---|---|---|---|---|
| | | *ventilatory alterations and postoperative pulmonary complications* | | | |

## *Publications* *Total Impact Factor: **198***

| | Nº | IF |
|---|---|---|
| Own publications | 25 | 114 |
| Joint publications | 20 | 84 |
| First decile publications | 9 | 82.2 |
| First quartile publications | 23 | 138.4 |
| Second quartile publications | 15 | 49.3 |
| Third quartile publications | 5 | 8.6 |
| Fourth quartile publications | 2 | 1.7 |
| Nonindexed publications / No IF | 17 | - |
| **Total publications (including those without IF)** | **62** | **198** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Ferrando-Ortolá C. *Postoperative pulmonary complications in emergency abdominal surgery. A prospective international cohort study.* ANAESTHESIA CRITICAL CARE & PAIN MEDICINE. 2025; 44(5) 101560-101560. IF: 5.4. Quartile: 1. (Article).
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- De la Gala, F; de la Fuente, E; Piñeiro, P; Reyes, A; Duque, P; Sánchez-Pedrosa, G; Martínez-Gascueña, D; Vara, E; Rancan, L; Simón, C; Hortal, J; Garutti, I. *Effect of intraoperative paravertebral or intravenous lidocaine infusion on postoperative complications and inflammation after lung resection surgery: a randomised controlled trial*. BRITISH JOURNAL OF ANAESTHESIA. 2025; 135(5) 1297-1306. IF: 10.3. Quartile: 1. (Article).
- de la Fuente, E; Morgado, O; De la Gala, F; Vara, E; Zuluaga, P; Reyes, A; Simón, CM; Hortal, J; Piñeiro, P; Garutti, I. *Exploring the Relationship Between Perioperative Inflammatory Biomarkers and Oncological Recurrence in Patients Undergoing Pulmonary Cancer Surgery*. CANCERS. 2025; 17(7). IF: 4.8. Quartile: 2. (Article).
- de la Fuente, E; De la Gala, F; Hortal, J; Simón, C; Reyes, A; Rancan, L; Calvo, A; Puig, A; Vara, E; Bellón, JM; Piñeiro, P; Garutti, I. *Impact of Intraoperative Lidocaine During Oncologic Lung Resection on Long-Term Outcomes in Primary Lung Cancer: A Post Hoc Analysis of a Randomized Controlled Trial*. CANCERS. 2025; 17(17). IF: 4.8. Quartile: 2. (Article).
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# *7.06 Regenerative medicine in plastic surgery*

Group Directors: **José María Lasso Vázquez**

Organisms involved: **HGUGM**

**Associated Group**

## *Research lines*

**Axis 1: Cell Therapy**

L1: Composite tissue transplantation

L2: Peripheral nerve regeneration

**Axis 2: Breast reconstruction**

L1: Prosthetic reconstruction

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| CAMARA | PEREZ | JUAN | Male | | Sin Definir |
| LASSO | VÁZQUEZ | JOSÉ MARIA | Male | | Sin Definir |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |

| | | | | |
|---|---|---|---|---|
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **7,8***

| | Nº | IF |
|---|---|---|
| Own publications | 2 | 6 |
| Joint publications | 1 | 1.8 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0 |
| Second quartile publications | 3 | 7.8 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **3** | **7.8** |

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- Chen, Y; Quílez, MO; Lasso, JM. *L-shaped Design of the Thenar Eminence Perforator Free Flap for Total Reconstruction of the Nasal Ala*. PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN. 2025; 13(4). IF: 1.9. Quartile: 2. (Article).

# *7.07 Experimental kidney transplantation*

Group Director**: Enrique Lledó García**

Organisms involved: **HGUGM**

**Emerging Group**

## *Description of the research group*

Urological surgical group with 2 fields of dedication: experimental renal preservation and complex urethral and genital reconstructive surgery, peyronie's disease.

## *Research lines*

**Axis 1: Experimental Renal**

L1: Ischaemia-Reperfusion.

**Axis 2: Complex urethral reconstructive surgery**

L1: Treatment of anatomical and functional alterations of the urethra

**Axis 3: Complex genital reconstructive surgery**

L1: Treatment of anatomical and functional alterations of the penis

L2: Treatment of anatomical and functional uro-digestive and uro-gynaecological disorders

## Group members

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ARAGON | CHAMIZO | JUAN | Male | | Sin Definir |
| CANCHO | GIL | MARIA JOSE | Female | | Sin Definir |
| CAÑO | VELASCO | JORGE | Male | | Sin Definir |
| ESCRIBANO | PATIÑO | GREGORIO | Male | | Sin Definir |
| GONZALEZ | GARCIA | FRANCISCO JAVIER | Male | | Sin Definir |
| HERNÁNDEZ | FERNÁNDEZ | CARLOS | Male | | Sin Definir |
| HERRANZ | AMO | FELIPE BERNARDO | Male | | Sin Definir |
| JARA | RASCON | JOSE | Male | | Sin Definir |
| LLEDO | GARCIA | ENRIQUE | Male | | Sin Definir |
| OGAYA | PINIES | GABRIEL | Male | | Sin Definir |
| RODRIGUEZ | FERNANDEZ | Mª ELENA | Female | | Sin Definir |
| SUBIRA | RIOS | DAVID | Male | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## Publications

*Total Impact Factor: **50,8***

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 6.4 |
| Joint publications | 14 | 44.4 |
| First decile publications | 0 | - |
| First quartile publications | 7 | 29.2 |
| Second quartile publications | 5 | 12.8 |
| Third quartile publications | 5 | 8.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **17** | **50.8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Fullana, SA; Velasco, JC; Puentedura, AL; Pujol, LP; Monfort, VB; Gárate, MM; Subiela, JD; Gallioli, A; Moschini, M; Pichler, R; Del Giudice, F; Marcq, G; Teoh, J; Soria, F; Mertens, L; Krajewski, W; Laukhtina, E; Moril, K; Pradere, B; Afferi, L; Tully, KH; Albisinni, S; Abu Ghanem, Y; d'Andrea, D; Mari, A; Acosta, EA; Contieri, R; Cimadamore, A; Grobet-Jeandin, E; Rivas, JG; Fernández, CH. *Diagnostic accuracy of Bladder EpiCheck for upper tract urothelial carcinoma: A meta-analysis*. ACTAS UROLOGICAS ESPANOLAS. 2025; 49(4). IF: 1.7. Quartile: 3. (Article).

- Pichlera, R; van Creija, NCH; Subielab, JD; Cimadamorec, A; Caño-Velascod, J; Tullye, KH; Mori, K; Contieri, R; Afferi, L; Marij, A; Soriak, F; Del Giudice, F; D'Eliam, C; Mayrn, R; Mertensg, LS; Pyrgidiso, N; Moschinip, M; Galliolii, A. *Biological and therapeutic implications of FGFR alterations in urothelial cancer: A systematic review from non-muscle-invasive to metastatic disease*. ACTAS UROLOGICAS ESPANOLAS. 2025; 49(5). IF: 1.7. Quartile: 3. (Review).

- Acosta, EA; Pelari-Mici, L; Luis, GC; Balanza, CV; Zapatero, A; Romero-Laorden, N; Diez, PT; Caño-Velasco, J; Guerrero-Ramos, F; Moschini, M; Krajewski, W; Del Giudice, F; Soria, F; Laukhtina, E; Mertens, L; Pichler, R; Mori, K; D'Andrea, D; Mari, A; Marcq, G; Teoh, J; Afferi, L; Albisinni, S; Pradere, B; Gallioli, A; Subiela, JD; Manso, LS. *The impact of a multidisciplinary approach on treatment decisions and outcomes in urothelial carcinoma: A systematic review*. ACTAS UROLOGICAS ESPANOLAS. 2025; 49(5). IF: 1.7. Quartile: 3. (Review).

- Moncada, I; Krishnappa, P; Martinez-Salamanca, JI; Palma-Hendges, LP; Gonzalez-Garcia, FJ; Hernandez-Fernandez, C; Lledo-Garcia, E. *Excellent long-term device survival of inflatable penile prosthesis over 27 years*. ASIAN JOURNAL OF ANDROLOGY. 2025. IF: 3. Quartile: 2. (Article).

- Scilipoti, P; Longoni, M; de Angelis, M; Zaurito, P; Slusarczyk, A; Soria, F; Pradere, B; Krajewski, W; D'Andrea, D; Mari, A; Del Giudice, F; Pichler, R; Subiela, JD; Marcq, G; Gallioli, A; Afferi, L; Mastroianni, R; Simone, G; Albisinni, S; Mertens, LS; Laukhtina, E; Oberneder, K; Elena, JLR; Aranda, J; Puentedura, AL; Velasco, JC; Contieri, R; Hurle, R; Mori, K; Radziszewski, P; Shariat, SF; Gontero, P; Necchi, A; Rouprêt, M; Montorsi, F; Salonia, A; Briganti, A; Moschini, M; EAU YAU; Urothelial Carcinoma Working Grp. *Outcomes of BCG vs upfront radical cystectomy for high-risk non-muscle-invasive bladder cancer*. BJU INTERNATIONAL. 2025; 136(1) 47-54. IF: 4.1. Quartile: 1. (Article).

- Longoni, M; Scilipoti, P; De Angelis, M; Zaurito, P; Tremolada, G; Santangelo, A; Simone, G; Mastroianni, R; Lonati, C; Zamboni, S; Suardi, N; Marcq, G; Szostek, A; Velasco, JC; Puentedura, AL; Subiela, JD; Duran, PD; Slusarczyk, A; Karakiewicz, PI; Pradere, B; Soria, F; Gontero, P; Roupret, M; Montorsi, F; Salonia, A; Briganti, A; Moschini, M. *Contemporary outcomes in non-muscle-invasive bladder cancer: a large European multicentre study*. BJU INTERNATIONAL. 2025. IF: 4.1. Quartile: 1. (Article).

- Subiela, JD; de la Parra, I; Taborda, J; Medina, AA; Pichler, R; Krajewski, W; Ojeda, CM; Mardomingo, AF; Durán, PD; Pérez, EL; González-Padilla, DA; Aumatell, J; Mori, K; Scilipoti, P; Longoni, M; de Angelis, M; Caño-Velasco, J; Puentedura, AL; Pujol, LP; Contieri, R; Gallioli, A; Tukiendorf, A; D'Andrea, D; Teoh, JY; Afferi, L; Del Giudice, F; Marcq, G; Albisinni, S; Soria, F; Mertens, LS; Laukhtina, E; Tully, K; Mari, A; Guerrero-Ramos, F; Alvarez-Maestro, M; Martín, CC; Melendres, FA; Buisan, O; López-González, JA; Dominguez-Escrig, JL; Aranda, J; Elena, JLR; Basile, G; Santos, VGD; Moschini, M; Pradere, B; Acosta, EA; Palacio, FL; Puig, AC; Gajate, P; Saiz, A; Gontero, P; Revilla, FJB. *Defining statistical cure in patients with T1 high-grade non-muscle-invasive bladder carcinoma treated with BCG immunotherapy*. BJU INTERNATIONAL. 2025. IF: 4.1. Quartile: 1. (Article).

- Rubio-Briones, J; Ramos, FG; Sánchez, AM; Abadia, IB; Rodriguez, RM; Alcaraz, A; Legaz, MM; Lozano, F; Martin, MA; Cardo, AL; Rodriguez, VG; Velasco, JC; Liesa, MS; Pareja, CF; Ortiz, RE; de Torres, ID; Zalabardo, DS; Esquinas, C; Mengual, L; Borque-Fernando, A; Escaño, LME; Redorta, JP; Witjes, F; Piñeiro, LM. *External validation of the Uromonitor®-version 2 urine test as a biomarker for optimisation of non-muscle-invasive bladder cancer management*. BJU INTERNATIONAL. 2025. IF: 4.1. Quartile: 1. (Article).

- Tresh, AS; Del Giudice, F; Li, SF; Basran, S; De Berardinis, E; Carino, D; Santarelli, V; Rocco, B; Shighinolfi, MC; Mayr, R; Ferro, M; Autorino, R; Bignante, G; Crocetto, F; Barone, B; Pichler, R; Subiela, JD; Velasco, JC; Moschini, M; Mari, A; Gallioli, A; Soria, F; Albisinni, S; Krajewski, W; Laszkiewicz, J; Nowak, L; Szydelko, T; Challacombe, B; Nair, R; Chung, BI. *The impact of preoperative venous thromboembolism on patients undergoing TURBT: Perioperative outcomes and healthcare costs from US insurance claims data*. BJUI COMPASS. 2025; 6(1). IF: 2. Quartile: 3. (Article).

- Sánchez-Rodríguez, M; Ogaya, G; Alsourani, A; Colombari, RC; Kayser, S; Tejedor, P. *Robotic multiquadrant surgery for synchronous neoplasms: The value of a multidisciplinary approach-A video vignette*. COLORECTAL DISEASE. 2025; 27(2). IF: 2.3. Quartile: 2. (Editorial Material).

- Faba OR; Boissier R; Budde K; Figueiredo A; Hevia V; García EL; Regele H; Zakri RH; Olsburgh J; Bezuidenhout C; Breda A. *European Association of Urology Guidelines on Renal Transplantation: Update 2024.* EUROPEAN UROLOGY FOCUS. 2025; 11(2) 365-373. IF: 6.3. Quartile: 1. (Article).

- Hernandez, C; Martinez-Salamanca, JI; Maiolino, G; Miñana, B; Gomez-Veiga, F. *Focal therapy in prostate cancer and advances in the use of androgen blockade*. FRONTIERS IN UROLOGY. 2025; 5. IF: 1.7. Quartile: 3. (Review).

- Krishnappa, P; Matippa, P; Fraile-Poblador, A; Lledo-Garcia, E; Moncada, I. *Penile length preservation in penile prosthesis placement: tips & tricks*. INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH. 2025. IF: 2.5. Quartile: 2. (Review).

- Van Renterghem, K; De Bruyn, H; Yebes, A; Calopedos, R; Deho, F; Torremade, J; D'Anna, M; Bettocchi, C; Gomez, BG; Caris, C; Witjes, W; Moncada, I; Ralph, D; Albersen, M; Pascual, EF; Waterloos, M; D'hulst, P; de Win, G; Hess, J; Osmonov, D; Martinez-Salamanca, JI; Sanromà, A; Romero-Otero, J; Fiorillo, A; Campos-Juanatey, F; Giadrosich, BE; Garcia, EL; Lafuente, A; Gaya, MR; Carnicelli, D; Colombo, F; Pescatori, E; Falcone, M; Oliveira, P; Bjartell, A; Koskela, LR. *Early complications after penile prosthesis surgery: findings from the PHOENIX multicenter registry*. INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH. 2025. IF: 2.5. Quartile: 2. (Article).

- Mosqueda, AN; Maiolino, G; Sendarrubias, GMG; Díaz-Benito, VJ; Fernández-Pola, EC; Martín, CO; Córdoba, MGD; Fernández, EMF; García, EL; Martínez-Salamanca, JI; Fernández-Pascual, E. *Electrical stimulation for erectile dysfunction: a systematic review and meta-analysis of RCTs*. INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH. 2025. IF: 2.5. Quartile: 2. (Review).

- Polanco-Pujol, L; Caño-Velasco, J; Pedrosa, RMD; Fernandes, C; López-Fando, L. *Critical Care and Surgical Management of Vascular Complications in Minimally Invasive Urological Reconstructive Surgery*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(19). IF: 3.3. Quartile: 1. (Review).

- Vianna, R; Morsi, M; Munoz-Abraham, AS; González, J; Ciancio, G. *Robotic-assisted simultaneous kidney-pancreas transplantation (RASPKT) without hand assistance: A retrospective cohort study showing a paradigm shift in minimally invasive transplant surgery*. SURGERY. 2025; 186. IF: 3.2. Quartile: 1. (Article).

# *7.08 Paediatric endocrinology*

Group Director**: Marina Mora Sitja and María Sanz Fernández**

Organisms involved: **HGUGM**

**Associated Group**

## *Description of the research group*

Main research group of Congenital Adrenal Hyperplasia and Congenital Hypothyroidism, congenital pathologies for which HGUGM is a reference centre in the Community of Madrid

## *Research lines*

L1: Hormone therapy
L2: Congenital Hypothyroidism
L3: Congenital Adrenal Hyperplasia
L4: Psychiatric Diseases in patients with type 1 DM
L5: Endocrinologic Diseases in patients with Oncologic Disease
L6: Endocrinologic Diseases in patients with Immunological Disease

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| MANZANO | RODRIGUEZ | GEMA | Female | R1 | First Stage Researcher |
| MORA | SITJA | MARINA | Female | R1 | First Stage Researcher |
| RODRIGUEZ | SANCHEZ | AMPARO | Female | R2 | Recognised Researcher |
| SANZ | FERNANDEZ | MARIA | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

*Publications* *Total Impact Factor: **0***

| | Nº | IF |
|---|---|---|
| Own publications | - | - |
| Joint publications | - | - |
| First decile publications | - | - |
| First quartile publications | - | - |
| Second quartile publications | - | - |
| Third quartile publications | - | - |
| Fourth quartile publications | - | - |
| Nonindexed publications / No IF | - | - |
| **Total publications (including those without IF)** | - | - |

# *7.10 Regeneration and biomaterials in musculoskeletal diseases*

Group Director**: Francisco Javier Vaquero Martín**

Organisms involved: **HGUGM-UCM**

**Emerging Group**

## *Description of the research group*

The group is composed mainly (although not exclusively) of specialists in Orthopedic Surgery and Traumatology from our and other national and foreign hospitals with the support of at least three universities in various projects (San Pablo CEU, Universidad Juan Carlos I, and ICAI, all of which are in Madrid). In some of the mentioned lines of research (below). work had already begun, thus confirming the group's viability and its role in promoting projects and doctoral theses.

There are currently 12 active members participating in some of these lines.

## *Research lines*

**Axis 1: Mesenchymal cells in TOC**

L1: MSC infusion in hip necrosis.

L2: Influence of mechanical factors on cultures.

**Axis 2: Biomaterials**

L1: Bone cements with antibiotics.

L2: Microencapsulation of antibiotics.

**Axis 3: 3D printing**

L1: Biomodels and customised surgical guides.

L2: Custom-made implants.

L3: AR/VR surgical navigation

L4: POC (Point-Of-Care) fabrication

**Axis 4: Eco-guided surgery**

L1: Ultra-MIS surgery on the upper limb.

L2: Ultrasound-guided pelvic surgery

**Axis 5: Cytokines and Biomarkers in Osteoarthritis**

L1: Comparison of Biomarkers in Osteoarthritis and ACL Tears

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ABURTO | BERNARDO | MIKEL | Male | R1 | First Stage Researcher |
| ARNAL | BURRO | JUAN MANUEL | Male | R2 | Recognised Researcher |
| CALVO | HARO | JOSE ANTONIO | Male | R4 | Leading Researcher |
| CARBO | LASO | ESTHER | Female | R3 | Established Researcher |
| CUBO | MATEO | NIEVES | Female | R3 | Established Researcher |
| FERNÁNDEZ | FERNÁNDEZ | TANYA | Female | R1 | First Stage Researcher |
| FLORES | GALLARDO | JAIME | Male | Sin Definir | |
| FORRIOL | CAMPOS | FRANCISCO | Male | R3 | Established Researcher |
| GUTIERREZ | VENTURINI | ALESSANDRO | Male | Sin Definir | |
| NARBONA | CARCELES | FRANCISCO JAVIER | Male | R3 | Established Researcher |
| PÉREZ | MAÑANES | RUBÉN | Male | R4 | Leading Researcher |
| SANZ | RUIZ | PABLO | Male | R3 | Established Researcher |
| VAQUERO | MARTÍN | FRANCISCO JAVIER | Male | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | 5 | | | |
| **Regional** | | | | |

TITLE: **Osteoteca 3D. Desarrollo de una herramienta de planificación quirúrgica digital para el trasplante de hueso y tejido en cirugía reconstructiva y oncológica** (DTS24/00107)
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Transformación digital en el tratamiento oncológico. Inteligencia artificial, impresión 3D y realidad aumentada para una medicina personalizada. (IAR3D-ONC)** (TED2021-132200B-I00)
DIRECTOR: CALVO HARO, JOSE ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: MINISTERIO DE CIENCIA E INNOVACIÓN
START DATE: 01/12/2022
END DATE: 31/05/2025

TITLE: **Estudio preclínico in vitro para valorar los efectos osteogénicos y osteoanabólicos del ácido tranexámico y su correlación con los resultados obtenidos de su uso en clínica.** (FMM25/02)
DIRECTOR: VAQUERO MARTÍN, FRANCISCO JAVIER
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 01/09/2025
END DATE: 31/08/2026

TITLE: **Rezafungina en el tratamiento local de la infección periprotésica fúngica. Nuevas estrategias ante un desafío creciente** (FMM24/01)
DIRECTOR: SANZ RUIZ, PABLO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN MUTUA MADRILEÑA
START DATE: 17/09/2024
END DATE: 16/09/2027

TITLE: **Nuevos horizontes en infección periprotésica: modelo in vitro de elución de rezafungina en cemento óseo y eficacia sobre biofilm estático y dinámico de candida** (FS24/01)
DIRECTOR: SANZ RUIZ, PABLO
PROJECT TYPE: Research project
FUNDING BODY: FUNDACIÓN SECOT
START DATE: 04/12/2024
END DATE: 03/12/2026

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Implantes personalizados con actividad antimicrobiana para prevenir y tratar infecciones óseas** | P202230220 | FIBHGM, UCM | Pablo Sanz, Almudena Ribed, Dolores Remedios, María Paloma Ballesteros, Elena María González, Luciano de León, Iván Yuste |

Transfered Intelectual Property 31/12/2025

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|
| *Ph Thesis* | *Márquez Gómez, Miguel* | *In vitro and animal experimental model evaluation of the effectiveness of different antiseptic irrigation solutions for biofilm eradication in prosthetic infection surgery* | *Sanz, Pablo; Guembe, María; Vaquero, Javier* | *UCM* | *01/04/2025* |
| *Ph Thesis* | *Benjumea Carrasco, Antonio* | *Effects of tranexamic acid on the growth of microorganisms associated with periprosthetic infection* | *Chana, Francisco; Guembe, María; Vaquero Martín, Francisco Javier* | *UCM* | *14/02/2025* |

| | Nº | IF |
|---|---|---|
| Own publications | 4 | 15.1 |
| Joint publications | 13 | 57.5 |
| First decile publications | 4 | 20.8 |
| First quartile publications | 12 | 55.1 |
| Second quartile publications | 4 | 16.2 |
| Third quartile publications | 1 | 1.3 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **21** | **72.6** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Fernández-Fernández, T; Orozco-Martínez, J; de Gregorio-Bermejo, C; Aguilera-Jiménez, E; Iribar-Zabala, A; Mediavilla-Santos, L; Pascau, J; García-Sevilla, M; Pérez-Mañanes, R; Calvo-Haro, JA. *Feasibility and Accuracy of a Dual-Function AR-Guided System for PSI Positioning and Osteotomy Execution in Pelvic Tumour Surgery: A Cadaveric Study*. BIOENGINEERING-BASEL. 2025; 12(8). IF: 4.4. Quartile: 2. (Article).

- Jeys LM; Morris GV; Kurisunkal VJ; Botello E; Boyle RA; Ebeid W; Houdek MT; Puri A; Ruggieri P; Brennan B; Laitinen MK; Abad Repiso S; Abdelbary H; Abiad Mejia A; Abood AA; Abril Martin JC; Abudu A; Abu Elhamd A; Acosta M; Ae K; Agarwal M; Ajit Singh V; Akiyama T; Alshaygy I; Albergo JI; Alexander J; Alfaro PA; Alpan B; Amaya-Valero J; Anderson M; Andreou D; Annabell L; Anthony C; Aoude A; Arteagoitia-Colino I; Asavamongkolkul A; Aston W; Asua Mentxaka L; Azzopardi C; Baad-Hansen T; Badr IT; Baixauli-Garcia F; Baker G; Balach T; Baldi GG; Barry J; Basile G; Bastoni S; Basuki M; Bauer H; Bayliss L; Becker RG; Bedi A; Benevenia J; Bengoa F; Bergh P; Bergovec M; Bernthal N; Binitie O; Boddie D; Boffano M; Bonilla Huertas P; Borgognoni AB; Botchu R; Bramer J; Brar R; Branford-White H; Broekhuis D; Broida SE; Budny T; Burke ZD; Cabrolier J; Calvo-Haro JA; Calvo Tapies JR; Cardoso R; Carey Smith R; Carvallo PI; Casales Fresenga N; Casanova JM; Ceballos O; Cebrian Parra JL; Chacon Cartaya S; Chan CM; Cho YJ; Choong P; Chung YG; Ciechanowicz D; Clara-Altamirano MA; Clever D; Colina SM; Consuegra L; Couch C; Cribb G; Cuervo C; Cusick LA; Dadia S; Dagher T; Dammerer D; Davies M; Davies N; de la Rosa Martino LP; de Santos de la Fuente FJ; de Vaal M; Deckers C; Delgado Obando J; Deo S; Deventer N; Di Bella C; Domson G; Donati DM; Dorleijn DM; Du Toit J; Dunne D; Duran Ciarrochi R; Ekman E; El Ghoneimy AM; Endo M; Eralp L; Etaiwi M; Evans S; Evrard R; Eward W; Farese A; Ferguson PC; Ferreira Cardoso PF; Fiorenza F; Flint M; Flores H; Freitas J; Fuchs B; Fujiwara T; Funovics PT; Galli Serra M; Gamie Z; Garces-Zarzalejo C; Gazendam A; Gebert C; et al. *Identifying consensus and areas for future research in chondrosarcoma : a report from the Birmingham Orthopaedic Oncology Meeting.* BONE & JOINT JOURNAL. 2025; 107-B(2) 246-252. IF: 4.8. Quartile: 1. (Article).

- Jeys L; Botello E; Boyle RA; Ebeid W; Houdek MT; Kurisunkal VJ; Morgan-Jones R; Morris GV; Puri A; Ruggieri P; Laitinen MK; Abad Repiso S; Abdelbary H; Abiad Mejia A; Abood AA; Abou-Nouar G; Abril Martin JC; Abu Elhamd A; Abudu A; Acosta M; Ae K; Agarwal M; Ajit Singh V; Akiyama T; Albergo JI; Alexander J; Alfaro PA; Alpan B; Alshaygy I; Amaya-Valero J; Anderson M; Andreou D; Annabell L; Anthony C; Aoude A; Arteagoitia-Colino I; Asavamongkolkul A; Aston W; Asua Mentxaka L; Azzopardi C; Baad-Hansen T; Badr IT; Baixauli-Garcia F; Baker G; Balach T; Baldi GG; Barry J; Basile G; Bastoni S; Basuki MH; Bauer H; Bayliss L; Becker RG; Bedi A; Benevenia J; Bengoa F; Bergh P; Bergovec M; Bernthal N; Binitie O; Boddie D; Boffano M; Bonilla Huertas P; Borgognoni AB; Botchu R; Bramer J; Branford-White H; Brar R; Broekhuis D; Broida SE; Budny T; Burke ZD; Cabrolier J; Calvo Tapies JR; Calvo-Haro JA; Campanacci D; Cardoso R; Carey Smith R; Carvallo PI; Casales Fresenga N; Casanova JM; Ceballos O; Cebrian Parra JL; Certain LK; Chacon Cartaya S; Chan CM; Cho YJ; Choong P; Chung YG; Ciechanowicz D; Clara-Altamirano MA; Clever D; Colina SM; Consuegra L; Couch C; Cribb G; Cuervo C; Cusick LA; Dadia S; Dagher T; Dammerer D; Davies M; Davies N; de la Rosa Martino LP; de Santos de la Fuente FJ; de Vaal M; Deckers C; et al. *A modified Delphi consensus on periprosthetic infection in orthopaedic oncology : a report from the Birmingham Orthopaedic Oncology Meeting (BOOM).* BONE & JOINT JOURNAL. 2025; 107-B(12) 1352-1359. IF: 4.8. Quartile: 1. (Article).

- Szymski D; Rupp M; Fontalis A; Marais LC; Walter N; Alt V; Clauss M; Carlo Ferrari M; Giannitsioti E; Glehr M; Grenho A; Madjarevic T; Moojen DJ; Huotari K; Karaismailoglu B; Osinga R; Neyt J; Sallai I; Sambri A; Sanz-Ruiz P; Sousa R;

Stefansdottir A; Trebse R; Vaznaisiene D; Westberg M; Wagner C. *The health-economic burden of hip and knee periprosthetic joint infections in Europe : a comprehensive analysis following primary arthroplasty.* BONE & JOINT OPEN. 2025; 6(3) 298-311. IF: 3.3. Quartile: 1. (Article).

- Zamora T; Botello E; Jenkins T; Jeys C; Laitinen M; Puri A; Jeys L. *Global and regional disparities in access to specialist sarcoma services.* BONE & JOINT OPEN. 2025; 6(4) 425-431. IF: 3.3. Quartile: 1. (Article).

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- Fraval A; Baeza-Oliete J; Bartosz P; Velázquez Moreno JD; Hube R; Huo M; Sanz-Ruiz P; Rajgopal A. *What Are the Indications for Using Sleeves and/or Cones During Revision Total Knee Arthroplasty?*. JOURNAL OF ARTHROPLASTY. 2025; 40(2S1) 162-163. IF: 4.4. Quartile: 1. (Article).

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***Other publications:***

- Pérez-Mañanes R; Calvo-Haro JA. *[Translated article] Digital orthopaedic surgery: Benefits and challenges of extended reality and spatial computing.* REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2025; 69(2). (Editorial Material).
- Fernández-Fernández T; Mediavilla-Santos L; Cuervo-Dehesa M; Gómez-Larrén E; Pérez-Mañanes R; Calvo-Haro J. *Can 3D-printed patient-specific instruments improve local control and overall survival in pelvic sarcoma? A clinical validation study.* REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2025; 69(1) 83-90. (Article).
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## 7.12 Emergency medicine

Group Director: **Javier Muñoz González**

Organisms involved: **HGUGM**

**Associated Group**

### *Research lines*

**Axis 1: Epidemiology of mechanical ventilation**
**Axis 2: Mechanical ventilation in acute respiratory failure**
**Axis 3: Vasopressin in shock**
**Axis 4: Intensive care of oncohaematological patients**
**Axis 5: Bioethics of intensive care**

### *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARENAL | LOPEZ | SARA | Female | | Sin Definir |
| BERMEJO | LOPEZ | ESTHER | Female | | Sin Definir |
| CASANOVA | PRIETO | SARA | Female | | Sin Definir |
| CASERO | PALMERO | HENAR | | | Sin Definir |
| CEDEÑO | MORA | JAMIL | Male | | Sin Definir |
| CUI | LIU | CUI JIE | Male | | Sin Definir |
| DE LA CALLE | REVIRIEGO | BRAULIO | Male | | Sin Definir |
| FERNÁNDEZ | ARAUJO | NERIO JOSE | Male | | Sin Definir |
| GARCÍA | OLIVARES | PABLO | Male | | Sin Definir |
| GÓMEZ | GARCÍA | JOSÉ MANUEL | Male | | Sin Definir |
| GUERRERO | SANZ | JOSÉ EUGENIO | Male | | Sin Definir |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| HERNANGOMEZ | VAZQUEZ | ANA | | | Sin Definir |
| JASPE | CODECIDO | ALEXIS | Male | | Sin Definir |
| LAZARO | GONZALEZ | JIMENA | | | Sin Definir |
| MARTINEZ | GONZALEZ | OSCAR | Male | | Sin Definir |
| MATA | MARTINEZ | CARMEN | Female | | Sin Definir |
| MUÑOZ | GONZALEZ | JAVIER | Male | | Sin Definir |
| PAEZ | VARGAS | JUAN JOSE | Male | | Sin Definir |
| PERAL-GUTIERREZ | DE CEBALLOS | JOSE | Male | | Sin Definir |
| RAMIREZ | GONZALEZ | CARLOS RAMIRO | Male | | Sin Definir |
| SANCHO | GONZALEZ | MILAGROS | Female | | Sin Definir |
| SANTA TERESA | ZAMARRO | PATRICIA | Female | | Sin Definir |
| SOTILLO | DÍAZ | JUAN CARLOS | Male | | Sin Definir |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **17,3***

| | Nº | IF |
|---|---|---|
| Own publications | 2 | 3.6 |
| Joint publications | 3 | 13.7 |
| First decile publications | 1 | 8.1 |
| First quartile publications | 1 | 8.1 |
| Second quartile publications | 2 | 5.3 |
| Third quartile publications | 2 | 3.9 |

| | | |
|---|---|---|
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **5** | **17,3** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Pérez-Blanco, A; González-Vilchez, F; González-Costello, J; Royo-Villanova, M; Miñambres, E; Cuenca, JJ; Cánovas, SJ; Garrido, IP; Moreno-González, G; Sbraga, F; García-Quintana, A; Peña, VJ; Portela, FA; Almenar-Bonet, L; Martinez-León, J; Tur, A; Ruiz-Arranz, A; Caravaca-Pérez, P; Sandoval, E; Gómez-Bueno, M; Pérez-Redondo, M; Villar, S; Cobo, M; Nistal, JF; Adsuar-Gómez, A; Peinado, AA; Blázquez-Bermejo, Z; Coll, E; Crespo-Leiro, MG; Cuerpo, G; de la Calle, B; Estébanez, B; Fernández-García, ME; Mosteiro, F; Ponz, I; Sánchez-Rivas, J; Sánchez-Vicario, F; Sobrino, JM; Domínguez-Gil, B. *DCDD heart transplantation with thoraco-abdominal normothermic regional perfusion and static cold storage: The experience in Spain*. AMERICAN JOURNAL OF TRANSPLANTATION. 2025; 25(7) 1526-1539. IF: 8.1. Quartile: 1. (Article).
- de Ceballos, JPG; González, JM. *Serum galactomannan testing after bronchoalveolar lavage in the ICU. Is it complementary and necessary or redundant?*. EMERGENCY AND CRITICAL CARE MEDICINE. 2025; 5(4) 168-169. IF: 1.1. Quartile: 3. (Editorial Material).
- Muñoz, J; Ruíz-Cacho, R; Fernández-Araujo, NJ; Candela, A; Visedo, LC; Muñoz-Visedo, J. *Artificial intelligence in the management of patient-ventilator asynchronies: A scoping review*. HEART & LUNG. 2025; 73 139-152. IF: 2.5. Quartile: 2. (Review).
- Cao, PL; Guo, SJ; Zhang, GL; Zan, X; Wang, JH; Zhang, FL; Muñoz, J; Lucke-Wold, B; Cheng, R. *Brain-computer interface training for multimodal functional recovery in patients with brain injury: a case series*. QUANTITATIVE IMAGING IN MEDICINE AND SURGERY. 2025; 15(10) 9277-9293. IF: 2.8. Quartile: 2. (Article).
- Barberán, J; Ramos, M; Villanueva, J; Villares, P; Villareal, M; Vivas, M; Orche, S; Tejera-Gonzalez, M; Menéndez, JM; Hinojosa, LT; Almirall, C; Antolin, L; Martinez, L; Mendoza, S; Pelaez, A; Segarra-Cañamares, M; Guerrero, JE; Pelaez, J; Cardinal-Fernández, P. *Epidemiology of the COVID-19 pneumonia in a group of hospitals from Madrid-Spain during the full period of the State of Alarm- HM cohort*. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2025; 38(2) 97-107. IF: 2.8. Quartile: 3. (Article).

# *7.16B Pathophysiology of the cardiovascular system and circulatory support*

Group Director: **Mª Begoña Quintana Villamandos and Juan Francisco del Cañizo**

Organisms involved: **HGUGM**

**Emerging Group**

## *Description of the research group*

Multidisciplinary group focused on the study of different systems, mainly the cardiovascular system, from an anaesthetic and surgical perspective.

## *Research lines*

**Axis 1: Novel Therapies for the Reversal of Cardiovascular Remodeling: From Experimental Models to Perioperative Clinical Validation**

L1: Pharmacological Modulation of Hypertensive Cardiovascular Remodeling

L2: Oxidative Stress, Inflammation, and Perioperative Cardiovascular Damage

L3: Pharmacological Modulation of Organ Damage Associated with Hypertensive Disease

L4: Translational Phenotyping of Cardiovascular Remodeling

L5: Clinical Intervention Trials on Cardiovascular Remodeling in Vascular Surgery

**Axis 2: New Perioperative Advances in Mechanical Circulatory Support for the Critically ill Patient**

L1: Anesthetic and Pharmacological Strategies for Multiorgan Protection

L2: Advanced Hemodynamic Monitoring for Perioperative Optimization of Circulatory Support

L3: Right Ventricular Function and Ventriculoarterial Coupling in Mechanical Circulatory Support

L4: Impact of Flow Type on Tissue Perfusion and Microcirculation During Mechanical Circulatory Support

L5: Cardiorenal Interaction and Modulation of Acute Kidney Injury in the Critically ill Patient

**Axis 3: Advanced Perioperative Hemodynamic Monitoring**

L1: Artificial Intelligence Applied to Dynamic Risk Stratification in Critically Ill Patients

L2: Multimodal Integration of Hemodynamic Variables in the Development of Predictive Models for Critically ill Patients

L3: Monitoring of Cerebral and Somatic Perfusion and Autoregulation Using Near-Infrared Spectroscopy (NIRS)

L4: Development and Validation of Novel Clinical Decision Support Algorithms

L5: Generation and Standardization of Animal Models for the Development of New Predictive Technologies

**Axis 4: 3D Printing and Advanced Tissue Models for Translational Research**

L1: 3D Bioprinting of Skin and Personalized Skin Equivalents

L2: Bioprinted Platforms for Experimental Modeling and Preclinical Evaluation

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARNALICH | MONTIEL | ANA | Female | R2 | Recognised Researcher |
| BARRIO | GUTIÉRREZ | JOSÉ MARÍA | Male | R2 | Recognised Researcher |
| BURGOS | SANTAMARÍA | ALBA | Female | R2 | Recognised Researcher |
| CALLE | AGUADO | ALEJANDRO | Male | R1 | First Stage Researcher |
| DEL CAÑIZO | LÓPEZ | JUAN FRANCISCO | Male | R4 | Leading Researcher |
| DELGADO | BAEZA | EMILIO | Male | R3 | Established Researcher |
| DELGADO | MARTOS | MARIA JESUS | Female | R2 | Recognised Researcher |
| FERNANDEZ | LOPEZ | IGNACIO | Male | R1 | First Stage Researcher |
| GALLO | CARRASCO | ALBA | Female | R1 | First Stage Researcher |
| MARTIN | OROPESA | RAQUEL | Female | R2 | Recognised Researcher |
| PAZO | SAYOS | LAIA | Female | R2 | Recognised Researcher |
| QUINTANA | VILLAMANDOS | MARIA BEGOÑA | Female | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | | **1** | | |
| **Regional** | | | | |

* **Not managed by the FIBHGM**

TITLE: **Inmersión en ECMO: Innovación docente universitaria a través de la realidad virtual**. Proyecto Innovación Docente UCM-481

DIRECTOR: QUINTANA VILLAMANDOS, MARIA BEGOÑA

PROJECT TYPE: Research project

FUNDING BODY: UCM

START DATE: 01/06/2024

END DATE: 31/12/2025

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 11.2 |
| Joint publications | 15 | 51.7 |
| First decile publications | 3 | 26.9 |
| First quartile publications | 7 | 44.3 |
| Second quartile publications | 3 | 10.2 |
| Third quartile publications | 3 | 6.9 |
| Fourth quartile publications | 5 | 1.5 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **20** | **62.9** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Adao, R; Barreira, B; Paternoster, E; Morales-Cano, D; Olivencia, MA; Quintana-Villamandos, B; Rodríguez-Chiaradía, DA; Cogolludo, A; Perez-Vizcaino, F. *Vitamin D as an add-on therapy to phosphodiesterase-5 inhibitor in experimental pulmonary arterial hypertension*. AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. 2025; 328(2) 253-259. IF: 3.8. Quartile: 1. (Article).

- Pérez-Blanco, A; González-Vilchez, F; González-Costello, J; Royo-Villanova, M; Miñambres, E; Cuenca, JJ; Cánovas, SJ; Garrido, IP; Moreno-González, G; Sbraga, F; García-Quintana, A; Peña, VJ; Portela, FA; Almenar-Bonet, L; Martinez-León, J; Tur, A; Ruiz-Arranz, A; Caravaca-Pérez, P; Sandoval, E; Gómez-Bueno, M; Pérez-Redondo, M; Villar, S; Cobo, M; Nistal, JF; Adsuar-Gómez, A; Peinado, AA; Blázquez-Bermejo, Z; Coll, E; Crespo-Leiro, MG; Cuerpo, G; de la Calle, B; Estébanez, B; Fernández-García, ME; Mosteiro, F; Ponz, I; Sánchez-Rivas, J; Sánchez-Vicario, F; Sobrino, JM; Domínguez-Gil, B. *DCDD heart transplantation with thoraco-abdominal normothermic regional perfusion and static cold storage: The experience in Spain*. AMERICAN JOURNAL OF TRANSPLANTATION. 2025; 25(7) 1526-1539. IF: 8.1. Quartile: 1. (Article).

- Ripollés-Melchor, J; Tomé-Roca, JL; Zorrilla-Vaca, A; Aldecoa, C; Colomina, MJ; Bassas-Parga, E; Lorente, JV; Ruiz-Escobar, A; Carrasco-Sánchez, L; Sadurni-Sarda, M; Rivas, E; Puig, J; Agudelo-Montoya, E; Del Rio-Fernández, S; García-López, D; Adell-Pérez, AB; Guillen, A; Venturoli-Ojeda, R; Fernández-Torres, B; Abad-Motos, A; Mojarro, I; Garrido-Calmaestra, JL; Fernanz-Antón, J; Pedregosa-Sanz, A; Cueva-Castro, L; Echevarria-Correas, MA; Mallol, M; Olvera-García, MM; Navarro-Pérez, R; Fernández-Valdés-Bango, P; García-Fernández, J; Espinosa, AV; Abu Khudair, H; Becerra-Bolanos, A; Díez-Remesal, Y; Fuentes-Pradera, MA; Valbuena-Bueno, MA; Quintana-Villamandos, B; Llorca-García, J; Fernández-López, I; Ocon-Moreno, I; Martín-Infantes, SL; Valiente-Lourtau, JM; Amelburu-Egoscozabal, M; Rivera-Ramos, H; Abad-Gurumeta, A; Monge-García, MI. *Hemodynamic Management Guided by the Hypotension Prediction Index in Abdominal Surgery: A Multicenter Randomized Clinical Trial*. ANESTHESIOLOGY. 2025; 142(4) 639-654. IF: 9.4. Quartile: 1. (Article).

- Ripollés-Melchor, J; Monge-García, MI; Aldecoa, C; Quintana-Villamandos, B; Espinosa, AV; Abad-Gurumeta, A. *Hemodynamic Management with Hypotension Prediction Index in Surgery: Reply*. ANESTHESIOLOGY. 2025; 143(5). IF: 9.4. Quartile: 1. (Letter).

- Montero-Cruces, L; Carnero-Alcázar, M; Rodríguez-Lecoq, R; Sureda-Barbosa, JC; Rodríguez-Roda-Stuart, J; Sbraga, F; Legarra-Calderón, JJ; Gracia-Baena, JM; Adsuar-Gómez, A; Gómez-Blasco, F; Valderrama-Marcos, JF; Arce-Ramos, N; Martín-López, CE; Urso, S; Hernández-Campos, JA; García-Borges, N; Pedraz-Prieto, A; Matamala-Adell, M; Oyarzabal, JR; Macías-Rubio, D; Pérez-de la Sota, E; Hubsch, ACD; Gascón-García-Verdugo, P; López-Menéndez, J. *Data analysis from the Spanish Registry of Cardiac Surgery (RECC) 2021-2023*. CIRUGIA CARDIOVASCULAR. 2025; 32(1) 34-50. IF: 0.2. Quartile: 4. (Article).

- Santín, EM; Gutiérrez, EM; Caballero, GC; Hernández, TC; López, LP; Fuster, RG; Carretero, EG; García-Verdugo, PG; Calderón, JJL. *Spanish cardiovascular surgery report 2023: The annual updated registry of the Spanish Society for Cardiovascular and Endovascular Surgery*. CIRUGIA CARDIOVASCULAR. 2025; 32(3) 151-165. IF: 0.2. Quartile: 4. (Article).

- López, LP; Hernández, TC; Santín, EM; Gutiérrez, EM; Caballero, GC; Fuster, RG; Carretero, EG; Calderon, YJJL. *Spanish Society of Cardiovascular & Endovascular Surgery registry of interventions in patients with congenital heart disease: 2023 and retrospective analysis of the previous 12 years*. CIRUGIA CARDIOVASCULAR. 2025; 32(3) 139-150. IF: 0.2. Quartile: 4. (Article).

- Montero-Cruces, L; Rodríguez-Lecoq, R; Lopez-Menéndez, J; Sbraga, F; Sureda-Barbosa, JC; Legarra-Calderon, JJ; Gracia-Baena, JM; Matamala-Adell, M; Valderrama-Marcos, JF; Gomez-Blasco, F; Arce-Ramos, N; Martín-Lopez, CE; Pedraz-Prieto, A; Macías-Rubio, D; La Sota, EPD; Adsuar-Gomez, A; García-Bouza, M; Hubsch, ACD; Hernández-Campos, JA; Oyarzabal, JR; Lima-Canadas, P; Urso, S; Salmeron-Menéndez, C; Gascon-García-Verdugo, P; Carnero-Alcázar, M. *Data analysis from the Spanish Registry of Cardiac Surgery (RECC) 2021-2024.* CIRUGIA CARDIOVASCULAR. 2025; 32(6) 299-318. IF: 0.2. Quartile: 4. (Article).

- Fernández-Caso, M; Carta-Bergaz, A; Castrodeza, J; Sousa-Casasnovas, I; Ortiz-Bautista, C; Pedraz-Prieto, A; Barrio-Gutiérrez, JM; Bermejo, J. *Sympathectomy in refractory ventricular arrhythmias in patients with left ventricular assist device: a grand round case report*. EUROPEAN HEART JOURNAL-CASE REPORTS. 2025; 9(9). IF: 0.7. Quartile: 4. (Article).

- Arnalich-Montiel, A; Barrio-Pérez, IM; Burgos-Santamaría, A; Fernández-Riveira, C; Lázaro, A; González-Nicolás, MA; Río, J; Bellón, JM; Canal, MI; Ligero, JM; Quintana-Villamandos, B. *Influence of the type of volatile anesthetic on the development of acute kidney injury after endovascular repair of aortic aneurysm: a randomized controlled trial (DESEVAR study)*. FRONTIERS IN PHARMACOLOGY. 2025; 16. IF: 5.4. Quartile: 1. (Article).

- Lobato-Delgado, B; Ruiz, M; Font, C; Pachón, V; Castellón, V; Martinez-Marin, V; Salgado, M; Martinez, E; Calzas, J; Ortega, L; Ruperez, A; Pujol, O; Soria, JM; Muñoz, A. *Cancer-associated venous thromboembolism and its impact on survival in the ONCOTHROMB12-01 cohort study*. IJC HEART & VASCULATURE. 2025; 60. IF: 2.9. Quartile: 2. (Article).

- Frías-García, R; García, PM; Vilchez, MM; Caballero, GC; Rodríguez-García, R; Rodríguez-Esteban, MA; Fariñas-Alvarez, MC; Meda, JMM; Villanueva, AG; Ojeda-Burgos, G; Goikoetxea-Agirre, AJ; Palacios, MB; Martínez-Sellés, M. *Body mass index and prognosis of infective endocarditis*. INFECTIOUS DISEASES. 2025. IF: 2.5. Quartile: 3. (Article).

- Rivera, A; Fernandez-Lopez, I; Del Canizo, JF. *Red blood cell damage during normothermic liver perfusion: A hidden barrier to graft assessment?*. INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS. 2025; 48(8) 550-556. IF: 1.6. Quartile: 3. (Article).

- de Villarreal-Soto, JE; Parra, JC; García, PM; Caballero, GC; Vílchez, MM; Rodríguez-Esteban, MA; Rodriguez-Garcia, R; Tascon-Quevedo, V; Goikoetxea-Agirre, AJ; Obrador, EQ; Goenaga-Sanchez, MA; Garcia-Vazquez, E; Hernandez-Estefania, R; Martínez, AR; Martin-Lopez, CE. *Clinical and Prognostic Differences Between Mechanical Versus Biological Prosthetic Infective Endocarditis-A Nationwide Database Study*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(24). IF: 3.3. Quartile: 1. (Article).

- Carnero-Alcazar, M; Nuñez-Gil, IJ; Vilacosta, I; Montero, L; Cuerpo, G; Lopez-Menendez, J; Guzman, GF; Beltrao-Sial, R; Perez-Camargo, D; Vicedo-López, A; Miranda-Torrón, J; Solís-Chávez, MB; Cobiella, J; Maroto, L. *Need for a permanent pacemaker after transcatheter aortic valve implantation in Spain: a retrospective analysis of the national Minimum Basic Dataset from 2017 to 2022*. OPEN HEART. 2025; 12(1). IF: 3.1. Quartile: 2. (Article).

- Alvarez, A; Tamargo, M; Cuerpo, G. *Percutaneous treatment of a massive septal hematoma*. REVISTA ESPANOLA DE CARDIOLOGIA. 2025; 78(5) 490-491. IF: 4.2. Quartile: 2. (Editorial Material).

- Pérez-Granda, MJ; Bouza, E; Barrio-Gutiérrez, JM; Machado, M; Estevez, A; Cuerpo, G; Hortal, J; Muñoz, P; González-Pinto, A; Valerio, M. *Evolution of postsurgical mediastinitis after Major Heart Surgery (MHS) in the last 12 years: Are we improving?*. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2025; 38(5) 394-400. IF: 2.8. Quartile: 3. (Article).

- Perez-Granda, MJ; Cuerpo, G; Barrio, JM; Valerio, M; Munoz, P; Pinto, AG; Valencia, DE; Vicario, FS; Bouza, E. *A prospective randomized study that compares three different dressings for the prevention of surgical site infections following major heart surgery*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

***Other publications:***

- Delgado-Martos MJ; Quintana-Villamandos B; Delgado-Baeza E. *[Translated article] Ramón y Cajal and the cartilaginous growth plate.* REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2025; 69(4). (Article).

Delgado-Martos MJ; Quintana-Villamandos B; Delgado-Baeza E. *Ramón y Cajal and the cartilaginous growth plate.* REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2025; 69(4) 402-410. (Article).

## *7.18 Peritransplant evaluation of the liver*

Group Director: **José María Pérez Peña (until 5-2024) and Patricia Duque González (from 6-2024)**

Organisms involved: **HGUGM**

**Associated Group**

## *Description of the research group*

The members of the research group are part of the Anaesthesiology and Resuscitation Department of the Gregorio Marañón Hospital, where they carry out their healthcare work with special dedication to the field of anaesthesia and postoperative care in hepatobiliopancreatic surgery and liver transplantation. Since 1990, when we started the liver transplant (LT) programme at the HGU Gregorio Marañón, we have been part of the anaesthesia team in charge of LT, developing in recent years in close collaboration with the Hepatology and Surgery Services the following lines of research in the field of LT and major liver surgery:

1- Methods for the early diagnosis of early graft malfunction in liver transplantation

2- Utility of cardiac biomarkers and cardiac haemodynamic monitoring in cirrhotic patients during liver transplantation.

3- Usefulness of coagulation parameters for optimising the management of plasma derivatives and early diagnosis of graft dysfunction

4- In 2021, the programme for the recovery of organs initially discarded for liver transplantation began. In this programme we collaborate with the surgery and hepatology services within the liver transplant unit, investigating the mechanisms involved and the effect of preservation with a normothermic perfusion machine prior to transplantation on the liver function of these initially discarded organs, as well as the effects of hypothermic perfusion in grafts from asystole donors.

## *Research lines*

L1. Evaluation of early graft function in human liver transplantation.

L2. Usefulness of cardiac biomarkers in liver transplantation.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ANAYA | CAMACHO | RAFAEL JOSE | Male | R3 | Established Researcher |
| CASTRODEZA | AZORIN | ELENA | Female | R2 | Recognised Researcher |
| DIAZ | RUANO | SUSANA | Female | R3 | Established Researcher |
| DUQUE | GONZÁLEZ | PATRICIA | Female | R3 | Established Researcher |
| HERNANDEZ | FERNANDEZ | GLORIA | Female | R3 | Established Researcher |
| IÑURRITEGUI | ARREGUI | NAGORE | Female | R2 | Recognised Researcher |
| LISBONA | SAEZ | CRISTINA JULIA | Female | R2 | Recognised Researcher |
| RAMOS | CERRO | SILVIA | Female | R2 | Recognised Researcher |
| RODRIGUEZ | CABALLERO | MARINA | Female | R2 | Recognised Researcher |
| RUEDA | NAVARRO | MARÍA DEL MAR | Female | R2 | Recognised Researcher |
| SAGREDO | SANCHEZ | TERESA | Female | R2 | Recognised Researcher |
| VILCHEZ | MONGE | ALMUDENA LUCIA | Female | R2 | Recognised Researcher |
| ZALVIDE | POMBO | PEDRO | Male | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |

| | | | | |
|---|---|---|---|---|
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Clinical Practice Guidelines*

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Duque P, Sagredo T, Piñeiro P, Fernández M, Caballero A, Zaballos M, Hortal J, Bellón JM, Korte W, Pérez-Peña JM, Bañares R, Garutti I. | A simple intraoperative score incorporating thromboelastometric parameters predicts early reoperation for bleeding after liver transplantation | **Liver Transplantation** doi: 10.1097/LVT.0000000000000811 |

## *Publications* *Total Impact Factor:* ***91,8***

| | **Nº** | **IF** |
|---|---|---|
| Own publications | 1 | 2.4 |
| Joint publications | 6 | 89.4 |
| First decile publications | 3 | 80.6 |
| First quartile publications | 4 | 83.4 |
| Second quartile publications | 3 | 8.4 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **9** | **91.8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- De la Gala, F; de la Fuente, E; Piñeiro, P; Reyes, A; Duque, P; Sánchez-Pedrosa, G; Martínez-Gascueña, D; Vara, E; Rancan, L; Simón, C; Hortal, J; Garutti, I. *Effect of intraoperative paravertebral or intravenous lidocaine infusion on postoperative complications and inflammation after lung resection surgery: a randomised controlled trial*. BRITISH JOURNAL OF ANAESTHESIA. 2025; 135(5) 1297-1306. IF: 10.3. Quartile: 1. (Article).
- Duque, P; Korte, W. *Fibrinogen Replacement: A Questionable Dogma*. HAMOSTASEOLOGIE. 2025. IF: 2.4. Quartile: 2. (Article).
- Hernandez, G; Ospina-Tascon, GA; Kattan, E; Ibarra-Estrada, M; Ramasco, F; Orozco, N; Ramos, K; Aldana, JL; Ferri, G; Hamzaoui, O; De Backer, D; Teboul, JL; Vieillard-Baron, A; Damiani, LP; García-Gallardo, GA; Morales, S; Garcia, PC; Mendez, R; Hernandez-Gilsoul, T; Pérez-Nieto, OR; Vielba, CO; Ramos, S; Dominguez, D; Bruna, M; David, S; Wendel-Garcia, PD; Galiana-Ivars, M; Myatra, SN; Messina, A; Cecconi, M; Pozo, M; Amthauer, M; Higuera, E; Al Duhalib, Z; Rico-Feijoo, J; Ferrer-Gomez, C; Pérez-Carbonell, A; Martinez-Castro, S; Calvo, FJR; Vives, M; Sanchez, HF; Bilbao, I; Fernandez, P; Al-Fares, A; Benitez-Cano, A; Gonzalez, C; Reyes, LF; Rodriguez-Guillen, JH; Cristino, AV; Pendino, JC; Ortiz, G; Alonso-Gonzalez, MC; Murias, G; Aguirre-Avalos, G; Hernández, L; Barajas, ZAC; Zarragoikoetxea, I; Monnet, X; Goury, A; Dos Santos, TM; Vallecilla, L; De Lima, LM; Sady, E; Alegria, L; Ostermann, M; Bakker, J; Cavalcanti, AB. *Personalized Hemodynamic Resuscitation Targeting Capillary Refill Time in Early Septic Shock*. JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION. 2025; 334(22) 1988-1999. IF: 65.4. Quartile: 1. (Article).
- Mateos, JJ; de la Fuente, E; Valero, P; Martinez, D; De la Gala, F; Bellón, JM; Duque, P; Pineiro, P; Calvo, A; Reyes, A; Simon, C; Hortal, FJ; Garutti, I. *Utility of High-Sensitivity Cardiac Troponin Monitoring in Thoracic Surgery for Predicting*

*Severe Postoperative Complications*. JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA. 2025; 39(7) 1763-1773. IF: 2.6. Quartile: 2. (Article).

- Conthe, A; Ibanez-Samaniego, L; Calleja, E; Saralegui, P; Alvarez-Luque, A; Echenagusia, MJ; Gonzalez-Leyte, M; Carretero, F; Ballano, C; Lopez-Baena, JA; Rinco, D; Catalina, MV; Banares, R. *Feasibility, Safety and Efficacy of Transjugular Intrahepatic Portosystemic Shunt for the Management of Portal Vein Thrombosis in Cirrhosis*. JOURNAL OF CLINICAL AND EXPERIMENTAL HEPATOLOGY. 2025; 15(5). IF: 3.4. Quartile: 2. (Article).

- Pérez L; Blasi A; Gutierrez R; Caballero M; Pérez J; Zarragoikoetxea I; Vidal J; Salvador P; Ojinaga G; Duque P; Bosca A; Carmona PI; Colmenero J; Colomina MJ; Llaurado S; Sabate A. *Correction of iron deficiency anemia in liver transplantation. Preliminary study*. MEDICINA CLINICA. 2025; 165(5) 107136-107136. IF: 2.8. Quartile: 1. (Article).

- Calleja, R; Rivera, M; Guijo-Rubio, D; Hessheimer, AJ; de la Rosa, G; Gastaca, M; Otero, A; Ramírez, P; Boscà-Robledo, A; Santoyo, J; Gómez, LMM; del Moral, JV; Fundora, Y; Lladó, L; Loinaz, C; Jiménez-Garrido, MC; Rodríguez-Laíz, G; López-Baena, JA; Charco, R; Varo, E; Rotellar, F; Alonso, A; Rodríguez-Sanjuan, JC; Blanco, G; Nuño, J; Pacheco, D; Coll, E; Domínguez-Gil, B; Fondevila, C; Ayllón, MD; Durán, M; Ciria, R; Gutiérrez, PA; Gómez-Orellana, A; Hervás-Martínez, C; Briceño, J. *Machine Learning Algorithms in Controlled Donation After Circulatory Death Under Normothermic Regional Perfusion: A Graft Survival Prediction Model*. TRANSPLANTATION. 2025; 109(7) 362-370. IF: 4.9. Quartile: 1. (Article).

***Other publications:***

- Ramos S; Ramos Fernández R; Sevilla R; Cabezuelo E; Calvo A; Vela R; Menendez C; Garcia Ramos S; Hortal Iglesias J; Garutti I; Piñeiro P. *Readmissions to a Surgical Intensive Care Unit: Incidence and Risk Stratification for Personalized Patient Care.* JOURNAL OF PERSONALIZED MEDICINE. 2025; 15(12). (Article).

- Ramos Fernández R; Calvo García A; Fernández Yunkera A; Ramos Cerro S; Garutti I; Hortal Iglesias J; Muñoz García P; García Ramos S; Elvira Rodríguez A; Power Esteban M; Duque González P; Piñeiro P. *Evaluation of Perioperative Risk Factors for Infection by Multidrug-Resistant Bacteria in Patients Undergoing Liver Transplantation.* JOURNAL OF PERSONALIZED MEDICINE. 2025; 15(6). (Article).

## *7.19 Perianesthesic assessment*

Group Director: **Carmen Fernández Riveira**

Organisms involved: **HGUGM**

**Associated Group**

### *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| DEL CASTILLO | FERNANDEZ DE BETOÑO | TERESA MARÍA | Female | | Sin Definir |
| FERNANDEZ | FERNANDEZ | ALEJANDRO | Male | | Sin Definir |
| FERNÁNDEZ | RIVEIRA | CARMEN | Female | | Sin Definir |
| MEMBRILLO | RUBALCABA | Mª JOSE | Female | | Sin Definir |
| MIGUEL | GUIJARRO | Mª ANGELES | Female | | Sin Definir |
| OROZCO | GALEANO | HUGO DAVID | Male | | Sin Definir |
| PALENCIA | JORGE | MARÍA | Female | | Sin Definir |
| REYES | OSORIO | FIDEL EDUARDO | Male | | Sin Definir |
| RIAÑO | MÉNDEZ | BIBIANA | Female | | Sin Definir |
| SAN JUAN | LOPEZ | ERIKA | Female | | Sin Definir |
| SANZ | FERNANDEZ | FRANCISCO JAVIER | Male | | Sin Definir |
| TORRE | OÑATE | Mª TERESA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| VARELA | CABO | JESÚS ALBERTO | Male | R1 | First Stage Researcher |

### *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

### *Publications* *Total Impact Factor: **6,7***

| | Nº | IF |
|---|---|---|
| Own publications | 1 | 1.3 |
| Joint publications | 1 | 5.4 |
| First decile publications | 0 | - |
| First quartile publications | 1 | 5.4 |
| Second quartile publications | 0 | 0 |
| Third quartile publications | 1 | 1.3 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **2** | **6.7** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Arnalich-Montiel, A; Barrio-Pérez, IM; Burgos-Santamaría, A; Fernández-Riveira, C; Lázaro, A; González-Nicolás, MA; Río, J; Bellón, JM; Canal, MI; Ligero, JM; Quintana-Villamandos, B. *Influence of the type of volatile anesthetic on the development of acute kidney injury after endovascular repair of aortic aneurysm: a randomized controlled trial (DESEVAR study)*. FRONTIERS IN PHARMACOLOGY. 2025; 16. IF: 5.4. Quartile: 1. (Article).
- Pascual, RCV; Peña, JMP; Rodríguez, AE; Esteban, MP; Fernández, CJ; Cabo, JAV. *Cardiopulmonary arrest in liver transplantation surgery. perioperative beta-blockade implication in the cirrhotic patient*. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2025; 72(2). IF: 1.3. Quartile: 3. (Article).

## *7.20 Anaesthesia, toxics and arrhythmias*

Group Director: **Matilde Zaballos García**

Organisms involved: **HGUGM**

**Associated Group**

### *Description of the research group*

The research group is made up of anaesthesiologists, toxicologists and cardiologists. The group's research career stands out in the area of research into anaesthesia, toxicants and arrhythmias in animal models. The multidisciplinary composition has made it possible to address studies with common aspects of the different specialties, which would otherwise be very complex to make them coincide.

## Research lines

**Axis 1: Anaesthesia, toxics and arrhythmias**

L1: Electrophysiology of anaesthetic agents
L2: Cardiac toxicology of local anaesthetics and antidotes
L3: Cardiac toxicology of consumer substances and antidotes

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALMENDRAL | GARROTE | JESUS | Male | R3 | Established Researcher |
| ALVAREZ | BAENA | LUCIA | Female | R1 | First Stage Researcher |
| ANADON | BASELGA | MARIA JOSE | Female | R3 | Established Researcher |
| BRAVO | SERRAJO | BEGOÑA | Female | R3 | Established Researcher |
| GARCIA | RAMOS | SERGIO | Male | R1 | First Stage Researcher |
| QUINTEJA | JORGE | OSCAR | Male | R3 | Established Researcher |
| RODRIGUEZ | RODRIGUEZ | LUCIA | Female | R1 | First Stage Researcher |
| ZABALLOS | GARCÍA | MATILDE | Female | R3 | Established Researcher |

## Research Projects – Competitive Calls

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## Publications

*Total Impact Factor:* ***9,2***

| | Nº | IF |
|---|---|---|
| Own publications | 2 | 4.6 |
| Joint publications | 2 | 4.6 |
| First decile publications | 0 | - |
| First quartile publications | 1 | 3.3 |
| Second quartile publications | 1 | 2.1 |
| Third quartile publications | 2 | 3.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **6** | **9.2** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Caamaño, E; Rodrigo, LV; Garcia-Ramos, S; Garcia, AC; Cerro, SR; Power, M; Asencio, JM; Piñeiro, P; Hortal, J; Garutti, I. *Risk factors for readmission of COVID-19 ICU survivors: A threeyear follow up*. INDIAN JOURNAL OF MEDICAL RESEARCH. 2025; 161(2) 190-198. IF: 2.1. Quartile: 2. (Article).

- Corbella-Giménez, C; Monge-Cid, E; Gallo-Carrasco, A; García-Imhof, JB; Sánchez-Rodríguez, F; Díaz-García, J; Vasserot, I; Anadon-Baselga, MJ; Zaballos, M. *Effect of an Optimized Clinical Pathway Protocol Including Fascia Iliaca Compartment Block on Delirium and Postoperative Complications in Elderly Hip Fracture Patients*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(15). IF: 3.3. Quartile: 1. (Article).

- Ramos, S; Solchaga-Sánchez, I; Calvo, A; Power, M; García-Ramos, S; Piñeiro, P. *Clinical experience on the use of liposomal amphotericin B in the ICU*. MEDICINA INTENSIVA. 2025; 49(1). IF: 2.5. Quartile: 3. (Letter).

- Velasco, L; Calle, A; Coronel, J; Gallo, A; Reyes, A; Portas, M; Bermejo, L; Giménez, A; Ribed, A; Zaballos, M. *Cohort study to evaluate the pattern of analgesic prescription in adult patients undergoing ambulatory surgery*. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2025; 72(2). IF: 1.3. Quartile: 3. (Article).

***Other publications:***

- Ramos S; Ramos Fernández R; Sevilla R; Cabezuelo E; Calvo A; Vela R; Menendez C; Garcia Ramos S; Hortal Iglesias J; Garutti I; Piñeiro P. *Readmissions to a Surgical Intensive Care Unit: Incidence and Risk Stratification for Personalized Patient Care.* JOURNAL OF PERSONALIZED MEDICINE. 2025; 15(12). (Article).

- Ramos Fernández R; Calvo García A; Fernández Yunkera A; Ramos Cerro S; Garutti I; Hortal Iglesias J; Muñoz García P; García Ramos S; Elvira Rodríguez A; Power Esteban M; Duque González P; Piñeiro P. *Evaluation of Perioperative Risk Factors for Infection by Multidrug-Resistant Bacteria in Patients Undergoing Liver Transplantation.* JOURNAL OF PERSONALIZED MEDICINE. 2025; 15(6). (Article).

# *7.21 Biopathology of ageing*

Group Director: **Jose Antonio Serra Rexach**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

Our group develops its research activity in the clinical field with a clear vocation for translational research. The group is currently made up of three main clinical researchers (Vidán, Ortiz, Serra) who are able to successfully apply for competitive calls for projects and human resources.

Our field of research covers a wide range of pathology related to ageing, especially linked to frailty: cardiovascular pathology, hip fractures, physical activity, etc. We have also designed interventions to improve the prognosis in hospitalised elderly people (prevention of functional deterioration and confusional disorder). We have also assessed the usefulness of ICTs in the care of the elderly. Our most relevant contributions have contributed to modify clinical practice in pathologies as important as the management of acute confusional disorder or hip fracture.

Recently, we have consolidated the opening of a new research line of observational and intervention studies on the relevance of comprehensive geriatric assessment, as well as the role of physical exercise in the treatment of elderly patients with colorectal cancer, which is funded by the ISCIII. On the other hand, our group (Dr. Vidan) has participated in the design of an Integrated Project of Excellence 'Athero-Brain: Heart to Head (H2H) Study', together with the National Centre for Cardiovascular Research and the Cardiology Service of the Hospital 12 de Octubre in Madrid.

This solid track record has contributed to our group being part of one of the 20 CIBER groups on 'frailty and ageing' (CIBERFES), which facilitates collaboration and optimisation of resources that ultimately help to promote knowledge and innovation in this area.

## *Research lines*

**Axis 1: Frailty and geriatric syndromes**

L1: Frailty and cardiovascular disease

L2: Frailty and cognition

L3: Frailty and hip fracture

L4: Use of communication and information technologies (CIT) to help frailty patients with disability

**Axis 2: Hospitalization-associated disability**

L1: Physical exercise to prevent hospitalization-associated disability

**Axis 3: Geriatric oncology**

L1: Relevance of comprehensive geriatric assessment in colorectal cancer older patients

L2: Physical exercise for older people with colorectal cancer

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| GONZALEZ | SENAC | NICOLAS MARIA | Male | R1 | First Stage Researcher |
| MACIAS | VALLE | ANGELA | Female | R1 | First Stage Researcher |
| MONTERO | FERNANDEZ | NURIA PILAR | Female | R2 | Recognised Researcher |
| ORTIZ | ALONSO | JAVIER | Male | R3 | Established Researcher |
| RODRÍGUEZ | LÓPEZ | CARLOS | Male | R2 | Recognised Researcher |
| ROMERO | ESTARLICH | VICENTE | Male | R1 | First Stage Researcher |
| SERRA | REXACH | JOSÉ ANTONIO | Male | R4 | Leading Researcher |
| SOMOZA | FERNANDEZ | GEMA | Female | R1 | First Stage Researcher |
| VIDAN | ASTIZ | MARÍA TERESA | Female | R3 | Established Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | | | |
| **Regional** | | | | |

TITLE: **Efecto de un programa personalizado de ejercicio físico sobre la capacidad funcional y la calidad de vida en personas mayores con cáncer colorectal.** (PI21/01729)
DIRECTOR: SERRA REXACH, JOSÉ ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| CIBER | Centro de Investigación Biomédica en Red sobre Fragilidad y Envejecimiento Saludable | Collaborating group | CIBERFES |
| Other | Registro Nacional de Fractura de Cadera | Collaborating group | RNFC |

## *Publications* *Total Impact Factor:* ***35,5***

| | Nº | IF |
|---|---|---|
| Own publications | 1 | 4 |
| Joint publications | 6 | 31.5 |
| First decile publications | 1 | 9.5 |
| First quartile publications | 3 | 20.9 |
| Second quartile publications | 2 | 8.6 |
| Third quartile publications | 2 | 6 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 2 | - |
| **Total publications (including those without IF)** | **9** | **35,5** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- de Villaumbrosia, CG; Barba, R; Ojeda-Thies, C; Grifol-Clar, E; alvarez-Diaz, N; alvarez-Espejo, T; Cancio-Trujillo, JM; Mora-Fernández, J; Pareja-Sierra, T; Barrera-Crispín, R; Calle-Egusquiza, A; Capdevila-Reniu, A; Carrasco-Paniagua, C; Díaz, MCC; Condorhuamán-Alvarado, P; Cotano-Abad, L; Cuadra-Llopart, L; García-Cárdenas, V; González-Chávez, S; Hernández-Sánchez, LA; Herrero-Pinilla, B; López-Castro, J; Montero-Fernández, N; Muñoz-Pascual, A; Muñoz-Vélez, M; Ortés-Gómez, R; Sáenz-Tejada, A; Sanz-Reig, J; Torras-Cortada, S; Cortés, MR; Sáez-López, P. *Predictive factors of gait recovery after hip fracture: a scoping review*. AGE AND AGEING. 2025; 54(3). IF: 7.4. Quartile: 1. (Review).

- Sobrini-Morillo, P; Corral-Tuesta, C; Sánchez-Castellano, C; Gutierrez-Blanco, T; Palomo-Rumschisky, P; Alvarez-Pinheiro, CG; Blanchard-Rodriguez, MJ; Serra-Rexach, JA; Cruz-Jentoft, AJ. *Comprehensive Geriatric Assessment of Older Patients with Multiple Myeloma: A Prospective Observational Study*. CANCERS. 2025; 17(17). IF: 4.8. Quartile: 2. (Article).

- Vitale, C; Berthelot, E; Coats, AJS; Loreena, H; Albert, NM; Tkaczyszyn, M; Adamopoulos, S; Anderson, L; Anker, MS; Anker, SD; Bell, D; Ben-Gal, T; Bistola, V; Bozkurt, B; Brooks, P; Camafort, M; Carrero, JJ; Chioncel, O; Choi, DJ; Chung, WJ; Doehner, W; Fernandez-Berges, D; Ferrari, R; Fiuzat, M; Gomez-Mesa, JE; Gustafsson, F; Jankowska, E; Kang, SM; Kinugawa, K; Khunti, K; Hobbs, FDR; Lee, CSP; Lopatin, Y; Maddocks, M; Maltese, G; Marques-Sule, E; Matsue, Y; Miro, O; Moura, B; Piepoli, M; Ponikowski, P; Pulignano, G; Rakisheva, A; Ray, R; Sciacqua, A; Seferovic, P; Sentandreu-Mano, T; Sze, S; Sinclair, A; Stroemberg, A; Theou, O; Tsutsui, H; Uchmanowicz, I; Vidan, MT; Volterrani, M; von Haehling, S; Yoo, B; Zhang, J; Zhang, YH; Metra, M; Rosano, GMC. *Assessment of frailty in patients with heart failure: A new Heart Failure Frailty Score developed by Delphi consensus*. ESC HEART FAILURE. 2025; 12(3) 1818-1831. IF: 3.8. Quartile: 2. (Article).

- Sobrini-Morillo, P; Corral-Tuesta, C; Sánchez-Castellano, C; Gutiérrez-Blanco, T; Blanchard-Rodríguez, MJ; Escudero-González, B; Nieto-Gongora, C; Lopez, JM; Serra-Rexach, JA; Cruz-Jentoft, AJ. *Sarcopenia in Older Patients with Newly Diagnosed Multiple Myeloma*. GERONTOLOGY. 2025; 72(1) 19-28. IF: 3.1. Quartile: 3. (Article).

- Verri, FM; González-Senac, NM; Herledan, C; van den Bos, F; Neuendorff, NR. *From healthy aging to complex needs in older adults: Onco-geriatric insights from the EuGMS 2024 conference, a report from Young SIOG*. JOURNAL OF GERIATRIC ONCOLOGY. 2025; 16(3). IF: 2.9. Quartile: 3. (Letter).

- Montégut, L; Lambertucci, F; Moledo-Nodar, L; Fiuza-Luces, C; Rodríguez-López, C; Serra-Rexach, JA; Lachkar, S; Motiño, O; Abdellatif, M; Durand, S; Aprahamian, F; Carbonnier, V; Le Corre, D; Richard, SM; Chen, H; Sauvat, A; Dong, YB; Li, SJ; Rong, Y; Pietrocola, F; Puig, PL; López-Otín, C; Martins, I; Barcena, C; Lucia, A; Kroemer, G. *Acyl-CoA-binding protein as a driver of pathological aging*. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 2025; 122(28). IF: 9.5. Quartile: 1. (Article).

- Rodriguez-Lopez, C; Alcazar, J; Sanchez-Martin, C; Baltasar-Fernandez, I; Ara, I; Csapo, R; Alegre, LM. *Contralateral Adaptations After Unilateral Power Training in Older Adults: The Effect of Intensity of Load*. SCANDINAVIAN JOURNAL OF MEDICINE & SCIENCE IN SPORTS. 2025; 35(11). IF: 4. Quartile: 1. (Article).

***Other publications:***

- Fajardo Tórtola G; Vidán Astiz MT; Ortiz Alonso J; Kestler M. *Complex older patient with atypical presentation of infective endocarditis: a case report.* REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2025; 60(4) 101637-101637. (Article).

Aldama Marín P; Lavandera Verdera P; González-Senac NM; Vidán Astiz M. *Management of older adults with severe aortic stenosis and indication of non-cardiac surgery for colorectal neoplasm: What do we treat first?*. REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2025; 60(4) 101623-101623. (Article).

# *7.22 Neonatal and developmental pathophysiology*

Group Director: **Manuel Sánchez-Luna**

Organisms involved: **HGUGM**

**Emerging Group**

## *Description of the research group*

Group with established lines of research in animal and clinical experimental respiratory physiology, neonatal neurobiology, pain and personalised nutrition.

## *Research lines*

**Axis 1: Lung protection**

L1: Prevention of ventilator-induced lung damage

L2: Bronchopulmonary dysplasia

**Axis 2: Personalised nutrition**

L1: Impact on reduction of prematurity-associated pathology

**Axis 3: Neurosciences applied to neonatology**

L1: Prematurity and long-term neurological sequelae

**Axis 4: Image**

L1: Lung ultrasound

**Axis 5: Neonatal resuscitation**

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUSTIN | ASENSIO | JUAN CARLOS | Male | R3 | Established Researcher |
| ARRIAGA | REDONDO | MARÍA | Female | R2 | Recognised Researcher |
| BADA | BOSCH | ISABEL | Female | R1 | First Stage Researcher |
| BERNARDO | ATIENZA | ANA BELÉN | Female | R2 | Recognised Researcher |
| BLANCO | BRAVO | DOROTEA | Female | R4 | Leading Researcher |
| CABALLERO | MARTÍN | SYLVIA | Female | R2 | Recognised Researcher |
| CARAÇA-VALENTE | BARRERA | HELENA | Female | | |
| CARCIA CASILLAS | SANCHEZ | MARIA ANTONIA | Female | R2 | Recognised Researcher |
| CHIMENTI | CAMACHO | PAZ | Female | R2 | Recognised Researcher |
| GONZALEZ | NAVARRO | PABLO | Male | | |
| GONZALEZ | PACHECO | NOELIA | Female | R4 | Leading Researcher |
| GREGORIO | HERNANDEZ | REBECA | Female | R4 | Leading Researcher |
| LOPEZ | PEREZ | RAQUEL | Female | R1 | First Stage Researcher |
| MADERUELO | RODRÍGUEZ | ELENA | Female | R2 | Recognised Researcher |
| MARSINYACH | ROS | MARÍA ITZIAR | Female | R3 | Established Researcher |
| MERINO | HERNANDEZ | AMAIA | Female | R1 | First Stage Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ORDOÑEZ | PEREIRA | JAVIER | Male | R1 | First Stage Researcher |
| PEREZ | EGIDO | LAURA | Female | R2 | Recognised Researcher |
| PEREZ | PEREZ | ALBA | Female | R2 | Recognised Researcher |
| PESCADOR | CHAMORRO | MARIA ISABEL | Female | R2 | Recognised Researcher |
| RAMOS | NAVARRO | MARIA CRISTINA | Female | R4 | Leading Researcher |
| RODRIGUEZ | CORRALES | ELENA | Female | R2 | Recognised Researcher |
| RODRIGUEZ | SANCHEZ DE LA BLANCA | ANA | Female | R3 | Established Researcher |
| SANCHEZ | LUNA | MANUEL | Male | R4 | Leading Researcher |
| SANZ | LÓPEZ | ESTER | Female | R2 | Recognised Researcher |
| SÁNCHEZ | GÓMEZ DE ORGAZ | MARÍA DEL CARMEN | Female | R2 | Recognised Researcher |
| VIGIL | VÁZQUEZ | SARA | Female | R1 | First Stage Researcher |
| VILLAR | CASTRO | SONIA | Female | R1 | First Stage Researcher |
| ZAMORA | FLORES | ELENA | Female | R1 | First Stage Researcher |
| ZEBALLOS | SARRATO | GONZALO | Male | R3 | Established Researcher |
| ZEBALLOS | SARRATO | SUSANA ELENA | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **3** | | **1** | |
| **Regional** | | | | |

TITLE: **Una nueva dimensión del cribado neonatal, el proyecto piloto CRINGENES** (PMPER24/00011)
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 09/06/2025
END DATE: 31/12/2026

TITLE: **Ventilación de alta frecuencia con frecuencias elevadas y volúmenes tidales bajos como estrategia de protección pulmonar en un modelo animal de baja distensibilidad; mecanismos genómicos implicados** (PI24/00971)
DIRECTOR: GONZALEZ PACHECO, NOELIA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Surfactante aerosolizado combinado con ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** (PI20/01331)
DIRECTOR: SANCHEZ LUNA, MANUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2021
END DATE: 30/06/2025

TITLE: **Río Hortega contracts** CM24/00191
DIRECTOR: (Amaia Merino Hernández)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 31/03/2025
END DATE: 30/03/2027

## *Publications* *Total Impact Factor: **107,3***

| | Nº | IF |
|---|---|---|
| Own publications | 11 | 29.9 |
| Joint publications | 16 | 77.4 |
| First decile publications | 3 | 45.2 |
| First quartile publications | 16 | 86.7 |
| Second quartile publications | 8 | 17.6 |
| Third quartile publications | 1 | 2.2 |
| Fourth quartile publications | 2 | 0.8 |
| Nonindexed publications / No IF | 5 | - |
| **Total publications (including those without IF)** | **32** | **107,3** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Merino-Hernández, A; Rodríguez-Corrales, E; Caballero-Martín, S; Ramos-Navarro, C; González-Pacheco, N; de Orgaz, MCSG; Sánchez-Luna, M. *Nutritional Strategies in Preterm Infants: The Role of Human Milk in Bronchopulmonary Dysplasia*. ACTA PAEDIATRICA. 2025; 115(3) 686-696. IF: 1.8. Quartile: 2. (Article).
- Ros, IM; Alba, MP. *Procedural pain in pediatric care: nitrous oxide and the greenhouse effect*. ANALES DE PEDIATRIA. 2025; 102(5). IF: 2.6. Quartile: 1. (Editorial Material).
- Couce, ML; Cernada, M; Boix, H; Sánchez-Redondo, MD; Fernández, MGE; González-Pacheco, N; Martin, A; Pérez-Muñuzuri, A. *Current situation and new steps in newborn screening in Spain*. ANALES DE PEDIATRIA. 2025; 102(3). IF: 2.6. Quartile: 1. (Article).
- Vázquez, SV; Hernández, RG; Corrales, ER; Luna, MS. *Radiologic consolidation, respiratory distress and normal lung ultrasound*. ANALES DE PEDIATRIA. 2025; 102(6). IF: 2.6. Quartile: 1. (Editorial Material).
- Alonso-Ojembarrena, A; Gregorio-Hernández, R; Sánchez-Luna, M. *National multicenter registry on lung ultrasound in infants born before 26 weeks' gestational age (MINI-LUS)*. ANALES DE PEDIATRIA. 2025; 102(5). IF: 2.6. Quartile: 1. (Letter).
- Pescador-Chamorro, MI; Caballero-Martín, S; Rodríguez-Corrales, E; Vigil-Vázquez, S; Sánchez-Luna, M. *The Positive Effect on Preterm Infants' Feeding of Human Milk During Hospitalization and at Discharge after the Opening of a Personalized Nutrition Unit*. BREASTFEEDING MEDICINE. 2025; 20(4) 277-283. IF: 2.1. Quartile: 2. (Article).

- Garrido-Muñoz, F; Fernández-Vega, A; Gregorio-Hernández, R; Padín-Fontán, M; de las Heras-Martín, M; Teresa-Palacio, M; Alonso-Quintela, P; Trujillo-Fagundo, A; Pérez-Pérez, A; Pumarada-Prieto, M; Montero-Gato, J; Aldecoa-Bilbao, V; Oulego-Erroz, I; Sánchez-Fernández, M; Alonso-Ojembarrena, A. *Proteomic Analysis of Nasopharyngeal Aspirate Biomarkers for Prematurity-Related Bronchopulmonary Dysplasia*. CHEST. 2025; 168(4) 980-993. IF: 9.8. Quartile: 1. (Article).

- Carpio, BJS; Sánchez-García, L; Marsinyach-Ros, I; Rendo-Murillo, JA; Quesada-Cubo, V; Quintana, MGM; Lorente-Romero, J; Sánchez-Sáenz, MI; Cintora-Sanz, AM; Horrillo-García, C. *Evaluation of the BronchiolitisMAD protocol in the out-of-hospital emergency services of the Community of Madrid*. EMERGENCY CARE JOURNAL. 2025; 21(2). IF: 0.4. Quartile: 4. (Article).

- Manzanares, A; Aguilera-Alonso, D; Escobar, M; Vigil-Vázquez, S; Cercenado, E; Saavedra-Lozano, J. *Changes in the epidemiology of acute mastoiditis according to the implementation of pneumococcal vaccination in a Spanish population*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA. 2025; 43(6) 361-364. IF: 2.2. Quartile: 3. (Article).

- Ramos-Navarro, C; Gregorio-Hernández, R; Pérez-Pérez, A; Rodriguez-Corrales, E; Vigil-Vázquez, S; Arriaga-Redondo, M; Merino-Hernández, A; Sánchez-Luna, M. *Impact of placental pathology on the risk of bronchopulmonary dysplasia in preterm infants: The role of gestational age and sex*. EUROPEAN JOURNAL OF PEDIATRICS. 2025; 184(3). IF: 2.9. Quartile: 1. (Article).

- Camuña, JI; Bragado, S; Pérez, A; González, P; Sánchez-Luna, M; Marsinyach, MI. *Baseline NIPE® index and heart rate variability in preterm infants: influence of maturity and clinical modulators*. EUROPEAN JOURNAL OF PEDIATRICS. 2025; 184(9). IF: 2.9. Quartile: 1. (Article).

- Merino-Hernández, A; Ramos-Navarro, C; Muñoz-Cutillas, A; Bellón-Alonso, S; Rodríguez-Cimadevilla, JL; González-Pacheco, N; Sánchez-Luna, M. *Long-term respiratory outcomes in school-aged children born before 32 weeks of gestation*. EUROPEAN JOURNAL OF PEDIATRICS. 2025; 184(6). IF: 2.9. Quartile: 1. (Article).

- Carbonell-Estrany, X; Simoes, EAF; Bont, L; Manzoni, P; Zar, HJ; Greenough, A; Ramilo, O; Stein, R; Law, B; Mejias, A; Luna, MS; Checchia, PA; Krilov, L; Lanari, M; Dagan, R; Fauroux, B; Resch, B; Heikkinen, T; Domachowske, JB; Wildenbeest, JG; Martinon-Torres, F; Thwaites, R; Cetinkaya, M; Alharbi, AS; Rodriguez-Martinez, CE; Noyola, DE; Kassim, A; Kusuda, S; Kang, JM; Rodgers-Gray, B; Platonova, A; Jah, F; Paes, B. *Twenty-five years of palivizumab: a global historic review of its impact on the burden of respiratory syncytial virus disease in children*. EXPERT REVIEW OF ANTI-INFECTIVE THERAPY. 2025. IF: 4.6. Quartile: 1. (Review).

- Mongodi, S; Cortegiani, A; Alonso-Ojembarrena, A; Biasucci, DG; Bos, LDJ; Bouhemad, B; Cantinotti, M; Ciuca, I; Corradi, F; Girard, M; Gregorio-Hernandez, R; Gualano, MR; Mojoli, F; Ntoumenopoulos, G; Pisani, L; Raimondi, F; Rodriguez-Fanjul, J; Savoia, M; Smit, MR; Tuinman, PR; Zieleskiewicz, L; De Luca, D. *ESICM-ESPNIC international expert consensus on quantitative lung ultrasound in intensive care*. INTENSIVE CARE MEDICINE. 2025; 51(6) 1022-1049. IF: 22. Quartile: 1. (Article).

- Gizzi, C; Petrillo, F; Ventura, ML; Gagliardi, L; Trevisanuto, D; Lista, G; Dellacà, R; Beke, A; Buonocore, G; Charitou, A; Cucerea, M; Filipovic-Grcic, B; Jeckova, NG; Koç, E; Saldanha, J; Sanchez-Luna, M; Stoniene, D; Varendi, H; Vertecchi, G; Orfeo, L; Mosca, F; Moretti, C. *Comparing Italian versus European strategies and technologies for respiratory care in NICU: results of a survey of the Union of European Neonatal and Perinatal Societies (UENPS) and the Italian Society of Neonatology (SIN)*. ITALIAN JOURNAL OF PEDIATRICS. 2025; 51(1). IF: 3.5. Quartile: 1. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Ortega, MA; Luis, JAL. *Technical Notes on Liver Elastography: A Guide for Use in Neonates in Intensive Care Units*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(5). IF: 3.3. Quartile: 1. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Recarte, MDP; Navarro, PG; González, PV; Rodríguez, CM; Martín, YR; Sanchez-Luna, M; Ortega, MA; Arribas, CB; Luís, JAL. *Reference Values for Liver Stiffness in Newborns by Gestational Age, Sex, and Weight Using Three Different Elastography Methods*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(15). IF: 3.3. Quartile: 1. (Article).

- De Luca, D; Sanchez-Luna, M; Raimondi, F; Deep, A; Hoskote, A; Ramelet, AS; Schettler, K. *Yes, it is time for a separate residency "Neonatal Critical Care Medicine": the European Society for Pediatric and Neonatal Intensive Care supports the proposal*. JOURNAL OF PERINATOLOGY. 2025; 46(2) 326-327. IF: 2.3. Quartile: 2. (Letter).

- de Agustin-Asensio, JC; Peláez-Mata, D; Monje-Fuente, S; Vázquez-González, P; Benito-Anguita, M. *Diaphragmatic paralysis after cardiac surgery in children: Long-term results of a simple thoracoscopic diaphragmatic plication technique*. JTCVS TECHNIQUES. 2025; 32 152-156. IF: 2.4. Quartile: 2. (Article).

- De Luca, D; Modi, N; Davis, P; Kusuda, S; de Wildt, SN; Keszler, M; Abbas-Hanif, A; Juul, SE; Turner, M; Pillow, JJ; Robertson, N; Sanchez-Luna, M; Tingay, DG; Benachi, A; Bustreo, F; Ianiro, G; Hanson, M; Deprest, J; De Coppi, P; van den Hoogen, A; Tarnow-Mordi, W; Zanin, A; Oei, JL; Zhang, HY; Lara-Diaz, VJ; Tooke, L; Flori, H; Ricciardi, W; Abman, SH. *The Lancet Child & Adolescent Health Commission on the future of neonatology*. LANCET CHILD & ADOLESCENT HEALTH. 2025; 9(8) 578-612. IF: 13.4. Quartile: 1. (Article).

- Manzoni, P; Baraldi, E; Midulla, F; Claris, O; Dessardo, S; Heikkinen, T; Thwaites, R; Paes, B; Carbonell-Estrany, X; Dobryanskyy, D; Cetinkaya, M; Al Harbi, AS; Kang, JM; Neo, AGE; Chi, H; Sant'Anna, G; Guillén, MV; Mariani, GL; Safadi, MAP; Urzua, S; Zar, HJ; Goussard, P; Rodgers-Gray, B; Waghorne, N; Luna, MS. *Systematic Review and Expert Consensus on the Use of Long-acting Monoclonal Antibodies for Prevention of Respiratory Syncytial Virus Disease: ARMADA (Advancing RSV Management And Disease Awareness) Taskforce*. OPEN FORUM INFECTIOUS DISEASES. 2025; 12(7). IF: 3.8. Quartile: 2. (Review).

- Raimondi F; Dolce P; Veropalumbo C; Sierchio E; Corsini I; Meneghin F; Lama S; Raschetti R; Varano S; Perri A; Bonadies L; Alonso Ojembarrena A; Rodriguez Fanjul J; Gregorio Hernandez R; Fernandez LR; Migliaro F; Salomè S; Pierri L; Dani C; Lista G; Mosca F; Carnielli V; Baraldi E; Vento G; Giordano L; Sanchez Luna M; Davis PG; Capasso L. *A Simplified, Regional Lung Ultrasound Score for Surfactant Administration in Neonatal RDS: A Prospective Observational Study*. PEDIATRIC PULMONOLOGY. 2025; 60(7). IF: 2.4. Quartile: 2. (Article).

- Luna, M; Pacheco, N. *"An opportunity to help neonates and small infants to breath in low and middle-income countries"*. PEDIATRIC RESEARCH. 2025. IF: 3.3. Quartile: 1. (Editorial Material).

- Ordóñez-Miyar, BD; Periáñez, JA; Blanco, D; Romero-Gómez, B; Valverde-López, B; Vellosillo, P; Carricondo, F. *Speech therapy assesement of non-nutritive sucking and neurodevelopment relationship in preterm children*. REVISTA DE INVESTIGACION EN LOGOPEDIA. 2025; 15(2). IF: 0.4. Quartile: 4. (Article).

- van As, AB; Sidler, D; Allema, JH; Leva, E; Marincowitz, GJO; Tonkin, S; Rose, PC; Govender, S; London, L; de Agustin, JC; Schimanek, C; de Bruin, G; Khamag, O; Peck, C; Almaliki, MS; Jaffer, MN; Hamunyela, KS; Arnold, M; Buckley, KH; Elhosny, A. *An open letter: In solidarity with all children suffering in wars; to all who hold or share a concern for the wellbeing of children*. SAMJ SOUTH AFRICAN MEDICAL JOURNAL. 2025; 115(2). IF: 1.4. Quartile: 2. (Letter).

- van As, AB; Sidler, D; Allema, JH; Leva, E; Marincowitz, GJO; Tonkin, S; Rose, PC; Govender, S; London, L; de Agustin, JC; Schimanek, C; de Bruin, G; Khamag, O; Peck, C; Almaliki, MS; Jaffer, MN; Hamunyela, KS; Arnold, M; Elhosny, A. *Response: Why solidarity with all children suffering in wars is not antisemitic*. SAMJ SOUTH AFRICAN MEDICAL JOURNAL. 2025; 115(5) 11-14. IF: 1.4. Quartile: 2. (Letter).

- Adriao, D; Mojoli, F; Hernandez, RG; De Luca, D; Bouhemad, B; Mongodi, S. *Ventilator-Associated Pneumonia: An Update on the Role of Lung Ultrasound in Adult, Pediatric, and Neonatal ICU Practice*. THERAPEUTIC ADVANCES IN PULMONARY AND CRITICAL CARE MEDICINE. 2025; 20. IF: 4.4. Quartile: 1. (Review).

***Other publications:***

- Bada Bosch I; García Casillas MA; Ordóñez J; Cerdá J; Pérez Egido L; Blanco Verdú MD; Sanjuan E; de Agustín JC. *Late presentation of esophageal bronchus in a patient with contralateral pulmonary hypoplasia: a diagnostic and therapeutic challenge.* CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(2) 68-73. (Article).

- Israel SD; Del Cañizo A; Monje S; Sáenz M; Bueno J; Ordóñez J; Pérez Egido L; García Casillas MA; Cerdá JA; Bada Bosch I; Fanjul M; Peláez D; de Agustín JC. *Gastrointestinal stromal tumor surgery in pediatrics.* CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(2) 74-76. (Article).

- Blanco Verdú MD; Bada Bosch I; Vatta F; Soto Beauregard C. *Literature review of pediatric robotic surgery in Spain.* CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(1) 1-6. (Article).

- Monje Fuente S; Del Cañizo López A; Ordóñez Pereira J; García-Casillas MA; Pérez Egido L; Bada Bosch I; Bueno Romero J; Cerdá Berrocal J; De La Torre Macías M; Cela De Julián E; González San Segundo C; de Agustín Asensio JC. *Intraoperative radiotherapy in the local control of chest wall Ewing sarcoma.* CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(3) 100-105. (Article).

- de Agustín Asensio JC. *Laparoscopic approach of anorectal malformations: Have we learnt anything in the past 10 years?*. CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(3) 83-84. (Editorial Material).

## *7.26 Evaluation of health services and clinical epidemiology*

Group Director: **Nieves López Fresneña**

Organisms involved: **HGUGM**

**Emerging Group**

*Description of the research group*

Evaluation of the use of health services and clinical epidemiology: adequacy of health care. Epidemiological research on patient safety and quality of care. Evaluation of HCAI prevention and control strategies. Epidemiology of antimicrobial resistance. Efficacy and effectiveness of vaccination in immunocompromised and at-risk groups.

## *Research lines*

**Axis 1: Evaluation of the use of health services.**

L1: Adequacy of the use of health services: over-utilisation
L2: Effectiveness of healthcare
L3: Qualitative research on quality of care
L4: Patient experience

**Axis 2: Clinical epidemiology**

L1: Epidemiology of adverse events associated with hospitalisation
L2: Epidemiology of healthcare-associated infection: frequency and associated factors
L3: Evaluation of HCAI prevention and control strategies
L4: Epidemiology of micro-organisms with multidrug-resistance to antimicrobials.
L5: Efficacy and effectiveness of vaccination of immunocompromised and at-risk groups.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGUILAR | BASTERRA | MARIA MERCEDES | Female | | Sin Definir |
| ALMENDRO | MARTINEZ | ISABEL | Female | R1 | First Stage Researcher |
| BACHILLER | VAZQUEZ | LIDIA | Female | | Sin Definir |
| CIFUENTES | ENRIQUEZ DE SALAMANCA | HELENA | Female | | Sin Definir |
| FERNANDEZ | GARCIA | MARIA JOSE | Female | | Sin Definir |
| GARCIA | CARRASCO | EMELY | Female | | Sin Definir |
| GARCIA | GARCIA | DANIEL | Male | | Sin Definir |
| GRANDE | ARNESTO | MARTA BEATRIZ | Female | | Sin Definir |
| HERNANDEZ | PUENTE | CRISTINA | Female | | Sin Definir |
| IZQUIERDO | MEMBRILLA | MARIA ISABEL | Female | | Sin Definir |
| LOPEZ | FRESNEÑA | NIEVES | Female | | Sin Definir |
| LOPEZ | GREGORIO | MARIA SONIA | Female | | Sin Definir |
| MARTIN | GARCIA | PAULA | Female | | Sin Definir |
| MARTINEZ | FELIX | CRISTINA | Female | | Sin Definir |
| MEDINA | BAILON | CARMEN | Female | | Sin Definir |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| MONTERO | NIETO | NATIVIDAD | Female | | Sin Definir |
| MORANO | VAZQUEZ | AITANA | Female | | Sin Definir |
| MUEDRA | | BENJAMIN | Male | | Sin Definir |
| ORDOÑEZ | LEON | GUILLERMO | Male | | Sin Definir |
| ORTEGA | CATALAN | MARIA | Female | | Sin Definir |
| PICHARDO | GALAN | FRANCISCO JAVIER | Male | | Sin Definir |
| RAPELA | FREIRE | ALBA | Female | | Sin Definir |
| RIOS | AYA | JOHANA | Female | | Sin Definir |
| RODRIGUEZ | CAMPELO | DAN | Male | | Sin Definir |
| ROJAS | CHICOTE | CARMEN | Female | | Sin Definir |
| RUANO | SANTA ENGRACIA | MARIA JESUS | Female | | Sin Definir |
| RUIZ | TORNERO | ANA | Female | | Sin Definir |
| SANTOS | JIMENEZ | JAVIER | Male | | Sin Definir |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **14***

| | Nº | IF |
|---|---|---|
| Own publications | 0 | 0 |
| Joint publications | 4 | 14 |
| First decile publications | 0 | - |
| First quartile publications | 1 | 5.4 |
| Second quartile publications | 2 | 5.8 |

| | | |
|---|---|---|
| Third quartile publications | 1 | 2.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **5** | **14** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Alayo, I; Pujol, O; Alonso, J; Ferrer, M; Amigo, F; Diest, APV; Aragonès, E; Peña, AA; Del Barco, AA; Campos, M; Espuga, M; González-Pinto, A; Haro, JM; López-Fresneña, N; de Salázar, ADM; Molina, JD; Ortí-Lucas, RM; Parellada, M; Pelayo-Terán, JM; Forjaz, MJ; Pérez-Zapata, A; Pijoan, JI; Plana, N; Polentinos-Castro, E; Puig, MT; Rius, C; Sanz, F; Serra, C; Urreta-Barallobre, I; Bruffaerts, R; Vieta, E; Pérez-Solá, V; Mortier, P; Vilagut, G. *Identifying most important predictors for suicidal thoughts and behaviours among healthcare workers active during the Spain COVID-19 pandemic: a machine-learning approach*. EPIDEMIOLOGY AND PSYCHIATRIC SCIENCES. 2025; 34. IF: 5.4. Quartile: 1. (Article).
- López-Camacho, E; Aguilera-Alonso, D; Buenestado-Serrano, S; Marín, M; Molero-Salinas, A; Fresneña, NL; Cercenado, E; Vicente, T; Herrera, L; Slocker-Barrio, M; Muñoz, P; Lozano, JS; Gómez, MLN; de Viedma, DG; Pérez-Lago, L. *Genomically-supported Redefinition of an Outbreak in a Pediatric Unit Caused by bla<sub>VIM</sub>-harboring Klebsiella michiganensis*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2025; 44(2) 166-173. IF: 2.3. Quartile: 2. (Article).
- Alvarez, DMC; García-Iglesias, J; Rojas-Chicote, C; Ruiz-Tornero, AM; Mozo-Martin, MR; Barrios-Escudero, V; Rodríguez-Barrientos, R. *Pneumococcal vaccination coverage: Residential Care Unit of the Community of Madrid*. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2025; 38(4). IF: 2.8. Quartile: 3. (Article).
- Chávez, ACF; López, PN; Martín, AD; Carmona, DLS; León, GYO; Andrés, JMA. *Serological Response After the Fourth Dose of COVID-19 Vaccine in Highly Immunosuppressed Patients*. VACCINES. 2025; 13(10). IF: 3.5. Quartile: 2. (Article).

***Other publications:***

Muedra B. *Territorial inequality in access to residential care for the elderly in Spain.* REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2025; 60(6) 101684-101684. (Article).

# *7.27 Hospital pharmacy and pharmacogenomics*

Group Director: **María Sanjurjo Sáez**

Organisms involved: **HGUGM**

**Consolidated Group**

## *Description of the research group*

The Hospital Pharmacy and Pharmacogenomics research group is part of the research area known as Large System Pathology and Organ Transplantation. This research group was established in 2009 and is currently classified as a consolidated group. Its head is Dr María Sanjurjo Sáez, Head of the Pharmacy Service. Its mission is to combine high-level scientific and technical clinical research with high-quality basic research in order to improve people's health and quality of life by contributing to scientific progress.

## *Research lines*

**Axis 1: Pharmacotherapy and Safety**

L1: Pharmaceutical Care and Quality in Pharmacotherapy

L2: Safety in the process of using the medicine

L3: New models in the manufacture of medicines

**Axis 2: Pharmacogenetics and Pharmacogenomics**

L1: Pharmacogenetics and Pharmacogenomics

## *Group members*

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| AGÜI | CALLEJAS | ANA MARIA | Female | R1 | First Stage Researcher |
| AIS | LARISGOITIA | MARÍA ARANZAZU | Female | R1 | First Stage Researcher |
| ALONSO | PEREZ | LUCIA | Female | R1 | First Stage Researcher |
| BAEZA | AUTILLO | MARIA AZUCENA | Female | | |
| BUSTELO | PAZ | FERNANDO | Male | R1 | First Stage Researcher |
| CABRER | BARCELO | ROSA | Female | R1 | First Stage Researcher |
| CARRILLO | BURDALLO | ANAIS | Female | R1 | First Stage Researcher |
| CHAMORRO | DE VEGA | ESTHER | Female | R2 | Recognised Researcher |
| COLLADO | BORRELL | ROBERTO | Male | R2 | Recognised Researcher |
| CORTES | GRAU | PAULA | Female | R1 | First Stage Researcher |
| DE LORENZO | PINTO | ANA | Female | R2 | Recognised Researcher |
| DEL BARRIO | BUESA | SILVIA | Female | R1 | First Stage Researcher |
| DOMINGUEZ | CHAPARRO | GONZALO | Male | R1 | First Stage Researcher |
| DURÁN | GARCÍA | MARÍA ESTHER | Female | R2 | Recognised Researcher |
| ESCUDERO | VILAPLANA | VICENTE | Male | R2 | Recognised Researcher |
| FERRIS | VILLANUEVA | MARÍA | Female | R1 | First Stage Researcher |
| GARCIA | MORENO | FELIX JESUS | Male | R1 | First Stage Researcher |
| GARCIA | SOUTO | ANA | Female | R1 | First Stage Researcher |
| GARCÍA | GONZÁLEZ | XANDRA | Female | R2 | Recognised Researcher |
| GIMENEZ | MANZORRO | ALVARO | Male | R2 | Recognised Researcher |
| GOMEZ | COSTAS | DANIEL | Male | R1 | First Stage Researcher |
| GONZÁLEZ-HABA | PEÑA | EVA | Female | R2 | Recognised Researcher |
| HERNANDEZ | OSIO | GINA MARIA | Female | Other | Other |
| HERRANZ | ALONSO | ANA | Female | R2 | Recognised Researcher |
| IBAÑEZ | GARCIA | SARA | Female | R2 | Recognised Researcher |
| JIMENEZ | VILLARON | CARLOS | Male | R1 | First Stage Researcher |
| LOBATO | MATILLA | MARÍA ELENA | Female | R1 | First Stage Researcher |
| LOPEZ | FERNANDEZ | LUIS ANDRES | Male | R3 | Established Researcher |
| LUCENA | CAMPILLO | MARIA AMPARO | Female | R1 | First Stage Researcher |
| MALDONADO | YAGÜE | LAURA | Female | R1 | First Stage Researcher |
| MANRIQUE | RODRIGUEZ | SILVIA | Female | R2 | Recognised Researcher |
| MARQUEZ | GOMEZ | IRENE | Female | R1 | First Stage Researcher |
| MARTIN | BARTOLOME | MARIA | Female | R1 | First Stage Researcher |
| MARTÍN | BARBERO | MARÍA LUISA | Female | R1 | First Stage Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| MARTÍNEZ | FERNÁNDEZ-LLAMAZARES | CECILIA | Female | R2 | Recognised Researcher |
| MATA | ALONSO | JAVIER | Male | R1 | First Stage Researcher |
| MAZOY | MEDIAVILLA | CARMEN | Female | R1 | First Stage Researcher |
| MONTERO | ANTON | MARÍA PILAR | Female | R1 | First Stage Researcher |
| MONTES | GOMEZ | JUAN MANUEL | Male | R1 | First Stage Researcher |
| MUR | MUR | ANA | Female | R1 | First Stage Researcher |
| PERNIA | LÓPEZ | MARÍA SAGRARIO | Female | R1 | First Stage Researcher |
| PEÑAHERRERA | PANTA | MEYBI JUDITH | Female | Other | Other |
| PRADO | LOZANO | ANDRES | Male | R1 | First Stage Researcher |
| PRIETO | ROMERO | ANTONIO | Male | R1 | First Stage Researcher |
| RAMOS | ALVAREZ | CLAUDIA | Female | R1 | First Stage Researcher |
| RANZ | ORTEGA | PILAR | Female | R1 | First Stage Researcher |
| REDONDO | GALAN | CARMEN | Female | R1 | First Stage Researcher |
| REVUELTA | HERRERO | JOSE LUIS | Male | R1 | First Stage Researcher |
| RIBED | SANCHEZ | ALMUDENA | Female | R2 | Recognised Researcher |
| RIOJA | DIEZ | YERAY | Male | R1 | First Stage Researcher |
| ROMERO | JIMENEZ | ROSA MARIA | Female | R2 | Recognised Researcher |
| RUIZ | BRIONES | PAULA | Female | R1 | First Stage Researcher |
| RUIZ | LOPEZ-ALVARADO | ALBERTO | Male | R1 | First Stage Researcher |
| SAENZ | MADRAZO | NEREA | Female | | |
| SALVADOR | MARTIN | SARA | Female | R2 | Recognised Researcher |
| SAMITIER | SAMITIER | DAVID | Male | R1 | First Stage Researcher |
| SANJURJO | SAEZ | MARÍA | Female | R4 | Leading Researcher |
| SAROBE | GONZALEZ | CAMINO | Female | R1 | First Stage Researcher |
| TALADRIZ | SENDER | IRENE | Female | R1 | First Stage Researcher |
| TORROBA | SANZ | BEATRIZ | Female | R1 | First Stage Researcher |
| VILLANUEVA | BUENO | CRISTINA | Female | R2 | Recognised Researcher |
| ZAPATA | COBO | PAULA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

### GROUP 7.27: Hospital pharmacy and pharmacogenomics

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |

| | | | | |
|---|---|---|---|---|
| **European** | | | | |
| **National** | **5** | | | |
| **Regional** | | | **1** | |

TITLE: **Instrumento automatizado para la evaluación del uso y la resistencia a los antimicrobianos (AI-AMS)** (CPP2022-009977)
DIRECTOR: SANJURJO SAEZ, MARÍA
PROJECT TYPE: Research project
FUNDING BODY: AGENCIA ESTATAL DE INVESTIGACION
START DATE: 01/05/2023
END DATE: 30/04/2026

TITLE: **Proyecto iPHARMGx: Estudio colaborativo nacional para evaluar la efectividad y eficiencia de la implementación de biomarcadores farmacogenéticos mediante una estrategia de genotipado anticipado en el SNS** (PMP22/00055)
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 14/12/2023
END DATE: 30/06/2026

TITLE: **Plataforma de inteligencia artificial para la evaluación automatizada de la calidad de vida y capacidad funcional en pacientes con cáncer colorrectal. Proyecto eB2-Mindcare.** (PI23/00405)
DIRECTOR: ESCUDERO VILAPLANA, VICENTE
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2024
END DATE: 31/12/2026

TITLE: **Medicina Personalizada de Precisión 2021 (Farmacia)** (PMP21/00051-2)
DIRECTOR: HERRANZ ALONSO, ANA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2022
END DATE: 30/06/2026

TITLE: **Desarrollo de una herramienta de predicción de respuesta a terapia biológica en niños con enfermedad inflamatoria intestinal** (PI22/00584)
DIRECTOR: LOPEZ FERNANDEZ, LUIS ANDRES
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **Grants for predoctoral research staff in training** PIPF-2022/SAL-GL-24790
DIRECTOR: Luis Andrés López Fernández (Paula Zapata Cobo)
PROJECT TYPE: Human Resources
FUNDING BODY: Comunidad Autónoma de Madrid
START DATE: 01/03/2024
END DATE: 29/02/2028

## *Industrial and intellectual property registrations*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Implantes personalizados con actividad antimicrobiana para prevenir y tratar infecciones óseas** | P202230220 | FIBHGM, UCM | Pablo Sanz, Almudena Ribed, Dolores Remedios, María Paloma Ballesteros, Elena María González, Luciano de León, Iván Yuste |

Transferred Industrial Property 31/12/2025

Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model).

### *Copyright*

| Title | Reference (nº solicitud) | Owner | Inventors |
|---|---|---|---|
| **Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos** | M-008355/2010 | FIBHGM | Amelia Caridad Sánchez y Silvia Manrique Rodríguez |
| **E-OncoSalud: programa de telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico** | M-008404/2015 | FIBHGM | María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez |
| **NEFRORULES - Base de datos para recomendaciones clínicas para el ajuste de fármacos por insuficiencia renal** | M-008407/2015 | 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 anticoagulados/antiagregados** | M-005565/2016 | FIBHGM | Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez |
| **Calculadora paciente diabético - ControlSugar 24-** | M-4105/2017 | FIBHGM | Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García |
| **PK-GUIDE: Guía para monitorización clínica de fármacos** | M-4409/2017 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |

| | | | |
|---|---|---|---|
| **PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética** | M-4410/2017 | FIBHGM | Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán |
| **Calculadora AMBAS: Calculadora para el manejo pre y postoperatorio del tratamiento antibiótico** | M-006098/2022 | FIBHGM | Francisco Chana, Ana de Lorenzo, Ana Herranz, Cristina Pascual, Almudena Ribed, María Sanjurjo |
| **Manual de atención farmacéutica al paciente oncohematológico** | M-004850/2021 | FIBHGM | José Luis Revuelta, Belén Marzal,Irene Taladriz, Eva González-Haba, Roberto Collado, Vicente Escudero, María Norberta Sánchez, Ana Herranz, María Sanjurjo |
| **Rentaensayos: Herramienta para analizar los costes evitados en medicamentos con los ensayos clínicos oncológicos** | M-000919/2022 | FIBHGM | Vicente Damián Escudero, María Sanjurjo, Ana Herranz, Eva González-Haba, Norberta Sánchez, Roberto Collado, José Luis Revuelta, Miguel Martín, Sebastián García, Ana Mur, María Sánchez, Belén Marzal |
| **eMIDCARE** | M-007783/2021 | FIBHGM | Vicente Damián Escudero, Rosa María Romero, Eshter Chamorro, María Aranzazu Ais, María Elena Lobato, Ana María Herranz, María Sanjurjo |
| **Guía para la implementación y medición de PROs en la Farmacia Oncológica** | 2512053940069 | FIBHGM | Vicente Escudero, Ana Herranz, Jose Luis Revuelta, María Sanjurjo, Esther Chamorro, Roberto Collado, Ana de Lorenzo, María Ferris, Carmen Redondo, Fernando Bustelo, Paula del Valle, Felix Jesús García, Álvaro Narrillos, Pilar Ranz, Paula Ruiz, Beatriz Somoza |

Transfered Intelectual Property 31/12/2025

## *Cooperative Research Structures*

| *Type (RICORS, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| Platform | Plataforma ISCIII de soporte para la investigación clínica | Collaborating group | |

## *Doctoral theses. Bachelor theses and Master theses*

| Type | Candidate | Title | Name/s Director/s | University | Date Defended |
|---|---|---|---|---|---|
| *Ph Thesis* | *Amor García, Miguel Ángel* | *Impact of an intelligent system for improving antimicrobial treatments at the hospital level* | *Rodríguez González, Carmen; Chamorro, Esther* | *UCM* | *29/10/2025* |

## *Clinical Practice Guidelines*

| Authors | Title | Journal / Reference |
|---|---|---|
| María José Otero, Belén Rodríguez Marrodan, Nuria Prieto Santos, Enrique Villalobos Pinto, Silvia Manrique Rodríguez, Rebeca Padilla Peinado, Cecilia M. Fernández-Llamazares, Aurora Madrid Rodríguez | Recommendations for the safe use of high-risk medications in pediatrics | **Anales de Pediatría / Farmacia Hospitalaria** An Pediatr (Engl Ed). 2025 Jul;103(1):503815. Farm Hosp. 2025 Jul-Aug;49(4):T252-T260 |
| Beatriz Somoza-Fernandez, Ana de Lorenzo-Pinto, Vicente Escudero-Vilaplana, Silvia Manrique-Rodriguez, Cristina Villanueva-Bueno, Maria Luisa Martin-Barbero, Carmen Redondo-Galan, Javier Calatayud-Garcia, Victor Gonzalez-Ramallo, Maria Sanjurjo-Saez | Standardizing hospital pharmacy practice in home hospitalization: results from a multidisciplinary Delphi consensus in Spain | **Frontiers in Public Health** Front Public Health. 2025 Nov 20;13:1707726 |
| Andrew Dickman, Penelope Tuffin, Rania Al-Jaber, Mona El-Harmeel, Jenny Schneider, Irene Taladriz-Sender, Adam Sutherland, James Waterson, Robert Terkola | Good clinical practice for intravenous medication administration line material filtration, and light protection: A modified Delphi consensus study | **JMIR Human Factors** JMIR Preprints. 25/11/2025:88333 |
| Mónica Climente Martí, María Dolores Edo Solsona, María Reyes Abad Sazatornil, María Pilar Bachiller Cacho, Sergio Fernández Espinola, Paula Guijarro Martínez, Elena Gras Colomer, Alicia Herrero Ambrosio, Silvia Manrique Rodríguez, Isabel Martín Herranz, José Manuel Martínez Sesmero, José Luis Poveda Andrés | OrPhar-SEFH 2024–2028 Strategic Plan | **Farmacia Hospitalaria** Farm Hosp. 2025 Jul-Aug;49(4):243-251 |
| Alicia Herrero Ambrosio, Cristian Rosas Espinoza, Jaime Feliú Batle, Javier Letéllez Fernández, Jose Miguel Ferrari Piquero, Juan Antonio Guerra Martínez, Juan Carlos Cámara Vicario, Luis Paz-Ares Rodríguez, Miguel Martín Jiménez, Montserrat Pérez Encinas, Pilar Garrido López, Raquel Moreno Díaz, Vanesa Alonso Castro, Vicente Escudero Vilaplana | Recommendations document for the optimization of immunotherapy dosing. Version 2 | **Consejería de Sanidad, Comunidad de Madrid** Madrid: Consejería de Sanidad, Servicio Madrileño de Salud; Mayo 2025. Available at: https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx |
| Álvaro Narrillos Moraza, Ana de Lorenzo Pinto, Beatriz Somoza Fernández, Beatriz Torroba Sanz, Carmen Redondo Galán, Esther Chamorro de Vega, Félix Jesús García Moreno, Fernando Bustelo Paz, José Luis Revuelta Herrero, María Ferris Villanueva, Paula del Valle Moreno, Paula Ruiz Briones, Pilar Ranz Ortega, Roberto Collado Borrell, Vicente Escudero Vilaplana | Guide for the implementation and measurement of PROs in Oncology Pharmacy | **Servicio de Farmacia, HGU Gregorio Marañón** ISBN: 978-84-09-86549-9. Madrid, 2025. |

| *Authors* | *Title* | *Journal / Reference* |
|---|---|---|
| Alejandro Moctezuma, Alejandro San Nicolás Medina, Alfons Viñuela Juárez, Ana María Leal Orozco, et al. (multiple authors) | Guide for the Implementation of value-based healthcare | **Sociedad Española de Calidad Asistencial** Madrid, 2025 |
| Ferrán Capdevila, María Serrano, Roberto Collado, Cristina González, Marta Mullera, María Teresa Rabuñal, Eduardo Tejedor, María del Puy, Anna Ferrer, Garbiñe Lizeaga, Concepción Martínez, Pilar Suñé, José Manuel Carretero | Excellence Guide for conducting clinical trials in Hospital Pharmacy | **Farmaindustria** ISBN: 978-84-09-73565-5. Madrid, 2025 |
| Mª José Otero, Aurora Madrid, Silvia Manrique, Cecilia Martínez, Belén Rodríguez, Enrique Villalobos | Recommendations for the safe use of high-risk medications in pediatrics | **Ministerio de Sanidad, Centro de Publicaciones** NIPO en línea: 133-25-053-3 |

## *Publications* *Total Impact Factor: **135,4***

| | **Nº** | **IF** |
|---|---|---|
| Own publications | 9 | 37.2 |
| Joint publications | 25 | 98.2 |
| First decile publications | 5 | 31.9 |
| First quartile publications | 20 | 105.8 |
| Second quartile publications | 5 | 14.7 |
| Third quartile publications | 9 | 14.9 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **34** | **135,4** |

### ***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Díaz-Navarro, M; Samitier, D; García-Moreno, F; Sanjurjo, M; Muñoz, P; Torroba, B; Guembe, M. *Is It Possible to Optimize the Elaboration and Preservation of a Vancomycin Catheter Lock Solution?*. ANTIBIOTICS-BASEL. 2025; 14(6). IF: 5.5. Quartile: 1. (Article).
- Martínez-Lozano, H; Saralegui-Gonzalez, P; Reigadas, E; Fueyo-Peláez, PR; García-García, A; Miranda-Bautista, J; Alcalá, L; Nieto, JC; Lobato-Matilla, ME; Marín-Jiménez, I; Muñoz, P; Menchén, L. *Risk factors for Clostridioides difficile infection among patients diagnosed with inflammatory intestinal and rheumatological diseases in the biologic era*. BMC GASTROENTEROLOGY. 2025; 25(1). IF: 3.2. Quartile: 2. (Article).
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# *7.28 Clinical nutrition*

Group Director: **María Cristina de la Cuerda Compés**

Organisms involved: **HGUGM**

**Emerging Group**

## *Description of the research group*

The mission of the Clinical Nutrition research group is to contribute to research in the area of nutrition, with the aim of improving the quality of life of patients with nutritional pathologies through a multidisciplinary approach.

## *Research lines*

**Axis 1. Assessment of nutritional status**

L1: Spanish translation and validation VGS-GP Questionnaire

L2: Nutritional Screening at hospital admission

L3: Role of Vitamin D deficiency in the key events of hepatic cyrosis and impact of supplementation

L4: Evolution of energy expenditure and blood levels of amino acids and acylcarnitines in patients undergoing haematopoietic precursor transplantation.

L5: Assessment of nutritional status and body composition in PC patients undergoing cytoreduction and QUIOH

L6: Sarcopenic obesity in severely obese patients

L7: Study of body composition and risk of non-hereditary metabolic diseases in adult patients with inherited metabolic diseases

L8: Assessment of sarcopenic obesity in the pneumology hospitalised patient

L9: Assessment of body composition in patients with head and neck cancer by bioimpedanciometry during radiotherapy treatment

**Axis 2. Artificial nutrition at home**

L1: Virtual Reality for management and care of central venous access for NPD

L2: Retrospective cost study in NPD and CIS patients

L3: VectivBio reports positive interim clinical data from STARS Nutrition, a phase 2 study investigating apraglutide in patients with short bowel syndrome with intestinal failure (SBS-IF) and continuous colon (CIC).

L4: Effect of Continued Nutritional support at Hospital Discharge on Mortality, Frailty, Functional Outcomes and Recovery Trial: Project EFFORT II

L5: Effects of enteral nutrition on quality of life in patients with Amyotrophic Lateral Sclerosis: a real-life study.

L6: A prospective multicentre registry for patients with short bowel syndrome

L7: Incidence of Chronic Intestinal Failure Due to Short Bowel Syndrome (SBS-IF) in Adults: An International Survey.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARNORIAGA | RODRIGUEZ | MARÍA | Female | R3 | Established Researcher |
| BIELZA | GONZALEZ | MARIA ATOCHA | Female | R1 | First Stage Researcher |
| BRETÓN | LESMES | IRENE | Female | R3 | Established Researcher |
| CAMBLOR | ÁLVAREZ | MIGUEL | Male | R1 | First Stage Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| CARRASCAL | FABIAN | Mª LUISA | Female | | Sin Definir |
| DE LA CUERDA | COMPÉS | MARÍA CRISTINA | Female | R4 | Leading Researcher |
| GARCIA | CENTENO | ROGELIO | Male | R1 | First Stage Researcher |
| HERNANDEZ | HERNANDEZ | TAMARA | Female | R1 | First Stage Researcher |
| RODRIGUEZ | HERRERA | BEATRIZ | Female | R1 | First Stage Researcher |
| SERRANO | MORENO | CLARA | Female | R1 | First Stage Researcher |
| VELASCO | GIMENO | CRISTINA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **158,8***

| | Nº | IF |
|---|---|---|
| Own publications | 4 | 12.4 |
| Joint publications | 32 | 146.4 |
| First decile publications | 7 | 50.3 |
| First quartile publications | 18 | 105.4 |
| Second quartile publications | 10 | 36.9 |
| Third quartile publications | 8 | 16.5 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 4 | - |
| **Total publications (including those without IF)** | **40** | **158,8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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Papavramidis, T; Gómez, PRD; Aldrees, A; Altwjry, T; Valdes, N; alvarez-Escola, C; Sanz, IG; Carrera, CB; Manjón-Miguélez, L; Novoa, PD; Recasens, M; Centeno, RG; Lázaro, CR; van den Heede, K; Van Slycke, S; Michalopoulou, T; Aspinall, S; Melvin, R; Lau, JWL; Cheah, WK; Tang, MH; Oh, HB; Ayuk, J; Sutcliffe, RP; Int Pheo Study Grp. *ASO Visual Abstract: Outcomes for Patients with Obesity Undergoing Adrenalectomy for Pheochromocytoma-An International Multicenter Analysis*. ANNALS OF SURGICAL ONCOLOGY. 2025; 32(4) 2376-2378. IF: 3.8. Quartile: 1. (Editorial Material).

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# *7.29 Pharmacology and vascular pathophysiology*

Group Director: **Francisco Pérez-Vizcaíno**

Organisms involved: **UCM**

**Consolidated Group**

## *Description of the research group*

Pulmonary hypertension is a condition characterised by increased pulmonary vascular resistance, the pathophysiology of which is complex and not yet well understood. Our interest is primarily focused on the mechanisms involved in pulmonary vasodilation and cell proliferation inhibition in order to identify and design new drugs that may be potentially useful in the treatment of pulmonary hypertension.

Acute lung injury (ALI) or its most severe form, acute respiratory distress syndrome (ARDS), is characterised by pulmonary oedema and alveolar collapse leading to severe arterial hypoxaemia. Although protective ventilatory support strategies have improved patient prognosis, the associated mortality remains unacceptably high. Our interest is focused on characterising the pulmonary vascular inflammatory response associated with acute lung injury and identifying therapeutic targets to improve the prognosis in these patients.

Our work focuses on analysing the pathophysiological and therapeutic role of different signalling pathways in these pathologies: 1) Vitamin D and VDR signalling, 2) K+ channels, 3) Endothelial progenitor cells.

## *Research lines*

**Axis 1: Pulmonary Hypertension**

L1: Pulmonary vascular dysfunction in pulmonary hypertension (PH).

L2: Role of vitamin D and the microbiota in pulmonary hypertension (PH)
L3: Role of TASK1 and Kv7 potassium channels in pulmonary hypertension.
L4: Role of mutations in the KCNA5 gene in pulmonary hypertension patients
L5: Liver-lung axis. How liver exosomes from healthy and cirrhotic animals influence the lung.

**Axis 2: Erectile dysfunction**

L1: Role of vitamin D and microbiota in erectile dysfunction.

**Axis 3: Acute lung damage**

L1: Acute respiratory distress syndrome (ARDS)
L2: Bronchodysplasia of the lung (BDP)

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| BARREIRA | BARBA | BIANCA | Female | R1 | First Stage Researcher |
| CLIMENT | FLOREZ | BELEN | Female | R2 | Recognised Researcher |
| COGOLLUDO | TORRALBA | ÁNGEL | Male | R4 | Leading Researcher |
| CONDE | YAÑEZ | ANA | Female | R1 | First Stage Researcher |
| DA COSTA | ADAO | RUI MIGUEL | Male | R2 | Recognised Researcher |
| GIMENO | LONGAS | MARIA JOSE | Female | R2 | Recognised Researcher |
| HERNANDEZ | GARCIA | ANA | Female | R1 | First Stage Researcher |
| MORALES | CANO | DANIEL | Male | R2 | Recognised Researcher |
| MORENO | GUTIERREZ | LAURA | Female | R4 | Leading Researcher |
| NAVARRO | DORADO | JORGE | Male | R2 | Recognised Researcher |
| PEREZ | VIZCAINO | FRANCISCO | Male | R4 | Leading Researcher |
| SANCHO | GONZALEZ | MARIA | Female | R3 | Established Researcher |
| SOSA | CALLEJAS | PATRICIA | Female | R2 | Recognised Researcher |
| VILLEGAS | ESGUEVILLAS | MARTA | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

### GROUP 7.29: Pharmacology and vascular pathophysiology

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | 2 | | |
| **Regional** | | 2 | | 2 |

TITLE: **Papel del inflamasoma en la disfunción de células progenitoras endoteliales en pacientes con hipertensión arterial pulmonar asociada a cardiopatías congénitas** (PI22/01302)
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023

END DATE: 30/06/2027

* **Not managed by the FIBHGM**

TITLE: **Mecanismos moleculares y nuevas estrategias terapéuticas en la disfunción endotelial asociada a hipertensión pulmonar, disfunción eréctil y disfunción sexual femenina. (EndoDis)**. PID2024-155613OB-I00
DIRECTOR: PEREZ VIZCAINO, FRANCISCO
PROJECT TYPE: Research project
FUNDING BODY: Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-202
START DATE: 01/09/2025
END DATE: 31/08/2028

TITLE: **Análisis del Papel de los canales Kir2 y KATP en la Hipertensión Arterial Pulmonar (Kir2/KATP_PAH)**. PID2023-147925OA-I00
DIRECTOR: SANCHO GONZALEZ, MARIA
PROJECT TYPE: Research project
FUNDING BODY: Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-202
START DATE: 01/09/2024
END DATE: 31/08/2028

TITLE: **Vesículas extracelulares en la fisiopatología hepática: Relevancia mecanística, diagnóstica y terapéutica**. S2022/BMD-7409,
DIRECTOR: MORENO GUTIERREZ, LAURA
PROJECT TYPE: Research project
FUNDING BODY: CAM
START DATE: 01/01/2023
END DATE: 31/12/2026

TITLE: **The Role of N-Ras in the Development of Pulmonary Hypertension**. PR17/24
DIRECTOR: MORALES CANO, DANIEL
PROJECT TYPE: Research project
FUNDING BODY: UCM
START DATE: 01/01/2025
END DATE: 31/12/2026

TITLE: **Pre-doctoral contracts for trainee researchers.**
DIRECTOR: LAURA MORENO GUTIERREZ (ANA CONDE YAÑEZ)
PROJECT TYPE: Human Resources
FUNDING BODY: UCM
START DATE: 01/02/2026
END DATE: 31/01/2030

TITLE: **"César Nombela" Grants to Attract Research Talent.**
DIRECTOR: FRANCISCO PEREZ VIZCAINO (Rui Adão)
PROJECT TYPE: Human Resources
FUNDING BODY: CAM
START DATE: 01/02/2026
END DATE: 31/01/2031

## *Doctoral theses. Bachelor theses and Master theses*

| *Type* | *Candidate* | *Title* | *Name/s Director/s* | *University* | *Date Defended* |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| *Ph Thesis* | *Dos Santos Peixoto Gomes, Joana* | *Pathophysiological role of mir-146a in Pulmonary Arterial Hypertension - Therapeutic implications* | *Brás Silva Ribeiro, Carmen; Miguel da Costa Adão, Rui; Perros, Frédéric* | *Universidad de Oporto* | *18/12/2025* |

*Publications* *Total Impact Factor: **37,9***

| | Nº | IF |
|---|---|---|
| Own publications | 4 | 26.6 |
| Joint publications | 2 | 11.3 |
| First decile publications | 2 | 20 |
| First quartile publications | 4 | 30.6 |
| Second quartile publications | 2 | 7.3 |
| Third quartile publications | 0 | 0 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **6** | **37,9** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Adao, R; Barreira, B; Paternoster, E; Morales-Cano, D; Olivencia, MA; Quintana-Villamandos, B; Rodríguez-Chiaradía, DA; Cogolludo, A; Perez-Vizcaino, F. *Vitamin D as an add-on therapy to phosphodiesterase-5 inhibitor in experimental pulmonary arterial hypertension*. AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. 2025; 328(2) 253-259. IF: 3.8. Quartile: 1. (Article).
- Assis, MQ; Leite, LB; Guimaraes-Ervilha, LO; Adao, R; Reis, ECC; Natali, AJ; Machado-Neves, M. *Pulmonary Arterial Hypertension-Induced Reproductive Damage: Effects of Combined Physical Training on Testicular and Epididymal Parameters in Rats*. BIOMEDICINES. 2025; 13(2). IF: 4.5. Quartile: 2. (Article).
- Olivencia, MA; Climent, B; Barreira, B; Morales-Cano, D; Sánchez, A; Fernández, A; García-Gómez, B; Romero-Otero, J; Rodríguez, C; Moreno, L; Prieto, D; Larriba, MJ; Cogolludo, A; Angulo, J; Perez-Vizcaino, F. *Vitamin D deficiency induces erectile dysfunction: Role of superoxide and Slpi*. BRITISH JOURNAL OF PHARMACOLOGY. 2025; 182(15) 3669-3687. IF: 7.5. Quartile: 1. (Article).
- Adão R; Iadecola C. *Scientists on the spot: Costantino Iadecola.* CARDIOVASCULAR RESEARCH. 2025; 120(18). IF: 12.5. Quartile: 1. (Article).
- Willer, AS; Ruffenach, G; Masson, B; El Jekmek, K; Boët, A; Adao, R; Gourmelon, M; Beauvais, A; Sabourin, J; Dutheil, M; Ghigna, MR; Tesson, L; Ménoret, S; Anegon, I; Bauer, F; de Montpréville, V; Hebbar, S; Brás-Silva, C; Stauderman, K; Humbert, M; Mercier, O; Montani, D; Capuano, V; Antigny, F. *Combination of Orai1 inhibitor CM5480 with specific therapy mitigates pulmonary hypertension and its cardiac dysfunction*. JCI INSIGHT. 2025; 10(21). IF: 6.8. Quartile: 1. (Article).
- Barreira, B; Ricarte, JJ; Ros, L; Fernández-Pérez, D. *Association between trait rumination and co-rumination in instant messaging and its possible relationship to depressive symptomatology*. PERSONALITY AND INDIVIDUAL DIFFERENCES. 2025; 244. IF: 2.8. Quartile: 2. (Article).

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

Group Director: **Santiago Lizárraga Bonelli and Juan Antonio de León Luis**

Organisms involved: **HGUGM**

**Emerging Group**

## *Research lines*

L1: Role of the maternal. placental. and embryonic profile in maternal-perinatal morbidity and mortality
L2: Hemodynamic changes in adverse perinatal outcomes
L3: Cancer and pregnancy
L4: Algorithm for ultrasound examination of the extended fetal cardiovascular system
L5: Maternal-perinatal morbitidy and mortality in twin pregnancies
L6: Fetal surgery in the monochorionic pregnancy
L7: Care during labor and breastfeeding
L8: Maternal-neonatal morbidity and mortality during and after labor
L9: Role of female sex hormones on vaginal immunity
L10: Role of progesterone on development of melanoma
L11: Chemotherapy-induced ovarian failure
L12: Genomic predictors of response to therapy in breast cancer
L13: Prediction of response to taxane-based adjuvant chemotherapy in breast cancer
L14: Multimodal guidance and planning in breast cancer surgery
L15: Conservative and surgical treatment in gynecological disease

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARDOY | VILCHES | MANUEL | Male | R1 | First Stage Researcher |
| ARRIBAS | POZA | PATRICIA | Female | R1 | First Stage Researcher |
| BRAVO | ARRIBAS | CORAL | Female | R2 | Recognised Researcher |
| CEBALLOS | GARCIA | ELENA | Female | R2 | Recognised Researcher |
| CUESTA | CAMPINS | NIEVES | Female | R1 | First Stage Researcher |
| DE LEÓN | LUIS | JUAN ANTONIO | Male | R4 | Leading Researcher |
| GARCÍA | DÍAZ | CECILIA | Female | R1 | First Stage Researcher |
| GARCIA | RUIZ | ESTHER MARIA | Female | R1 | First Stage Researcher |
| GARCIA TIZON | LARROCA | SANTIAGO | Male | R2 | Recognised Researcher |
| GERSOL | FERNANDEZ | SANDRA | Female | R1 | First Stage Researcher |
| GOMEZ | ORO | CARLA | Female | R1 | First Stage Researcher |
| LIZARRAGA | BONELLI | SANTIAGO | Male | R4 | Leading Researcher |
| LLAMAS | SANTOS | LETICIA | Female | R1 | First Stage Researcher |
| MARICALVA | AGUDO | BARBARA | Female | | Sin Definir |
| MARTINEZ | PAYO | CRISTINA | Female | R3 | Established Researcher |
| MENDIZABAL | VICENTE | ELSA | Female | R2 | Recognised Researcher |
| MENÉNDEZ DE LUARCA | BELLIDO | PATRICIA | Female | R1 | First Stage Researcher |
| MERCADER | CIDONCHA | ENRIQUE | Male | R2 | Recognised Researcher |
| MORENO | HERNANDEZ | SONSOLES | Female | R1 | First Stage Researcher |
| MORENO | MOLINERO | VERONICA | Female | R1 | First Stage Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| MORENO | OCHOA | LAURA | Female | | Sin Definir |
| MUÑOZ-CHAPULÍ | GUTIERREZ | MAR | Female | R1 | First Stage Researcher |
| NAVARRO | GONZALEZ | TERESA | Female | R1 | First Stage Researcher |
| PENA | BURGOS | EVA MANUELA | Female | | Sin Definir |
| PÉREZ | FERNÁNDEZ-PACHECO | RICARDO | Male | R2 | Recognised Researcher |
| PÉREZ | MILÁN | FEDERICO | Male | R2 | Recognised Researcher |
| PINTADO | RECARTE | MARIA DEL PILAR | Female | R2 | Recognised Researcher |
| RELLOSO | CERECEDA | MIGUEL | Male | R3 | Established Researcher |
| RUIZ | LABARTA | FRANCISCO JAVIER | Male | R1 | First Stage Researcher |
| SOBRINO | FRIAS | LAURA | Female | | Sin Definir |
| TROBO | MARINA | DUNA | Female | R1 | First Stage Researcher |
| VEIGA | FERNANDEZ | AMANDA | Female | R1 | First Stage Researcher |
| VIÑUELA | BENEITEZ | MARÍA DEL CARMEN | Female | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **2** | | | |
| **Regional** | | | | |

TITLE: **Utilidad de un simulador de realidad virtual inmersiva en la formación médica del parto vaginal : un ensayo controlado aleatorizado** (PI24/00734)
DIRECTOR: DE LEÓN LUIS, JUAN ANTONIO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Valor de los anticuerpos anti-espermatozoides como marcadores de daño testicular por SARS-CoV-2 en la post-pandemia y su efecto en enfermedades de transmisión sexual** (PI22/00035)
DIRECTOR: RELLOSO CERECEDA, MIGUEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

## *Industrial and intellectual property registrations*

*Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Docencia virtual en la asistencia al parto vaginal en 3D** | M-008487/2018 | FIBHGM | Juan Antonio de León |
| **Pelvitrainer anatómico** | M-001080/2022 | FIBHGM | Juan Antonio León, Coral Bravo |

Transfered Intelectual Property 31/12/2025

## *Publications* *Total Impact Factor: **67,8***

| | Nº | IF |
|---|---|---|
| Own publications | 15 | 51.1 |
| Joint publications | 4 | 16.7 |
| First decile publications | 3 | 17.2 |
| First quartile publications | 12 | 53.6 |
| Second quartile publications | 3 | 8.4 |
| Third quartile publications | 3 | 4.9 |
| Fourth quartile publications | 1 | 0.9 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **20** | **67,8** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Alfano, F; Navas, P; Lamata, P; García, KF; Ortuño, JE; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Goicolea, JM; Ledesma-Carbayo, MJ. *Patient-specific visco-hyperelastic mechanical model for breast tumor localization in surgical planning*. BIOENGINEERING & TRANSLATIONAL MEDICINE. 2025; 11(1). IF: 6.2. Quartile: 1. (Article).
- Pena-Burgos, EM; López-Ferrer, P; Pozo-Kreilinger, JJ; Rodriguez-García, AM. *Cytomorphological Features of Fine Needle Aspiration in 11 Conventional and 2 Dedifferentiated Chordomas: Correlation With Histopathology*. DIAGNOSTIC CYTOPATHOLOGY. 2025; 53(10) 194-198. IF: 0.9. Quartile: 4. (Article).
- Pena-Burgos, EM; del Carpio, GS; Tapia-Viñe, M; Suárez-González, J; Buño, I; Ortiz-Cruz, E; Pozo-Kreilinger, JJ. *Liposclerosing Myxofibrous Tumor: A Separated Clinical Entity?*. DIAGNOSTICS. 2025; 15(5). IF: 3.8. Quartile: 1. (Article).
- Pena-Burgos, EM; De la Calle, M; Pozo-Kreilinger, JJ; García-Díaz, C; Regojo-Zapata, RM. *Placental Pathological Findings and Clinical Outcomes in Triplet Pregnancies Conceived via Oocyte Donation and Non-Oocyte Donation: A Case-Control Study*. DIAGNOSTICS. 2025; 15(21). IF: 3.8. Quartile: 1. (Article).
- Medina, AA; Dos Santos, VG; Ojeda, CM; Sanjuanbenito, A; Gómez-Ramirez, J; Mercader, E; Hanzu, FA; Zarain, L; Vidal, O; Muriel, A; Araujo-Castro, M. *The role of adrenal-sparing surgery in the management of aldosterone-producing adenoma: a systematic review and meta-analysis*. EUROPEAN JOURNAL OF ENDOCRINOLOGY. 2025; 193(3) 36-52. IF: 6.7. Quartile: 1. (Review).

- Pacheco, LA; Carugno, J; Alcázar, JL; Caballero, M; Roig, MC; Mereu, L; Domínguez, JA; Moratalla, E; Saponara, S; Vitale, SG; Millán, FP. *Infantile uterus and uterine hypoplasia: a comprehensive overview to explore possible managements amidst limited scientific certainties*. FACTS VIEWS AND VISION IN OBGYN. 2025; 17(1) 5-14. IF: 1.5. Quartile: 3. (Article).

- Pena-Burgos, EM; Duart, MA; Lotto, FA; Bravo-Arribas, C; Martínez-Payo, C; De León-Luis, JA; Suárez-González, J; Pozo-Kreilinger, JJ; Regojo-Zapata, RM. *Intrauterine-diagnosed fetal intracranial adamantinomatous craniopharyngioma: A case report with histopathological and molecular characterization*. INTERNATIONAL JOURNAL OF GYNECOLOGY & OBSTETRICS. 2025. IF: 2.7. Quartile: 2. (Article).

- Burrel, LP; Lotto, FA; Fernández-Pacheco, RAP; Pérez, MS; Van der Biezen, A; Benéitez, MDV. *Intracranial fetal teratoma: Case report and literature review*. INTERNATIONAL JOURNAL OF GYNECOLOGY & OBSTETRICS. 2025; 170(3) 1107-1116. IF: 2.7. Quartile: 2. (Review).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Ortega, MA; Luis, JAL. *Technical Notes on Liver Elastography: A Guide for Use in Neonates in Intensive Care Units*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(5). IF: 3.3. Quartile: 1. (Article).

- Zapata, AL; del Hoyo, AA; de Orgaz, MDSG; Recarte, MDP; Navarro, PG; González, PV; Rodríguez, CM; Martín, YR; Sanchez-Luna, M; Ortega, MA; Arribas, CB; Luís, JAL. *Reference Values for Liver Stiffness in Newborns by Gestational Age, Sex, and Weight Using Three Different Elastography Methods*. JOURNAL OF CLINICAL MEDICINE. 2025; 14(15). IF: 3.3. Quartile: 1. (Article).

- Ríos, A; Amunategui, I; Pardo, JR; Puñal, JA; Moreno-Llorente, P; Mercader, E; Herrero, EF; Morlán, MA; Martín, J; Durán-Poveda, M; Bravo, JM; Casanova, D; Salvador-Egea, MP; Torregrosa, NM; Exposito-Rodríguez, A; Martínez-Fernández, G; Carrion, AM; Vidal, O; Herrera, F; Villar, J; Sabater, C; Magdalena, CJ; Ros, S; González-Pérez, M; Ruiz-Merino, G; González, JMR. *Recurrence factors in familial papillary thyroid carcinoma*. MINERVA ENDOCRINOLOGY. 2025. IF: 2.3. Quartile: 3. (Article).

- Pena-Burgos, EM; Regojo-Zapata, RM; Caballero-Ferrero, A; Martínez-Payo, C; Vinuela-Benéitez, MD; Montero, D; de la Calle, M. *The Spectrum of Placental Findings of First-Trimester Cytomegalovirus Infection Related to the Presence of Symptoms in the Newborns and Stillbirths*. MODERN PATHOLOGY. 2025; 38(9). IF: 6.6. Quartile: 1. (Article).

- Pena-Burgos, EM; de la Calle, M; Pozo-Kreilinger, JJ; Regojo-Zapata, RM. *Gross and Histopathological Findings of 111 Triplet Placentas: A Descriptive Analysis*. PEDIATRIC AND DEVELOPMENTAL PATHOLOGY. 2025; 29(1) 20-26. IF: 1.1. Quartile: 3. (Article).

- Pena-Burgos, EM; de la Calle, M; Pozo-Kreilinger, JJ; Regojo-Zapata, RM. *Placental pathological findings in triplet pregnancies conceived through assisted reproductive technology: a study of 98 cases*. PLACENTA. 2025; 168 159-167. IF: 3.1. Quartile: 1. (Article).

- Pena-Burgos, EM; Duyos-Mateo, I; Hato-Salmón, L; Antolín-Alvarado, E; Arribas, CB; De León-Luis, JAE; Regojo-Zapata, RM. *Massive subchorionic thrombohematoma (Breus' mole): An exceedingly rare placental disorder-Case series and systematic review*. PLACENTA. 2025; 168 276-287. IF: 3.1. Quartile: 1. (Review).

- Pena-Burgos, EM; García-Munuera, E; Pozo-Kreilinger, JJ; Regojo-Zapata, RM; De La Calle, M. *Smaller placentas and maternal vascular malperfusion are associated with worse pregnancy outcomes in triplet pregnancies with a monochorionic component*. PLACENTA. 2025; 170 75-81. IF: 3.1. Quartile: 1. (Article).

- Pérez-Milán, F; Caballero-Campo, M; Carrera-Roig, M; Domínguez-Arroyo, JA; Moratalla-Bartolomé, E; Alcázar-Zambrano, JL; Alonso-Pacheco, L; Carugno, JA; Puente-Agueda, JM; Haimovich, S. *Impact of endometrial thickness on reproductive outcome in fresh and frozen-thawed embryo transfer: systematic review and meta-analysis*. ULTRASOUND IN OBSTETRICS & GYNECOLOGY. 2025; 66(3) 271-281. IF: 5.3. Quartile: 1. (Review).

- Pérez-Milán, F; Caballero-Campo, M; Carrera-Roig, M; Moratalla-Bartolomé, E; Domínguez-Arroyo, JA; Alcázar-Zambrano, JL; Alonso-Pacheco, L; Carugno, JA; Spanish Fertility Soc Special Interest Grp Organic Reprod Disorders. *Hydrosalpinx treatment before in-vitro fertilization: systematic review and network meta-analysis*. ULTRASOUND IN OBSTETRICS & GYNECOLOGY. 2025; 65(4) 414-426. IF: 5.3. Quartile: 1. (Review).

- Pena-Burgos, EM; Agra-Pujol, C; Alijo-Serrano, F; Ferreira, LL; Santos, LM; Cuervo-Dehesa, M; Santos-Briz, A; García-Patos, PE; García, AT; Tapia-Viñe, M; Suárez-González, J; Pozo-Kreilinger, JJ. *Malignant chondroblastoma of the rib with scalp metastases in an adult patient: case report with molecular characterization*. VIRCHOWS ARCHIV. 2025. IF: 3. Quartile: 2. (Article).

***Other publications:***

- Fraile-Martinez O; García-Montero C; Pekarek T; Bujan J; Barrena-Blázquez S; Pena-Burgos EM; López-González L; Pekarek L; Díaz-Pedrero R; De León-Luis JA; Bravo C; Álvarez-Mon M; Saez MA; García-Honduvilla N; Ortega MA. *Dysregulation of Circadian Markers, HAT1 and Associated Epigenetic Proteins, and the Anti-Aging Protein KLOTHO in*

*Placenta of Pregnant Women with Chronic Venous Disease*. JOURNAL OF PERSONALIZED MEDICINE. 2025; 15(3). (Article).

# *7.32 Physical medicine and rehabilitation*

Group Director: **Marta Supervía Pola and Sonia Esteban**

Organisms involved: **HGUGM**

**Emerging Group**

## *Research lines*

L1: Evolution of body composition in cardiac rehabilitation.

L2: Chemotherapy-Induced Polyneuropathy in the Lower Limbs: Hunova® Robotic Posturography Versus Conventional Therapy.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ARROYO | RIAÑO | OLGA | Female | R2 | Recognised Researcher |
| CRESPO | COBO | PILAR | Female | R2 | Recognised Researcher |
| DEL BARCO | LUENGO | CESAR BERNABE | Male | R1 | First Stage Researcher |
| ECHEVARRIA | ULLOA | MIRLEY | Female | R2 | Recognised Researcher |
| ESTEBAN | ROMAN | SONIA | Female | R4 | Leading Researcher |
| REBOREDO | REDONDAS | MARIA DOLORES | Female | R1 | First Stage Researcher |
| SUPERVIA | POLA | MARTA | Female | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | | | | |
| **European** | | | | |
| **National** | 1 | | | |
| **Regional** | | | | |

TITLE: **EXPLORER: Primer portfolio de dispositivos de uso doméstico destinado a la rehabilitación de pacientes afectados por trastornos de la marcha** (PMPTA22/00106)
DIRECTOR: ARROYO RIAÑO, OLGA
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2025

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Decálogo para un liderazgo humanizado en el HGUGM** | 2503191205677 | FIBHGM | María Dolores Reboredo, Francisco Carrascosa |

Transfered Intelectual Property 31/12/2025

*Publications* *Total Impact Factor: **7,4***

| | Nº | IF |
|---|---|---|
| Own publications | 1 | 0.6 |
| Joint publications | 3 | 6.8 |
| First decile publications | 0 | - |
| First quartile publications | 0 | 0 |
| Second quartile publications | 1 | 4.1 |
| Third quartile publications | 1 | 2.1 |
| Fourth quartile publications | 2 | 1.2 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **4** | **7,4** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Lecube, A; Zamorad, JI; Azriel, S; Barreiro, E; Blay, G; Carretero-Gomez, J; Ciudin, A; Fernández-García, JM; Flores, L; de Hollanda, A; Lopez-Martinez, M; Martinez, E; Miñambresc, I; Moize, V; Morales, C; Ramírez, V; Salvador, J; Supervía, M; Valentí, V; Vicente-Rodríguez, G; Vilarrasa, N; Malagon, MM; Soler, MJ. *Promoting a turnaround in the management of renal disease in obese patients*. NEFROLOGIA. 2025; 45(8). IF: 2.1. Quartile: 3. (Editorial Material).
- Lecube, A; Azriel, S; Barreiro, E; Blay, G; Carretero-Gómez, J; Ciudin, A; Fernández, JM; Flores, L; de Hollanda, A; Martínez, E; Miñambres, I; Moizé, V; Morales, C; Ramírez, V; Salvador, J; Soler, MJ; Supervía, M; Valenti, V; Vicente-Rodríguez, G; Vilarrasa, N; Malagón, MM. *The Spanish GIRO Guideline: A Paradigm Shift in the Management of Obesity in Adults*. OBESITY FACTS. 2025; 18(4) 375-387. IF: 4.1. Quartile: 2. (Article).
- Rueda, LS; Supervia, M; Murieta, ES; Laxe, S; Morata, AB; Arroyo-Riaño, O; Figueroa, J; de Miguel, C; Munain, MLLD. *Rehabilitation in patients with obesity: Approach and role of the rehabilitation physician in management. Data from the survey by the Obesity and Sarcopenia Working Group of the Spanish Society of Rehabilitation and Physical Medicine*. REHABILITACION. 2025; 59(1). IF: 0.6. Quartile: 4. (Article).
- Arrieta-Bartolomé, G; Supervía, M; Laxe, S. *Beyond Subjective Impressions: Results of an online survey over outcome measures among the Rehabilitation Doctors in Spain*. REHABILITACION. 2025; 59(3). IF: 0.6. Quartile: 4. (Article).

## *7.33 Pathological Anatomy*

Group Director: **Javier Menárguez Palanca (until 5-2024) and Miguel Ángel Idoate Gastearena (from 6-2024)**

Organisms involved: **HGUGM**

**Emerging Group**

*Research lines*

L1: Prognostic and predictive factors in digestive cancer.
L2: Prognostic and predictive factors in urogenital cancer.
L3: Prognostic and predictive factors in sarcomas.
L4: Prognostic and predictive factors in CNS neoplasms.
L5: Prognostic factors in lupus nephropathy.
L6: Renal transplant pathology.
L7: Pathology of hepatic transplantation.

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| AGRA | PUJOL | CAROLINA | Female | R1 | First Stage Researcher |
| ALIJO | SERRANO | FRANCISCO | Male | R1 | First Stage Researcher |
| DIAZ | CRESPO | FRANCISCO JAVIER | Male | | Sin Definir |
| GARCIA | MARTOS | MARIA | Female | R1 | First Stage Researcher |
| IDOATE | GASTEARENA | MIGUEL ANGEL | Male | R1 | First Stage Researcher |
| LOPEZ | MARTINEZ-BERNAL | BEATRIZ | Female | | Sin Definir |
| LOPEZ | VARELA | CARMEN | Female | | Sin Definir |
| PARRA | BLANCO | VERÓNICA | Female | R1 | First Stage Researcher |
| ABASCAL | CAMACHO | MARIA LUISA | Female | | Sin Definir |
| ARIAS | | FRANCISCO | Male | | |
| CEBOLLERO | PRESMANES | MARIA | Female | | |
| ORTIZ | OTERO | ANGELA BIBIANA | Female | | |
| PELIGROS | GOMEZ | ISABEL | Female | | |
| PENA | BURGOS | EVA MANUELA | Female | | |
| VILLAR | ZARRA | KAREN LUISA | Female | | |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **84,7***

| | Nº | IF |
|---|---|---|
| Own publications | 3 | 9 |

| | | |
|---|---|---|
| Joint publications | 14 | 75.7 |
| First decile publications | 2 | 32.7 |
| First quartile publications | 8 | 62.1 |
| Second quartile publications | 4 | 15.6 |
| Third quartile publications | 4 | 6.4 |
| Fourth quartile publications | 1 | 0.6 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **18** | **84,7** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Nieto-Benito, LM; Parra-Blanco, V; Suárez-Fernández, RM. *Collagen IV immunohistochemistry and autoimmune bullous diseases: defining the location of the subepidermal bullae*. ANAIS BRASILEIROS DE DERMATOLOGIA. 2025; 100(2) 388-390. IF: 4.4. Quartile: 1. (Letter).

- Faraz M; Rosenzweig A; Panizo A; Hajiyeva S; Subasi NB; Alghamdi MA; Lightle AA; Kuthi L; Kelemen D; Sangoi AR; Nova-Camacho LM; Martos MG; Movassaghi M; Lobo A; Jha S; Yörükoglu K; Bayrak BY; Williamson SR; Bhardwaj S; Kandukuri S; Kaushal S; Mohanty SK; Akgul M. *Primary intrarenal hemangioma - A series of 39 cases.* ANNALS OF DIAGNOSTIC PATHOLOGY. 2025; 75 152436-152436. IF: 1.6. Quartile: 3. (Article).

- Rosa, AA; Carolina, AP; Marta, AV; Francisco, A; Adriana, FG; Natalia, G; Pablo, LL; Cristina, MF; Lidia, MS; Ulrike, N; Marina, S; Guillermo, HT; Henar, CG; Ana, GOD. *Desmoid Tumors-Experience from a Referral Center, Part 1: Multidisciplinary Review and Practical Recommendations*. CANCERS. 2025; 17(21). IF: 4.8. Quartile: 2. (Review).

- Briones, LJ; Sánchez, BR; Piqueras, PG; Parra, V; Domínguez, MC. *Childhood lupus erythematosus panniculitis*. EUROPEAN JOURNAL OF DERMATOLOGY. 2025; 35(5) 445-446. IF: 1.9. Quartile: 3. (Editorial Material).

- Gomez, PRD; Aguado, JM; Rodríguez-Jiménez, B; Domingo, AG; Sánchez-Malo, C; Remigio, RR; Salvago, MDM; Pozas, EM; Cruz, MAM; Martín-Hernández, T; Gastearena, MAI. *Integrating histology and biomarkers to predict clinical outcomes in parathyroid tumors: a multicenter study*. EUROPEAN JOURNAL OF ENDOCRINOLOGY. 2025; 193(6) 667-676. IF: 6.7. Quartile: 1. (Article).

- Barrio-Alonso, C; Nieto-Valle, A; Barandalla-Revilla, L; Avilés-Izquierdo, JA; Parra-Blanco, V; Sánchez-Mateos, P; Samaniego, R. *Translating genetics into tissue: inflammatory cytokine-producing TAMs and PD-L1 tumor expression as poor prognosis factors in cutaneous melanoma*. FRONTIERS IN IMMUNOLOGY. 2025; 16. IF: 7. Quartile: 1. (Article).

- Alonso, SE; Serrano, FA; Cuéllar, IN; López, AL; Acosta, DF; Moure, BG; León, JZ; Cuéllar, CN. *Clinicopathological Relevance of Tumor Budding at the Invasive Tumor Front in Early-Stage Oral Tongue Squamous Cell Carcinoma: Histological and Immunohistochemical Analysis*. HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK. 2025. IF: 2.2. Quartile: 1. (Article).

- Tousidonis, M; Troulis, MJ; Agra, C; Alijo, F; Alvarez-Gonzalez, A; Navarro-Cuellar, C; Khayat, S; Ruiz-de-Leon, G; Lopez-Lopez, AM; Salmeron, JI; Ochandiano, S. *Extraenteric Malignant Gastrointestinal Neuroectodermal Tumor of the Neck: A Diagnostic Challenge*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2025; 26(10). IF: 5.6. Quartile: 1. (Article).

- Alonso, MD; Blanco, VP; Domínguez, MC. *Unusual Congenital Scalp Lesion in a Child*. JAMA DERMATOLOGY. 2025; 161(12) 1277-1278. IF: 10.9. Quartile: 1. (Editorial Material).

- Rico-Fontalvo, J; Ciudin, A; Correa-Rotter, R; Díaz-Crespo, FJ; Bonanno, C; Lecube, A; Daza-Arnedo, R; Morales, E; Quiroga, B; Lorca, E; Porrini, E; Machado, M; Polo, VS; Alvarez, G; Toniolo, F; Soler, MJ. *SEN, SLANH, and SEEDO consensus report on obesity-related kidney disease: proposal for a new classification*. KIDNEY INTERNATIONAL. 2025; 108(4) 572-583. IF: 21.8. Quartile: 1. (Article).

- García-Martínez, E; Nieto-Valle, A; Barrio-Alonso, C; López-Navarro, B; Avilés-Izquierdo, JA; Parra-Blanco, V; Gutiérrez-Seijo, A; Sánchez-Mateos, P; Samaniego, R. *Adverse prognosis of GM-CSF expression in human cutaneous melanoma*. NEOPLASIA. 2025; 70. IF: 4.8. Quartile: 2. (Article).

- Idoate, MA; Ariz-Galilea, M; Urbiola-Casales, A; Alonso-García, M; Machuca-Aguado, J; de Solórzano, CO; Rivas-Infante, E; Avila-Polo, R; Biscuola, M. *Immune Scenario Identification Combining Multiplexed, Quantitative, and*

*Advanced Imaging Analysis Could Be Relevant in Immunotherapy against Glioblastoma and Grade 4 Astrocytoma*. PATHOBIOLOGY. 2025. IF: 1.7. Quartile: 3. (Article).

- De La Flor, JC; Davalos, MD; Grávalos, TL; Alonso-Riaño, M; Díaz, F; Tudero, CR; González-Mariño, RZ; Terrones, MC; Vaquero, JH. *Fibrillary Glomerulonephritis Diagnosis Is Enhanced by DNAJB9: Three Cases with Different Clinical, Anatomopathologic Features and Outcomes*. PATHOPHYSIOLOGY. 2025; 32(2). IF: 3.5. Quartile: 1. (Article).

- Rodríguez-Sánchez, B; Campos-Domínguez, M; Del Puerto, AD; Bernabeu-Wittel, J; Monserrat-García, MT; Arias-Lotto, F; Parra-Blanco, V; Beléndez-Bieler, C; García-Morín, M; Bardon-Cancho, E; Marco-Sánchez, JM; González-Gerrero, A; Baselga-Torres, E; Prat-Torres, C. *Post-Hematopoietic Stem Cell Transplantation Eczematous Dermatitis Spectrum Successfully Treated With Dupilumab: A Case Series and Review of the Literature*. PEDIATRIC DERMATOLOGY. 2025. IF: 1.2. Quartile: 3. (Article).

- Gastearena, MAI; Llanos, SN. *Subspecialisation in Pathology with the Advent of Digitalisation and Telepathology: Opportunity or Threat?*. REVISTA ESPANOLA DE PATOLOGIA. 2025; 58(4). IF: 0.6. Quartile: 4. (Editorial Material).

- Pena-Burgos, EM; Agra-Pujol, C; Alijo-Serrano, F; Ferreira, LL; Santos, LM; Cuervo-Dehesa, M; Santos-Briz, A; García-Patos, PE; García, AT; Tapia-Viñe, M; Suárez-González, J; Pozo-Kreilinger, JJ. *Malignant chondroblastoma of the rib with scalp metastases in an adult patient: case report with molecular characterization*. VIRCHOWS ARCHIV. 2025. IF: 3. Quartile: 2. (Article).

- Pascual, LP; Crespo, FJD; López, BBA; Saénz, MDP; Alonso, RM; Pinilla, SMR; de la Pinta, FJD. *Large B-cell lymphoma associated with fluid overload: two new case reports with molecular insights*. VIRCHOWS ARCHIV. 2025. IF: 3. Quartile: 2. (Article).

***Publications from the WOS Core Collection without Impact Factor:***

- Rios, I; Herrero, C; Torres-Torresano, M; López-Navarro, B; Schiaffino, MT; Crespo, FD; Nieto-Valle, A; Samaniego, R; Sierra-Palomares, Y; Oliver, E; Revuelta-Salgado, F; García-Luján, R; Sánchez-Mateos, P; Delgado, R; Puig-Kröger, A; Corbi, AL. *Reprogramming of GM-CSF-dependent alveolar macrophages through GSK3 activity modulation*. ELIFE. 2025; 14. Quartile: 1. (Article).

## *7.34 Multimorbidity, chronic diseases and health services. Primary care*

Group Director: **Isabel del Cura González and Jesús Martín Fernández**

Organisms involved: **HGUGM**

**Consolidated in process of integration group**

### *Description of the research group*

Research group that brings together researchers who carry out their research mainly in the community and in primary care.

### *Research lines*

**Axis 1: Epidemiology and characterisation of chronicity**

L1: Characterisation of chronic diseases, multimorbidity and frailty.

L2: Characterisation of health status from the patient's perspective.

L3: Evaluation of performance and health policies in the care of chronically ill patients. Navigating the chronically ill in the health care system.

**Axis 2: Effectiveness and cost-effectiveness of interventions at the community level**

L1: Comparative effectiveness of interventions and strategies implemented in primary care, both from the perspective of effectiveness and efficiency.

L2: Evaluation of care interventions

**Axis 3: Social determinants of health and health inequalities**

L1: Health and vulnerable populations

L2: Gender and social determinants

**Axis 4: Precision Medicine**

L1: Prevention and health promotion

L2: Risk stratification and predictive modelling in chronic diseases

**Axis 5: Impact of Covid 19 at Community level**

L1: Impact on care
L2: Impact on the mental health of professionals
L3: Impact on professional performance

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| ALVAREZ | VILLALBA | MARIA DEL MAR | Female | R2 | Recognised Researcher |
| ARES | BLANCO | SARA | Female | | Sin Definir |
| ARIZA | CARDIEL | GLORIA | Female | | Sin Definir |
| BARRIO | CORTES | JAIME | Male | | Sin Definir |
| CIFO | ARCOS | DANIEL | Male | R1 | First Stage Researcher |
| DEL CURA | GONZALEZ | ISABEL | Female | | Sin Definir |
| ESTEVAN | BURDEUS | PATRICIA | Female | | Sin Definir |
| FOLGUERA | ALVAREZ | MARIA DEL CARMEN | Female | R3 | Established Researcher |
| GARRIDO | ELUSTONDO | SOFIA | Female | R2 | Recognised Researcher |
| GEFAELL | LARRONDO | ILEANA | Female | R1 | First Stage Researcher |
| GONZALEZ | GONZALEZ | ANA ISABEL | Female | R4 | Leading Researcher |
| GUISADO | CLAVERO | MARINA | Female | R2 | Recognised Researcher |
| HERRAIZ | AHIJADO | BORJA JESUS | Male | R2 | Recognised Researcher |
| IGLESIAS | CARABIAS | CLAUDIA | Female | R1 | First Stage Researcher |
| LOPEZ | MIGUEL | MIGUEL | Male | R1 | First Stage Researcher |
| LOPEZ | RODRIGUEZ | JUAN ANTONIO | Male | R2 | Recognised Researcher |
| MARTIN | FERNANDEZ | JESUS | Male | R4 | Leading Researcher |
| MEDINA | GARCIA | RODRIGO | Male | R1 | First Stage Researcher |
| MINUE | ESTIRADO | MARIA | Female | R1 | First Stage Researcher |
| MOREY | MONTALVO | MARIEL | Female | R1 | First Stage Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| NUEVO | COELLO | LUCIA | Female | R1 | First Stage Researcher |
| OLMEDO | GALINDO | JORGE | Male | R2 | Recognised Researcher |
| OTONES | REYES | PEDRO | Male | R2 | Recognised Researcher |
| PASCUAL | | MARCOS | Male | R1 | First Stage Researcher |
| POLENTINOS | CASTRO | ELENA | Female | R3 | Established Researcher |
| RICO | BLAZQUEZ | MILAGROS | Female | R3 | Established Researcher |
| RODRIGUEZ | BARRIENTOS | RICARDO | Male | R2 | Recognised Researcher |
| ROGERO | BLANCO | MARIA ELOISA | Female | R2 | Recognised Researcher |
| RUBIO | SERRANO | JAVIER | Male | R1 | First Stage Researcher |
| RUMAYOR | LORENZO | MERCEDES | Female | R2 | Recognised Researcher |
| SALDAÑA | ALONSO | IRMINA | Female | R1 | First Stage Researcher |
| SANCHEZ | RUANO | RAQUEL | Female | R1 | First Stage Researcher |
| SANZ | CUESTA | TERESA | Female | R4 | Leading Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **3** | | **1** | |
| **Regional** | | | | |

TITLE: **Impacto de las fortalezas de la Atención Primaria (Accesibilidad, Longitudinalidad e Integralidad) en la Mortalidad y las hospitalizaciones Evitables. Estudio ALIME-AP** (PI24/00638)
DIRECTOR: MARTIN FERNANDEZ, JESUS
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2025
END DATE: 31/12/2027

TITLE: **Multimorbilidad en el Sistema Nacional de Salud: Caracterización poblacional e impacto de sus patrones y trayectorias en personas mayores (Proyecto MM-SNS)** (PI22/00768)
DIRECTOR: DEL CURA GONZALEZ, ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III

START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Efectividad y coste efectividad de una comunidad de práctica virtual para la mejora del empoderamiento de personas de mediana edad con multimorbilidad: ECA.** (PI22/01124)
DIRECTOR: GONZALEZ GONZALEZ, ANA ISABEL
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

TITLE: **Río Hortega contracts** CM24/00018
DIRECTOR: (Ileana Gefaell Larrondo)
PROJECT TYPE: Human Resources
FUNDING BODY: Instituto de Salud Carlos III
START DATE: 04/02/2025
END DATE: 03/02/2027

## *Cooperative Research Structures*

| *Type (RETIC, CIBER, others)* | *Name of Network* | *Role* | *Code* |
|---|---|---|---|
| RICORS | Red de Investigación en Cronicidad, Atención Primaria y Prevención y Promoción de la Salud (RICAPPS) | Collaborating group | RD24/0005/0015 |
| RICORS | Primary Care Interventions to prevent maternal and child chronic diseases of perinatal and developmental origin (SAMID) | Collaborating group | RD21/0012/0011 |

## *Publications* *Total Impact Factor: **73,1***

| | **Nº** | **IF** |
|---|---|---|
| Own publications | 14 | 43.7 |
| Joint publications | 7 | 29.4 |
| First decile publications | 3 | 21.3 |
| First quartile publications | 10 | 49.2 |
| Second quartile publications | 10 | 21.1 |
| Third quartile publications | 1 | 2.8 |
| Fourth quartile publications | 0 | 0 |
| Nonindexed publications / No IF | 0 | - |
| **Total publications (including those without IF)** | **21** | **73,1** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Ares-Blanco, S; Villanueva, T. *It Is Time to Recognize Family Medicine as a Specialty in Europe*. ACTA MEDICA PORTUGUESA. 2025; 38(9) 521-522. IF: 1.2. Quartile: 2. (Editorial Material).

- Lüthold, RV; Kleijer-Werkman, E; Jungo, KT; Rozsnyai, Z; Adler, L; Assenova, R; Rogero-Blanco, E; Bleckwenn, M; Frese, T; Henrard, G; Jennings, AA; Kurpas, D; Lazic, V; Lingner, H; Mannheimer, S; Neelen, AC; Pereira, A; Petrazzuoli, F; Poortvliet, RKE; Szélvári, A; Wild, DMG; Streit, S; Vallejo-Yagüe, E. *Association between older adults' socioeconomic status and their healthcare experiences, preferences, and attitudes towards deprescribing: a cross-sectional study in 14 countries*. ARCHIVES OF PUBLIC HEALTH. 2025; 83(1). IF: 3.4. Quartile: 1. (Article).

- Arbáizar Martínez AM; Deniel Rosanas J; Polentinos-Castro E; Gil Guillén VF; Orozco-Beltran D. *The National Commission for the Specialty of Family and Community Medicine 2014-2024: report of a challenge.* ATENCION PRIMARIA. 2025; 57(4) 103243-103243. IF: 1.6. Quartile: 2. (Article).

- Sánchez-Ruano, R; López-Paterna, P; Garcia-Hernández, CA; Rodríguez-Barrientos, R; Herrero-Sanchox, E; Pascual-García, M; Rico-Blázquez, M. *Impact of nursing follow-up after discharge in Primary Care on early hospital readmissions. A longitudinal observational study*. ATENCION PRIMARIA. 2025; 57(2). IF: 1.6. Quartile: 2. (Article).

- Cabello-Díaz, B; Tirado-Morata, C; Garrido-Elustondo, S. *Prevalence of urinary incontinence in young and nulligravid women*. ATENCION PRIMARIA. 2025; 57(9). IF: 1.6. Quartile: 2. (Editorial Material).

- Martín-Caro Álvarez D; García Iglesias J; Fontana-Campos M; Rodríguez Barrientos R. *Herpes zoster vaccination coverage: nursing home care unit of the Community of Madrid.* ATENCION PRIMARIA. 2025; 57(9) 103257-103257. IF: 1.6. Quartile: 2. (Article).

- Garcia-Martin, V; de Hoyos-Alonso, M; Martin-Fernández, J; del Cura-González, I. *Mortality and institutionalization of patients with dementia treated in primary care: influence of neuropsychiatric symptoms (NeDEM project)*. BMC GERIATRICS. 2025; 25(1). IF: 4.5. Quartile: 1. (Article).

- Herraiz-Ahijado, B; Folguera-Alvarez, C; Rodríguez-Barrientos, R; Sánchez-Ruano, R; Pascual-García, M; Mori-Vara, P; Verdú-Soriano, J; Rico-Blázquez, M. *Impact of physical activity as an adjuvant treatment in the healing of venous ulcers in primary care: active legs RCT*. BMC NURSING. 2025; 25(1). IF: 5.2. Quartile: 1. (Article).

- Cura-Gonzalez, I; Polentinos-Castro, E; Bolanos-Gallardo, E; Conde-Espejo, P; Martinez-Manrique, L; Martínez-Hernáez, A. *From unconditionality to disenchantment among primary healthcare professionals during the COVID-19 pandemic: a qualitative study from Madrid, Spain*. BMJ OPEN. 2025; 15(7). IF: 2.5. Quartile: 2. (Article).

- Petricek, G; Klemenc-Ketis, Z; Adzic, ZO; Cerovecki, V; Willems, S; Tsimtsiou, Z; Zelko, E; Collins, C; Hoffmann, K; Eide, TB; Blanco, SA; Frese, T; Lingner, H; Assenova, R; Torzsa, P; Seifert, B; Ungan, M; Bayen, S; Windak, A; Azeredo, J; Stavrikj, K; Kreitmayer, S; Kostic, M; Busneag, IC; Koskela, T; Serafini, A; Butterworth, J; Zwart, DLM; Gonzalez-Lama, J; Vuletic, G; Van Poel, E; Bunc, KT; Tuz, C; Mevsim, V; Seifert, M; Dahli, M; Hrabac, P; Hanzevacki, M; Matic, JR; Tomicic, M; Rada, M; Heleno, B; Studzinski, K; Becze, A; Megallon-Botaya, R; Rogers, HL; Bruetting, C; Kafadar, D; Irureta, DL; Fornacciari, D; Nessler, K; Soleski, K; Mendez-Lopez, F; Coeme, O; Ahmad, A; Petek, D. *European general practitioners' attitudes towards person-centred care and factors that influence its implementation in everyday practice: The protocol of the cross-sectional PACE GP/FP study in 24 European countries*. EUROPEAN JOURNAL OF GENERAL PRACTICE. 2025; 31(1). IF: 2.7. Quartile: 2. (Article).

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## *7.35 Translational dermatology: Research and innovation*

Group Director: **Ana Pulido Pérez and Marta Bergón Sendín**

Organisms involved: **HGUGM**

**Emerging Group**

### *Research lines*

**Axis 1. Oncodermatology**

L1: Non-melanoma skin cancer

L2: Melanoma and pigmented tumours

L3: Cutaneous lymphomas and other oncohaematological disorders

L4: Skin toxicity associated with cancer therapies

**Axis 2. Infectious Dermatology**

L1: Epidemiology of herpes infections

L2: Bacterial infections of the skin and soft tissues

L3: Opportunistic infections affecting the skin

L4: Imported skin diseases

**Axis 3. Inflammatory dermatologic pathology**

L1: Cutaneous ulcers of the lower extremities

L2: Inflammatory pathology of the vulva

L3: Psoriasis

L4: Hidradenitis suppurativa

L5: Atopic dermatitis

**Axis 4. Autoimmune diseases**

L1: Ampullary diseases

L2: Chronic urticaria

## Group members

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ALMODOVAR | REAL | ANA MARÍA GEMA | Female | R1 | First Stage Researcher |
| AVILÉS | IZQUIERDO | JOSE ANTONIO | Male | R2 | Recognised Researcher |
| BANIANDRES | RODRIGUEZ | OFELIA | Female | R2 | Recognised Researcher |
| BARCHINO | ORTIZ | LUCIA | Female | R1 | First Stage Researcher |
| BERGON | SENDIN | MARTA | Female | R3 | Established Researcher |
| CAMPOS | DOMINGUEZ | MINIA | Female | R3 | Established Researcher |
| CIUDAD | BLANCO | CRISTINA | Female | R2 | Recognised Researcher |
| DE LA CUEVA | DOBAO | PABLO | Male | | Sin Definir |
| ESPADA | REGALADO | JESUS | Male | R3 | Established Researcher |
| GARCIA | PIQUERAS | PALOMA | Female | R1 | First Stage Researcher |
| MOLINA | LOPEZ | IRENE | Female | R1 | First Stage Researcher |
| PULIDO | PEREZ | ANA | Female | R3 | Established Researcher |
| RODRIGUEZ | LOMBA | ENRIQUE | Male | R2 | Recognised Researcher |
| SUAREZ | FERNÁNDEZ | RICARDO | Male | R3 | Established Researcher |
| VILLANUEVA | ALVAREZ-SANTULLANO | ANA CANDIDA | Female | R1 | First Stage Researcher |

## Research Projects – Competitive Calls

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## Industrial and intellectual property registrations

### Copyright

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **Unidad Innovadora de Tratamiento de enfermedades inflamatorias de base inmunológica - CEIMI** | M-001887/2023 | FIBHGM | Ofelia Baniandrés, Rafael Bañares, Sonia García, Carlos González, Ana María Herranz, María Carmen Lobo, Luis Alberto Menchén, Indaleciao Monteagudo, María Sanjurjo, Ricardo María Suárez |

## *Publications* *Total Impact Factor: **168,7***

| | Nº | IF |
|---|---|---|
| Own publications | 16 | 47.8 |
| Joint publications | 21 | 120.9 |
| First decile publications | 5 | 83.2 |
| First quartile publications | 11 | 109.2 |
| Second quartile publications | 12 | 35.4 |
| Third quartile publications | 13 | 23.4 |
| Fourth quartile publications | 1 | 0.7 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **40** | **168,7** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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## *7.36 Translational Research and Biotechnology in Head and Neck Surgery*

Group Director: **Santiago Ochandiano and José Ignacio Salmerón**

Organisms involved: **HGUGM**

**Emerging Group**

### *Research lines*

**Axis 1. Craniofacial Congenital Deformities**

L1: Craniosynostosis
L2: Microtia
L3: Craniofacial syndromes
L4: Orthognathic surgery
L5: Sleep apnea L6: Difficult pediatric airway Group members

**Axis 2. Tumour and Traumatic Pathology**

L1: Reconstructive surgery
L2: Sentinel lymph node
L3: Orbital tumour and traumatic pathology
L4: Eyelid pathology and anophthalmos
L5: Advanced intraoral implantology
L6: Surface modification of titanium and other biomaterials
L7: Cell therapy and bone regeneration
L8: Thyroid and malignant salivary gland pathology
L9: Total laryngectomy
L10: Paragangliomas
L11: Transoral surgery
L12: Skull base surgery: anterior endoscopic skull base and cerebellopontine angle surgery
L13: Voice disorders
L14: Facial paralysis

**Axis 3. Biotechnology: Virtual Planning, Navigation and 3D Printing**

L1: Intraoperative guidance using augmented reality
L2: 3D printing of cutting guides and preformed templates
L3: Academic manufacturing of patient-specific implantable prostheses
L4: Structured light applications in head and neck surgery

## Group members

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| ARENAS | DE FRUTOS | GEMA | Female | R2 | Recognised Researcher |
| ARISTEGUI | RUIZ | MIGUEL ANGEL | Male | R3 | Established Researcher |
| ARISTEGUI | TORRANO | IGNACIO | Male | R2 | Recognised Researcher |
| BERENGUER | FROEHNER | BEATRIZ | Female | R3 | Established Researcher |
| BODOQUE | CANO | MAR | Female | R2 | Recognised Researcher |
| CASTRO | REYES | ENRIQUE | Male | R3 | Established Researcher |
| CIFUENTES | CANOREA | PILAR | Female | R2 | Recognised Researcher |
| CRIADO | MUÑOZ | MARIA PILAR | Female | R2 | Recognised Researcher |
| DARRIBA | ALES | JUAN VICENTE | Male | R2 | Recognised Researcher |
| DE LA TORRE | MACIAS | MANUEL | Male | R2 | Recognised Researcher |
| DEL VALLE | DIEGUEZ | MARIANO | Male | R2 | Recognised Researcher |
| FARHAT | FARHAT | ALI | Male | R2 | Recognised Researcher |
| FERNANDEZ | FERNANDEZ | MARIO | Male | R3 | Established Researcher |
| GARCIA | LEAL | ROBERTO | Male | R3 | Established Researcher |
| GARCIA | SEVILLA | ALBA | Female | R2 | Recognised Researcher |
| GONZALEZ | CANTERO | JOSE LUIS | Male | R2 | Recognised Researcher |
| GUTIERREZ | TRIGUERO | MANUEL | Male | R2 | Recognised Researcher |
| HERNANDO | CUÑADO | MONICA | Female | R3 | Established Researcher |
| IZA | VALLEJO | BEGOÑA | Female | R2 | Recognised Researcher |
| LOPEZ | DE ATALAYA | JAVIER | Male | R2 | Recognised Researcher |
| LOPEZ | LOPEZ | ANA MARIA | Female | R2 | Recognised Researcher |
| LORCA | GARCIA | CONCEPCION | Female | R2 | Recognised Researcher |
| LOWY | BENOLIEL | ALEJANDRO SAMUEL | Male | R2 | Recognised Researcher |
| MARTÍN | OVIEDO | CARLOS | Male | R2 | Recognised Researcher |
| MARTINEZ | GURADO | TOMÁS | Male | R2 | Recognised Researcher |
| MAZA | MUELA | CRISTINA | Female | R2 | Recognised Researcher |
| MORENO | GUTIERREZ | ANGELA | Female | R2 | Recognised Researcher |
| NAVARRO | CUELLAR | CARLOS | Male | R3 | Established Researcher |
| NAVARRO | CUELLAR | IGNACIO | Male | R2 | Recognised Researcher |
| NIEVA | PASCUAL | ISMAEL | Male | R2 | Recognised Researcher |
| OCHANDIANO | CAICOYA | SANTIAGO | Male | R4 | Leading Researcher |
| ODENE | CANTERO | CRISTINA | Female | R2 | Recognised Researcher |
| PASAMONTES | PINGARRÓN | JUAN ANTONIO | Male | R2 | Recognised Researcher |

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| PASCUAL | GONZALEZ | MACARENA | Female | R2 | Recognised Researcher |
| PEREZ | MARTIN | NURIA | Female | R2 | Recognised Researcher |
| POLETTI | SERAFINI | DANIEL | Male | R2 | Recognised Researcher |
| QUERO | CAMPOS | IRIS | Female | R2 | Recognised Researcher |
| RUIZ | JURETSCHKE | FERNANDO | Male | R2 | Recognised Researcher |
| SALMERON | ESCOBAR | JOSE IGNACIO | Male | R4 | Leading Researcher |
| SANJUAN | DE MORETA | GUILLERMO | Male | R2 | Recognised Researcher |
| SAURA | LORENTE | JAVIER | Male | R2 | Recognised Researcher |
| SCOLA | PLIEGO | ESTEBAN | Male | R2 | Recognised Researcher |
| SCOLA | TORRES | MARÍA CECILIA | Female | R2 | Recognised Researcher |
| SOUVIRON | ENCABO | ROSALIA | Female | R2 | Recognised Researcher |
| TORRESANO | RODRIGUEZ | JAVIER BRUNO | Male | | Sin Definir |
| TOUSIDONIS | RIAL | MANUEL ALEJANDRO | Male | R2 | Recognised Researcher |
| URCELAY | SEGURA | JOSÉ LUIS | Male | R3 | Established Researcher |
| VERDAGUER | MARTIN | JUAN JOSE | Male | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | **FIBHGM** | **Not FIBHGM** | **FIBHGM** | **Not FIBHGM** |
| **International** | | | | |
| **European** | | | | |
| **National** | **1** | | | |
| **Regional** | | | | |

TITLE: **Cirugía caneofacial personalizada y guiada por imagen** (PI22/00601)
DIRECTOR: OCHANDIANO CAICOYA, SANTIAGO
PROJECT TYPE: Research project
FUNDING BODY: INSTITUTO DE SALUD CARLOS III
START DATE: 01/01/2023
END DATE: 30/06/2027

## *Publications* *Total Impact Factor: **58,7***

| | Nº | IF |
|---|---|---|
| Own publications | 17 | 36.9 |
| Joint publications | 7 | 21.8 |
| First decile publications | 0 | - |
| First quartile publications | 10 | 31.4 |

| | | |
|---|---|---|
| Second quartile publications | 6 | 18.3 |
| Third quartile publications | 7 | 8.1 |
| Fourth quartile publications | 1 | 0.9 |
| Nonindexed publications / No IF | 3 | - |
| **Total publications (including those without IF)** | **27** | **58,7** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

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- Aristegui, M; Frau, LM; Martin-Oviedo, C; Asensi-Diaz, M; Vega, MR; Aristegui, I. *The Versatility of the Retrolabyrinthine Approach: Anatomical Study, Indications, and Review of the Literature*. JOURNAL OF INTERNATIONAL ADVANCED OTOLOGY. 2025; 21(6). IF: 1. Quartile: 3. (Review).

- Delgado-López, PD; Montalvo-Afonso, A; García-Leal, R; Martín-García, S; Lagares, A; León, AMC; Gelabert-González, M; Arán-Echabe, E; Rodríguez-Arias, CA; Khayat, S; Alén, JF; Alvarez-Sala, A; Sarabia, R; Sinovas, OE; Carretero, LT; Moscoso, ADT; Rodríguez-Domínguez, V; Guerrero, AI; Costales, JR; Gómez, DS; Martín-Velasco, V; Alonso, JM; García, AB; Martín, RD; Corrales-García, EM. *Surgical outcomes in octogenarian meningioma patients: a multicenter retrospective analysis of frailty and radiological predictors Frailty in octogenarians undergoing meningioma resection*. JOURNAL OF NEURO-ONCOLOGY. 2025; 175(2) 775-787. IF: 3.4. Quartile: 2. (Article).

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- Ruiz-de-Leon, G; Ochandiano, S; Alvarez-Mokthari, S; Benito-Anguita, M; Nieva-Pascual, I; Cifuentes-Canorea, P; Sanjuan-de-Moreta, G; Salmeron, JI; Navarro-Cuellar, I; Navarro-Cuellar, C; Tousidonis, M. *Volumetric Analysis of Navigation-Guided Orbital Decompression in Graves' Orbitopathy: A Case Report*. LIFE-BASEL. 2025; 15(8). IF: 3.9. Quartile: 1. (Article).

- Vega, MR; Diaz, MMA; Oviedo, CM; Torrano, IA; Ruiz, MA. *Facial Nerve Management and Hearing Preservation and Rehabilitation in Petrous Bone Cholesteatoma (PBC)*. OTOLOGY & NEUROTOLOGY. 2025; 46(9) 1150-1157. IF: 1.7. Quartile: 2. (Article).

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- Urcelay-Segura JL; Bellón-Cano JM; Cuesta-Rodríguez T; Fernández-Rubio ME. *Risk of conjunctival colonization by cefuroxime-resistant bacteria in cataract surgery patients younger than 75 years and aged 75 or older*. ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA. 2025; 100(10) 592-600. (Article).

- Escribano Villafruela JC; Fuentes Zamora A; Gómez Fernández L; Ruiz Batrés JR; Urcelay Segura JL. *Peripapillary intrachoroidal cavitation.* ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA. 2025; 100(8) 485-491. (Article).

- Monje Fuente S; Del Cañizo López A; Ordóñez Pereira J; García-Casillas MA; Pérez Egido L; Bada Bosch I; Bueno Romero J; Cerdá Berrocal J; De La Torre Macías M; Cela De Julián E; González San Segundo C; de Agustín Asensio JC. *Intraoperative radiotherapy in the local control of chest wall Ewing sarcoma.* CIRUGIA PEDIATRICA : ORGANO OFICIAL DE LA SOCIEDAD ESPANOLA DE CIRUGIA PEDIATRICA. 2025; 38(3) 100-105. (Article).

# 8.01 Nursing Care Research Group

Group Director: **Ana María García Pozo (until 12-2024) and María Nieves Moro Tejedor (from 12-2024)**

Organisms involved: **HGUGM**

**Associated Group**

## Description of the research group

It is an independent research group that aims to increase evidence in nursing care and encourage group research.

## Research lines

**Axis 1: Nursing care**

- L1: Chronic patient care
- L2: Care for critical patients
- L3: Care for patients with mental health problems
- L4: Physiotherapy and rehabilitation
- L5: Gender violence

**Axis 2: Innovation in health care and services**

- L1: Development of applications and patents
- L2: Simulation

**Axis 3: Human resources management**

- L1: Professional competences and skills

**Axis 4: Qualitative approach to care research**

- L1: Care and rehabilitation for vulnerable populations

## Group members

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| BRETON | SANTOS | ALVARO | Male | R1 | First Stage Researcher |
| CALDERARI | FERNÁNDEZ | ELENA | Female | R2 | Recognised Researcher |
| CID | EXPOSITO | GEMA | Female | R2 | Recognised Researcher |
| CORRAL | LIRIA | INMACULADA | Female | R2 | Recognised Researcher |
| DURANGO | LIMÁRQUEZ | MARÍA ISABEL | Female | R1 | First Stage Researcher |
| FERNANDEZ | ALONSO | VICTOR | Male | R2 | Recognised Researcher |
| FERNANDEZ | ARRANZ | JULITA | Female | R2 | Recognised Researcher |
| GARCIA | POZO | ANA MARIA | Female | R4 | Leading Researcher |
| GARCIA-MUÑOZ | CORDOBA | ANA ISABEL | Female | | Sin Definir |
| GONZALEZ | BAZ | MARIA DOLORES | Female | R2 | Recognised Researcher |
| GONZÁLEZ | LLUVA | CONCEPCIÓN | Female | R1 | First Stage Researcher |
| GUERRA | SÁNCHEZ | LUIS | Male | R2 | Recognised Researcher |

| Surname | | Name | Sex | Euraxess Profile | Role |
|---|---|---|---|---|---|
| GUERRERO | MARQUEZ | GLORIA | Female | R1 | First Stage Researcher |
| GUIJARRO | JIMENEZ | ESTHER | Female | R1 | First Stage Researcher |
| HERNANDEZ | HERNANDEZ | MARIA XIOMARA | Female | | Sin Definir |
| LEÑERO | CIRUJANO | MIRIAM | Female | R2 | Recognised Researcher |
| LOBO | RODRIGUEZ | CARMEN | Female | R2 | Recognised Researcher |
| LOPEZ | CALLEJA | ANA MARIA | Female | R1 | First Stage Researcher |
| LOPEZ | ESTEBAN | Mª AMPARO | Female | R1 | First Stage Researcher |
| LOPEZ | SANCHEZ | RAQUEL | Female | R2 | Recognised Researcher |
| LORENTE | DEL RIO | NATALIA | Female | R1 | First Stage Researcher |
| LUENGO | GONZALEZ | RAQUEL | Female | R2 | Recognised Researcher |
| MARTÍN | FERNÁNDEZ | MILAGROS | Female | R1 | First Stage Researcher |
| MARTIN | LOZANO | SILVIA | Female | R1 | First Stage Researcher |
| MEDINA | TORRES | MARGARITA | Female | R1 | First Stage Researcher |
| MORO | TEJEDOR | MARÍA NIEVES | Female | R2 | Recognised Researcher |
| PALACIOS | CEÑA | DOMINGO | Male | R3 | Established Researcher |
| PASTOR | CORDERO | ANA MARIA | Female | R1 | First Stage Researcher |
| PONCE | FIGUEREO | ANGELES | Female | R1 | First Stage Researcher |
| ROBLEDO | MARTIN | JUANA | Female | R2 | Recognised Researcher |
| SOTO | LUCIA | MARÍA CONSUELO | Female | R1 | First Stage Researcher |
| SUAREZ | BUSTAMANTE | ROSA | Female | R1 | First Stage Researcher |
| TORAÑO | OLIVERA | MARIA JOSE | Female | R1 | First Stage Researcher |
| TRUJILLO | GALLEGO | FERNANDO | Male | R1 | First Stage Researcher |
| VALERIANO | PAÑOS | ELISA | Female | R2 | Recognised Researcher |
| VELARDE | GARCIA | JUAN FRANCISCO | Male | R3 | Established Researcher |
| VISIERS | JIMENEZ | LAURA | Female | R2 | Recognised Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| International | | | | |
| European | 1 | | | |
| National | | | | |
| Regional | | | | |

TITLE: **Earlydel - Design and usability of a wearable system for the early detection of delirium or agitation in patients over 65 years of age in the hospital setting (INNOBUYER)** (IB23-2019610-36)
DIRECTOR: MORO TEJEDOR, MARÍA NIEVES
PROJECT TYPE: European research project
FUNDING BODY: COMISION EUROPEA
START DATE: 21/06/2023
END DATE: 25/08/2025

## *Industrial and intellectual property registrations*

### *Copyright*

| Title | Reference of patent family (Priority number)) | Owner | Inventors |
|---|---|---|---|
| **App móvil para gestión eficiente de gasto en enfermería** | M-006090/2020 | FIBHGM | Mª del Pilar Álvaro, Mª de las Nieves Moro |

Transferred Industrial Property 31/12/2025

## *Publications* *Total Impact Factor: **57,5***

| | Nº | IF |
|---|---|---|
| Own publications | 13 | 33.3 |
| Joint publications | 8 | 24.2 |
| First decile publications | 1 | 3.9 |
| First quartile publications | 13 | 46.5 |
| Second quartile publications | 1 | 2.7 |
| Third quartile publications | 4 | 5.6 |
| Fourth quartile publications | 3 | 2.7 |
| Nonindexed publications / No IF | 1 | - |
| **Total publications (including those without IF)** | **22** | **57,5** |

***Publications from the WOS Core Collection in JCR journals with Impact Factor:***

- Gonzalez-Baz, MD; Cerro, EPD; Fajardo, JL; Perez, AM; Gonzalez, TD; Tejedor, NM. *Measuring comfort with the Comfort Questionnaire (CQ)-ICU in critically ill patients during intensive care unit stay: A cross-sectional study*. AUSTRALIAN CRITICAL CARE. 2025; 38(5). IF: 3.6. Quartile: 1. (Article).

- Míguez-Navarro, MC; Guerrero-Márqueza, G; Cerro, CI. *Reproducibility of the TRIPED-GM paediatric triage system*. ENFERMERIA CLINICA. 2025; 35(3). IF: 1.1. Quartile: 3. (Article).

- Fernandez-Alonso, V; Hernandez-Matias, AM; Perez-Gomez, M; Cordoba, MGD; Moro-Tejedor, MN. *Evolution of health-related quality of life in adult liver transplant recipients*. ENFERMERIA CLINICA. 2025; 35(6). IF: 1.1. Quartile: 3. (Article).

- Arias-Rivera, S; Raurell-Torredà, M; Moro-Tejedor, MN; Thuissard-Vasallo, IJ; Andreu-Vázquez, C; Frutos-Vivar, F. *Validity and sensitivity to change of the Clinical Frailty Scale-Spain in patients admitted to intensive care*. ENFERMERIA INTENSIVA. 2025; 36(3). IF: 1.7. Quartile: 3. (Article).

- Guerra-Sánchez, L; González-Alfonso, S; Lerma-Lara, P; Bernardino-Santos, M; Cortijo-González, R; Bustamante-González, S. *The effectiveness of family accompaniment and environmental measures to reduce the incidence of delirium incidence in an acute cardiovascular unit: A quasi-experimental study. It is possible to reduce delirium without using drugs, and it is better*. ENFERMERIA INTENSIVA. 2025; 36(3). IF: 1.7. Quartile: 3. (Article).

- Rodríguez-Rojo, IC; Luengo-González, R; Peñacoba-Puente, C; García-Sastre, M; Espín-Lorite, E; Cuesta-Lozano, D; Asenjo-Esteve, A; Noriega-Matanza, C. *Problematic Media Use and Anxiety Symptoms in Adolescents: The Role of Age and Gender*. HEALTHCARE. 2025; 13(3). IF: 3.4. Quartile: 1. (Article).

- Fernández-Alonso, V; Moro-Tejedor, MN; Perez-Gómez, M; Leñero-Cirujano, M; Hernández-Matías, AM. *Resilience, Post-Traumatic Growth, and Transplant Effects-Gender Differences Following Liver Transplantation: A Cross-Sectional Study*. HEALTHCARE. 2025; 13(1). IF: 3.4. Quartile: 1. (Article).

- Lobo-Rodríguez, C; Pedraz-Marcos, A; Velarde-García, JF; Fernández, EC; Gadea-Cedenilla, C; Medina-Torres, M; Moro-Tejedor, MN; García, LS; García-Pozo, AM. *Effectiveness of an Early Intervention in Mild Hyponatremia to Prevent Accidental Falls in Hospitalized Older Adults-A Crossover Ecological Clinical Trial*. HEALTHCARE. 2025; 13(8). IF: 3.4. Quartile: 1. (Article).

- Valeriano-Paños, E; Moro-Tejedor, MN; Santamaria-Martin, MJ; Vega-Albala, S; Valeriano-Paños, M; Velarde-García, JF; Roche-Seruendo, LE. *Linking Motor and Cognitive Decline in Aging: Gait Variability and Working Memory as Early Markers of Frailty*. HEALTHCARE. 2025; 13(24). IF: 3.4. Quartile: 1. (Article).

- Ballesteros-Andrés, LX; Luengo-González, R; Rodríguez-Rojo, IC; García-Sastre, M; Cuesta-Lozano, D; Gomez-González, JL; Martínez-Hortelano, JA; Peñacoba-Puente, C. *Positive Mental Health, Anxiety and Prenatal Bonding: A Contextual Approach*. HEALTHCARE. 2025; 13(24). IF: 3.4. Quartile: 1. (Article).

- Chamorro-de-Vega, E; González, CM; Menchén, L; Baniandrés, O; Herranz, A; Lobo-Rodríguez, C; Romero-Jiménez, R; Ais-Larisgoitia, A; Lobato-Matilla, E; López-Esteban, A; López-Calleja, A; Marín-Jiménez, I; Monteagudo, I; de los Rios, PM; Nieto, JC; Ferris-Villanueva, M; Lizcano, MJ; Moreno, MPS; Sanjurjo, M; De Sanjose, SG. *New Model of Integrated Care for Patients with Immune-Mediated Inflammatory Diseases*. INTERNATIONAL JOURNAL OF INTEGRATED CARE. 2025; 25(2). IF: 2.7. Quartile: 2. (Article).

- Piñar-Rodríguez S; Puig-Llobet M; Corcoles-Martínez D; Tolosa-Merlos D; Leñero-Cirujano M; Rodríguez-Martin D. *Perception of Mental Health Professionals on Using Humour in Therapeutic Relationships in Acute Mental Health Units.* INTERNATIONAL JOURNAL OF MENTAL HEALTH NURSING. 2025; 34(2). IF: 3.9. Quartile: 1. (Article).

- Arias-Rivera, S; Moro-Tejedor, MN; Frutos-Vivar, F; Andreu-Vázquez, C; Thuissard-Vasallo, IJ; Sánchez-Sánchez, MM; Sánchez-Izquierdo, R; Oteiza-López, L; López-Cuenca, S; Checa-López, M; Jareño-Collado, R; López-López, V; Sánchez-Muñoz, EI; Rodriguez-Rey, LFC; Frade-Mera, MJ; Cortés-Puch, I; Padilla-Peinado, R; Huete-García, A; Aledo, ALG; Gordo-Vidal, F; Rodríguez-Merino, A; Vázquez-Calatayud, M; Vázquez-Grande, G; Mateo, D; Herrero-Hernández, R; Raurell-Torredà, M. *Cross-Cultural Adaptation of the Clinical Frailty Scale for Critically Ill Patients in Spain and Concurrent Validity With FRAIL-Es*. NURSING OPEN. 2025; 12(2). IF: 3.1. Quartile: 1. (Article).

- Arjona, RM; Velarde-García, JF; del Cerro, EP; Monroy, AM. *Parents as First Responders: Experiences of Emergency Care in Children with Nemaline Myopathy: A Qualitative Study*. NURSING REPORTS. 2025; 15(8). IF: 3.1. Quartile: 1. (Article).

- Leñero-Cirujano, M; González-Ordi, H; Torres-González, JI; Gómez-Higuera, J; Piñar-Rodríguez, S; Minaya, ELB; Alcalá-Albert, GJ; Carmona-Pestaña, A; Moro-Tejedor, MN. *Relation Between Humor Styles and Psychopathological Symptoms in Healthcare Professionals: A Cross-Sectional Study*. NURSING REPORTS. 2025; 15(1). IF: 3.1. Quartile: 1. (Article).

- Rodríguez-Rojo, IC; García-Sastre, M; Peñacoba-Puente, C; Cuesta-Lozano, D; García-Rodríguez, L; Blázquez-González, P; González-Alegre, P; López-Reina-Roldán, JM; Luengo-González, R. *From Healthy Eating to Positive Mental Health in Adolescents: A Moderated Mediation Model Involving Stress Management and Peer Support*. NUTRIENTS. 2025; 17(20). IF: 5.8. Quartile: 1. (Article).

- Fernandez-Alonso, V; Hernandez-Matias, AM; Perez-Gomez, M; Rodriguez-Leal, L; Moro-Tejedor, MN. *Liver frailty and impact of liver transplants on transplanted patients' health*. REVISTA LATINO-AMERICANA DE ENFERMAGEM. 2025; 33. IF: 0.9. Quartile: 4. (Article).

- Caballero-de-la-Calle, R; Ferrero-Sereno, P; Garcia-Garrido, MA; Ruiz-Rodriguez, A; Moro-Tejedor, MN; Leñero-Cirujano, M. *Anxiety and vital signs in cancer patients and music students before and after a music intervention: a quasi-experimental pilot study*. REVISTA LATINO-AMERICANA DE ENFERMAGEM. 2025; 33. IF: 0.9. Quartile: 4. (Article).

- Carbonell, D; Rodríguez-Sosa, A; Gomez-Serrano, L; Pérez-Corral, A; Ruano, G; Galayo, M; Panadero, N; Rufián, L; Lorente, N; Rodríguez-Barquero, P; Domingo-Merino, D; Muñoz-Martínez, C; Kwon, M; Das, S; García-Sanz, R; Anguita, J. *Predictive biomarkers validation of CD3+ cell apheresis yield in CAR-T manufacturing for diffuse large B-cell lymphoma: a machine learning approach*. SCIENTIFIC REPORTS. 2025; 15(1). IF: 4.9. Quartile: 1. (Article).

- Peñacoba-Puente, C; Rodríguez-Rojo, IC; Luengo-González, R; González-Alegre, P; Cuesta-Lozano, D; Asenjo-Esteve, A; Blázquez-González, P; García-Sastre, M. *Positive Mental Health in Adolescents: Implications of Cognitive-Emotional Processes and Social Support*. SOCIAL SCIENCES-BASEL. 2025; 14(8). IF: 2. Quartile: 1. (Article).

***Other publications:***

- Beteta Fernández D; Pérez Cánovas C; Martínez Egea RB; Alcaraz Martínez J; De Souza Oliveira AC; Pardo Rios M. *Safety incidents in pediatric emergency departments: Incidence, characteristics, and variability between centers. A national multicenter study*. ANALES DE PEDIATRIA. 2025; 103(4) 503998-503998. (Article).

# *9.01 Research and Innovation in Health Management*

Group Director: **Sonia García de San José and Rodolfo Romero Pareja**

Organisms involved: **HGUGM**

**Emerging Group**

## *Research lines*

**Axis 1: Process Management and Engineering**

- L1: Process reengineering for demand management
- L2: Continuity of care and patient safety
- L3: Healthcare tailored to patient needs
- L4: Patient-induced demand
- L5: Value-based management
- L6: Change management
- L7: Strategies for reducing patient absenteeism

**Axis 2: People Management**

- L1: Patient experience and professional management
- L2: Professional management, adaptation to the social framework and talent retention
- L3: Management of emotions, people and expectations
- L4: Professional roles: reorganisation and adaptation
- L5: Simulation-based skill maintenance models
- L6: Definition of professional responsibilities
- L7: Competency-based assessment of professionals

**Axis 3: Information and Data Management**

- L1: Predictive models based on trend analysis
- L2: Health outcomes
- L3: Consultation resolution capacity
- L4: Data analytics
- L5: Application of digitalisation to efficiency management
- L6: Reduction of avoidable variability

**Axis 4: Resource Management**

L1: Health Technology Assessment
L2: Public Procurement

## *Group members*

| *Surname* | | *Name* | *Sex* | *Euraxess Profile* | *Role* |
|---|---|---|---|---|---|
| BLANCO | CISNEROS | JOSE MIGUEL | Male | R1 | First Stage Researcher |
| CANORA | LEBRATO | JESUS | Male | R1 | First Stage Researcher |
| DIAZ | CARO | ISABEL MARIA | Female | R1 | First Stage Researcher |
| DIAZ | REDONDO | ALICIA | Female | R1 | First Stage Researcher |
| GARCIA | DE SAN JOSE | SONIA | Female | R1 | First Stage Researcher |
| GARCIA | GARCIA | DAVID | Male | R1 | First Stage Researcher |
| GARCÍA | MARTÍN | ANA ISABEL | Female | R1 | First Stage Researcher |
| JURADO | MACIAS | PALMIRA | Female | R1 | First Stage Researcher |
| LOPEZ | MARTINEZ | RAUL | Male | R1 | First Stage Researcher |
| LOPEZ | RUBIO | MARIA ARANZAZU | Female | R1 | First Stage Researcher |
| MARTINEZ | MACHUCA | SONIA | Female | R1 | First Stage Researcher |
| MORILLO-VELARDE | MUÑOZ | JUAN ANDRES | Male | R1 | First Stage Researcher |
| RODRIGUEZ | QUIROS | ALEJANDRO | Male | R1 | First Stage Researcher |
| ROMERO | PAREJA | RODOLFO | Male | R2 | Recognised Researcher |
| SANCHEZ | CELAYA DEL POZO | MARTA | Female | R1 | First Stage Researcher |
| TOLEDO | BARTOLOME | DANIEL | Male | R1 | First Stage Researcher |

## *Research Projects – Competitive Calls*

| | Nº Competitive projects | | Nº Human Resources | |
|---|---|---|---|---|
| | FIBHGM | Not FIBHGM | FIBHGM | Not FIBHGM |
| **International** | - | - | - | - |
| **European** | - | - | - | - |
| **National** | - | - | - | - |
| **Regional** | - | - | - | - |

## *Publications* *Total Impact Factor: **0***

| | Nº | IF |
|---|---|---|
| Own publications | 0 | 0,0 |
| Joint publications | 0 | 0,0 |

| | | |
|---|---|---|
| First decile publications | 0 | - |
| First quartile publications | 0 | 0,0 |
| 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 (including those without IF)** | 1 | 0,0 |

***Publications from the WOS Core Collection without Impact Factor:***

- Fuentes Santos C; Rueda Camino JA; Asenjo Mota Á; Castaneda Pastor A; Zapatero Gaviria A; Canora Lebrato J; Barba-Martín R. *Diabetic foot infections in Internal Medicine services in Spain (2018-2022).* REVISTA CLÍNICA ESPANÕLA. 2025; 225(3) 125-130. (Article).

# OTHER RESEARCH ACTIVITIES

## *Publications generated by **clinical researchers associated** with the IiSGM*

### *Clinical researchers associated*

***Publications in the WOS Core Collection in JCR journals with Impact Factor:***

- Cutillas, AM; Alonso, SB; Alamo, EO; Tubio-Dapena, SR; Hernández, AM; Cimadevilla, JLR. *Sepsis grave secundaria a Staphylococcus aureus productor de leucocidina de Panton-Valentine: a proposito de un caso Severe sepsis due to panton-valentine leukocidin-positive Staphylococcus aureus: case report.* ACTA PEDIATRICA DE MEXICO. 2025; 46(1) 83-88. FI: 0.2. Quartile: 4. (Article).

- Rubio-López, A; García-Carmona, R; Zarandieta-Román, L; Rubio-Navas, A; González-Pinto, A; Cardinal-Fernández, P. *Innovative approaches to pericardiocentesis training: a comparative study of 3D-printed and virtual reality simulation models*. ADVANCES IN SIMULATION. 2025; 10(1). FI: 3.6. Quartile: 2. (Article).

- Muñoz, C; Martinez, MCR; Ugidos, L; García-Alfonso, P; Alvarez-Gallego, R; Peinado, P; Toledano, C; Mihic-Góngora, L; Anselmi, JGO; Garcia, ES; Vicente, E; Quijano, Y; Durán, HJ; Díaz, E; Ferri, V; Rubio, C; Hernandorequejo, O; González, ML; Prados, S; López, U; Allona, M; PérezDueñas, V; Perez-Escutia, MA; Cubillo, A. *Phase 2, Multicenter, Open-label, Nonrandomized Study of Neoadjuvant Chemotherapy Liposomal Irinotecan With 5-Fluorouracil, Leucovorin, and Oxaliplatin, Followed by Chemoradiotherapy in Patients With Rectal Cancer in a Watch-and-Wait Program*. AMERICAN JOURNAL OF CLINICAL ONCOLOGY-CANCER CLINICAL TRIALS. 2025; 48(3) 142-147. FI: 1.8. Quartile: 4. (Article).

- Adao, R; Barreira, B; Paternoster, E; Morales-Cano, D; Olivencia, MA; Quintana-Villamandos, B; Rodríguez-Chiaradía, DA; Cogolludo, A; Perez-Vizcaino, F. *Vitamin D as an add-on therapy to phosphodiesterase-5 inhibitor in experimental pulmonary arterial hypertension*. AMERICAN JOURNAL OF PHYSIOLOGY-LUNG CELLULAR AND MOLECULAR PHYSIOLOGY. 2025; 328(2) 253-259. FI: 3.8. Quartile: 1. (Article).

- Fernández-Barat, L; Motos, A; Canseco-Ribas, J; Gabarrús, A; López-Aladid, R; Alvaro-Meca, A; Ceccato, A; García, N; Ferrer, M; Battaglini, D; Avarez-Napagao, S; Garcia-Gasulla, D; Ferrer, R; de Gonzalo-Calvo, D; Lorente, JA; Menéndez, R; Peñuelas, O; Riera, J; Rodríguez, A; Villar, RA; Añón, JM; Mariño, AB; Barberà, C; Barberán, J; Ortiz, AB; Boado, MV; Bofill, N; Bustamante-Munguira, E; Caballero, J; Canton-Bulnes, ML; Pérez, CC; Carbonell, N; Catalán-González, M; de la Torre, MD; Díaz, E; Estella, A; Figueras, A; de Frutos, R; Franco, N; Galbán, C; Gallego, E; Garmendia, JLG; González, J; Gómez, JM; Gumucio-Sanguino, VD; Huerta, A; García, RNJ; Loza-Vázquez, A; Marin-Corral, J; Delgado, MCM; de la Gándara, AM; Varela, IM; Albaiceta, GM; Nieto, M; Peñasco, Y; Pérez-Bastida, L; Pérez-García, F; Pozo-Laderas, JC; Ricart, P; Sagredo, V; Sánchez-Miralles, A; Chinesta, SS; Socias, L; Solé-Violan, J; Suarez-Sipmann, F; Lomas, LT; Trenado, J; Ubeda, A; Valdivia, LJ; Vidal, P; Bermejo-Martin, J; Barbé, F; Torres, A. *Outcomes and predictors of mortality in patients with severe COVID 19 and COPD admitted to ICU: A multicenter study-*. ANAESTHESIA CRITICAL CARE & PAIN MEDICINE. 2025; 44(5). FI: 5.4. Quartile: 1. (Review).

- González, JMN; Rodríguez-Sánchez, B; Berna-Rico, E; Campos-Domínguez, M. *Pyogenic granuloma resolved with timolol and table salt*. ANALES DE PEDIATRIA. 2025; 102(4). FI: 2.6. Quartile: 1. (Editorial Material).

- Barbeta, E; Barreiros, C; Forin, E; Guzzardella, A; Motos, A; Fernández-Barat, L; Gabarrús, A; Ceccato, A; Ferrer, R; Riera, J; Peñuelas, O; Lorente, JA; de Gonzalo-Calvo, D; Gonzalez, J; Amaya-Villar, R; Añón, JM; Balan, A; Barberà, C; Barberán, J; Blandino, A; Boado, MV; Bustamante-Munguira, E; Caballero, J; Cantón-Bulnes, ML; Carbajales, C; Carbonell, N; Catalán-González, M; Franco, N; Galbán, C; Gumucio-Sanguino, VD; de la Torre, MD; Díaz, E; Estella, A; Gallego, E; Gómez, JM; Huerta, A; García, RNJ; Loza-Vázquez, A; Marin-Corral, J; Delgado, MCM; Martínez, A; Martínez, I; Lopez, J; Albaiceta, GM; Nieto, MT; Novo, MA; Peñasco, Y; Pérez-García, F; Ricart, P; Rodríguez, A; Sagredo, V; Sánchez-Miralles, A; Sancho, S; Roche-Campo, F; Socias, L; Solé-Violan, J; Tamayo, L; Trenado, J; Ubeda, A; Valdivia, LJ; Vidal, P; Barbé, F; Vallverdú, J; Torres, A. *Mechanical power is not associated with mortality in COVID-19 mechanically ventilated patients*. ANNALS OF INTENSIVE CARE. 2025; 15(1). FI: 6.9. Quartile: 1. (Article).

- Park LJ; Borges FK; Ofori S; Nenshi R; Jacka M; Heels-Ansdell D; Bogach J; Vogt K; Chan MT; Verghese A; Polanczyk CA; Skinner D; Asencio JM; Paniagua P; Rosen M; Serrano PE; Marcaccio MJ; Simunovic M; Thabane L; Devereaux PJ. *Association between Complications and Death within 30 days after General Surgery: A Vascular Events in Noncardiac Surgery Patients Cohort Evaluation (VISION) substudy*. ANNALS OF SURGERY. 2025; 282(6) 1007-1013. FI: 7.4. Quartile: 1. (Article).

- Gómez-Hidalgo, NR; Cabrera, S; Bebia, V; García-Pineda, V; Padilla-Iserte, P; Fabregas, FF; Fuste, P; Alonso, P; Rodriguez, TG; Fernandez-Gonzalez, S; Chacon, E; Alvarez, JAP; Oliver, R; Gil-Moreno, A. *The MULTISENT Study: A Multicenter Study on the Detection Rate of Sentinel Lymph Node Mapping in Endometrial Cancer Across Spain*. ANNALS OF SURGICAL ONCOLOGY. 2025. FI: 3.8. Quartile: 1. (Article).

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## *Cardiac Imagin Unit*

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## Advanced Therapy Medicinal Products (ATMPs)

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