

ANNUAL SCIENTIFIC  
REPORT

2022



Instituto de Investigación Sanitaria  
**Gregorio Marañón**

# Annual Scientific Report 2022



Instituto de Investigación Sanitaria  
Gregorio Marañón



**Hospital General Universitario  
Gregorio Marañón**



**FUNDACIÓN INVESTIGACIÓN BIOMÉDICA  
HOSPITAL GREGORIO MARAÑÓN**



**CONSEJERÍA DE SANIDAD  
Comunidad de Madrid**  
Dirección General de Investigación,  
y Docencia

Cover photo: Carla Gómez Oro



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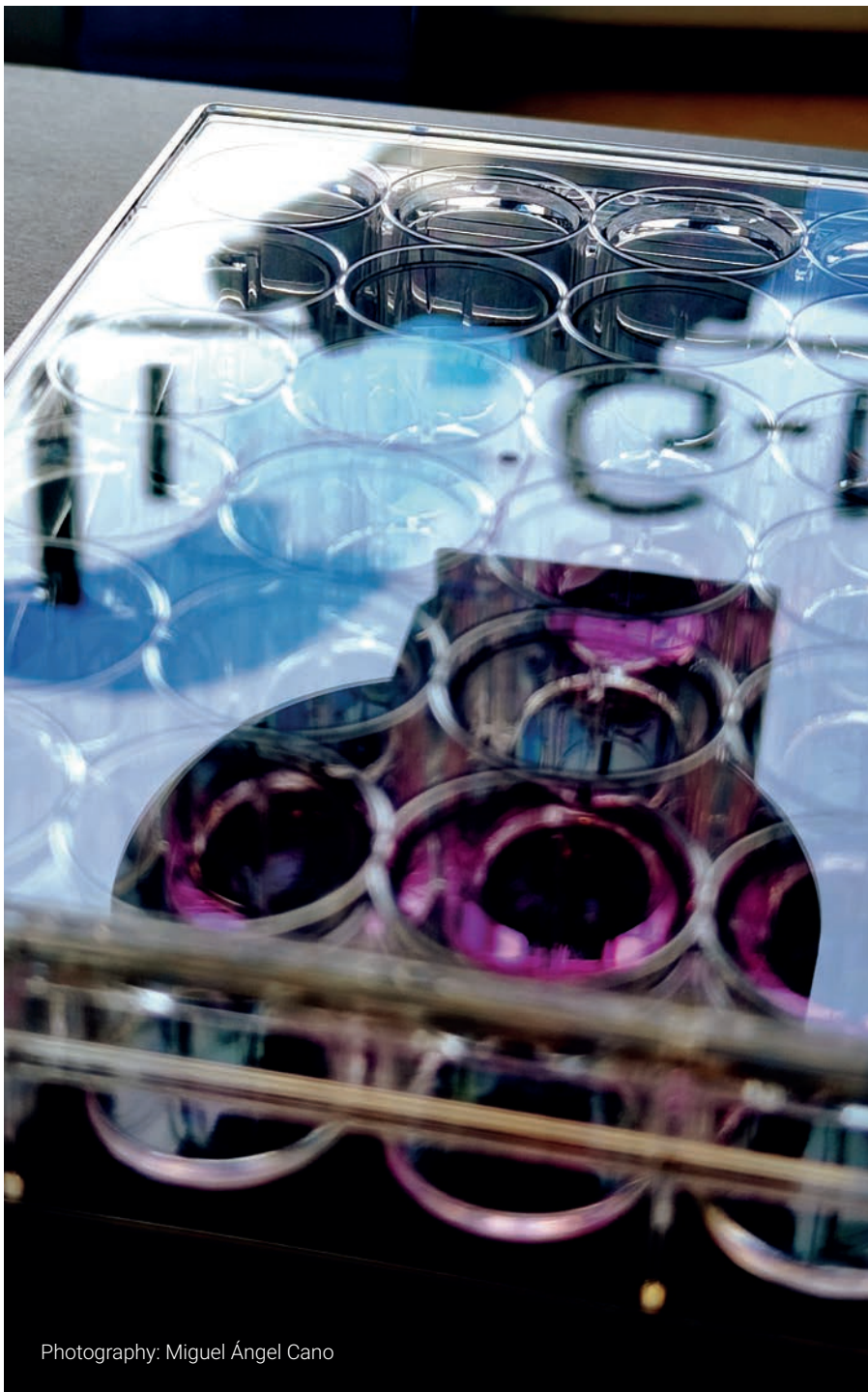
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## 1

## Presentation

We are pleased to introduce the 2022 Scientific Report from the **Institute for Health Research of the Hospital General Universitario Gregorio Marañón (IiSGM)**. Our primary aim is to disseminate the research and innovative initiatives conducted within our institution to various stakeholders and the wider community. Furthermore, we wish to acknowledge the **exceptional dedication exhibited by the researchers** within each Research Group.

The research activity conducted has shown remarkable growth over recent years. Regardless of the results of 2021, which were expected to be artificially increased by the change in the quantification of the Impact Factor, the results of 2022 exceed in 18% compared to those of 2020, resulting in a total of **7,731 impact factor points** in 2022. It is crucial to emphasize the rigorous evaluation process for publications affiliated with IiSGM, underscoring the reliability of this indicator. Additionally, it's worth noting that 45% of publications were led by IiSGM researchers, showcasing a high level of international collaboration in various publications. Furthermore, 45% of our research outputs were published in first decile or first quartile journals.

**The innovation efforts of IiSGM** are also noteworthy, with a diverse portfolio of innovative assets, including three successful spin-offs (Corify Care, Telara Pharma, ThyTech) tailored to the evolving needs of the healthcare system. Approximately 50% of our patents have been licensed to the market, demonstrating



considerable potential for future growth and attracting interest from productive and industrial sectors.

This impressive research and innovation activity owes its success to the **exceptional ability of our researchers to secure competitive funding** for projects and human resources. The latter is particularly vital, as it forms the foundation for the renewal of the center's researchers in successive generations. We must highlight the commitment of IISGM groups to **researcher training**, as evidenced by the substantial number of doctoral theses defended in 2022 and the ambitious Training Plan with up to 13 accredited courses, overseen by the IISGM Training Commission.

The managing body of IISGM, the **Foundation for Biomedical Research of the Hospital Gregorio Marañón (FIBHGM)**, continuously strives to enhance internal processes and maintain a commitment to ongoing quality improvement. Notable achievements include receiving the European Excellence Award in human resources management for the **Human Resources Strategy for Researchers (HRS4R)** and being the sole Institute for Health Research **fully certified under the ISO9001:2015 quality standard**.

These accomplishments are the result of the dedicated efforts of all IISGM professionals, and we extend our heartfelt gratitude to them, especially in the context of the sensitive environment of scientific research within hospital settings. The outstanding outcomes presented

in this report are the product of a coordinated collective effort aligned with a strategy focused on improving patient health. Remarkably, one new group joined the IISGM structure in 2022: Group 7.35, "Translational Dermatology: Research and Innovation", under the leadership of Ana Pulido Pérez and Marta Bergón Sendín, within the Research Area 7 "Systemic Diseases and Organ Transplantation".

Lastly, we wish to express our gratitude to all **Area Coordinators, Group Leaders, Research Groups, Research Support Services (SAIs), Clinical Services, and particularly our young researchers**, who form the backbone of IISGM's development and activities.

For another year, the results presented in this report reaffirm that our institution continues to evolve and grow, instilling high expectations for the future and positioning us advantageously to confront the significant challenges ahead while contributing to the foundations of biomedical research: observation, generating questions in clinical practice, and fostering multidisciplinary collaborative research to provide answers.

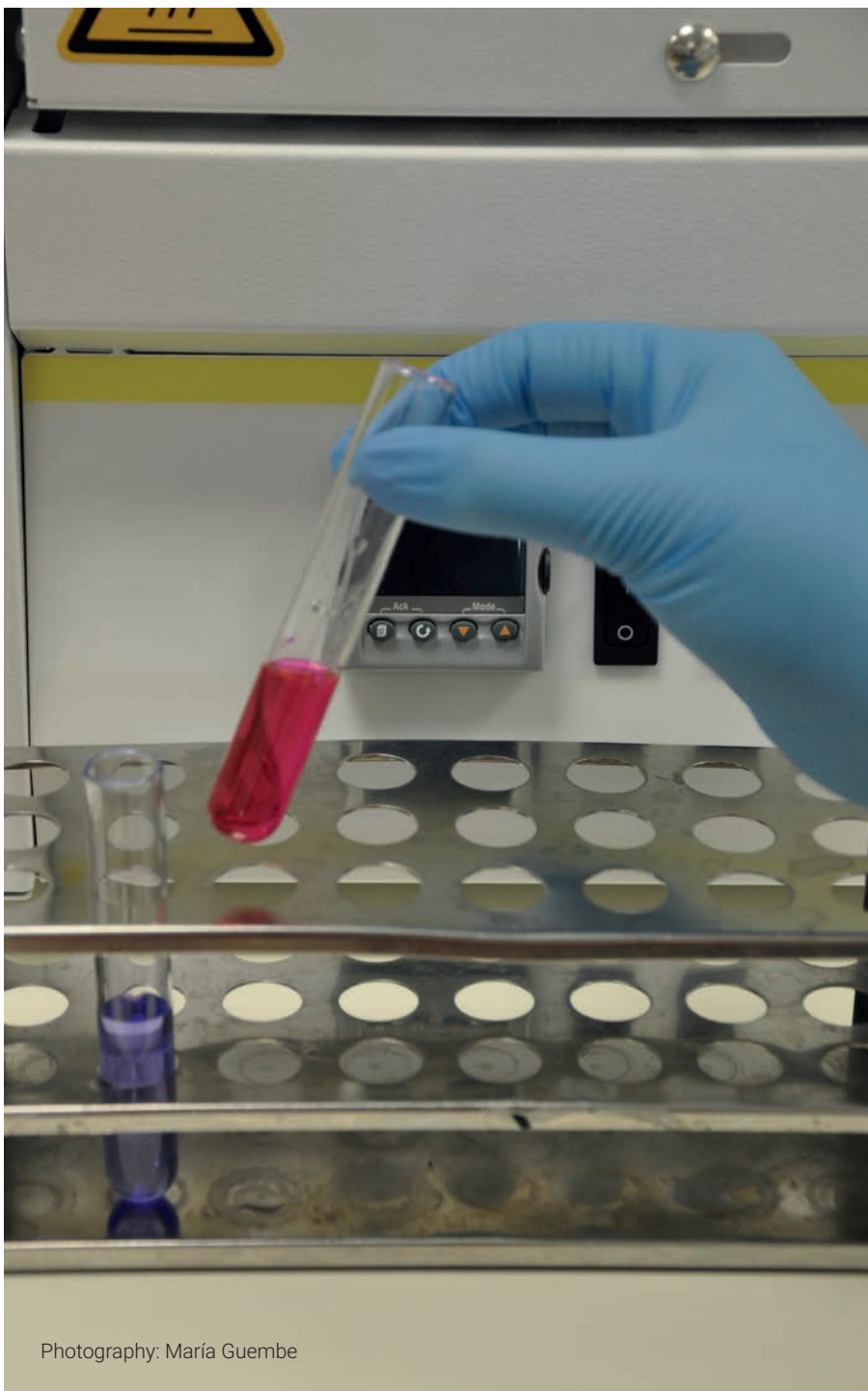
Thank you very much.

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

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







Photography: María Guembe

# 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):







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# 3

## Highlights





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# 4

## Executive Summary

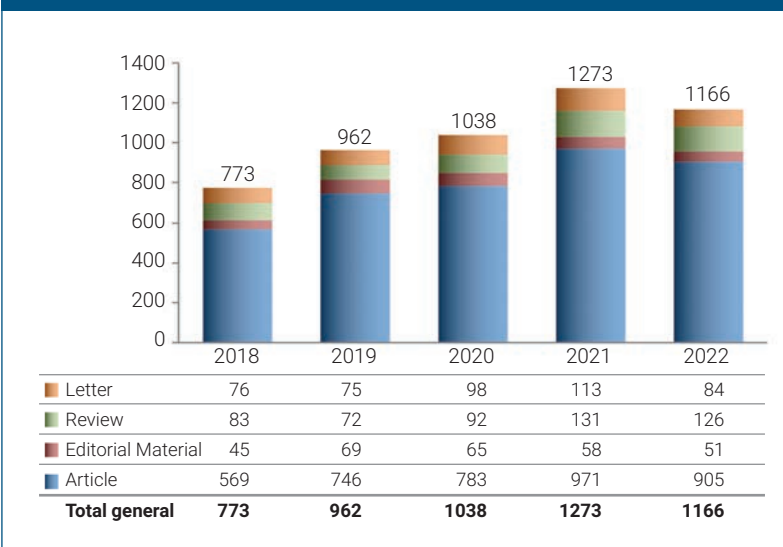


## Global Analysis

Analysis of the scientific production of IISGM and its bibliometric impact is an essential element in the evaluation of the Institute's research activity, given that both factors reflect the competitiveness of its researchers. In order to prepare this research report, we analyzed journals indexed in 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 2022, with a total of **1166** indexed publications (1082 excluding letters), which represent a global impact factor over **7731** points [6979 excluding letters].

Regardless of the increase in 2021, derived from both the "COVID effect" and the change in the Impact Factor calculation procedure, which occurred in 2020 and was expected to bias the 2021 data upwards, the 2022 results maintain the increasing trend observed during recent years and are significantly higher than those of 2020.

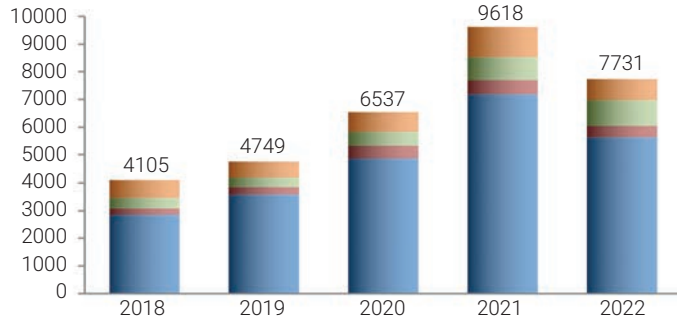
**Scientific output of IISGM in indexed journals with impact factor: number of publications by type of publication**







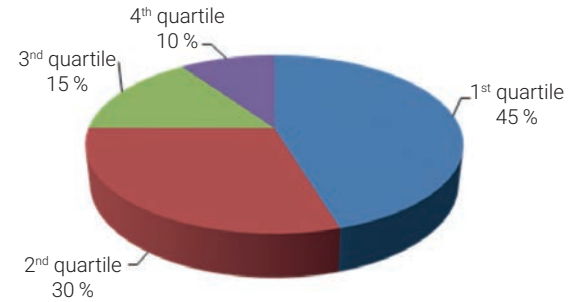
**Scientific output of liSGM: total impact factor by type of publication**



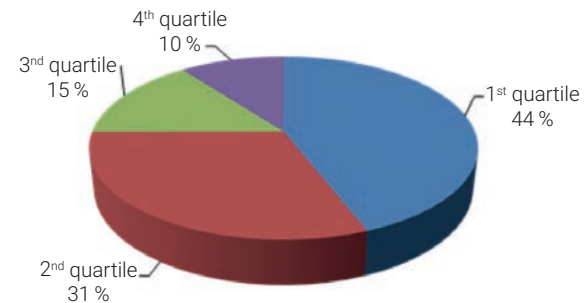
Letter	639	552	710	1087	752
Review	386	344	505	834	938
Editorial Material	224	267	454	506	408
Article	2856	3587	4868	7192	5633
<b>Total general</b>	<b>4105</b>	<b>4749</b>	<b>6537</b>	<b>9618</b>	<b>7731</b>

The previous figures summarize the total impact factor corresponding to the scientific production of the liSGM for each of the last 5 years and its distribution according to the different types of publication as can be observed, in this year 2022 the highest impact factor corresponds (in order) to: original articles, reviews, letters and editorials. 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.

**Scientific output of liSGM in indexed journals with impact factor: distribution by quartiles (relative to 2022, including letters)**

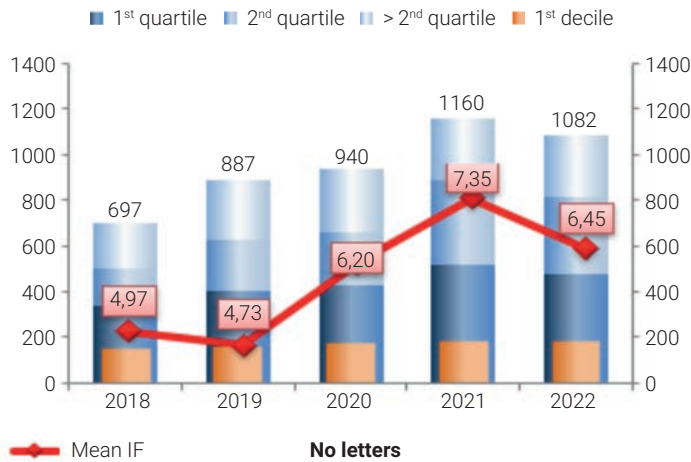
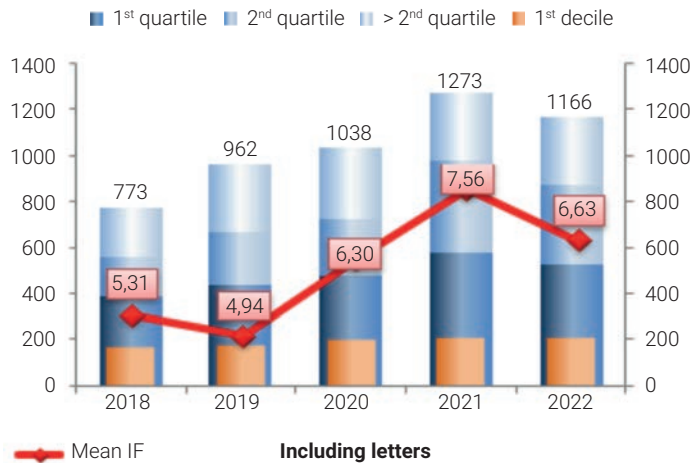


**Scientific output of liSGM in indexed journals with impact factor: distribution by quartiles (relative to 2022, no letters)**





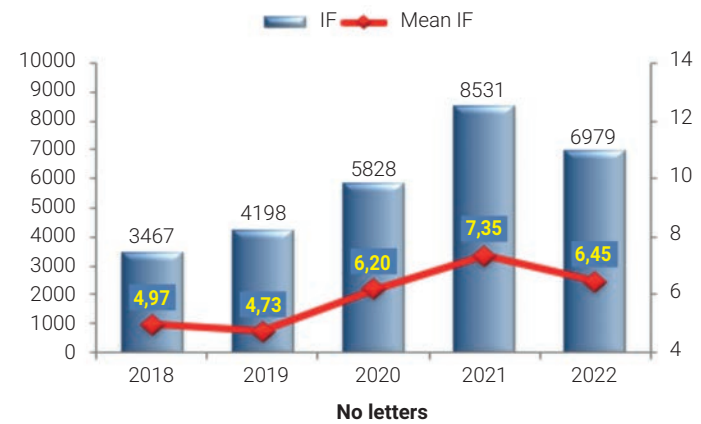
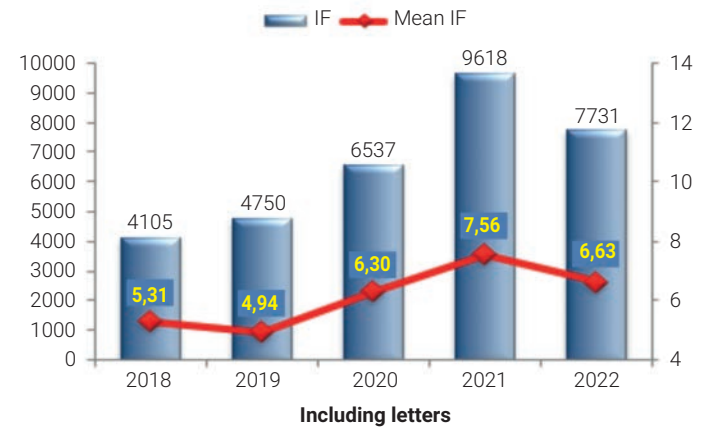
**Scientific output of IISGM in indexed journals with impact factor: distribution of publications by deciles and quartiles (absolute values)**



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

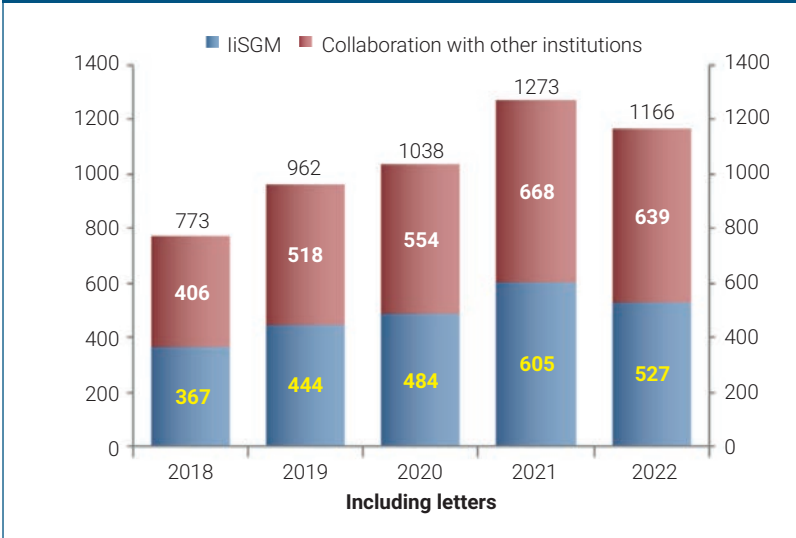
The distribution of IISGM publications according to quartile and decile is shown in the in the two previous graphs. The absolute number of publications in the first decile and first quartile has increased significantly compared to 2020.

**Global impact factor and mean impact factor by publication**

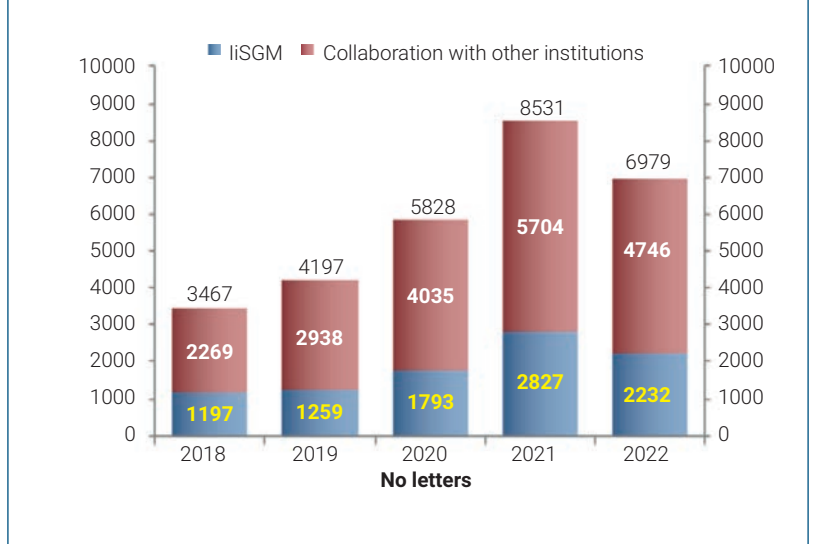
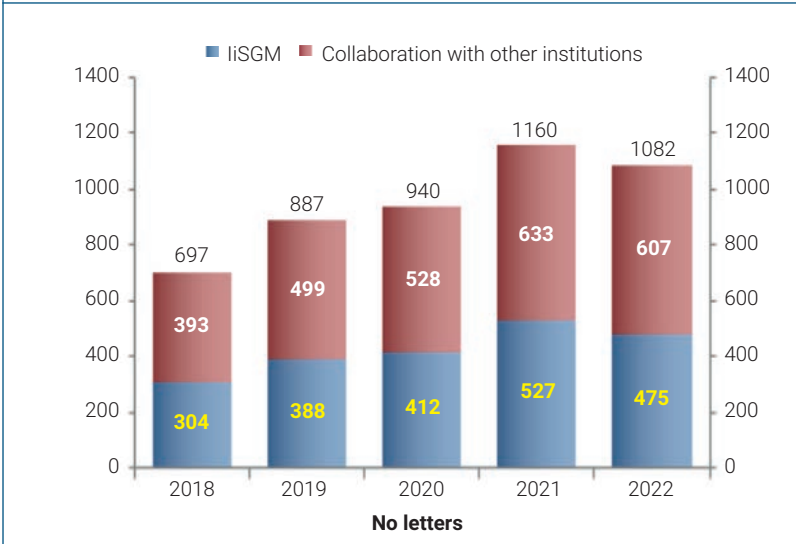
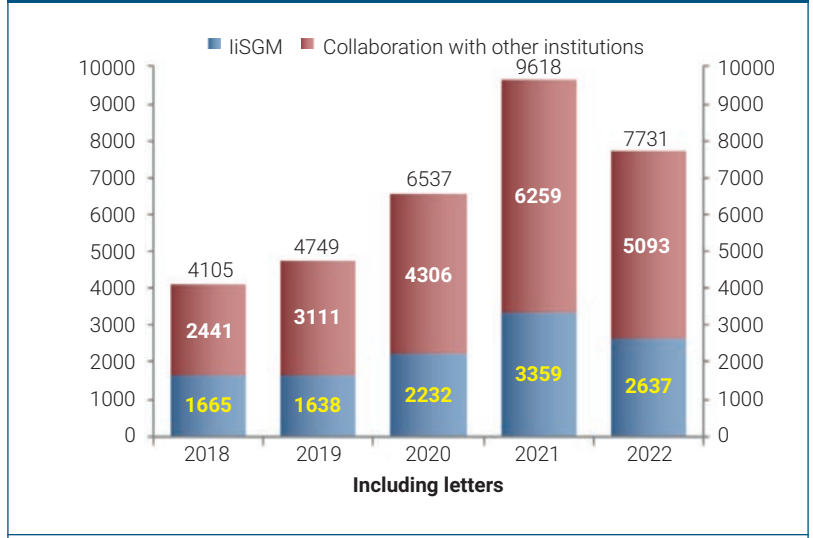


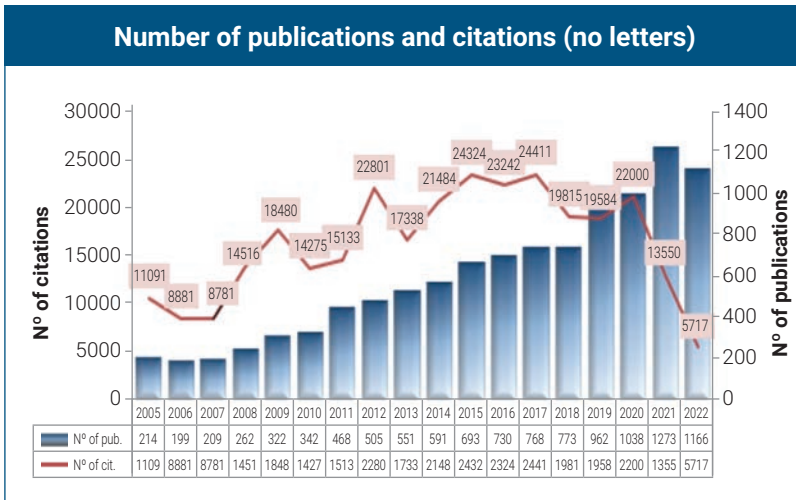


Scientific output of liSGM in indexed journals with impact factor: total number of publications

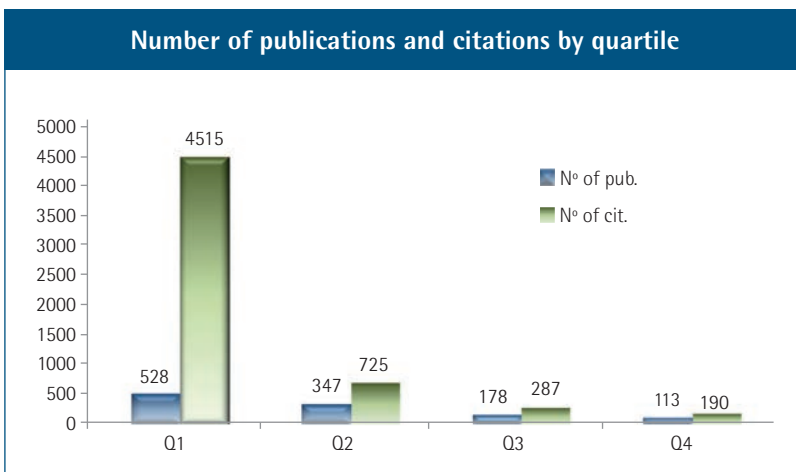


Scientific output of liSGM in indexed journals with impact factor: impact factor

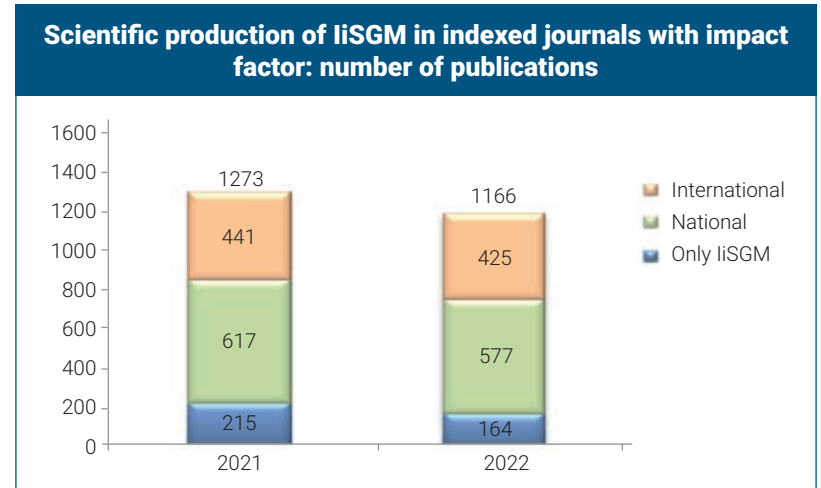




The number of citations for Institute publications over time is logically greater in elder publications, although the number of citations in relatively recent publications (2018-2022) is noteworthy, as is the number of first-quartile citations.



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



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

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

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



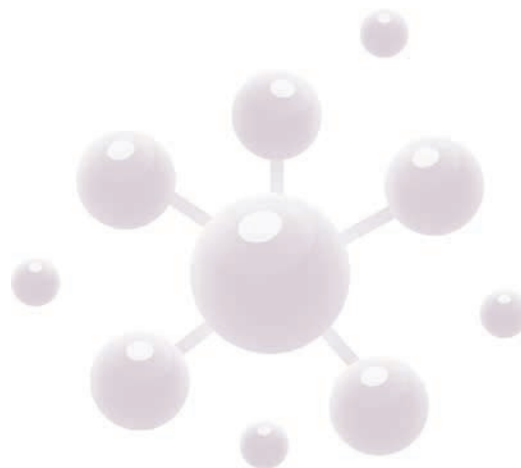
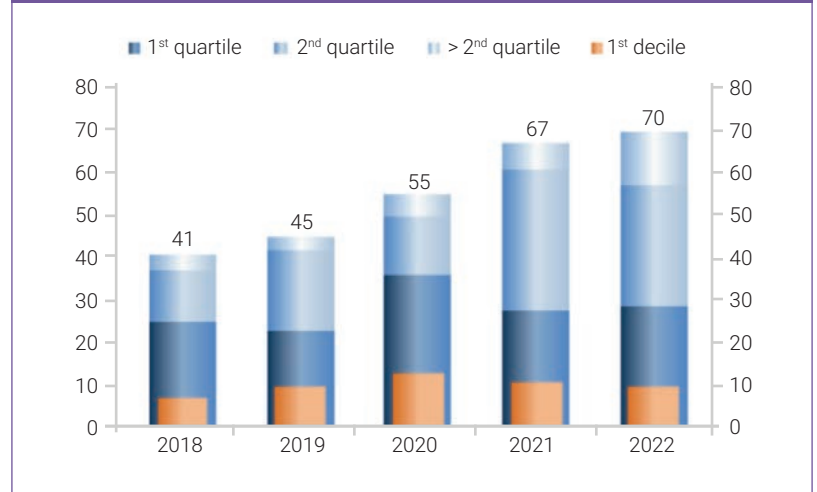


AREA 1: BIOMEDICAL ENGINEERING

Scientific output of Area 1 in indexed journals with impact factor: 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)





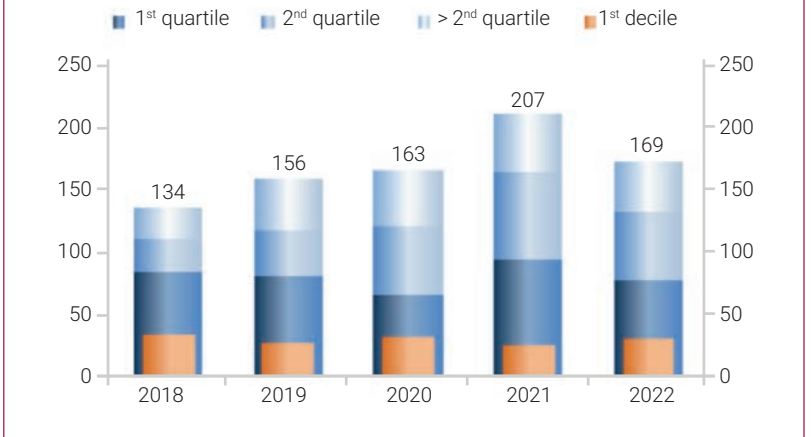


**AREA 2: CARDIOVASCULAR DISEASES**

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)

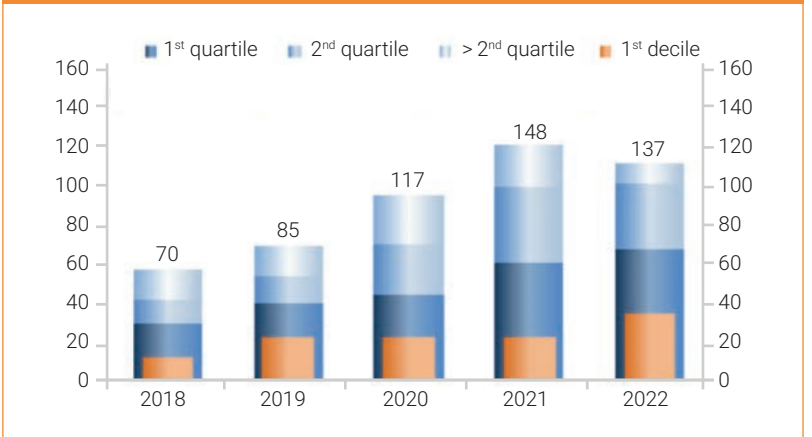


**AREA 3: NEUROSCIENCE AND MENTAL HEALTH**

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)

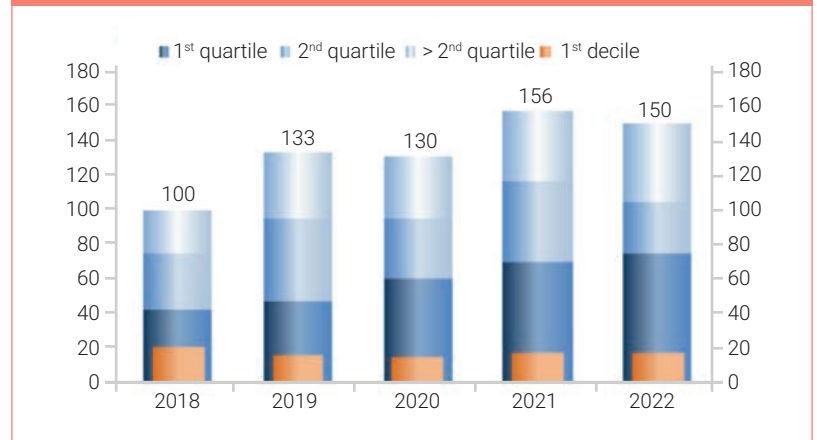


**AREA 5: DISEASES OF THE IMMUNE SYSTEM**

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)



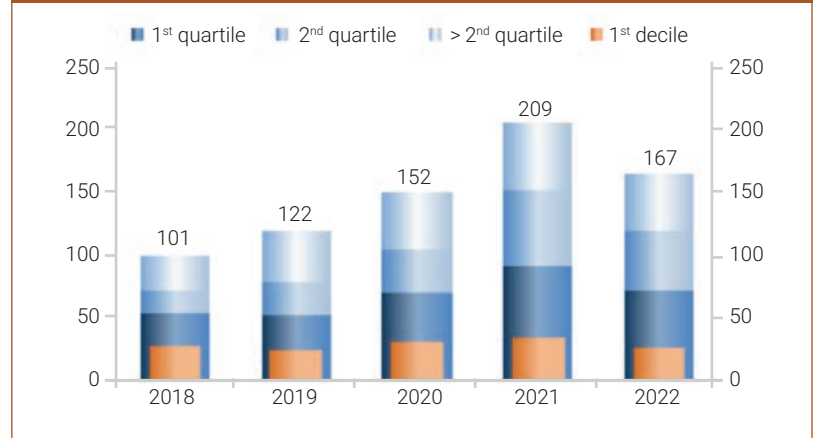


AREA 6: TRANSLATIONAL ONCOLOGY

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)

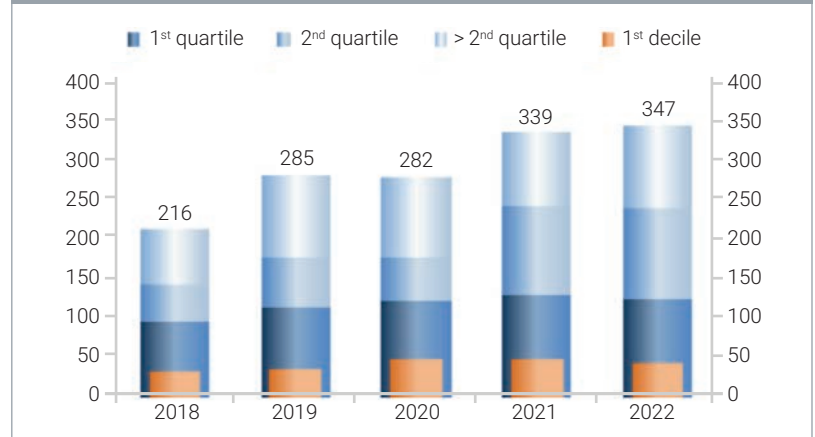


AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

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)



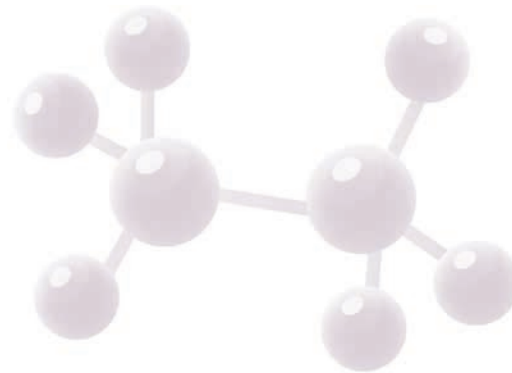
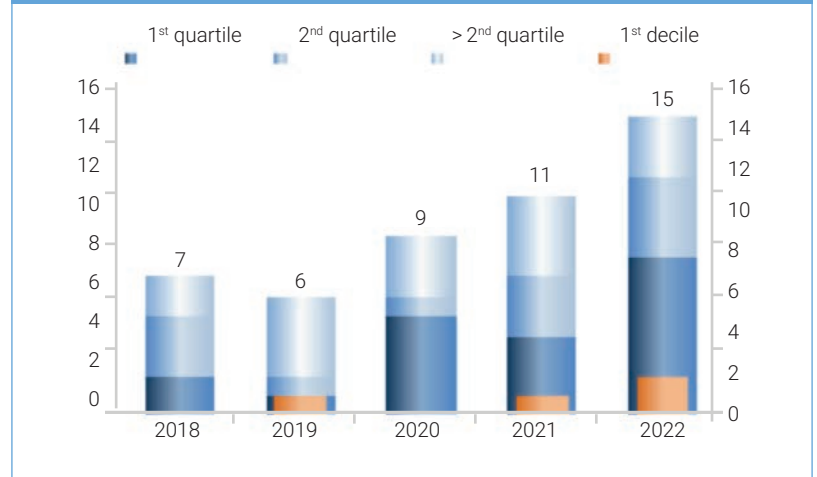


NURSING RESEARCH GROUP

Scientific output of Nursing Group in indexed journals with impact factor: total and mean impact factor



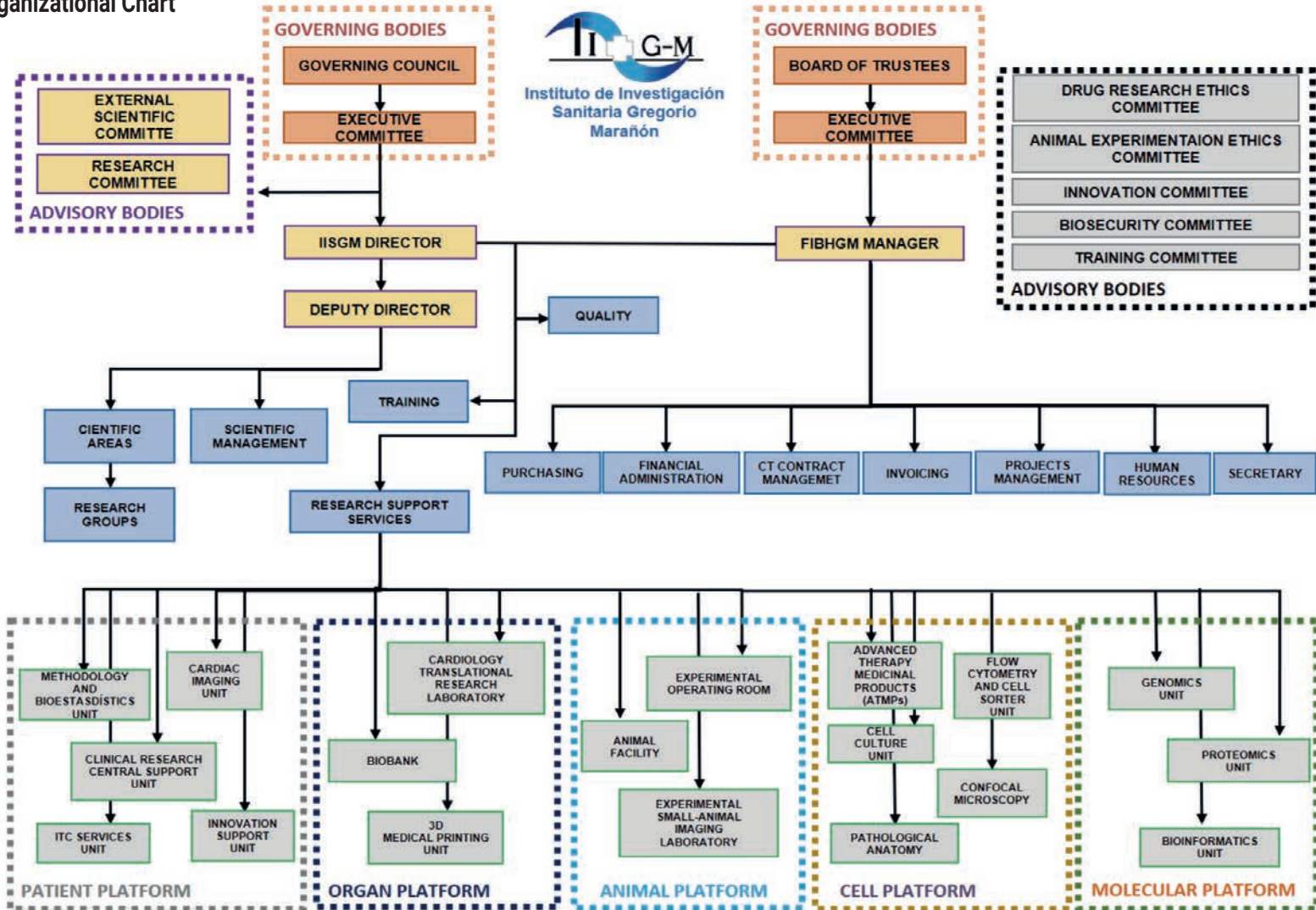
Scientific output of Nursing Group in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)





## Organizational structure of IISGM

### 1. Organizational Chart





## 2. Governing Bodies

### GOVERNING COUNCIL

- **Chair:** Teresa Chavarría Giménez (until 07-2022) (Vice Councillor of Health care. Comunidad de Madrid), Fernando Prados Roa (from 09-2022) .
- **First Deputy chair:** Margarita San Andrés Moya (Vice-Chancellor of Scientific Policy, Research, and Doctorates. UCM).
- **Second Deputy-chair:** Juan Romo Urroz (Chancellor of UC3M).
- **Members at large:** Joseba Barroeta Urquiza (until 9-2022) (Manager of HGUGM), Sonia García de San José (from 11-2022), Ismael Buño Borde (Scientific Director of IISGM, Chair of research Committee), Andrés Jesús Muñoz Martín (Chair of the Clinical Research Ethics Committee) Juan Francisco del Cañizo López (until 1-2022) (UCM Vicedean in HGUGM), Rafael Bañares Cañizares (from 2-2022).
- **Members:** Celso Arango López (Trustee of the FIBHGM), Rafael Bañares Cañizares (Trustee of the FIBHGM), Manuel Desco Menéndez (Trustee of the FIBHGM), Francisco Fernández-Avilés Díaz (Trustee of the FIBHGM) Miguel Martín Jiménez (Trustee of the FIBHGM), María Sanjurjo Sáez (Trustee of the FIBHGM), Miguel Ángel Pozo García (UCM), Juan José Vaquero (UC3M. Trustee of the FIBHGM).
- **Secretary:** Thierry Bardinnet (Director of the FIBHGM).

### EXECUTIVE COMMITTEE OF THE BOARD OF TRUSTEES

- **Chair:** Joseba Barroeta Urquiza (until 9-2022) (Manager of the HGUGM), Sonia García de San José (from 11-2022), Ismael Buño Borde Scientific Director of IISGM.
- **Members:** Celso Arango López (Trustee of the FIBHGM), Francisco Fernández-Avilés Díaz (Trustee of the FIBHGM), Miguel Martín Jiménez (Trustee of the FIBHGM), Miguel Ángel Pozo García (UCM), Rafael Bañares Cañizares (UCM. Trustee of the FIBHGM), Juan José Vaquero UCM. Trustee of the FIBHGM (UC3M. Trustee of the FIBHGM).
- **Secretary:** Thierry Bardinnet (Director of the FIBHGM).

## 3. 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:** Ismael Buño Borde. IISGM Scientific Director.
- **Secretary:** Constanancio Medrano López. HGUGM.
- **Members:** Cristina Andrés Zayas (HGUGM/R1), Luis Álvarez-Sala Walther (HGUGM), Celso Arango López (HGUGM), Antonio Artés Rodríguez (UC3M), Fernando Asensio Rubio (HGUGM), Rafael Bañares Cañizares (HGUGM), José M<sup>a</sup> Bellón Cano (HGUGM), Javier Bermejo Thomas (HGUGM), Rafael Correa Rocha (HGUGM), Isabel del Cura González (Primary Health Care), M<sup>a</sup> Carmen de la Cruz Arguedas (HGUGM), Juan Francisco del Cañizo López (until 1-2022) (UCM Vicedean in HGUGM), Manuel Desco Menéndez (HGUGM), Francisco Fernández-Avilés Díaz (HGUGM), Eduardo Fernández-Cruz (HGUGM), Ana M<sup>a</sup> García Pozo (HGUGM), Darío García de Viedma del Álamo (HGUGM), Juana Gil Herrera (HGUGM), Juan Antonio León Luis (HGUGM), Enrique Lledó García (HGUGM), Luis Andrés López Fernández (HGUGM), Miguel Martín Jiménez (HGUGM), Marta Martínez Bonet (HGUGM/R2), Luis Alberto Menchén Viso (from 3-2022) (UCM Vicedean in 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 (HGUGM).

## 4. Supporting bodies

### CLINICAL RESEARCH ETHICS COMMITTEE

- **Chair:** Andrés Jesús Muñoz Martín.
- **Vice-chair:** María Luisa Navarro Gómez.
- **Secretary:** Roberto Collado Borrell.
- **Members:** M<sup>a</sup> Luisa Baeza Ochoa de Ocariz, Ana M<sup>a</sup> Iglesias Mohezano, M<sup>a</sup> del Carmen Heras Escobar, Juan Antonio Andueza Lillo, M<sup>a</sup> del Carmen de la Cruz Arguedas, Ana Esther López Pérez, Vicente de las Peñas Gil, Eduardo Zatarain Nicolás, Pilar Aitana Calvo Ferrandiz, María Luisa Baeza Ochoa de Ocariz, Jose Luis Revuelta Herrero, Carlos Rojas-Marcos Asensi, Javier de Miguel Díez, Patricia Font López, Luis Andrés López Fernández, Antonio Muiño Miguez, Luis Ibáñez Samaniego, Isabel Gómez Valbuena, Luis Ibáñez Samaniego
- **Administrative:** Santos Puerta Cruz.

## ANIMAL EXPERIMENTATION ETHICS COMMITTEE

- **Chair:** Fernando Asensio Rubio.
- **Members:** Pedro Llontop Santisteban, María Luisa Soto Montenegro, Marta Roche Molina, Marta Martín-Arriscado Arroba, M<sup>a</sup> Victoria Gómez Gavero, Antonio Martínez Escandell, Javier Urbano Villares, Begoña Quintana Villamandos, María Eugenia Fernández Santos, Miguel Relloso Cereceda, Javier Vaquero Martín.

## INNOVATION COMMITTEE

- **Chair:** Ismael Buño Borde (IISGM.Scientific Director).
- **Vice-chair:** Manuel Desco Menéndez (UAI.Director).
- **Members:** Thierry Bardinet (FIBHGM. Manager), Sonia García de San José (HGUGM), Rubén Flores García (HGUGM), Carlos Blanco Bermejo (UC3M), Rafael Correa Rocha (FIBHGM.Investigator), Francisco Fernández Avilés Díaz (HGUGM), Ana Herranz Alonso (HGUGM), Iván Márquez Rodas (HGUGM), Rubén Pérez Mañanes (HGUGM), Guillermo Rodríguez Bernal (HGUGM), Juan Antonio de León Luis (HGUGM), David García (HGUGM), Manuel Pérez Vallina (HGUGM).
- **Secretary:** Antonio Rodríguez Hita (UAI).

## TRAINING COMMITTEE

- **Chair:** Constanancio Medrano López.
- **Members:** Ismael Buño Borde, Thierry Bardinet, José María Bellón Cano, Fernando Asensio Rubio, Rafael Correa Rocha, Javier de Miguel Díez, Arantzazu Miner Vélez.

## BIOSECURITY COMMITTEE

- **Chair:** Ignacio Sánchez-Arcilla.
- **Members:** Ismael Buño Borde, Thierry Bardinet, Ana Cerrrillo Martín, Purificación Pazos, Fernando Asensio, M<sup>a</sup> Dolores Vigil, José Luis Revuelta, Jesús Guinea, María del Carmen de la Cruz Arguedas, Javier Anguita, Julio Soto, Mario Arbequilla.
- **Secretary:** María Isabel Clemente Mayoral.





## RESEARCH SUPPORT SERVICES

- **Scientific Director:** Ismael Buño Borde.
- **Manager:** Thierry Bardinnet.
- **Responsibles:** José María Bellón Cano (Methodology and Biostatistics Unit), M<sup>a</sup> Carmen de la Cruz Arguedas (Clinical Research Central Support Unit), Antonio Rodríguez Hita (Innovation Support Unit), Javier Bermejo Thomas (Cardiac Imaging Unit), Manuel Pérez Vallina (ICT Services Unit), María Ángeles Muñoz-Fernández (Biobank), M<sup>a</sup> Eugenia Fernández Santos (Cardiology Translational Research Laboratory), Rubén Pérez Mañanes (3D Medical Printing Unit), Fernando Asensio Rubio (Experimental Operating Room), Fernando Asensio Rubio (Animal Facility) Lorena Cussó (Experimental Small-Animal Imaging Laboratory) M<sup>a</sup> 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), Julia Suárez González (Genomics Unit), Concha Gil García (Proteomics Unit), Javier Menárguez Palanca (Pathological Anatomy), Antonio C. Picornell Company (Bioinformatics Unit).

## 5. Management body of liSGM

### HOSPITAL GREGORIO MARAÑÓN BIOMEDICAL RESEARCH FOUNDATION

- **Director:** Thierry Bardinnet.
- **Project Management Area:** Montserrat Roura Portillo, Carlos Arias López, Rosa del Ser Toral, Francisco Matarin , Carmen Burgos Roldán, Mariano Roda Cordero, Blanca González Estables, Margarita Wong.
- **Scientific Management Area:** Arantzazu Miner Vélez, Ana Isabel Bravo Vega, Paula Camarena Ramírez, Silvia Rueda García.
- **Clinical Trial Management:** María del Carmen de la Cruz Arguedas, Miguel Ángel Conejo, Adolfo Labajos Simón, Valentina Gómez.
- **Human resources:** Alberto Gómez Moreno, María González Rodríguez, María Josefa Martín, Cynthia Piñero.
- **Accounting:** Estefanía Lavilla Guevara, M<sup>a</sup> Isabel Olmedo Andueza.
- **Invoicing:** Marta Martín-Arriscado Arroba.
- **Purchasing:** Miguel Ángel Conejo Martín.
- **Quality:** Thierry Bardinnet, Ana Álvarez, Arantzazu Miner Vélez.
- **Secretary:** Charo Calle Benito.





## 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 Rodríguez	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 Juan A. Guzmán de Villoria	EMERGING	HGUGM

### AREA 2: Cardiovascular diseases

**Coordinator:** Francisco Fernández-Avilés Díaz

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

UCM: Universidad Complutense de Madrid. HGUGM: Hospital General Universitario Gregorio Marañón. UC3M: Universidad Carlos III.

### AREA 3: Neuroscience and Mental Health

**Coordinator:** Celso Arango López

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

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

**Coordinator:** Patricia Muñoz García de Paredes

Group	Group Head	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	CONSOLIDATED	HGUGM

### AREA 5: Diseases of the Immune System

**Coordinator:** Eduardo Fernández-Cruz Pérez

Group	Group Head	Type of Group	Organization
5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Eduardo Fernández-Cruz Pérez	CONSOLIDATED	HGUGM
5.02 Molecular biology of HIV	M <sup>a</sup> 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 Marjorie Pion	EMERGING	HGUGM
5.07 Infections in pediatric patients	María Luisa Navarro Gómez	CONSOLIDATED	HGUGM

UCM: Universidad Complutense de Madrid. HGUGM: Hospital General Universitario Gregorio Marañón. UC3M: Universidad Carlos III.





### AREA 6: Translational Oncology

**Coordinator:** Miguel Martín Jiménez

Group	Group Leader	Type of Group	Organization
6.01 Interdisciplinary oncology and biotechnology	Ana Álvarez González Mercedes Muñoz Fernández	CONSOLIDATED	HGUGM-UCM
6.02 Translational medical oncology and personalized cancer therapy	Miguel Martín Jiménez	CONSOLIDATED	HGUGM-UCM
6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation	José Luis Díez Martín/ Ismael Buño Borde	CONSOLIDATED	HGUGM
6.04 Surgical oncology	Luis González Bayón	EMERGING	HGUGM

### AREA 7: Systemic Diseases and Organ Transplantation

**Coordinator:** Rafael Bañares Cañizares

Group	Group Leader	Type of Group	Organization
7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	María 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 Ignacio Garutti Martínez	CONSOLIDATED	HGUGM
7.06 Regenerative medicine in plastic surgery	José M <sup>o</sup> Lasso Vázquez	ASOCIATED	HGUGM
7.07 Experimental kidney transplantation	Enrique Lledó García	EMERGING	HGUGM
7.08 Pediatric endocrinology	Marina Mora Sitj María Sanz Fernández	ASOCIATED	HGUGM

Group	Group Leader	Type of Group	Organization
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	M <sup>o</sup> Begoña Quintana Villamandos Juan Francisco del Cañizo	EMERGING	HGUGM
7.18 Peritransplant evaluation (liver)	José María Pérez Peña	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 Freneña	EMERGING	HGUGM
7.27 Hospital pharmacy and pharmacogenomics	María Sanjurjo Sáez	CONSOLIDATED	HGUGM
7.28 Clinical nutrition	M <sup>o</sup> 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 Juan Antonio León Luis	EMERGING	HGUGM
7.32 Physical medicine and rehabilitation	Sonia Esteban Marta Supervía Pola	EMERGING	HGUGM
7.33 Pathological Anatomy	Javier Menárguez Palanca	EMERGING	HGUGM
7.34 Multimorbidity, chronic diseases and health services. Primary Care	Isabel del Cura González Jesús Martín Fernández	CONSOLIDATED (in the process of integration)	HGUGM
7.35 Dermatología traslacional: Investigación e Innovación	Ana Pulido Pérez Marta Bergón Sendín	EMERGING	HGUGM

### Nursing Research Group

**Coordinator:** Ana García Pozo

Group	Group Head	Organization
Research in nursing	Ana María García Pozo	HGUGM

UCM: Universidad Complutense de Madrid. HGUGM: Hospital General Universitario Gregorio Marañón. UC3M: Universidad Carlos III.

UCM: Universidad Complutense de Madrid. HGUGM: Hospital General Universitario Gregorio Marañón. UC3M: Universidad Carlos III.





## Competitive publicly funded research staff contracts

### INSTITUTO DE SALUD CARLOS III

	Area	Group	IP
<b>Miguel Servet Tipo II contracts</b>			
María Guembe Ramírez	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	María Guembe Ramírez
Belén Rodríguez Sánchez	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Belén Rodríguez Sánchez
Laura Pérez García	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Laura Pérez García
Pilar Escribano Martos	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Pilar Escribano Martos
Susana Carmona Cañavate (A partir del 01/06/2022)	1. Biomedical Engineering	1.01 Advanced technological applications and human health	Manuel Desco Menéndez
<b>Sara Borrell contracts</b>			
Ana M <sup>a</sup> Santos Coquillat	1. Biomedical Engineering	1.01 Advanced technological applications and human health	Manuel Desco Menéndez
González Peñas, Javier	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
Tarancón Díez, Laura	5. Diseases of the Immune System	5.02 Molecular biology of HIV	María Ángeles Muñoz Fernández
Marta Martínez Bonet	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Rafael Correa Rocha

	Area	Group	IP
<b>Río Hortega contracts</b>			
Gema Manrique Martín	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child	Jesús López-Herce Cid
Aranzazu Caballero Marcos	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases	Rafael Bañares Cañizares
Sara Boi	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	María José Parellada Redondo
Laura Butrageño Laiseca	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child	Jesús López-Herce Cid
David Alonso Menchén	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Patricia Muñoz García-Paredes
Chiara Fanciulli	4. Clinical Microbiology: Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions	Juan Berenguer Berenguer
María Amalia Tamargo Delpón	2. Cardiovascular diseases	2.01 Natural history of heart disease	Javier Bermejo Thomas
Álvaro Andreu Bernabeu	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
Alicia Hernanz Lobo	5. Diseases of the Immune System	5.02 Molecular biology of HIV	María Ángeles Muñoz Fernández
<b>Juan Rodés contracts</b>			
Alicia Galar Recalde	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Patricia Muñoz García-Paredes
Leire Pérez Latorre	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Patricia Muñoz García-Paredes





### INSTITUTO DE SALUD CARLOS III (cont.)

	Area	Group	IP
<b>Juan Rodés contracts</b>			
María Covadonga Martínez Díaz-Caneja	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
Sarah Nicole Fernández Lafever	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child	Jesús López-Herce Cid
<b>Predoctoral contracts (PFIS)</b>			
Magdalena Martínez García	1. Biomedical Engineering	1.01 Advanced technological applications and human health	Susana Carmona
Renzo Abregu Crespo	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
Mónica Burdeus Olavarrieta	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	María José Parellada Redondo
Judith Díaz García	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Jesús Vicente Guinea Ortega
Aina Catalina Mesquida Marcos	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Jesús Vicente Guinea Ortega
Cristina Rodríguez Grande	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Darío García de Viedma
Marta Fernández Castillo	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Rafael Correa Rocha

	Area	Group	IP
<b>Predoxal contracts (PFIS)</b>			
Jorge Gallego Valle	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Marjorie Pion
<b>Research Management Contracts</b>			
Paula Camarena Ramírez			Technical Unit FIBHGM

### MINISTERIO DE CIENCIA E INNOVACIÓN

	Area	Group	IP
<b>Predoxal Contracts</b>			
Christian Chazo Pa	2. Cardiovascular diseases	2.01 Natural history of heart disease	Francisco Jesús Fernández-Avilés Díaz

### MINISTERIO DE EDUCACIÓN Y CIENCIA

	Area	Group	IP
<b>FPU Contracts (University Teacher Training Contracts)</b>			
Alicia García Alcón	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
Laura Colomar Molla	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Celso Arango López
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







### MINISTERIO DE CIENCIA E INNOVACIÓN

	Area	Group	IP
<b>Young employment Program contracts</b>			
Sergio Mezquita García	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Pilar Escribano Martos
Alba Alarcón Escudero	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Javier Alberto Carbone Campoverde
Paula Barnese García	7. Systemic Diseases and Organ Transplantation	7.16B Pathophysiology of the cardiovascular system and circulatory support	M <sup>a</sup> Begoña Quintana Villamandos/Juan Francisco del Cañizo
Carla Gómez Oro	7. Systemic Diseases and Organ Transplantation	7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Miguel Relloso Cereceda
Lidia Albadalejo Navarro		Animal Facility	Fernando Asensio Rubio
Carolina Franco Herrera	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases	Rafael Bañares Cañazares

### COMUNIDAD AUTÓNOMA DE MADRID

	Area	Group	IP
<b>Young employment Program contracts</b>			
M <sup>a</sup> de la Jara Felipe Maestre	1. Biomedical Engineering	1.01 Advanced technological applications and human health	Manuel Desco Menéndez
Elena Fernández Cortés-Navia	1. Biomedical Engineering	1.01 Advanced technological applications and human health	María Victoria Gómez Gaviro

	Area	Group	IP
<b>Young employment Program contracts</b>			
Noemí González Lois	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Joost Jansenn
José González Leiva	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Jesús Vicente Guinea Ortega
Javier Adán Jiménez	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Darío García de Viedma
Laura Jiménez Navarro	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Elena Reigadas Ramírez
Álvaro Otero Sobrio	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
Belén Rodríguez Márquez	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Patricia Muñoz García-Paredes
Susana García Miranda	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Pilar Escribano Martos
Andrea Molero Salinas	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Laura Pérez García
Kristofer Miguel Limay Carré	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Javier Alberto Carbone Campoverde
Rocio Alonso Armendáriz	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Javier Alberto Carbone Campoverde





### COMUNIDAD AUTÓNOMA DE MADRID (cont.)

	Area	Group	IP
<b>Young employment Program contracts</b>			
Mario Alberto Cahuana Pérez	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Carmen Rodríguez Sainz
Cristina García Pérez de la Lastra	5. Diseases of the Immune System	5.02 Molecular biology of HIV	María Ángeles Muñoz Fernández
Beatriz Cozar Fernández	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Rafael Correa Rocha
Sergio Gil Manso	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Marjorie Pion
Celia Fernández Martín	6. Translational Oncology	6.01 Interdisciplinary oncology and biotechnology	Mercedes Muñoz Fernández
Carolina Franco Herrera	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases	Rafael Bañares Cañizares
David Blanco Collado	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases	Javier Vaquero Martín
Nuria Hidalgo Herrero		Animal Facility	Fernando Asensio Rubio
Rebeca Lobo Veg	1. Biomedical Engineering	1.01 Advanced technological applications and human health	María Luisa Soto Montenegro
Blanca González Chicharro		Animal Facility	Fernando Asensio Rubio

	Area	Group	IP
<b>Young employment Program contracts</b>			
Jaime Abella Larraz	1. Biomedical Engineering	1.01 Advanced technological applications and human health	Manuel Desco Menéndez
Paula Zapata Cobo	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics	Luis Andrés López Fernández
Alicia Nieto Valle	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Rafael Samaniego García
Alba María Alises Zamora		Cell Culture Unit	Maribel Clemente Mayoral
Sergio Checa Fernández	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system	Rafael Correa Rocha
Andrés Visedo Garcí	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	María Guembe Ramírez
José González Lei	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Jesús Vicente Guinea Ortega
Alicia Herrero Ru	7. Systemic Diseases and Organ Transplantation	7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Miguel Relloso Cereceda
Amadeo Sanz Pérez	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Darío García de Viedma
Nerea Alonso Alegría	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases	Pilar Escribano Martos





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

	Area	Group
<b>Intramural Program to Promote Research Predoctoral contracts</b>		
Alexandra Garriz Luis	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Javier Martín Escolan	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases
María de la Sierra Espinar Buitrago	5. Diseases of the Immune System	5.02 Molecular biology of HIV
María Isabel González Gutiérrez	1. Biomedical Engineering	1.01 Advanced technological applications and human health
María Martínez García	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
Elena Vázquez Ogando	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases
Beatriz Martín Sánchez	7. Systemic Diseases and Organ Transplantation	7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney
	Area	Group
<b>Intramural Program to Promote Research Predoctoral in healthcare innovation Contract</b>		
Sergio Buenestado Serrano	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases
Alejandro Jorge Guerrero López	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases

	Area	Group
<b>Intramural Program to Promote Research Post-specialized Health Training Contracts</b>		
Sara Boi	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Sara de la Mata Navaz	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child
Amanda Bermejo Gómez	5. Diseases of the Immune System	5.07 Infections in pediatric patients
María Alejandra Mejía González	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases
Zita María Gambacorti Passerin	7. Systemic Diseases and Organ Transplantation	7.31 Pathophysiology in women, pregnancy, labor, and puerperium
Agustín Estevez Prieto	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases
Christian Mario Amadeo Oblita	2. Cardiovascular diseases	2.06 Blood lipids and cardiovascular risk
Jorge Martínez Solan	2. Cardiovascular diseases	2.01 Natural history of heart disease
María Teresa Schiaffino	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases
<b>Intramural Program to Promote Research Post-doctoral Contracts</b>		
David Rodríguez Temporal	4. Clinical Microbiology: Infectious diseases and AIDS	4.01 Clinical microbiology and infectious diseases
Sara Salvador Martí	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics
Xaquín Gurriaran Bas	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment





**FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM  
(INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN)  
(cont.)**

	Area	Group
<b>Intramural Program to Promote Research Intensification of research activity contracts (I+D+I and Nursing care)</b>		
Felipe Atienza Fernández	2. Cardiovascular diseases	2.01 Natural history of heart disease
Juan Adán Guzmán de Villoria Lebidziejewski	3. Neuroscience and Mental Health	3.03B Neurological diseases
María Dolores González Ba	8. Nursing Group	8.00 Nursing Group
Saray Corral Carretero	4. Clinical Microbiology: Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Rafael González Cortés	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child
Jesús Saavedra Lozano	5. Diseases of the Immune System	5.07 Infections in pediatric patients
<b>Researches Stabilization Contracts</b>		
María Luisa Soto Montenegro	1. Biomedical Engineerin	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
M <sup>a</sup> Jesús Serramía Lobera	4. Clinical Microbiology: Infectious diseases and AID	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Amaya Rocío Puig Kröger	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases

	Area	Group
<b>Researches Stabilization Contracts</b>		
José Luis Jiménez Fuentes	5. Diseases of the Immune System	5.02 Molecular biology of HIV
Rafael Correa Rocha	5. Diseases of the Immune System	5.06 mmune regulation and homeostasis in diseases of the immune system
Marjorie Pio	5. Diseases of the Immune System	5.06 mmune regulation and homeostasis in diseases of the immune system
Javier Vaquero Martín	7. Systemic Diseases and Organ Transplantation	7.10 Regeneration and biomaterials in musculoskeletal disease
Luis Andrés López Fernández	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics
Miguel Reloso Cereceda	7. Systemic Diseases and Organ Transplantation	7.30 Pathophysiology in women, pregnancy, labor, and puerperium
<b>Research Support Technician and Technical Staff</b>		
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



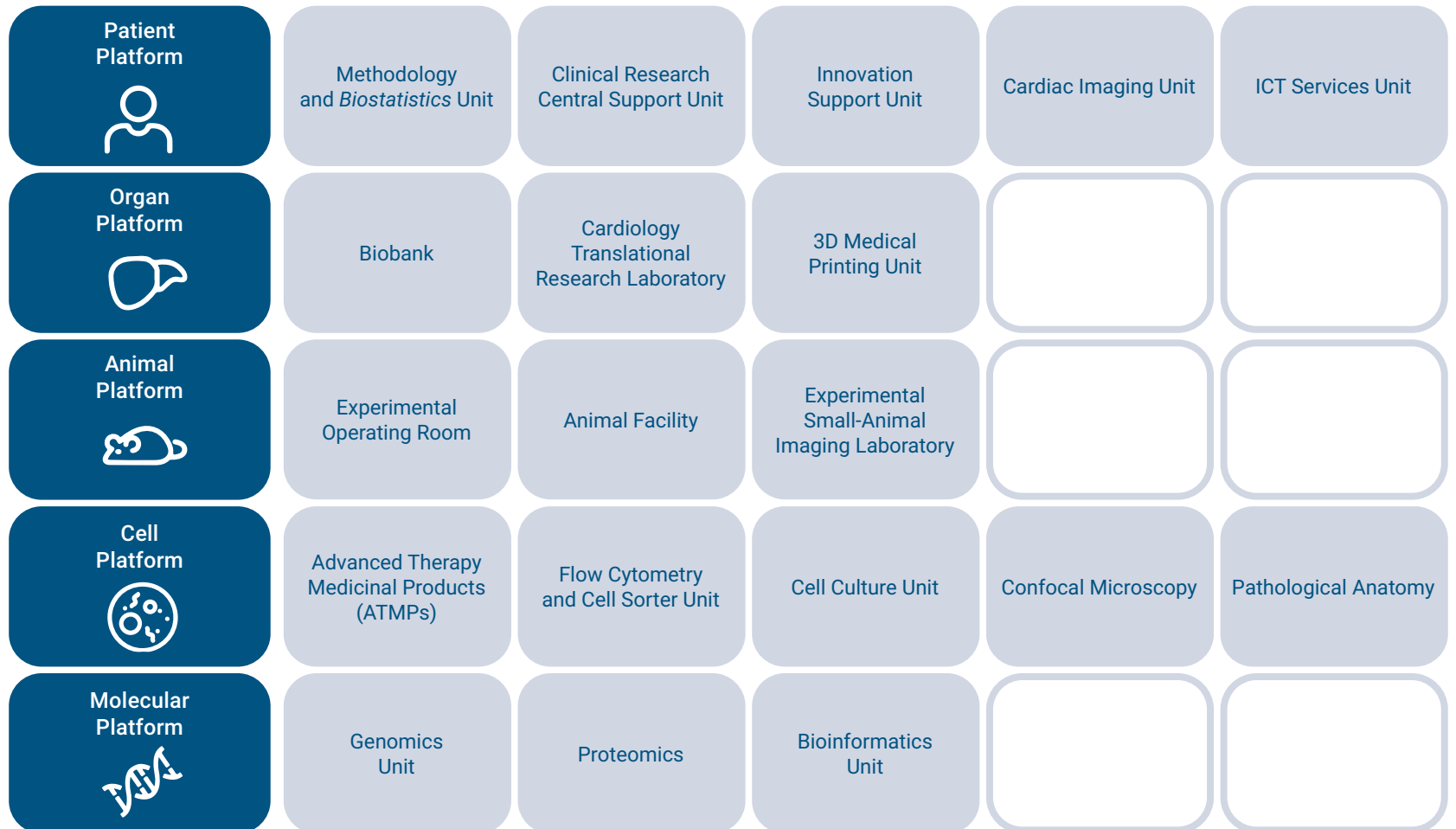


### Research Support Services (RSSs)

liSGM has organized research support services into various technology platforms according to the object of research. Thus, liSGM 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.





## METHODOLOGY AND BIOSTATISTICS UNIT

### Mission

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

### Description

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

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

### Services provided

*Methodological advice:*

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

*Support and follow-up of ongoing projects:*

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

*Application and statistical analysis of databases:*

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

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

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

### Facility

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

In addition, at the Maternal and Child Hospital (5th floor), she has an office for shared use with other members of the Research Unit of the Alonso Family Foundation (UDIMIFFA).

### Technology

Three networked computers with access to Internet and a shared printer. The computers run SPSS and open-access statistical software such as EPIDAT 3.1, Granmo 7.1, and R.

### Staff

José María Bellón Cano, Head of Unit and Pablo González Navarro.

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

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E-mail: josemaria.bellon@salud.madrid.org

Edificio prefabricado (planta 0)

Hospital General Universitario Gregorio Marañón

C/Dr. Esquerdo 46, 28007

#### Pablo González Navarro

UDIMIFFA

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C/O'Donnell 48, 28009 Madrid







## PLATFORM FOR CLINICAL RESEARCH AND CLINICAL TRIAL UNITS

### Mission

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

### Description

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

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

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

### Services

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

- Support in the management of documentation for evaluation by the Ethics Committee and regulatory bodies (Spanish Medication Agency [AEMPS] and regional government bodies)
- Advice, management, and support with the preparation and follow-up of administrative documentation linked to the project
- Coordination and follow-up of approvals and implementation of the study (logistics and operations).
- Advice on management of medication and on performance of the trial (selection of CRO).
- Advice on the management of supplier contracts
- Monitoring Clinical studies  
ISO 9001: 2015 certificate ES18/81874

### Contact

#### María del C. de la Cruz Arguedas

Head of Unit

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Pabellón de Gobierno (planta baja)

Hospital General Universitario Gregorio Marañón

Calle Dr. Esquerdo, 46 28007 Madrid



## INNOVATION SUPPORT UNIT

### 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.

### Technological Offer Portfolio

The UAI has built a large health ecosystem network, that can help companies to commercialize as well as scale-up new products and solutions.

Please see the following link to view our current technological offer.

<https://www.iisgm.com/innovacion/propiedad-intelectual-e-industrial/propiedad-intelectual-e-industrial/>

### Services

The UAI offers the following services:

- Ideas evaluation Commercialization of research results
- Search for business or technological partners
- Contract drafting and negotiation (patent license agreements, NDAs, etc)
- Protect industrial and intellectual property
- Help researchers to access funding or grants to support projects
- Advice on technology transfer and creation of spin-offs
- Advice on contracts (drafting of collaboration agreements, licensing contracts, etc.).
- Training in innovation management issues

### Location

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

### Organization

- Head of unit: Manuel Desco
- Project manager: Antonio Rodríguez
- Innovation manager: Daniel Sánchez
- Innovation manager: Eva Caravilla
- Quality control technician: Ana Álvarez

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

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

Steering Committee:

- President: Ismael Buño Borde (Scientific Director).
- Vice president: Manuel Desco Menéndez (Innovation Support Unit Director).
- D. Thierry Bardinet (Foundation Director)
- Members:
- Sonia García de San José (Deputy Manager of HGUGM)
- Francisco Fernández-Avilés Díaz (Head of Cardiology Service).
- Rubén Pérez-Mañanes (Head of Orthopedic and Traumatic Surgery Section)
- Ana Herranz (Head of Hospital Pharmacy Section)
- Rafael Correa (Head of Group of the Immunoregulation Laboratory)
- Iván Márquez (Coordinator of the Hereditary-Familial Cancer Unit)
- Guillermo Rodríguez (Area Specialist in the Anesthesia and Resuscitation Service)
- Carlos Blanco (Vice-president of Research and Transfer of the UC3M)
- David García (Press Chief)
- Manuel López-Vallina (Deputy Director for Information Systems)
- Secretaría: Antonio Rodríguez Hita (Innovation Support Unit Project Manager)

### Contact

#### Antonio Rodríguez

Tel: 91 426 92 79

E-mail: [innovacion@iisgm.com](mailto:innovacion@iisgm.com)

Pabellón de Gobierno (ground floor)

Hospital General Universitario Gregorio Marañón

Calle Doctor Esquerdo 46, 28007 Madrid





## CARDIAC IMAGING UNIT

### Mission & Rationale

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

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

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

On this basis, the mission of the Cardiac Imaging Unit is to provide a service to research groups both within and outside the IISGM that

can benefit from evaluation of heart function with echocardiography or magnetic resonance and evaluation of the risk of atherosclerosis using carotid ultrasound.

### Description

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

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

The Cardiac Imaging Analysis Unit of the Cardiology Service is situated on the ground floor of the IPMQ building in Hospital Gregorio Marañón. It covers 40 m<sup>2</sup> and has a latest-generation computer system with high storage capacity. It also has validated systems for quantitative evaluation of cardiovascular parameters (see below).

### Services provided

#### *Echocardiography*

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

#### *Carotid ultrasound*

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





### *Functional cardiac MRI without contrast*

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

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

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

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

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

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

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

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

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

### *Cardiac MR (as per request)*

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

### **Procedure for requesting a specific service**

The order form to be used is liSGM IM-SPE-7.

The order form has 5 sections:

1. Name of the ISS
2. Name of the person requesting the service
3. Data on the service required and budget\*
4. Remarks: Indicate whether the invoice is a self-invoice\*\*
5. Signatures

**NOTE:** Sample transport is the responsibility of the Imaging Unit. The procedure is as follows:

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

\*Data on the services provided: Quantitative MR analysis. Quantitative echocardiography analysis. Quantitative carotid ultrasound analysis

\*\*If justification is required for public projects, the SOP for self-invoicing liSGM (PR-SPE-06) will be applied.





PATIENT PLATFORM  
CARDIAC IMAGING UNIT

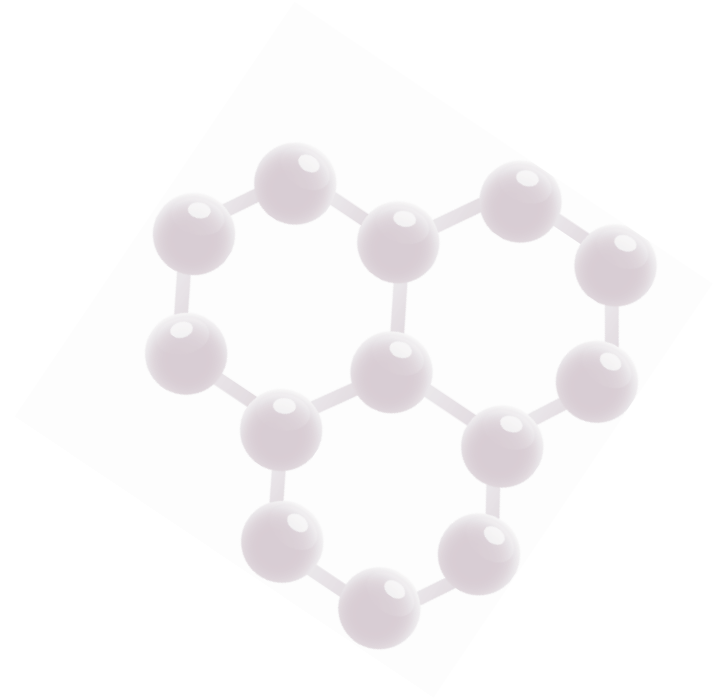
### Contacts

**Dr. Javier Bermejo Thomas**

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Coordinator, Noninvasive Cardiology Area  
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Cardiology Department  
Hospital General Universitario Gregorio Marañón  
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Tel.: 91 586 88 15

**Ana Fernández Baza**

Secretary of the Cardiology Department  
5th floor. Area 5100  
Cardiology Department  
Hospital General Universitario Gregorio Marañón  
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E-mail: afbaza.externo@salud.madrid.org  
Tel.: 91 426 58 82





### INFORMATION AND COMMUNICATION TECHNOLOGIES UNIT

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

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

#### Objective

To offer specialized advice in the implementation of technological solutions.

Data representation: generation of dashboards and executive reports.

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

Microinformatics: advice on user's position.

Communications: video services.

#### Team

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

Senior Information Systems and Technology Technician with responsibilities in:

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

#### Competences and skills

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





## BIOBANK

### 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 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 Bioank offers the following services:

- Management, preparation, distribution, and follow-up of all the documentation necessary for depositing samples in HGM HIV Biobank and their subsequent reception, processing, registration, cryopreservation, and provision.
- Reception, processing, and cryopreservation of biological material from the various cohorts after signature of the corresponding deposit agreement.
- Ensuring the quality, traceability, and maximum viability of the biological material stored in HGM HIV Biobank.
- Recording of basic sample information.
- Adaptation of the HGM HIV Biobank database so that the coordinators of the different cohorts can register clinical and laboratory data of donors.
- Advice to the cohort coordinators on the use of the HGM HIV Biobank database.
- Consolidation of data associated with samples available in HGM HIV Biobank with the cohort coordinators and services that deposit biological material.
- Provision, for research purposes, of samples for projects, after approval by the corresponding committees.
- Creation and management of new sample collections for research projects and clinical trials and studies.
- Centralization and management of samples for the development of multicentre studies.



- Processing of samples for the development of research projects and clinical trials and studies.
- Advice on ethical and legal matters associated with the use of human samples for research.
- Advice on and analysis of economic sustainability
- Advice on design of and application for projects.
- Regulated teaching (processing techniques, biosafety, quality management quality control for biological samples), personalized training in technical and legal aspects of biobanks.
- Organization of events.
- Writing of scientific articles.
- The laboratory platform/HGM HIV Biobank also offers standardization of techniques between different groups or hospitals. Techniques such as ELISPOT and miRNA extraction are also offered for research projects and clinical studies and trials.

### Technology

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

- 3 laminar flow cabinets.
- 2 microscopes.
- 2 centrifuges
- 2 microcentrifuges.
- 1 incubator.
- 1 thermostatic bath.
- 1 thermocycler.
- 1 thermomixer.
- 5 pipette controllers.

- 28 micropipettes.
- 1 refrigerator (4 °).
- 1 freezer (-20 °C).
- 13 freezers (-80 °C).
- 9 nitrogen tanks.
- Telephonic alarms

### Facility

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

It covers 93 m<sup>2</sup> and has its own electricity supply and air conditioning system in order to meet the quality requirements necessary for the services offered.

### Contact

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#### Roxana Juárez Rodríguez

Coordinator, Head of Management and Quality, Head of Records

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HGM HIV Biobank

Hospital GU Gregorio Marañón.

Edificio Materno Infantil. Planta -1. Puerta-1 D04

Calle Dr. Esquerdo, 46. (28007) Madrid





## CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

### Mission

The Cardiology Translational Research Laboratory, the former Bioartificial Organs and Matrices 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, of which Prof. Fernández-Avilés is the Scientific Director.

### Description

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

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

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

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

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

### 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.
- 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 iPScells.
  - Differentiation of iPScells 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 m<sup>2</sup> 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 Scientific Microm HM525-U.
- Carousel-type automatic tissue processor: Thermo Scientific Microm STP120-2.
- Modular embedding center: Thermo Scientific Microm EC350.
- Histology bath: Termofin 3000459, Selecta.
- Microtome: Thermo Scientific 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<sub>2</sub> incubators: Nuaire, Nu-4850-E, and with control of CO<sub>2</sub> and O<sub>2</sub> Nuaire, Nu-4950-E.
- Biosafety II Cabinets: Nuaire, Nu-437-400-E.
- Safety cabinet: Safefast Elite.
- Ovens: 37°C (TherMark) and 22°C (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 (−80°C): 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.

#### **Staff**

##### **Prof. Francisco Fernández-Avilés Díaz.**

Scientific Director

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### 3D MEDICAL PRINTING UNIT

#### 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 Modelling.
- 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

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**José Antonio Calvo Haro**

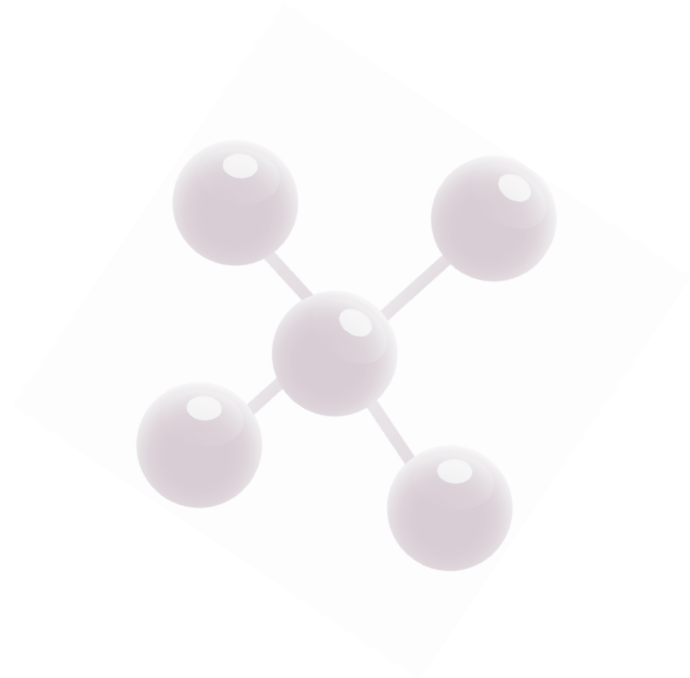
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### Web

[www.upam3d.com](http://www.upam3d.com)

### Contact

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Unit (UPAM3D)  
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[3dlab.hgugm@salud.madrid.org](mailto:3dlab.hgugm@salud.madrid.org)





## EXPERIMENTAL OPERATING ROOM

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.



Photography: Lidia Albadalejo Navarro



### 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 m<sup>2</sup> 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

#### Fernando Asensio

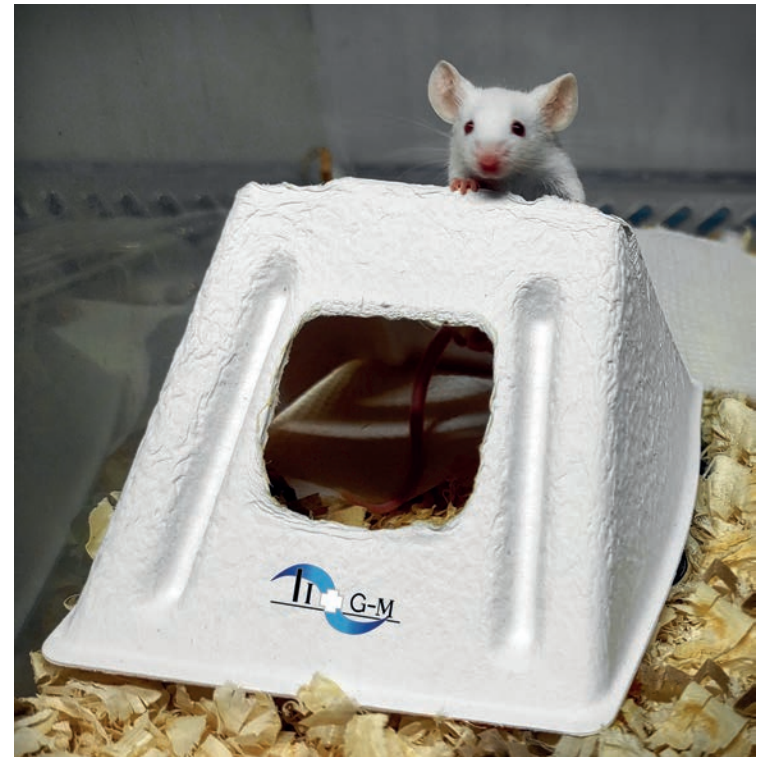
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Experimental Medicine and Surgery Unit

Hospital General Universitario Gregorio Marañón



Photography: Alba Ulises Zamora



## ANIMAL FACILITY

### Mision

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

### Description

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

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

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

### Services provided

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

### Facilities

The Animal Facility is located on the ground floor of the Experimental Medicine and Surgery Unit (MCE). It covers a 170 m<sup>2</sup> 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.
- **Karina Miera Arriba**, Graduate in Nursing
- **Librada Hernando Sainz**.
- **Alicia Relea**.

### Technicians

- **Francisco Sánchez Cobos**, Animal Experimentation Technician.
- **Alba Alises Zamora**, Animal Experimentation Technician.
- **Lidia Albadalejo Navarro**, Animal Experimentation Technician.

## Contact

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Photography: Marta García García





## EXPERIMENTAL SMALL-ANIMAL IMAGING LABORATORY

### Mission

The main objectives of the Small Experimental Animal Imaging Laboratory are to research on advanced biomedical imaging technologies and to provide imaging services to researchers from the hospital and from other centers.

The Laboratory 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, PT20/00044). It has recently obtained funds from the Instituto de Salud Carlos III (IFEQ21/00045 and IFEQ22/00108) for the renovation of the imaging equipment.

### Description

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

### Services provided

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

- Magnetic resonance: high-resolution “standard” anatomic imaging, spectroscopy (1-H, 31-P, 13-C), angiography (MRA), tissue perfusion, diffusion imaging (DWI, DTI), magnetization transfer, functional magnetic resonance imaging (fMRI), dynamic cardiac studies, cell tracking, etc.
- Nuclear imaging (PET and SPECT): cell metabolism studies based on glucose (18F-FDG) or palmitic acid (18F-FTHA), with applications in oncology, neurology, cardiology, and inflammatory and infectious diseases. In vivo follow-up of biomolecules (antibodies/peptides) and cells, etc.

- Computed tomography imaging: studies of bone and biomaterials, morphometric studies, pulmonary studies, etc.
- Molecular probes: synthesis of nanoparticles, optic and/or radioactive labeling of biomolecules (antibodies, peptides, microvesicles, etc.)
- In vivo optic imaging: candida bacteremia (genetically modified strains), tumor metabolism (genetically modified strains), cell tracking, etc.
- SPIM: 3D immunohistochemical studies of whole or semiwhole organs.
- Animal procedures: the technical team of the laboratory has wide experience 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 laboratory include consultancy on the optimal techniques for specific problems and postprocessing of data (including quantification, coregistration of modalities, statistical parametric mapping (SPM), etc.).
- Rates can be obtained from [www.iisgm.com](http://www.iisgm.com) (Research Support Services).

### Facilities

The laboratory covers some 500 m<sup>2</sup> 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 (upcoming installation)
- High-resolution CT (upcoming installation)
- Small animal magnetic resonance scanner (7 Tesla) (Bruker Biospec 70/20 USR)
- Sistema IVIS Lumina Serie III (PerkinElmer) 3D Single plane illumination microscopy (SPIM) with 5 lasers (405, 488, 532, 590, 649)







- X-ray irradiator for samples and small animals (Sedecal)
- Laboratory animal monitoring systems (temperature, respiration, heart rate, etc.): SA (models 1025 and 1030) compatible with the resonance system and RGB compatible with PET
- Radiopharmacy unit for in situ production of radiotracers.

### Contact

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Photography: Katia Ruth Baca Cornejo



## ADVANCED THERAPY MEDICINAL PRODUCTS (ATMPs)

### 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<sub>2</sub> 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 CO2 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 (37°C and 22°C).
  - Endosafe® nexgen-PTS™.

## Staff

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### **Alejandra Acosta Ocampo**

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## Documentation

Quality guarantee system, GMP formal guidelines with certification from the AEMPS. Last valid certificate no. ES/0371/21, last audit 23-25 November 2023.

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## FLOW CYTOMETRY AND CELL SORTER UNIT

### 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  $\mu\text{L}/\text{min}$
  - Custom Flow Rate Control mode from 10 to 240  $\mu\text{L}/\text{min}$  in 1  $\mu\text{L}$  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 MAQS-quant 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 (640 nm, 592 nm, 561 nm, 532 nm, 488 nm, 405 nm) and 7 pinholes. It currently has 2 lasers (488nm and 640nm).
  - Depending on the application, the acquisition speed can be up to 100,000 cel/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

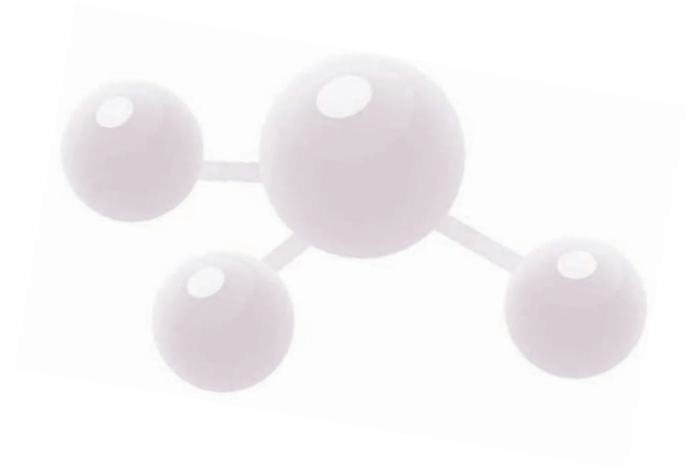
Laura Díaz Muñoz, Head of Unit and Head Technician.



CELL PLATFORM  
FLOW CYTOMETRY AND CELL SORTER UNIT**Contact****Laura Díaz Muñoz**

Head Technician

Tel: 91 4269258

E-mail: [laura.diaz@iisgm.com](mailto:laura.diaz@iisgm.com)*Experimental Medicine and Surgery Unit (prefabricated building). Floor***FLUORESCENCE MICROSCOPE model Eclipse 50i with Nikon CFI60 optical system.**





## CELL CULTURE UNIT

### Mission

The cell culture facility is a research support service aimed at providing scientific, technical, and instrumental support in activities related to cell culture to the center's research groups and other public and private institutions.

The development of in vitro cell cultures is an essential tool for the study of the molecular and cellular mechanisms that occur in any biological process.

Cell cultures consist of the growth and maintenance in vitro of cells from normal or tumour organs or tissues. For this, it's essential to preserve the metabolic functions that cells have in vivo using culture media of defined chemical composition and controlled conditions of temperature, pH, CO<sub>2</sub> concentration 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.

It's made up of the Cell Culture Laboratory (BSL-2), the Microbiology Laboratory (BSL-2) and the cryogenic facility.

The Cell Culture Unit has been certified since 2016 according to the guidelines of the Quality Management System (ISO 9001:2008) and since 2019 meets the requirements of the updating of the standard (ISO 9001:2015).

### Services provided

- Management of the 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 m<sup>2</sup> 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<sub>2</sub> Incubators with temperature control; Model 3100 Series, Forma Series II water jacket CO<sub>2</sub> Incubator, Thermo Scientific
- 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.
- 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: Digiator 21, Orthoaresa.
- 1 CO<sub>2</sub> Incubators with temperature control; INCO2 153, Memmert.

#### *Cryogenic plant*

- 1 “Taylor Wharton” Liquid Nitrogen Container LS 4800, Liquid Nitrogen Capacity: 130 liters
- 1 nitrogen extractor system (50 L)

#### **Staff**

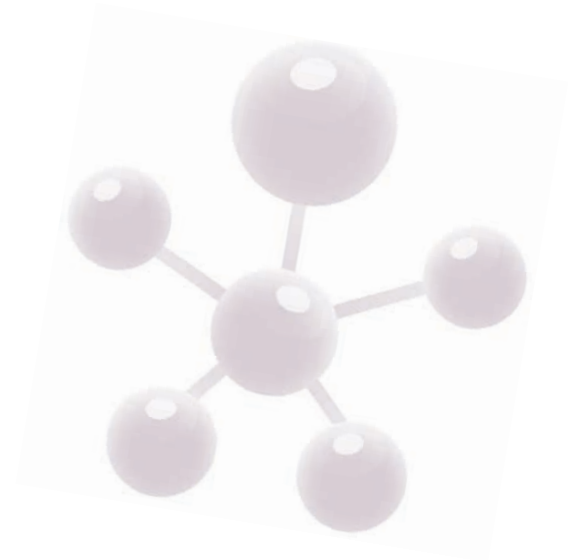
Responsible of cell culture facility: Maribel Clemente Mayoral, PhD

#### **Contact**

**Maribel Clemente Mayoral, PhD**

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## CONFOCAL MICROSCOPY

### Mission

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

### Description

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

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

The Confocal Microscopy Unit has its own financed lines of research focusing on the design and development of experimental approaches, image processing, and data analysis. In recent years, the unit has specialized in *in vivo* cell phenotyping using either paraffin or cryo-preserved tissue sections. This service is aimed at research groups from the Institute and from other institutions that request it. Thus, the unit has contributed in different ways to 76 research articles (8 of them as self-research) and over 80 Doctoral Thesis or Masters, in the last 10 years.

### Services provided

- Spectral confocal microscopy of samples: cells, tissues, and organs.
- Video microscopy (time-lapse) of live samples in a CO<sub>2</sub> –and temperature-controlled environment using a digital camera.

Rates can be obtained from [www.iisgm.com](http://www.iisgm.com) (Research Support Services).

## Technology

### 1. SPECTRAL CONFOCAL FLUORESCENCE-INVERTED MICROSCOPE (LEICA-SPE, INSTALLED IN 2015)

#### *Spectral confocal model*

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

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

#### *Inverted motorized microscope (DMi8)*

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

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

Four fluorescence filter blocks: DAPI, FITC, Rhodamine, and Cy5

Environmental monitoring (temperature and CO<sub>2</sub>) for experiments with cells and live tissue.

#### *Computer equipment*

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

### 2. DIGITAL CAMERA

sCMOS Orca Flash 4.0 LT coupled to the DMi8 microscope.



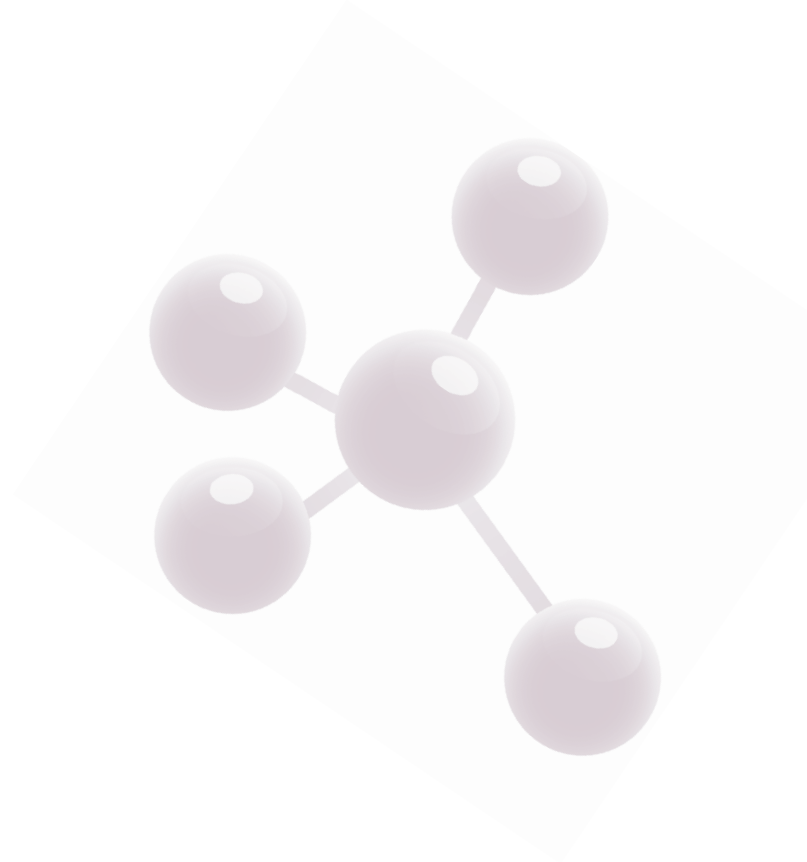


### Facility

The Confocal Microscopy Unit is located in the Experimental Medicine and Surgery Unit. It covers 19.2 m<sup>2</sup> and has its own electricity supply and air conditioning to fulfil the necessary quality requirements for the services provided.

### Contact

Head of Unit: **Rafa Samaniego**  
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Hospital General Universitario Gregorio Marañón  
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## PATHOLOGICAL ANATOMY

### 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 used Order Form IM-SPE-06OIM-SPE-07 of the IISGM.

The Order Sheet consists of 5 parts:

1. UPS Identification
2. Applicant Identification\*
3. Data of the required service and budget\*\*
4. Observations: Indicate if it is self-invoice or not\*\*\*
5. Signatures

### Contact

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Phone: 915868163

#### Mrs. Sagrario Pérez Cuenca and Mr. Juan Carlos Ruiz Tello

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\*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 Autofactoración 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.*





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Consultant in Anatomic Pathology

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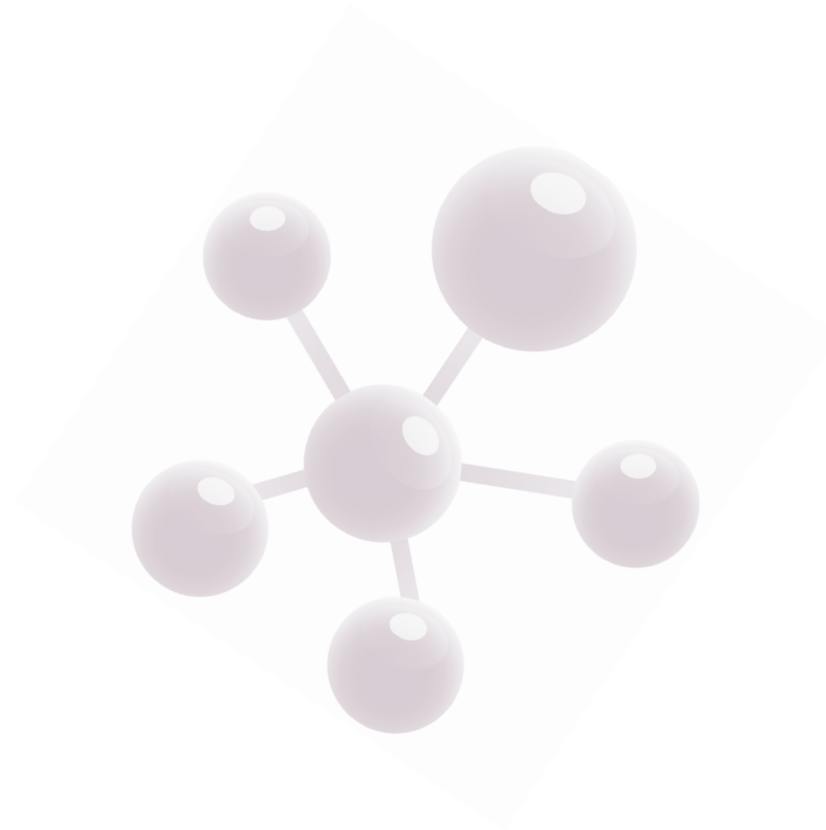
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**José Manuel Lara Martínez**

TEAP

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Phone: 91568163





## GENOMICS UNIT

### Mission

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

### Description

The Genomics Unit is a Research Support Unit (RSU) that performs sequencing of DNA from PCR products, measurement of fluorescence-labeled fragments, analysis of copy number variations, preparation of libraries, massive sequencing of gene panels, primer design, and design of gene panels for massive sequencing.

Similarly, it provides methodological support for sample preparation, depending on the application of interest, and personalized assessment in the preparation of projects.

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

### Services provided

#### *Sample quantification*

Fluorescence 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 single nucleotide 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 m<sup>2</sup> 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 analyser LabChip (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

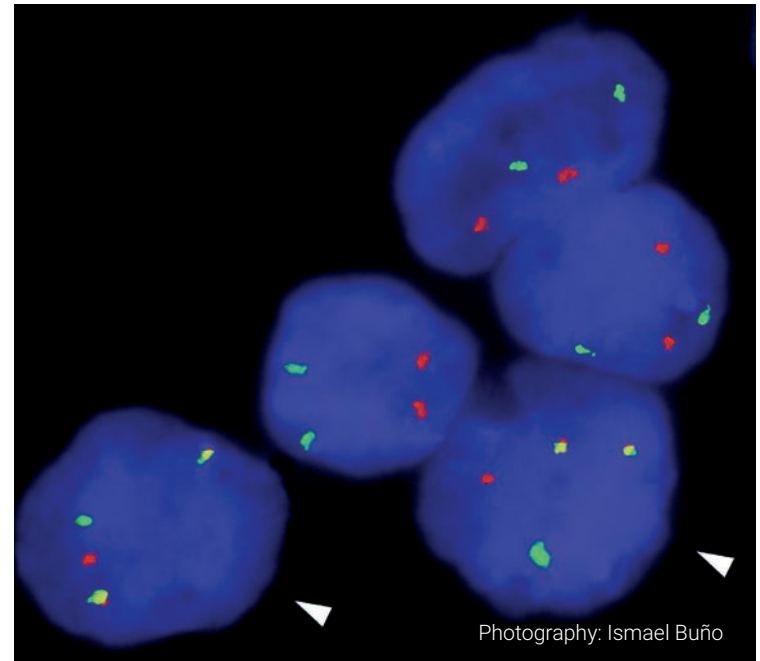
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Tf. 917996051



Photography: Ismael Buño



## PROTEOMICS UNIT

### Mission

The principal objective of the Proteomics Unit is to promote scientific research and technological development in the field 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).
- Preparative 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 Hernández Sánchez.** Graduate in Pharmacy, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid, and Technical Director, Proteomics Unit.
- **Lola Gutiérrez Blázquez.** Graduate in Biological Sciences, Universidad Complutense de Madrid, Master's in Biotechnology, Universidad Complutense de Madrid.

- **Felipe Clemente Velarde.** Doctor of Biochemistry, Universidad Autónoma de Madrid.
- **Inés Zapico.** Graduate in Chemical Sciences, Universidad de Oviedo.
- **Enrique Pérez.** Master of Bioinformatics, Universidad de Murcia.

### Unit documentation

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

### Contact

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Proteomics Unit

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## BIOINFORMATICS UNIT

### 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.

### *Nas01*

- 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.

### *Nas02*

- 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.

### *Workstation01*

- 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.

### *Workstation02*

- 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.

### Staff

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### Unit Documentation Guide

The Bioinformatics SAI centralizes its documentation and procedures in the wiki located at <http://wiki.bioinfo.lan>.

### Contact

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First floor. Office 17.

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## Innovation, knowledge transfer and translation to practice

### INNOVATION SUPPORT UNIT

#### Intellectual Property KPIs

liSGM activity in innovation during 2022 is summarized in the following:

- Copyright** (computer software, database, scientific publications, etc.):
  - 6 copyright applications filed in 2022
  - 7 copyright registered in 2022
  - Portfolio of 49 copyrights at 31st December 2022
- Patents (it includes utility models):**
  - 8 patents applications.
  - 6 patents granted.
  - Portfolio of 80 patents (50 granted and 30 applications) at 31st December 2022.
  - 47 patents licensed (29 granted y 18 applications) at 31st December 2022.

#### Technology Transfer KPIs

- Technology transfer agreements:**
  - 1 license agreements signed in 2022.
- Others research & innovation agreements (NDAs, collaboration agreement, etc.):**
  - 7 agreements.

#### Innovation projects KPIs

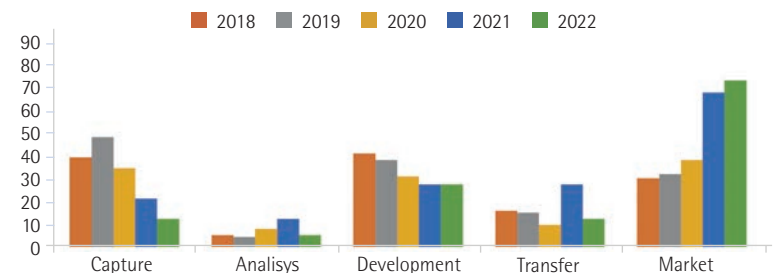
During 2022, 14 new innovation projects were supported in the unit. The UAI managed a portfolio of 147 innovation projects at 31st December 2022. The following figures show the distribution of projects classified by development phase over the last 5 years.

liSGM has received € 1.569.433,75 from **innovation funding** programmes.

#### Total Number of Projects



#### Phases of active projects



Other initiatives and achievements of the Unit during 2022:

- Re-accreditation of R&D&I management system according to UNE 166002:2021 standard.
- First day of healthcare entrepreneurship.
- Growth of the UAI with the incorporation of a new person.
- 8 training talks.
- 15 UAI presentations in clinical sessions.





## INNOVATION PORTFOLIO

Below, we show the project portfolio, or «innovation funnel». The UAI managed a portfolio of 147 innovation projects at 31st December 2022

	ICTs Health	Material and devices	Medicines and pharmaceutical products	Biotechnology and molecular diagnosis	Imaging	Care organization
Ideas proposed (not developed)	0	4	1	3	2	4
Ideas under assessment	2	0	1	1	0	2
Ideas under development	5	11	2	7	2	4
Ideas under transfer	20	11	5	7	13	26
Ideas in the market	3	2	1	4	4	0

\*ICT: information and communications technology.

Patent family (it included utility models) \*\* A patent family is “a set of patents taken in various countries to protect a single invention.

## INDUSTRIAL PROPERTY REGISTRARIONS

Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	Aparato de tomografía multimodal	P 2005 02612 7 patents	FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A.	Juan José Vaquero, Manuel Desco
1	Group 1.01 Advanced technological applications and human health	Ciclotrón clásico superconductor compacto	P 2013 30626	UC3M - CIEMAT	Luis García-Tabarés, Concepción Oliver, Fernando Toral, Daniel Gavela, Diego Obradors, Cristina Vázquez, Iván Podadera, Javier Munilla, Jesús Calero, José M. Pérez, Friederich Haug
1	Group 1.01 Advanced technological applications and human health	Equipo y método de generación de tomografías	P 2017 30341 (3 patents)	FIBHGM - UC3M	Manuel Desco, Mónica Abella
1	Group 1.01 Advanced technological applications and human health	Light Sheet Microscope and procedure for extended samples	P 2018 30912	UC3M	Jorge Ripoll Lorenzo
1	Group 1.01 Advanced technological applications and human health	Mobile 3D imaging system based on light sheet microscopy	P 2018 30913	UC3M	Jorge Ripoll Lorenzo
1 7	Group 1.01 Advanced technological applications and human health Group 7.16B. Pathophysiology of the cardiovascular system and circulatory support	Equipo y simulación para control de hemorragias	P 2017 30568	FIBHGM - Medical Simulator	Manuel Desco, Juan Francisco del Cañizo

Continued on next page





Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	Compuestos radiactivos basados en proteínas selectivas de bacteriemias para la detección no invasiva de focos infecciosos	P 202030838 (2 patents)	FIBHGM - UC3M	Beatriz Salinas, Manuel Desco, Patricia Muñoz, Emilio Bouza
4	Group 4.01 Clinical microbiology and infectious diseases	Tapón antirreflujo	EP22382591.0	FIBHGM - UC3M - Ownmed - FIISFJD	Manuel Desco, Ana Ye, Jesús García-Foncillas
1	1.01 Advanced technological applications and human health	Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P 2017 31161	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maiz, Francisco Jesús Fernández-Avilés Díaz
2	Group 2.01 Natural history of heart disease	Catéter y método para la detección de actividad eléctrica en un órgano	P 2014 31315	FIBHGM- Universidad Politécnica de Valencia- Universidad de Michigan	Andreu Martínez, Felipe Atienza, Miguel Rodrigo, M <sup>a</sup> Salud Guillem, Omer Berenfeld
2	Group 2.01 Natural history of heart disease	Dispositivo de localización de arritmias cardíacas	P 2014 31597 (3 patents)	FIBHGM- Universidad Politécnica de Valencia	Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, M <sup>a</sup> Salud Guillem
2	Group 2.01 Natural history of heart disease	Mapping and quantifying blood status and thrombus risk in the heart	US 62259494 (3 patents)	FIBHGM - University of California	Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez-Legazpi, Raquel Yotti

Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
3	Group 3.03B Neurological diseases	Control method for a neuroprosthetic device for the reduction of pathological tremors	EP20382416.4 (2 patents)	FIBHGM-CSIC-ICL	Francisco Grandas, José Luis Pons, Filipe André Oliveira, Alejandro Pascual Valdunciel, Darío Farina
4	Group 4.01 Clinical microbiology and infectious diseases	Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U 2014 30814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, M <sup>a</sup> Jesús Pérez
7	Group 7.16B. Pathophysiology of the cardiovascular system and circulatory support	Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune	P201830197 (7 patents)	FIBHGM	Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós
5	Group 5.02 Molecular biology of HIV	Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P 2015 00669	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, M <sup>a</sup> Ángeles Muñoz, José Luis Jiménez, Pilar García

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Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
5	Group 5.02 Molecular biology of HIV	Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos	P 2016 00726	Universidad de Alcalá de Henares -FIBHGM	M <sup>a</sup> 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	Group 5.02 Molecular biology of HIV	Dendrímeros carbosilanos catiónicos obtenidos mediante «click chemistry», su preparación y sus usos	P 2011 30804	FIBHGM- Universidad de Alcalá de Henares- Universidad de Navarra	Francisco Javier de la Mata, Rafael Gómez, Eduardo Arnaiz, Sandra García, José Luis Copa, Juan Soliveri, José Manuel Hernández, M <sup>a</sup> Ángeles Muñoz-Fernández, Verónica Briz, M <sup>a</sup> Jesús Serramia, Conchita Tros
5	Group 5.02 Molecular biology of HIV	Dendrímeros carbosilanos con un núcleo polifenólico y su uso como antivirales	P 20103 0450	Universidad de Alcalá de Henares- HGUGM	Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Paula Ortega, M <sup>a</sup> Ángeles Muñoz-Fernández, Louis Chonco, M <sup>a</sup> Jesús Serramia

Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
5	Group 5.02 Molecular biology of HIV	Dendrímeros carbosilanos y su uso como antivirales	P 20103 0233	Universidad de Alcalá de Henares - HGUGM	Francisco Javier de la Mata, Rafael Gómez, M <sup>a</sup> Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, Beatriz Rasines, Louis Chonco, Eduardo Arnaiz, M <sup>a</sup> Jesús Serramia
5	Group 5.02 Molecular biology of HIV	Compuestos dendríticos carbosilanos homo y heterofuncionalizados	P 2012 31187	Universidad de Alcalá de Henares - FIBHGM	Francisco Javier de la Mata, Rafael Gómez, M <sup>a</sup> Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, José Luis Jiménez, Silvia Fernández, Marta Galán, Raquel Lorente, Elena Fuentes, Javier Sánchez, Cornelia Peña, M <sup>a</sup> Jesús Serramia, Rosa Reguera
6	Group 6.02 Translational medical oncology and personalized cancer therapy	Cancer associated venous thromboembolic events	EP3631016	FIBHGM IIB Sant Pau	Andrés Muñoz, Eduardo Salas, José Manuel Soria
7	Group 7.01 Infamación y daño vascular en la enfermedad renal crónica, diálisis y trasplante renal. Fisiopatología renal	Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos	PCT/ES 2008 070137 (8 patents)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas

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Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
7	Group 7.01 Inflamación y daño vascular en la Enfermedad Renal Crónica, Diálisis y Trasplante Renal. Fisiopatología renal	Cilastatin for use in the treatment of sepsis	EP 16382299.2 (12 patents)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Blanca Humanes, M <sup>a</sup> Ángeles González-Nicolás
7	Group 7.02 Fisiopatología e historia natural de las enfermedades hepáticas y gastroenterológicas	Method for predicting response to beta blockers	EP 19382971.0	FIBHGM, IDIBAPS, CICBIOGUNE, FIBIoHRC, UAH, CIBERHED	Rafael Bañares, Jorge Gracia, Juan Manuel Falcón, Agustín Albillos
7	Group 7.04 Diseases of the critically ill child	Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua	P 2013 30340	FIBHGM - Universidad de Santiago de Compostela - SERGAS	Jesús López-Herce, Santiago Mencía, Antonio Rodríguez
7	Group 7.05B Physiological and therapeutic medical-surgical aspects of respiratory diseases	Dispositivo protector bucal con depresor lingual	P 2015 31508 (2 patents)	FIBHGM	Guillermo Juan Rodríguez, Javier Casanova
7	Group 7.06 Regenerative medicine in plastic surgery	Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos	P 2005 01182	FIBHGM	José María Lasso, Paola Nava

Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
7	7.07 Experimental kidney transplantation	Molde 3D Hemostático	EP22382407.9	FIBHGM	David Subirá
7	7.10 Regeneration and biomaterials in musculoskeletal disease 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
7	Group 7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Maqueta didáctica armable	U 2015 30218	FIBHGM	Juan Antonio León
	Obstetrics and Gynaecology Service	Simulador de sutura uterina	U 2012 30998	FIBHGM	Óscar Martínez, Ignacio Cueto, Blanca González
	Medical Oncology	In vitro method for predicting mortality in covid-19 patients	EP 20 383 140.9 (2 patents)	FIBHGM - IECSCYL-IBSAL - David J. Kelvin - SACYL - Univ Valladolid - CIBER - IDIBAPS - UBC - Hospital Clinic	Milagros González, José Manuel Gómez, Dariela Micheloud, Jesús Francisco Bermejo, Raquel Almansa, Ana S. Santos, Elena Bustamante, Luis Mariano Tamayo, César Aldecoa, Marta Domínguez, José María Eiros, David J. Kelvin, Ferrán Barbé, Antoni Torres
	Animal Facility	Conjunto de retención y anestesia para el acceso venoso de roedores	U202031736 2 patents	FIBHGM	Pedro Rolando Llontop

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Area	Group	Title	Reference of patent family* (Priority number)	Owner	Inventors
	Animal Facility	Conjunto de retención y anestesia para el acceso venoso de roedores	U202230047	FIBHGM	Pedro Rolando Llontop
	3D Medical Printing Unit	Dispositivo transportador de fenestraciones	U202200057	FIBHGM	Javier Río, Rubén Pérez, José Antonio Calvo, Diego Trapero
	Animal Facility	Espéculo con iluminación para la intubación endotraqueal de roedores	U202200366	FIBHGM	Pedro Llontop

 Transferred Industrial Property 31/12/2022.

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

## COPYRIGHT

Area	Group	Title	Reference	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	MANGOOSE	Nº Asiento Registral: 02/2010/4412	FIBHGM	Javier Pascau, Manuel Desco, Mónica Abellá, Alejandro Sisniega, Juan José Vaquero
1	Group 1.01 Advanced technological applications and human health	CUSQ: CARDIO US/Quantification	Nº Asiento Registral: 16/2010/303	FIBHGM - UPM	Manuel Desco, María Jesús Ledesma, Andrés de Santos
1	Group 1.01 Advanced technological applications and human health	FIRST (Fast Iterative Reconstruction Software for Tomography)	Nº Depósito Notarial: 3806	FIBHGM	José Manuel Udías, Joaquín López, Samuel España, Manuel Desco, Juan José Vaquero
1	Group 1.01 Advanced technological applications and human health	QuTIS (Quantification Tool for in vivo Spectroscopy)	Nº Depósito Notarial: 5095	FIBHGM	Manuel Desco, Juan José Vaquero
1	Group 1.01 Advanced technological applications and human health	MMWKS	Sin número registro	FIBHGM	Manuel Desco, Juan José Vaquero
1	Group 1.01 Advanced technological applications and human health	MRSITool - software para la cuantificación de estudios de imagen estroptoscópica	Sin número registro	FIBHGM	Manuel Desco
1	Group 1.01 Advanced technological applications and human health Group 1.03 Computer architecture, communications, and systems: ARCOS	RapTor	Nº Asiento Registral: 16/2017/7104	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero

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Area	Group	Title	Reference	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	XAP-LAB	Nº Asiento Registral: 16/2017/7106	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Álvaro Martínez, Alba García
1	Group 1.01 Advanced technological applications and human health	FUX-SIM	Nº Asiento Registral: 16/2017/7105	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero
1	Group 1.01 Advanced technological applications and human health	TomoX3D - Reconstrucción avanzada para sistemas de tomosíntesis	Nº Asiento Registral: 16/2021/8484	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
1	Group 1.01 Advanced technological applications and human health	STRAY - Plataforma de simulación para sistemas de radiología	Nº Asiento Registral: 16/2021/8485	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
1	Group 1.01 Advanced technological applications and human health	REXCT: Algoritmo rápido de reconstrucción de imagen tomográfica	Nº Asiento Registral: 16/2021/8486	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
1	1.01 Advanced technological applications and human health	CIBERSAMXnat: Plataforma de almacenado de datos de Neuroimagen en entorno Cloud	16/2021/5024	CIBER, FIBHGM	Manuel Desco, Susana Carmona, Daniel Martín de Blas, David García, Alberto Fernández
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	16/2022/1850	FIBHGM, UCM	Covadonga Martínez, Javier Martín, Celso Arango

Area	Group	Title	Reference	Owner	Inventors
4	Group 4.01 Clinical microbiology and infectious diseases	Estudio de impacto clínico de un plan docente de formación continuada sobre las infecciones asociadas a dispositivos intravasculares	Nº Asiento Registral: 16/2013/4798	FIBHGM	Emilio Bouza, María Guembe, Patricia Muñoz, Mª Jesús Pérez, Mª del Mar San Segundo
4	Group 4.01 Clinical microbiology and infectious diseases	Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
7	Group 7.27 Hospital pharmacy and pharmacogenomics				
4	Group 4.01 Clinical microbiology and infectious diseases	Material docente para la infección relacionada con el catéter	Nº Asiento Registral: 16/2014/6113	FIBHGM	María Guembe, Emilio Bouza, María Jesús Pérez
4	Group 4.01 Clinical microbiology and infectious diseases	Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables	Nº Asiento Registral: 16/2015/2094	FIBHGM	María Guembe, Pablo Martín-Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente
4	Group 4.01 Clinical microbiology and infectious diseases	Tolerancia cero a la bacteriemia relacionada con el catéter: optimización de la prevención con nuevos sistemas de vigilancia de las vías endovasculares	Nº Asiento Registral: 16/2015/2983	FIBHGM	María Guembe, Emilio Bouza, Mª Jesús Pérez Granda
4	Group 4.01 Clinical microbiology and infectious diseases	Documento de registro para vigilancia durante la inserción y el mantenimiento de los catéteres intravasculares	Nº Asiento Registral: 16/2015/2984	FIBHGM	María Guembe, Emilio Bouza, Mª Jesús Pérez Granda





Area	Group	Title	Reference	Owner	Inventors
4	Group 4.01 Clinical microbiology and infectious diseases	<b>Cultivo de conectores cerrados. Nueva alternativa de diagnóstico conservador de infección relacionada con el catéter</b>	Nº Asiento Registral: 16/2017/517	FIBHGM	Emilio Bouza, María Guembe, M <sup>º</sup> Jesús Pérez, Pablo Martín-Rabadán
4	Group 4.01 Clinical microbiology and infectious diseases	<b>Base de datos de perfiles de proteínas correspondientes a distintas especies de hongos filamentosos para mejorar su identificación mediante la técnica de espectrometría de masas MALDI-TOF</b>	Nº Asiento Registral: 16/2019/6180	FIBHGM	Belén Rodríguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz
4	Group 4.01 Clinical microbiology and infectious diseases	<b>Preparación de muestras de hongos filamentosos para identificación mediante MALDI-TOF. Vídeo con instrucciones</b>	Nº Asiento Registral: 16/2021/2779	FIBHGM	Belén Rodríguez, Estreya Zvezdanova, Patricia Muñoz
4	Group 4.01 Clinical microbiology and infectious diseases	<b>Cultivo intraluminal de tapones conectores de catéter. Nueva alternativa de diagnóstico conservador de colonización de catéter</b>	16/2022/6628	FIBHGM	María Guembe, M <sup>º</sup> Jesús Pérez, Emilio Bouza, Pablo Martín-Rabadán

Area	Group	Title	Reference	Owner	Inventors
5	Group 5.03 Systemic autoimmune diseases	<b>Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas</b>	Nº Asiento Registral: 16/2013/5179	FIBHGM	Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez
7	Group 7.27 Hospital pharmacy and pharmacogenomics				
5	Group 5.03 Systemic autoimmune diseases	<b>Taller práctico de Técnicas de Laboratorio de Inmunología e interpretación clínica para médicos</b>	Nº Asiento Registral: 16/2014/6111	FIBHGM	Larissa Valor, Luis Carreño, Diana Hernández
5	Group 5.03 Systemic autoimmune diseases	<b>Taller práctico de Técnicas de Laboratorio de Inmunofluorescencia indirecta (IFI «Live») para médicos</b>	Nº Asiento Registral: 16/2014/6112	FIBHGM	Larissa Valor, Fco. Javier López, Diana Hernández
5	Group 5.03 Systemic autoimmune diseases	<b>Infiltraciones guiadas por ecografía en reumatología</b>	Nº Asiento Registral: 16/2018/7393	FIBHGM	Juan Carlos Nieto González
6	Group 6.02 Translational medical oncology and personalized cancer therapy	<b>SMART, application for cancer genetic counseling</b>	Nº Asiento Registral: 16/2015/5724	FIBHGM, UNED, URJC	Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo
6	Group 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation	<b>Herramienta informática para la Gestión Electrónica de la Agenda de Transplante Hematopoyético «gesThRónica»</b>	Nº Asiento Registral: 16/2008/7735	FIBHGM	Pascual Balsalobre, Ismael Buño, José Luis Díez



Area	Group	Title	Reference	Owner	Inventors
6	Group 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation	<b>Panel alloGENOMICS v1.13 – Panel de genes y regiones de interés para su aplicación en el estudio de la influencia de los polimorfismos genéticos en el desarrollo de complicaciones post-trasplante alogénico de progenitores hematopoyéticos (alo-TPH)</b>	Nº Asiento Registral: 16/2014/7306	FIBHGM	Ismael Buño, Milagros González, José Luis Díez, Jorge Gayoso, Carolina Martínez, Elena Buces, David Serrano, Pascual Balsalobre, Mi Kwon
7	Group 7.04 Diseases of the critically ill child Group 7.27 Hospital pharmacy and pharmacogenomics	<b>Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos</b>	Nº Asiento Registral: 16/2011/7360	FIBHGM	Amelia Caridad Sánchez y Silvia Manrique Rodríguez
7	Group 7.27 Hospital pharmacy and pharmacogenomics	<b>Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)</b>	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
4	Group 4.01 Clinical microbiology and infectious diseases				
7	Group 7.27 Hospital pharmacy and pharmacogenomics	<b>Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal de enfermería de planta y evaluación de su competencia</b>	Nº Asiento Registral: 16/2015/503	FIBHGM	Elena Lobato, María Sanjurjo, Ana Herranz, Carmen Rodríguez

Area	Group	Title	Reference	Owner	Inventors
7	Group 7.27 Hospital pharmacy and pharmacogenomics	<b>E-OncoSalud: Programa de Telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico</b>	Nº Asiento Registral: 16/2016/987	FIBHGM	María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez
7	Group 7.27 Hospital pharmacy and pharmacogenomics Group 7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	<b>NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal</b>	Nº Asiento Registral: 16/2016/989	FIBHGM	Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, Mª Luisa Martín, Mª Ángeles Goicoechea, Eduardo Verde, José Luño
7	Group 7.27 Hospital pharmacy and pharmacogenomics	<b>Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes o/antiagregados</b>	Nº Asiento Registral: 16/2017/507	FIBHGM	Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez
7	Group 7.27 Hospital pharmacy and pharmacogenomics	<b>Control-Sugar24: calculadora para la insulínización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria</b>	Nº Asiento Registral: 16/2017/6705	FIBHGM	Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García



Area	Group	Title	Reference	Owner	Inventors
7	Group 7.27 Hospital pharmacy and pharmacogenomics Group 7.05B Physiological and therapeutic medical-surgical aspects of respiratory diseases	<b>PK-GUIDE:</b> Guía para monitorización clínica de fármacos	Nº Asiento Registral: 16/2017/6956	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán
7	Group 7.27 Hospital pharmacy and pharmacogenomics Group 7.05B Physiological and therapeutic medical-surgical aspects of respiratory diseases	<b>PK-RULES:</b> Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética	Nº Asiento Registral: 16/2017/6957	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán
7	7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Parto vaginal en 3d	Nº Asiento Registral: 16/2019/2823	FIBHGM	Juan Antonio de León
7	7.27 Hospital pharmacy and pharmacogenomics 7.10 Regeneration and biomaterials in musculoskeletal disease	<b>Calculadora AMBAS:</b> Calculadora para el manejo pre y postoperatorio del tratamiento antibiótico	16/2022/7149	FIBHGM	Almudena Ribed, Álvaro Giménez, Ana de Lorenzo, María Cristina Pascual, Francisco Chana, Ana María Herranz, María Sanjurjo
7	7.27 Hospital pharmacy and pharmacogenomics	<b>Rentaensayos:</b> Herramientas para analizar los costes evitados en medicamentos con los ensayos clínicos oncológicos	16/2022/2482	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

Area	Group	Title	Reference	Owner	Inventors
7	7.27 Hospital pharmacy and pharmacogenomics	<b>Manual de Atención farmacéutica al paciente oncohematológico</b>	Nº Asiento Registral: 16/2021/7894	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	<b>e-MIDCARE:</b> aplicación de la e-Salud en la comunicación y seguimiento de los pacientes diagnosticados de enfermedades inflamatorias inmunomediadas (IMID)	16/2022/660	FIBHGM	Vicente Damián Escudero, Rosa María Romero, Eshter Chamorro, María Aranzazu Ais, María Elena Lobato, Ana María Herranz, María Sanjurjo
7	7.27 Hospital pharmacy and pharmacogenomics	<b>Programa de Humanización 2020 - 2023 del Servicio de Farmacia del Hospital General Universitario Gregorio Marañón</b>	16/2022/7358	FIBHGM	María Sanjurjo, Ana Herranz, Camino Sarobe, Carmen Guadalupe Rodríguez, Belén Marzal, Eva González-Haba, Nuria García
7	7.31 Pathophysiology in women, pregnancy, labor, and puerperium	<b>Pelvitainer anatómico</b>	16/2022/3186	FIBHGM	Juan Antonio León, Coral Bravo
8	Group 8 Research in nursing & Pediatric Emergency Department & Press Department	<b>Nos vamos de excursión a las Urgencias del Gregorio Marañón</b>	Nº Asiento Registral: 16/2016/3799	FIBHGM	Laura Cervantes, Paula Vázquez, David García







Area	Group	Title	Reference	Owner	Inventors
8	Group 8 Research in nursing	App para la gestión eficiente del gasto sanitario	Nº Asiento Registral: 16/2021 /1641	FIBHGM	Mª del Pilar Álvaro, Mª de las Nieves Moro
	IISGM Technical Unit	GESTEO	Nº Asiento Registral: 16/2014/3806	FIBHGM	Rafal Bañares, Mª Carmen Olmedo, José Mª Bellón, Miriam Arriaga, Luis Fernández, Mª Isabel Ballesteros, Maite Fontans, Xoan Barreiro, Alejandro López
	Innovation Support Unit IISGM Technical Unit	Herramienta de Gestión y Cuadro de Mando de Innovación	Nº Asiento Registral: 16/2015/3255	FIBHGM	Anna Riera, Manuel Desco, Eva Carravilla, Eva Talve, Marco Rivas, Isabel Ballesteros, Thierry Bardinet, Rafael Bañares, Carmen Olmedo
	Pediatric Emergency Department	Sistema de triage del paciente pediátrico en Urgencias-Gregorio Marañón (TRIPED-GM)	Nº Asiento Registral: 16/2015/5530	FIBHGM	María Concepción Míguez Gloria Margarita Guerrero, María del Carmen Ignacio Cerro

 Transferred Industrial Property 31/12/2022.





## Interventional and non interventional clinical studies

During the year **2022**, a total of **1135** clinical trials were active in our hospital. A total of 211 studies were implemented.

Approximately 97 % of the clinical trials with medicines started during 2022 were Phase I, II, and III studies. There has been an increase in Phase I trials compared to 2021.

As for the distribution by research areas, almost **47 %** of the clinical trials were led by the Translational Oncology Area (Area 6).

ACTIVE CLINICAL TRIALS	
2018	1190
2019	1115
2020	1038
2021	1145
<b>2022</b>	<b>1135</b>

NEW CLINICAL STUDIES			
	Clinical Trials	Observational studies	Total
2018	136	74	210
2019	140	68	208
2020	162	81	251
2021	176	47	223
<b>2022</b>	<b>151</b>	<b>60</b>	<b>211</b>

DISTRIBUTION OF CLINICAL TRIALS SIGNED BY PHASE (%)					
	2018	2019	2020	2021	2022
Phase I	11.7	7.28	5.29	20.7	<b>25.1</b>
Phase II	34.5	37.1	40	33.9	<b>29.8</b>
Phase III	48	43.7	45.88	42.55	<b>42.43</b>
Phase IV	3.6	4.6	4.11	2.3	<b>2.65</b>
Others (Medical device, etc)	2.2	7.29	4.70	0.57	<b>0</b>

DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2022  
(National/International)

	Nº	%
National	69	32,7
International	142	67,30

DISTRIBUTION OF CLINICAL STUDIES SIGNED IN 2022  
BY RESEARCH AREA OF IISGM

	Nº	%
Area 1	0	0
Area 2	10	4,7
Area 3	10	4,7
Area 4	7	3,2
Area 5	16	7,5
Area 6	99	46,5
Area 7	53	24,9
Nursing group	0	0
Associated clinicians	16	7,5



## Funding of liSGM

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 liSGM groups to generate income.

The total income generated by liSGM researchers own activity in 2022 came to 18.684.150 €. To these revenues we must add, for the 5th year in a row, the nominative subsidy of 756.020 € granted to this foundation by the Consejería of Health of the Community of Madrid, which would raise total revenues of the Foundation to **19.440.170 €**.

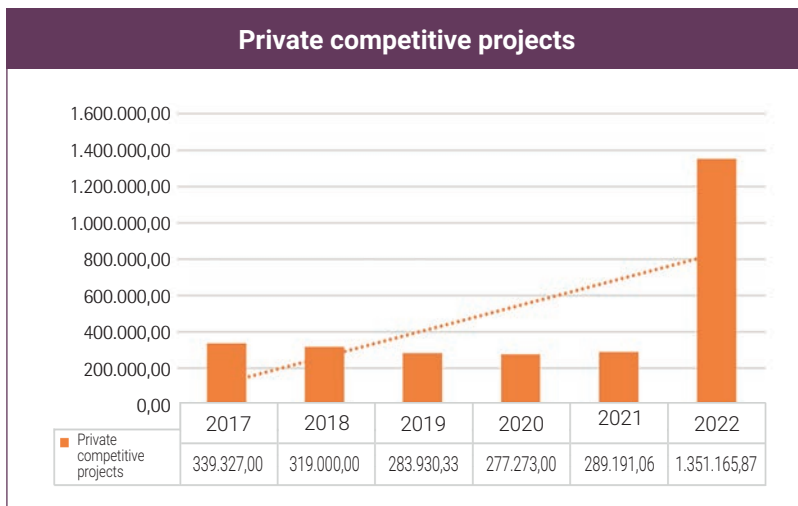
	2017	2018	2019	2020	2021	2022
Total income generated by researchers	14,431,258 €	15,503,687 €	16,476,182 €	19,183,609 €	17,699,418 €	18,684,150 €
Nominative subsidy Madrid Community	-	612,220 €	622,220 €	622,220 € + 850,000 €	622,220 €	756.020€

The revenues generated by researchers in 2022 is 5,6% higher than in 2021. The increase in International competitive projects, both from Europe and the North America (NIH), and from private competitive projects have compensated the reduction in revenues from national competitive projects.

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

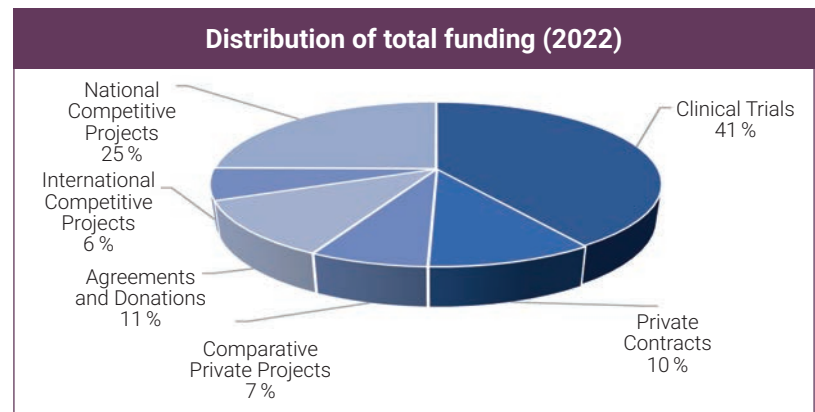
## EVOLUTION OF INCOME GENERATED BY RESEARCHERS BY CATEGORY





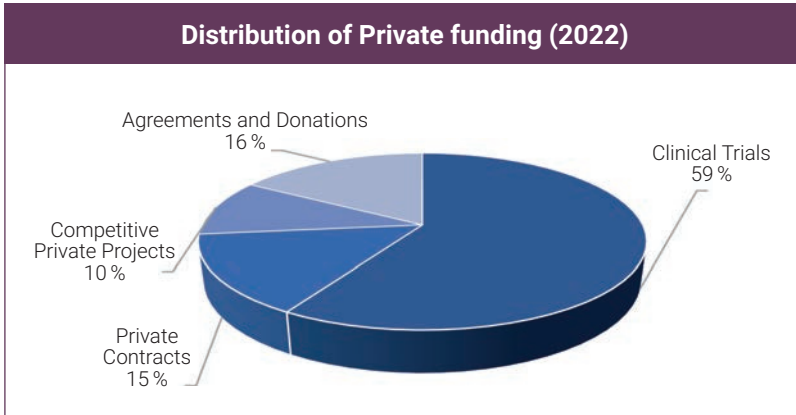
### DISTRIBUTION OF INCOME GENERATED BY RESEARCHERS

As far as the distribution of income is concerned, in 2022, 38 % of the total income generated by the researchers of the IISGM came from competitive sources, and 41 % from Clinical Trials.





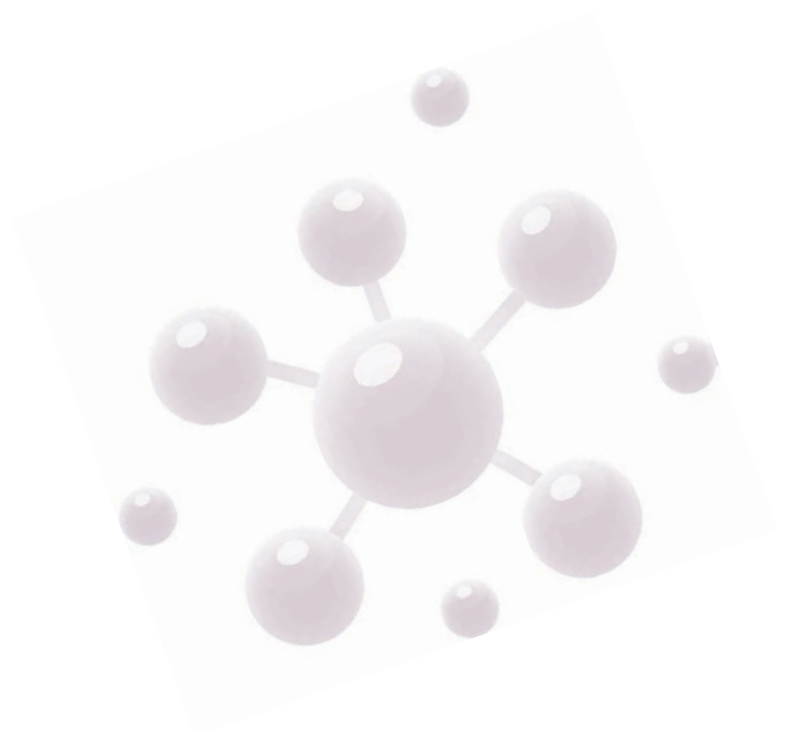
### Distribution of Private funding (2022)



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

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

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





## List of active competitive projects in 2022 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				
European	2	4		
National	9	10	6	
Regional	2	1	6	9

- 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: European Commission (Framework Program)  
Start date: 01/10/2020  
End date: 30/09/2025
- 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: European Commission (Framework Program)  
Start date: 01/07/2022  
End date: 30/06/2026
- Title: **Monitorización de tratamiento y respuesta a infecciones es-tafilocócicas mediante imagen inmunoPET empleando trazadores específicos.** PI20/01632  
Director: Salinas Rodríguez, Beatriz

Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023

- Title: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardiaco** PI18/00462  
Director: Gómez Gavero, María Victoria  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/03/2022







- Title: **Imagen molecular de la infección por clostridium difficile.** FRA20/02  
Director: Salinas Rodríguez, Beatriz  
Project type: Research project  
Funding body: Fundación Ramón Areces  
Start date: 12/05/2021  
End date: 12/05/2024
- Title: **Dynamics of the neural, hormonal and neuropsychological signatures underlying the adaptations for motherhood during pregnancy.** LCF/PR/HR19/52160001  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: "La Caixa" Banking Foundation  
Start date: 15/09/2019  
End date: 15/09/2023
- Title: **Nuevas herramientas nanotecnológicas en el tratamiento de patología neuroinflamatoria y su interacción con el eje intestino-cerebro (ExoCUR).** PID2021-1288620B-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: **Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica.** Y2018/NMT-4949  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Consejería de Educación d Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anthi-Stapgyloccal antibodies and Immune-PET.** FBBVA18/01  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Fundación BBVA  
Start date: 30/04/2019  
End date: 29/04/2022
- Title: **Red Madrileña de Nanomedicina en Imagen Molecular.** S2017/BMD-3867  
Director: Desco Menéndez, Manuel  
Project type: Research network  
Funding body: Consejería Educación de la Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Sara Borrell.** CD19/00136  
Director: Salinas Rodríguez, Beatriz (Santos Coquillat, Ana María)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2022
- Title: **Predoctoral contract** FI18/00255  
Director: Carmona Cañabate, Susana (Martínez García, Magdalena)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/05/2023
- Title: **Movilidad profesionales sanitarios e investigadores del SNS 2021.** BA21/00030  
Director: Soto Montenegro, María Luisa  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 16/05/2022  
End date: 15/07/2022
- Title: **Miguel Servet II 2021.** CPII21/00016  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/06/2022  
End date: 31/05/2025





- Title: **Movilidad personal investigador contratado en el marco de la AES (M-AES).** MV20/00004  
Director: Salinas Rodríguez, Beatriz (Santos Coquillat, Ana María)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/09/2021  
End date: 03/03/2022
  - Title: **Miguel Servet I 2016.** MS16/00096  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/05/2022
  - Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2019-PRE/BMD-16977  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 01/01/2020  
End date: 19/02/2022
  - Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2019-PRE/TIC-17061  
Director: Desco Menéndez, Manuel  
Project type: Human Resources  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 01/02/2020  
End date: 31/01/2022
  - Title: **Research Assistant.** PEJ-2020-AI/BMD-17680  
Director: Soto Montenegro, María Luisa (Lobo Vega, Rebeca)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2022
  - Title: **Laboratory technician.** PEJ-2020-TL/BMD-19331  
Director: Desco Menéndez, Manuel (Felipe Maestre, María de la Jara)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2022
  - Title: **Laboratory technician.** PEJ-2020-TL/BMD-19418  
Director: Gómez Gaviro, María Victoria (Fernández-Cortés Navia, Elena)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2023
  - Title: **Research Assistant.** PEJ-2021-AI/BMD-23350  
Director: Desco Menéndez, Manuel (Abella Larraz, Jaime)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/11/2022  
End date: 31/10/2024
- Not managed by the FIBHGM**
- Title: **Artificial intelligence for image data analysis in the life sciences.** GA - 101057970  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: European Commission  
Start date: 01/09/2022  
End date: 3/08/2025
  - Title: **Cust-MeDD - Custom Medical Device Development. 2020-2023. CONEX-PLUS.** 2019/0097 (H2020-MSCA-COFUND-2017-UE)  
Director: Pascau González-Garzón, Javier/Gómez Álvarez, Alba  
Project type: Research project





Funding body: European Commission  
Start date: 23/11/2020  
End date: 23/11/2023

- Title: **European Regimen Accelerator for Tuberculosis.** GA-853989  
Director: Vaquero López, Juan José  
Project type: Research project  
Funding body: European Commission  
Start date: 01/01/2020  
End date: 31/12/2025
- Title: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level.** GA-801347  
Director: RIPOLL, JORGE  
Project type: Research project  
Funding body: European Commission  
Start date: 01/11/2018  
End date: 31/10/2022
- 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 e Innovación  
Start date: 01/09/2022  
End date: 31/08/2025
- 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: : Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2022  
End date: 30/11/2024
- Title: **Development of a dynamic, functional and personalized 3D melanoma model-on-a-CHIP.** PID2021-126523OB-I00.  
Director: Velasco Bayón, Diego/Gago, Nuria

Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/01/2022  
End date: 31/08/2025

- Title: **Nuevo sistema radiológico multifunción de baja dosis (MULTIRAD).** PDC2021-121656-I00.  
Director: Abella García, Mónica  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2023
- Title: **IN-DEPTH-INTelligent modular DEtector for PET.** PDC2021-121788-I00].  
Director: Vaquero López, Juan José  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2023
- Title: **Clustering Automático de Comportamientos de invertebrados en libertad mediante imagen 3D.** PID2020-115088RB-I00.  
Director: Ripoll Lorenzo, Jorge/Moscoso Castro, Miguel  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/09/2021  
End date: 31/08/2025
- Title: **Plataforma de imagen multi-escala para acelerar el desarrollo de fármacos contra infecciones pulmonares.** PID2019-109820RB-I00.  
Director: Muñoz Barrutia, Arrate/Vaquero López, Juan José  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/06/2020  
End date: 31/05/2023
- Title: **Hormesis inducida por radiación en oncología (RADHOR).** PID2019-110369RB-I00.  
Director: Desco Menéndez, Manuel/Cussó Mula, Lorena





Project type: Research project

Funding body: AEI. Ministerio de Ciencia e Innovación

Start date: 01/06/2020

End date: 31/05/2023

- Title: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales.** RTC-2017- 6600-1  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Reconstrucción tomográfica para sistemas de rayos X de baja dosis mediante aprendizaje automático y dispositivos gráficos.** DEEPT-CM-UC3M  
Director: Abella García, Mónica  
Project type: Research project  
Funding body: Comunidad de Madrid/UC3M  
Start date: 01/01/2020  
End date: 31/03/2022
- Title: **Personalized Planning in Radio Therapy Through Integrative Modeling of Local Dose Effect and New Dosimetric Constraints.**  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: AECC (Asociación Española Contra el Cáncer) Junta de Madrid  
Start date: 01/12/2020  
End date: 30/11/2023
- Title: **Ayudas para contratos predoctorales para la formación de doctores (AEI).** PRE2020-095268  
Director: Desco Menéndez, Manuel/Cussó Mula, Lorena (Barco Tejada, Ainara)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/08/2021  
End date: 31/07/2025

- Title: **Ayudas para personal técnico de apoyo (AEI).** PTA2020-019246-I  
Director: Desco Menéndez, Manuel (Fernández Pena, Alberto)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2024
- Title: **Ayudas para estancias de movilidad en el extranjero "Madariaga" para profesores senior.** PRX21/00435  
Director: Pascau González-Garzón, Javier  
Project type: Human Resources  
Funding body: Ministerio de Universidades  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Ayuda para contratación de Técnico de Laboratorio (Programa de Empleo Juvenil).** PEJ-2021-TL/BMD-23097  
Director: Velasco Bayón, Diego (Martín Martín-Doimeadios, Miguel)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/11/2022  
End date: 31/10/2024
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Desco Menéndez, Manuel (Marcos Vidal, Luis)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/11/2018  
End date: 31/10/2022
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Sakaltras, Nikolaos)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 03/09/2018  
End date: 02/09/2022





- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Desco Menéndez, Manuel (Sanderson Moreno, Daniel)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 05/09/2022  
End date: 04/09/2026
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Fernández del Cerro, Carlos)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/09/2022  
End date: 31/08/2026
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Piol, Alessandro)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/02/2019  
End date: 30/06/2023

#### GROUP 1.02: Signal processing

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International		1		
European				1
National		4		
Regional		4		7

#### Not managed by the FIBHGM

- Title: **Space-time sequential schemes and Bayesian inference methods for continuous-time stochastic systems** N00014-22-1-2647  
Director: Míguez Arenas, Joaquín

Project type: International research project  
Funding body: Office of Naval Research (ONR)  
Start date: 01/10/2022  
End date: 30/09/2025

- Title: **Modelos profundos y explicables basados en variables latentes para salud mental** PID2021-123182OB-I00  
Director: Martínez Olmos, Pablo/Ramírez, David  
Project type: Research project  
Funding body: Agencia Estatal de Investigación  
Start date: 01/09/2022  
End date: 31/08/2025
- Title: **Cuantificación de Incertidumbre en Modelos Físicos Estocásticos: Filtros Profundos y Metodos de Monte Carlo Espacio-Temporales** PID2021-125159NB-I00  
Director: Míguez Arenas, Joaquín/Vázquez, Manuel A.  
Project type: Research project  
Funding body: Agencia Estatal de Investigación  
Start date: 01/09/2022  
End date: 31/08/2025
- Title: **Expansiones asintóticas generalizadas y refinadas para teoría de la información en longitud finita: Comunicaciones inalámbricas y comunicaciones por canales clásico-cuánticos** PID2020-116683GB-C21  
Director:  
Project type: Research project  
Funding body: Agencia Estatal de Investigación  
Start date: 01/09/2021  
End date: 31/08/2025
- Title: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-100  
Director: Artés Rodríguez, Antonio/Míguez Arenas, Joaquín  
Project type: Research project  
Funding body: Ministerio de Ciencia, Innovación y Universidades  
Start date: 01/10/2019  
End date: 30/09/2022





- Title: **Investigación fundamental en teoría de la señal, aprendizaje máquina y tecnologías de telecomunicaciones** EPUC3M  
Director: Ramírez García, David  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad De Madrid  
Start date: 01/01/2020  
End date: 31/12/2022
- Title: **Sistema de atención domiciliaria inteligente e interactivo para la mitigación de la pandemia del COVID-19** IntCARE-CM  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad De Madrid  
Start date: 01/02/2020  
End date: 31/12/2022
- Title: **Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad De Madrid  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Sistema de monitorización de estado para detección de fisuras en ejes ferroviarios (SMEPDFEF-CM-UC3M)** PIUC3M2021\_09  
Director: Martínez Olmos, Pablo/Gómez García, María Jesús  
Project type: Research project  
Funding body: UC3M  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **Marie Skłodowska-Curie Innovative Training Networks**. GA N°813533  
Director: Artés Rodríguez, Antonio (Sukei, Emese)  
Project type: Human Resources  
Funding body: European Commission  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Detection of behavioral changes and its application in psychiatry**. IND2018/TIC-9574  
Director: Ramírez García, David (Carretero Villajos, Patricia)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 04/02/2019  
End date: 03/02/2022
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models**. IND2018/TIC-9649  
Director: Martínez Olmos, Pablo (Romero Medran, Lorena)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 25/02/2019  
End date: 24/02/2022
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models**. IND2020/TIC-17372  
Director: Martínez Olmos, Pablo (Armario, Arturo)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 16/02/2021  
End date: 23/01/2022
- Title: **Ayudas para la realización de contratos para técnicos de Laboratorio**. AI/TIC-17888  
Director: Artés Rodríguez, Antonio (Peinado, José)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/03/2021
- Title: **Programa Atracción del Talento Investigador CM (2020)**. 2020-T1/TIC-20698  
Director: Peleato, Borja  
Project type: Human Resources







Funding body: Comunidad Autónoma de Madrid

Start date: 27/12/2021

- Title: **Industrial Doctorates**. IND2020/TIC-17539  
Director: Míguez Arenas, Joaquín (Cano, Alejandro)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Industrial Doctorates**. IND2022/TIC-23550  
Director: Martínez Olmos, Pablo (Jiménez Rama, Óscar Manuel)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 18/11/2022  
End date: 17/11/2025

#### 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	–	–	–	–
Regional	–	–	–	–

### 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	5			
National	13		2	
Regional	2			

- Title: **Regenerative medicine: from new insights to new applications. 874827**. H2020 BRAV3.  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/01/2020  
End date: 31/12/2024
- Title: **SAVE-COR Stratification of Atrial and Ventricular Arrhythmias based on Electrocardiographic Imaging**. 220385 SAVE-COR.  
Director: Aienza Fernández, Felipe  
Project type: European research project  
Funding body: Unión Europea. Eit Health E.V  
Start date: 01/06/2022  
End date: 31/12/2022



- Title: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017.  
Director: Bermejo Thomas, Javier  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/03/2019  
End date: 28/02/2024
- Title: **Clinical development and proof of principle testing of new regenerative VEGF-D therapy for cost-effective treatment of refractory angina “A phase II randomized, double-blinded, placebo-controlled study”** H2020 ReGenHeart.  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/01/2017  
End date: 31/12/2022
- Title: **Secondary Prevention of Cardiovascular Disease in the Elderly Trial (Secure)**. H2020 SECURE  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea. DG. Sanco  
Start date: 06/10/2017  
End date: 06/10/2022
- 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: **Advanced multifunction 3D biofabrication for the generation of computationally modelled human-scale therapeutic cardiac tissues – CARDIOPRINT** PLEC2021-008127  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Ministerio de Ciencia, Innovación y Universidades  
Start date: 01/12/2021  
End date: 30/11/2024
- Title: **Safety and Efficacy of the Intracoronary administration of Allogeneic human Cardiac Stem Cells in Patients with Ischemic Chronic Heart Failure at High Risk for Sudden Cardiac Death (CaSeC-HF)** PIC18/00024  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2023
- 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: 31/12/2024
- 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: 31/12/2024
- Title: **Inteligencia artificial para la caracterización hemodinámica no invasiva. AI4NHEM**. PI20/00587  
Director: Martínez-Legazpi Aguilo, Pablo  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Caracterización del sustrato electrofisiológico en pacientes con fibrilación auricular persistente y paroxística. Estudio PAPER AF**. PI20/01618



Director: Atienza Fernández, Felipe

Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2021

End date: 31/12/2023

- Title: **Plataforma integrada para la interpretación de señales de FA en tiempo-real.** DTS21/00064  
Director: Arenal Maíz, Ángel  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **Personalización del riesgo de accidente cerebrovascular y de infarto cerebral silencioso en la enfermedad cardiovascular. ISBI-FLOW.** DTS19/00063  
Director: Bermejo Thomas, Javier  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2022
- Title: **Ablación radial para control de la Fibrilación auricular persistente (Artist Trial)** PI18/01895  
Director: Arenal Maíz, Ángel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardiaca con fracción de eyección preservada del paciente diabético** PI18/01595  
Director: Bermejo Thomas, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023

- Title: **Reparación cardíaca inducida por vesículas extracelulares cardíacas integradas en hidrogeles de matriz mioárdica descellularizada en un modelo de infarto porcino crónico.** PI19/00161  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Caracterización de la fisiología cardiovascular con el Ejercicio en pacientes adultos con circulación de Fontan.** PI19/01604  
Director: Prieto Arevalo, Raquel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **ITACA-CM. "Investigación Traslacional en arritmias cardíacas hereditarias"** S2017/BMD-3738  
Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Predoctoral contract.** BES-2017-079924  
Director: Chazo Paz, Christian  
Funding body: Ministerio de Economía y Hacienda





Project type: Human resources

Start date: 01/07/2018

End date: 31/10/2022

- Title: **Río Hortega contract.** CM20/00054  
Director: Tamargo Delpón, María Amalia  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 04/01/2021  
End date: 04/01/2022

### GROUP 2.02: Cardiovascular pathophysiology

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National		1		1
Regional				5

#### Not managed by the FIBHGM

- Title: **Impacto del trasplante mitocondrial en la enfermedad cardiovascular asociada a MI y obesidad. Relevancia de la interacción entre la mitocondria, el retículo endoplásmico y el flujo de autofagia.** PI21/00431  
Director: Martínez, Ernesto/Cachofeiro Ramos, Victoria  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Predoxal contract.** FI19/00277  
Director: Cachofeiro Ramos, Victoria (Beatriz Delgado Valero)  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/12/2023

- Title: **Becas predoctorales UCM**  
Director: Cachofeiro Ramos, Victoria (Francisco ds Chagas Vasconcelos Neto)  
Project type: Human Resources  
Funding body: UCM  
Start date: 01/06/2019  
End date: 31/05/2022
- Title: **Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2020"**  
Director: Cachofeiro Ramos, Victoria (Alexandra Castro Soplín)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/04/2021  
End date: 30/03/2023
- Title: **Research Assistant. Garantía Juvenil 2021.** CT41/22/PEJ-2021-AI/BMD-21898  
Director: Martínez Martínez, Ernesto (Cuesta Garrido, María)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/12/2022  
End date: 30/11/2024
- Title: **Research Assistant. Garantía Juvenil 2021.** CT41/22/PEJ-2021-AI/BMD-22002  
Director: Cachofeiro Ramos, Victoria (Montoro Garrido, Alejandro)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/12/2022  
End date: 30/11/2024
- Title: **Becas UCM 22.** CT58/21-CT59/21  
Director: Cachofeiro Ramos, Victoria (Jiménez González, Sara)  
Project type: Human Resources  
Funding body: UCM Santander  
Start date: 01/12/2022  
End date: 30/11/2026



### GROUP 2.03: Cardiac cellular electrophysiology

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National		2		2
Regional		1		

#### Not managed by the FIBHGM

- Title: **Determinantes moleculares del aumento de canales de sodio y potasio producido por el dominio N-terminal del canal de Nav1.5.**  
PID2020-118694RB-I00  
Director: Caballero, Ricardo/Delpón, Eva  
Funding body: MICINN  
Project type: Research project  
Start date: 01/09/2021  
End date: 30/09/2023
- Title: **Investigación Traslacional en Arritmias Cardiacas hereditarias. ITACA-CM B017/BMD3738**  
Director: Delpón, Eva  
Project type: Research project  
Funding body: Comunidad de Madrid. Programa de Biomedicina  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Elucidation of cardiac electrophysiological alterations in propionic acidemia: Towards the identification of targets for therapeutics.**  
SAF2017-88116-P  
Director: Delpón, Eva/Caballero, Ricardo  
Funding body: Propionic Acidemia Foundation (PAF)  
Project type: Research project  
Start date: 01/05/2022

#### Not managed by the FIBHGM

- Title: **Ayudas para contratos predoctorales para la formación de doctores.** PRE2018-086155  
Director: Delpón Mosquera, Eva/Caballero Collado, Ricardo (Cámara Checa, Anabel)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/08/2019
- Title: **Ayudas para contratos predoctorales para la formación de doctores.** PRE2021-098033  
Director: Delpón Mosquera, Eva/Caballero Collado, Ricardo (Rapún Jiménez, Josu)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/01/2022

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

### GROUP 2.06: Blood lipids and cardiovascular risk

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–



### GROUP 2.07: Acute cerebral ischemia. Stroke

	N° Competitive projects		N° 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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	5			
National	19		22	
Regional	1		2	

- Title: **H2020 Autism Innovative Medicine Studies – 2 – Trials.** H2020 AIMS-2-TRIALS  
Director: Arango López, Celso/Parellada Redondo, M<sup>a</sup> José  
Funding body: European Union  
Type of project: H2020 European research project  
Start date: 01/05/2018  
End date: 31/05/2025
- Title: **Conect4children (Collaborative Network for European Clinical Trials for Children).** H2020 c4c-777389  
Director: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of project: H2020 European research project

Start date: 01/05/2019

End date: 30/04/2024

- Title: **FAMILY: Running in the FAMILY - Understanding and predicting the intergenerational transmission of mental illness.** HE FAMILY 101057529  
Director: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of project: European research project  
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: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of project: European research project  
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  
Funding body: European Union  
Type of project: European research project  
Start date: 01/06/2022  
End date: 31/05/2027
- 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, M<sup>a</sup> José  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2022  
End date: 31/12/2025



- Title: **Identificando los correlatos de neuroimagen de la función ejecutiva a lo largo del continuum de la psicosis: Un estudio en adolescentes y adultos jóvenes.** PI21/00701  
 Director: Rapado Castro, Marta  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Interacción Gen x ambiente en hijos de pacientes con esquizofrenia o trastorno bipolar.** PI21/01694  
 Director: Moreno Pardillo, M<sup>a</sup> Dolores  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Bases etiopatológicas de la disregulación emocional en adolescentes con depresión (MDD-DYS).** PI21/01929  
 Director: Moreno Ruiz, Carmen  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros episodios psicóticos** PI20/00721  
 Director: Martínez Díaz-Caneja, María Covadonga  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- 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  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Bases neurobiológicas de las trayectorias diferenciales de los Trastornos del Espectro Autista** PI20/01382  
 Director: Parellada Redondo, M<sup>a</sup> José  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Enfoque integral y traslacional para el diagnóstico genético de TEA. Caracterización clínica.** PI19/01024  
 Director: Arango López, Celso  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2020  
 End date: 30/06/2024
- Title: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1 : mecanismos epigenéticos y comorbilidad afectiva** PI18/01819  
 Director: Carballo Belloso, Juan José  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles.** PI18/01119  
 Director: Moreno Pardillo, M<sup>a</sup> Dolores  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023





- Title: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente.** PI18/00753  
 Director: Rapado Castro, Marta  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 años.** PI17/02227  
 Director: Moreno Ruiz, Carmen  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista.** PI17/01997  
 Director: Pina Camacho, Laura  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis.** PI17/01249  
 Director: Janssen Jeucken, Joost  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997  
 Director: Mayoral Aragon, María  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Biotipos en Trastornos del Espectro Autista: relación con evolución clínica y respuesta a fármacos** PI17/00819  
 Director: Parellada Redondo, M<sup>a</sup> José  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de delección 22q11.2** PI17/00481  
 Director: Martínez Díaz-Caneja, María Covadonga  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Ambiente y Genes en Esquizofrenia (AGES-CM 2 ) S2017/BMD-3740**  
 Director: Arango López, Celso  
 Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01  
 Director: Pina Camacho, Laura  
 Funding body: Fundación Alicia Koplowitz  
 Type of project: Research project  
 Start date: 01/11/2019  
 End date: 30/04/2022





- Title: **Estudio de caracterización fenotípica y su relación con las alteraciones genéticas mediadoras del fenotipo en el síndrome de Phelan-McDermid (PMS o delección 22q13)** FIBHGM-CCA027-2020  
 Director: Parellada Redondo, M<sup>a</sup> José  
 Funding body: Fundación Alicia Koplowitz  
 Type of project: Research project  
 Start date: 20/09/2020  
 End date: 31/05/2023
- Title: **Beca de doctorado Fundación Bancaria La Caixa-** INPHINIT2018-CS  
 Director: Arango López, Celso (Stella, Carol)  
 Funding body: Fundación La Caixa  
 Type of project: Human resources  
 Start date: 29/10/2018  
 End date: 28/02/2022
- Title: **Ramón y Cajal Contract.** RYC-2017-23144  
 Director: Rapado Castro, Marta  
 Funding body: Ministerio de Economía y Hacienda  
 Type of project: Human resources  
 Start date: 01/09/2018  
 End date: 31/08/2024
- Title: **Formación profesorado universitario.** FPU20/07486  
 Director: Abrokwa Acheampong, Hayford  
 Funding body: Ministerio de Economía y Hacienda  
 Type of project: Human resources  
 Start date: 13/12/2021  
 End date: 12/12/2025
- Title: **Formación profesorado universitario.** FPU19/06877  
 Director: Martín Martínez, Nuria  
 Funding body: Ministerio de Economía y Hacienda  
 Type of project: Human resources  
 Start date: 31/10/2020  
 End date: 31/10/2024
- Title: **Formación profesorado universitario.** FPU19/06752  
 Director: Panadero Gómez, Rocío  
 Funding body: Ministerio de Economía y Hacienda  
 Type of project: Human resources  
 Start date: 01/12/2021  
 End date: 30/11/2025
- Title: **Formación profesorado universitario.** FPU18/06550  
 Director: Rubio Fernández, Patricia  
 Funding body: MICINN  
 Type of project: Human resources  
 Start date: 29/10/2019  
 End date: 28/10/2023
- Title: **Formación profesorado universitario.** FPU17/06467  
 Director: Colomar Molla, Laura  
 Funding body: Ministerio de Economía y Hacienda  
 Type of project: Human resources  
 Start date: 26/10/2018  
 End date: 25/10/2022
- Title: **Formación profesorado universitario.** FPU16/01740  
 Director: García Alcón, Alicia  
 Funding body: Ministerio de Educación, Cultura y Deporte  
 Type of project: Human resources  
 Start date: 24/10/2017  
 End date: 23/03/2022
- Title: **Intesification contract** INT20/00043  
 Director: Parellada Redondo, María José  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022
- Title: **Sara Borrell contract.** CD20/00082  
 Director: Alloza Romero, Clara  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2023





- Title: **Sara Borrell contract.** CD20/00118  
Director: González Peñas, Javier  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00114  
Director: Andreu Bernabéu, Álvaro  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2021  
End date: 28/01/2023
- Title: **Predoctoral contract.** FI18/00233  
Director: Burdeus Olavarrieta, Mónica  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 31/05/2023
- Title: **Predoctoral contract.** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of project: Human resources  
Start date: 02/04/2018  
End date: 01/09/2022
- Title: **Juan Rodés contract.** JR19/00024  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2020  
End date: 28/01/2024
- Title: **Sara Borrell contract.** CD20/00118  
Director: González Peñas, Javier  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00114  
Director: Andreu Bernabéu, Álvaro  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2021  
End date: 28/01/2023
- Title: **Predoctoral contract.** FI18/00233  
Director: Burdeus Olavarrieta, Mónica  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 31/05/2023
- Title: **Predoctoral contract.** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of project: Human resources  
Start date: 02/04/2018  
End date: 01/09/2022
- Title: **Juan Rodés contract.** JR19/00024  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2020  
End date: 28/01/2024
- Title: **Río Hortega contract.** CM21/00148  
Director: Boi, Sara  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2022  
End date: 31/12/2023





- Title: **Sara Borrell contract.** CD18/00185  
Director: Martínez, Kenia  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 30/01/2022
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-18635  
Director: Janssen Jeucken, Joost  
Funding body: Comunidad de Madrid  
Type of project: Human resources  
Start date 01/03/2021  
End date: 28/02/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2019-AI/SAL-15702  
Director: Moreno Ruiz, Carmen  
Funding body: Comunidad de Madrid  
Type of project: Human resources  
Start date: 01/02/2020  
End date: 31/01/2022

#### GROUP 3.03B: Neurological diseases

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	2			
National	2			
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 Luis  
Funding body: EU/PRG. MARCO  
Project type: European Research project

Start date: 01/01/2021  
End date: 31/12/2024

- Title: **H2020 EXTEND 779982. Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982  
Director: Grandas Pérez, Francisco Javier  
Funding body: EU/PRG. MARCO  
Project type: European Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Biomarcadores de la fase prodrómica de la enfermedad de Parkinson: un abordaje multimodal.** PI21/00771  
Director: Grandas Pérez, Francisco Javier  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Amantadina y estimulación magnética transcraneal para fatiga en la EM: ensayo Fase III, controlado, randomizado, cruzado y doble ciego (FETEM).** ICI20/00074  
Director: Martínez Ginés, María Luisa  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2021  
End date: 31/12/2024

#### 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	1			
National	17		13	
Regional			8	





- Title: **Enhancing Whole Genome Sequencing (WGS) and/or Reverse Transcription Polymerase Chain Reaction (RT-PCR) national infrastructures and capacities to respond to the COVID-19 pandemic in the EU and EEA).** ECDC/HERA/2021/024  
 Director: García de Viedma del Álamo, Darío  
 Project type: Research project  
 Funding body: European Commission  
 Start date: 01/09/2021  
 End date: 30/09/2022
- 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  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- 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 Álamo, Darío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Nuevos métodos diagnósticos para identificar la candidemia relacionada a catéter en pacientes con catéter in situ. ¿Es posible personalizar el manejo de la candidemia? Estudio CANDICATH.** PI20/00575  
 Director: Muñoz García-Paredes, Patricia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Proyecto SINTESIS (eStudio del Impacto de las Nuevas Tecnologías y técnicas rápidas en la sepsIS de origen urinario.** PI20/01201  
 Director: Burillo Albizua, Almudena  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Proyecto de Alerta en Neumonía Grave (PANG). Impacto de un bundle multidisciplinar de intervención diagnóstica y terapéutica.** PI20/01350  
 Director: Galar Recalde, Alicia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **The role of the microbiome as a diagnostic, prognostic and therapeutic tool in C. difficile infection and other diseases.** PI20/01381  
 Director: Reigadas Ramírez, Elena Manuela  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **El papel de la nueva tecnología de diagnóstico microbiológico e imagen en el diagnóstico de la infección de dispositivos electrocardíacos. Proyecto mirada.** PI20/01438  
 Director: Valerio Minero, Maricela  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Tratamiento preventivo del CMV en pacientes inmunocompetentes de alto riesgo con cirugía cardíaca mayor. Ensayo clínico multicéntrico, doble ciego, aleatorizado, fase III (gan-car)** ICI19/00079  
 Director: Muñoz García-Paredes, Patricia  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023





- Title: **La cavidad abdominal como reservorio de cepas de Candida spp causantes de candidemia: aplicación del genotipado como herramienta de detección de genotipos capaces de alcanzar el torrente circulatorio.** PI19/00074  
 Director: Escribano Martos, Pilar  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Aplicación de estrategias basadas en tecnologías de secuenciación de nueva generación para solucionar problemas derivados de la globalización de la tuberculosis.** PI19/00331  
 Director: Pérez García, Laura  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2020  
 End date: 30/06/2024
- Title: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía Cardíaca: estudio clínico, prospectivo y randomizado** PI18/01741  
 Director: Pérez Granda, María Jesús  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155  
 Director: Guinea Ortega, Jesús Vicente  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997  
 Director: Rodríguez Sánchez, María Belén  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 31/12/2022
- Title: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599  
 Director: García de Viedma del Álamo, Darío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Impacto de la implementación de un “bundle” para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045  
 Director: Guembe Ramírez, María  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Influencia de la gripe en los eventos cardíacos agudos y búsqueda de virus gripales cardiotrópicos. Estudio INFLUCAR** PI17/00061  
 Director: Muñoz García-Paredes, Patricia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Dalbavancina como tratamiento local para las complicaciones infecciosas tras fracturas de alta energía ¿fake o esperanza?** FMM21/01  
 Director: Guembe Ramírez, María  
 Project type: Research project  
 Funding body: Mutua Madrileña Foundation  
 Start date: 01/07/2021  
 End date: 30/06/2024





- Title: **Young employment contract.** PEJ2018-004613-A  
Director: Escribano Martos, Pilar  
Funding body: Ministerio de Economía y Hacienda  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/03/2022
- Title: **Predoctoral contract.** FI20/00089  
Director: Mesquida Marcos, Aina Catalina  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2024
- Title: **Predoctoral contract.** FI20/00129  
Director: Rodríguez Grande, Cristina  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2024
- Title: **Predoctoral contract.** FI19/00021  
Director: Díaz García, Judith  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Juan Rodés contract.** JR18/00030  
Director: Galar Recalde, Alicia  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/12/2018  
End date: 31/06/2023
- Title: **Miguel Servet II contract.** CPII20/00015  
Director: Escribano Martos, Pilar  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Miguel Servet II contract.** CP20/00001  
Director: Pérez García, Laura  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Miguel Servet II contract.** CPII19/00002  
Director: Rodríguez Sánchez, María Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/05/2023
- Title: **Río Hortega contract.** CM21/00274  
Director: Alonso Menchen, David  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **PFIS Predoctoral contract.** FI21/00310  
Director: Vázquez Cuesta, Silvia Noemí  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2025
- Title: **PFIS Predoctoral contract.** FI21/00314  
Director: Soriano Martín-Nieto, Ana  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2025
- Title: **Intensification contract.** INT21/00089  
Director: Burillo Albizua, Almudena







Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2022  
 End date: 31/12/2023

- Title: **Miguel Servet II.** CPII20/00001  
 Director: Pérez García, Laura  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-17971  
 Director: Guembe Ramírez, María  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 31/01/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-18120  
 Director: García de Viedma del Álamo, Darío  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-19547  
 Director: Muñoz García-Paredes, Patricia  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-19052

Director: Escribano Martos, Pilar  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022

- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-18351  
 Director: Pérez García, Laura  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2019-TL/BMD-13146  
 Director: García de Viedma del Álamo, Darío  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 30/04/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2019-TL/BMD-15599  
 Director: Marín Arriaza, María de las Mercedes  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 30/06/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2021-TL/BMD-23377  
 Director: González Leiva, José  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/10/2022  
 End date: 30/09/2024





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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	3		2	
Regional				

- 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  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis.** PI17/00657  
Director: Berenguer Berenguer, Juan  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- 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  
Funding body: Fundación Mutua Madrileña  
Project type: Research project  
Start date: 15/09/2022  
End date: 14/09/2024

- Title: **Juan Rodés contract.** JR19/00021  
Director: Pérez Latorre, Leire  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 29/01/2020  
End date: 31/01/2024
- Title: **Río Hortega contract.** CM20/00086  
Director: Fanciulli, Chiara **N° Competitive projects**  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022

### AREA 5: DISEASES OF THE IMMUNE SYSTEM

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	1			
European				
National	5	2	1	
Regional			4	

- Title: **Local immunoradiotherapy (LIRT).** CCA001-2020 (C18915/A29362)  
Director: Sánchez-Mateos Rubio, Paloma  
Project type: Research project  
Funding body: Accelerator Award. Cancer Research Uk.  
Start date: 01/01/2020  
End date: 31/12/2024
- 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  
 Funding body: Ministerio de Ciencia e Innovación  
 Project type: Research project  
 Start date: 01/09/2022  
 End date: 31/08/2025

- Title: **Mecanismos moleculares de la inmunidad entrenada inducida por metotrexato.** PI20/00316

Director: Puig Kröger, Amaya Rocío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023

- Title: **Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695

Director: Fernández-Cruz Pérez, Eduardo  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023

- Title: **Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037

Director: Puig Kröger, Amaya Rocío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022

- Title: **Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324

Director: Sánchez-Mateos Rubio, Paloma  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022

- Title: **Young employment contract.** PEJ2018-004617-A

Director: Carbone Campoverde, Javier Alberto  
 Project type: Human Resources  
 Funding body: Ministerio de Economía y Hacienda  
 Start date: 01/10/2019  
 End date: 26/08/2022

- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-19098

Director: Rodríguez Sainz, María Carmen  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2011  
 End date: 31/12/2022

- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-19682

Director: Carbone Campoverde, Javier Alberto  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022

- Title: **Research Assistant.** PEJ-2019-AI/BMD-15479

Director: Carbone Campoverde, Javier Alberto  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/01/2020  
 End date: 30/06/2022

- Title: **Research Assistant.** PEJ-2021-AI/BMD-23327

Director: Samaniego García, Rafael  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/11/2022  
 End date: 31/10/2024

**Not managed by the FIBHGM**





- Title: **HLA-G: cáncer gástrico y su evolución** PI18/00626  
Director: Martín Villa, José Manuel  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date:30/06/2023
- Title: **HLA-G: Su importancia en epidemiología, medicina evolutiva y patología.** PI18/00721  
Director: Arnaiz Villena, Antonio  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date:30/06/2023

#### GROUP 5.02: Molecular biology of HIV

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

- Title: **Nanotecnología y microRNAs como terapia alternativa en la búsqueda de una posible erradicación de la infección por el VIH-1.** PI20/01314  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Dendrimers as candidates for a microbicide to prevent HIV and/or HSV-2 infections in women and men.** PI19/01638  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles

Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 30/06/2023

- Title: **NANODENDMED II-CM) Nanosistemas dendríticos como agentes y vectores terapéuticos en distintas aplicaciones biomédicas (II).** S2017/BMD-3703  
Director: Jiménez Fuentes, José Luis  
Project type: Research project  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Sara Borrell contract.** CD20/00025  
Director: Muñoz Fernández, María Ángeles (Tarancón Díez, Laura)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00128  
Director: Muñoz Fernández, María Ángeles (Hernanz Lobo, Alicia)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 11/01/2021  
End date: 30/06/2023
- Title: **Young employment contract. Laboratory Technician.** PEJ-2020-TL/BMD-19695  
Director: Muñoz Fernández, María Ángeles (García Pérez de la Lastra, Cristina)  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022





### GROUP 5.03: Systemic autoimmune diseases

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1			
Regional				

- 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: 31/12/2023

### GROUP 5.05: Pathogenesis of the immunoallergic response

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	2			
Regional				

- 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: 31/12/2024

- Title: **Análisis de la expresión génica de los basófilos y del proteoma sérico en pacientes con urticaria crónica y/o angioedema histaminérgico.** PI21/01326  
 Director: Baeza Ochoa de Ocariz, María Luisa (I Colaborador)  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2024

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	4		3	
Regional	1		3	

- Title: **Desarrollo y validación preclínica del uso alogénico de células T reguladoras derivadas del timo (thyTreg) como terapia celular para suprimir las respuestas inmunitarias patológicas en humanos.** PI21/00189  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Generación de células Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular.** PI18/00506  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III



Start date: 01/01/2019

End date: 31/12/2022

- Title: **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: Clinical Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2021

End date: 31/12/2024

- Title: **Desarrollo de una tecnología pionera basada en el uso terapéutico de células thyTreg como terapia avanzada en el tratamiento de diversas enfermedades inflamatorias.** FIPSE/3804-21

Director: Correa Rocha, Rafael

Project type: Research project

Funding body: Fundación para la Investigación y la Prospectiva en Salud en España (Fipse)

Start date: 03/04/2021

End date: 02/04/2022

- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727-1

Director: Pion, Marjorie

Project type: Research project

Funding body: Consejería de Educación de Investigación. Comunidad de Madrid

Start date: 01/01/2018

End date: 30/06/2022

- Title: **Sara Borrell contract.** CD18/00105

Director: Martínez Bonet, Marta

Project type: Human resources

Funding body: Instituto de Salud Carlos III

Start date: 29/01/2019

End date: 17/08/2022

- Title: **Predoctoral contract.** FI19/00120  
Director: Fernández Castillo, Marta  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/12/2023

- Title: **Predoctoral contract.** FI19/00173  
Director: Gallego Valle, Jorge  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/07/2020  
End date: 09/11/2022

- Title: **Research Assistant (Comunidad de Madrid)** PEJ-2020-AI/BMD-19507  
Director: Correa Rocha, Rafael  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/03/2021  
End date: 28/02/2023

- Title: **Research Assistant (Comunidad de Madrid)** PEJ-2020-AI/BMD-17954  
Director: Pion, Marjorie  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/02/2021  
End date: 31/01/2023

- Title: **Young employment contract. Laboratory Technician.** PEJ-2021-TL/BMD-22703  
Director: Correa Rocha, Rafael  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/11/2022  
End date: 31/10/2024



### GROUP 5.07: Infections in the paediatric population

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	4		2	
Regional				

- Title: **Infección por VRS y desarrollo de sibilancias persistentes: una cohorte de nacimiento. (Marañón RSV Birth cohort; MARCO Study.** PI21/00840  
Director: Rodríguez Fernández, Rosa María  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2024
- 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: 31/12/2023
- Title: **Caracterización de las nuevas infecciones VIH en adolescentes en España.** PI19/01530  
Director: Navarro Gómez, María Luisa  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2022
- Title: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica.** PI17/00711  
Director: Santiago García, Begoña  
Project type: Research project

Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022

- Title: **Río Hortega contract.** CM20/00128  
Director: Hernanz Lobo, Alicia  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 27/11/2020  
End date: 31/12/2022
- Title: **Intensification contract.** INT20/00082  
Director: Navarro Gómez, María Luisa  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2022

## AREA 6: TRANSLATIONAL ONCOLOGY

### GROUP 6.01: Interdisciplinary oncology and biotechnology

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National				
Regional			1	

- Title: **Young employment contract. Laboratory Technician.** PEJ-2020-TL/BMD-19427  
Director: Muñoz Fernández, Mercedes  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/03/2021  
End date: 28/02/2023







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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	1			
National	2			
Regional				

- Title: **FAITH: Federated Artificial Intelligence solution for monitoring mental Health status after cancer treatment.** H2020 FAITH 875358  
Director: Martín Jiménez, Miguel  
Project type: Research project  
Funding body: UE  
Start date: 01/01/2020  
End date: 30/06/2023
- Title: **Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo.** PI18/01775  
Director: Martín Jiménez, Miguel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Detección de neoantígenos en exosomas tumorales obtenidos de sangre periférica de pacientes con cáncer microcítico de pulmón metastásico.** GOM-HGUGM-2020-01  
Director: Calles Blanco, Antonio  
Project type: Research project  
Funding body: Asociación Española de Investigación sobre el Cáncer Aseica  
Start date: 20/05/2020  
End date: 20/05/2022

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	1			
National	3			
Regional				

- Title: **Remote Ischemic Conditioning in Lymphoma Patients Receiving Anthracyclines.’ – ‘RESILIENCE’.** H2020-RESILIENCE-945118  
Director: Bastos Oreiro, Mariana Beatriz  
Project type: Research project  
Funding body: European Commission  
Start date: 01/06/2021  
End date: 31/05/2026
- Title: **Desarrollo de un sistema de suicidio celular, usando un par toxina-antitoxina, para controlar el síndrome de liberación de citoquinas inducido por células CAR-T in vivo.** PID2019-107545RB-I00  
Director: Díez Martín, José Luis  
Project type: Research project  
Funding body: Ministerio de Economía y Hacienda  
Start date: 01/06/2020  
End date: 31/05/2023
- Title: **Búsqueda de biomarcadores relacionados con genes del sistema inmune para predecir la eficacia y la toxicidad en pacientes con neoplasias hematológicas tratadas con inmunoterapia basada en el receptor de células T antigénicas quiméricas (CA).** PI20/00521  
Director: Buño Borde, Ismael  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023





- Title: **Becas de Investigación de la FEHH.** FEHH01/2021  
Director: Muñiz Sevilla, Paula  
Project type: Human resources  
Funding body: Fundación Española Hematología y Hemoterapia (F.E.H.H.)  
Start date: 01/01/2022  
End date: 31/12/2022

#### 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	4			
Regional			1	

- Title: **El control de la apoptosis renal bloquea el inflammasoma y evita el daño orgánico a distancia.** PI20/01577

Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023

- Title: **Intervenciones sobre las balsas de colesterol epiteliales derivadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/00276

Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022

- Title: **Proteccion renal en el paciente politraumatizado.** FMM20/03

Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Fundación Mutua Madrileña  
Start date: 05/08/2020  
End date: 31/12/2022

- Title: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatías pigmentosas. paludismo y rabdomiolisis** SENEFRO18/01

Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: FUNDACIÓN SENEFRO  
Start date: 01/01/2019  
End date: 31/12/2022

- Title: **Predoctoral contract.** PEJD-2019-PRE/BMD-16978

Director: Lázaro Fernández, Alberto  
Project type: Human resources  
Funding body: Comunidad Autónoma de Madrid.  
Start date: 01/02/2020  
End date: 11/03/2022



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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	6		2	
Regional	2		1	

- 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 Martín, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Evaluación de la capacidad diagnóstica y pronóstica de la biopsia hepática en la insuficiencia hepática crónica agudizada (ACLF): un abordaje 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: 31/12/2024
- Title: **Proliferación fibroadiposa del mesenterio en la enfermedad de Crohn: relevancia clínica y patogénica.** PI19/01746  
Director: Menchén Viso, Luis Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria sistemática.** PI18/01901

Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023

- Title: **Fusión celular y comunicación celular por exomas en la enfermedad y regeneración hepática.** PI18/01833  
Director: Vaquero Martín, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2023
- Title: **Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica.** Y2018/NMT-4949-1  
Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Consejería de Educación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Comunicación por exomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727  
Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Consejería de Educación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- 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: 16/06/2024



- Title: **Young employment contract.** PEJ2018-003826-A  
Director: Bañares Cañizares, Rafael  
Project type: Human Resources  
Funding body: Ministerio de Economía y Hacienda  
Start date: 01/11/2019  
End date: 31/03/2022
- Title: **Río Hortega contract.** CM19/00247  
Director: Caballero Marcos, Aránzazu  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/12/2019  
End date: 23/06/2022
- Title: **Young employment contract. Laboratory Technician.** PEJ-2020-TL/BMD-18995  
Director: Vaquero Martín, Javier  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/03/2021  
End date: 28/02/2023

#### 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	7		4	
Regional				

- Title: **ASCEND (ARDS in Children and ECMO initiation strategies impa.** NIH-2020/PAF01099  
Director: Butragueño Laiseca, Laura  
Project type: Research project  
Funding body: National Institutes Of Health (NIH)  
Start date: 05/09/2020  
End date: 30/06/2023

- 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: 31/12/2024
- Title: **Ensayo clínico controlado aleatorizado sobre el tratamiento profiláctico del estreñimiento con polietilenglicol con electrolitos en el niño crítico.** PI20/01339  
Director: López González, Jorge  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023
- 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: 31/12/2023
- 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: 31/12/2023
- Title: **Efectos de la resucitación con albumina hipertónica y nuevas drogas vasoactivas en un modelo animal infantil de shock hemorrágico.** PI20/01706



Director: Urbano Villaescusa, Javier

Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2021

End date: 31/12/2023

- Title: **Estudio clínico y experimental de parada cardiaca y reanimación cardiopulmonar en pediatría.** PI18/01632

Director: López-Herce Cid, Jesús

Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2019

End date: 30/06/2023

- Title: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248

Director: Santiago Lozano, María José

Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2018

End date: 30/06/2022

- Title: **Río Hortega contract.** CM19/00203

Director: López-Herce Cid, Jesús (Manrique Martín, Gema)

Project type: Human Resources

Funding body: Instituto de Salud Carlos III

Start date: 01/12/2019

End date: 23/09/2022

- Title: **Río Hortega contract.** CM21/00223

Director: López-Herce Cid, Jesús (Butragueño Laiseca, Laura)

Project type: Human Resources

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2022

End date: 31/12/2023

- Title: **Juan Rodés contract.** JR19/00023

Director: González Cortés, Rafael

Funding body: Instituto de Salud Carlos III

Type of project: Human resources

Start date: 29/01/2020

End date: 28/01/2024

- Title: **Juan Rodés contract.** JR21/00023  
Director: Fernández Lafever, Sarah NICOLE  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2022  
End date: 31/12/2025

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1			
Regional	1			

- Title: **Impacto de la administración de lidocaina intravenosa o paravertebral durante el intraoperatorio de la cirugía de resección pulmonar.** PI18/01305  
Director: Garutti Martínez, Ignacio  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM)** S2017/BMD-3773  
Director: Puente Maestu, Luis  
Project type: Research project





Funding body: Consejería de Educación de Investigación. Comunidad de Madrid

Start date: 30/01/2018

End date: 01/07/2023

#### GROUP 7.06. Regenerative medicine in plastic surgery

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

#### GROUP 7.07. Experimental kidney transplantation

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

#### GROUP 7.08: Paediatric endocrinology

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

#### GROUP 7.10 Regeneration and biomaterials in musculoskeletal diseases

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1			
Regional				

- 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: 30/11/2024

#### GROUP 7.12: Emergency medicine

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–



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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1			
Regional	1		1	

- Title: **Efectos del tipo de flujo sanguíneo (continuo o pulsátil) sobre la microcirculación en un modelo animal de asistencia ventricular.** P117/01319  
 Director: Ruiz Fernández, Manuel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Nuevas Tecnologías de Fabricación y Optimización de Tejidos: La Piel como sistema Modelo** S2018/BAA-4480  
 Director: Quintana Villamandos, María Begoña/Del Cañizo López, Juan Francisco  
 Project type: Research project  
 Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
 Start date: 06/03/2019  
 End date: 06/03/2023
- Title: **Young employment contract.** PEJ2018-004026-A  
 Director: Del Cañizo López, Juan Francisco  
 Project type: Human Resources  
 Funding body: Ministerio de Economía y Hacienda  
 Start date: 01/11/2019  
 End date: 31/03/2022

#### GROUP 7.18: Peritransplant evaluation of the liver

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

#### GROUP 7.19: Perianesthesia assessment

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

#### GROUP 7.20: Anesthesia, toxins, and arrhythmias

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

#### GROUP 7.21 Biopathology of aging

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	2			
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: 31/12/2024
- Title: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021  
 Director: Serra Rexach, José Antonio  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022

#### GROUP 7.22 Neonatal and developmental pathophysiology

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	2			
Regional				

- Title: **Ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** PI17/00838  
 Director: Sánchez Luna, Manuel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022

- 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: Sánchez Luna, Manuel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023

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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

#### GROUP 7.27: Hospital pharmacy and pharmacogenomics

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	7			
Regional			1	

- Title: **Proyecto DOLMEN. Identificación de variantes genéticas asociadas a Trastorno por dolor, Trastorno por Uso de Opioides y otros Trastornos mentales (patología dual) y Evaluación de la implantación de un programa de atención integral.** DRO2021/057  
 Director: López Fernández, Luis Andrés  
 Project type: Research project



Funding body: Ministerio de Sanidad, SS Sociales e Igualdad

Start date: 01/01/2022

End date: 31/12/2024

- Title: **Desarrollo de hidrogeles e implantes personalizados mediante impresión 3D para el tratamiento de infecciones de prótesis articulares y válvulas cardiacas.** PID2021-1263100A-I00  
Director: Ribed Sánchez, Almudena  
Project type: Research project  
Funding body: Ministerio De Sanidad, SS Sociales e Igualdad  
Start date: 01/01/2022  
End date: 31/12/2025
- 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, M<sup>a</sup> José  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2022  
End date: 31/12/2025
- 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 Ramírez, María  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2024
- 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: 31/12/2023

- 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: 31/12/2023
- Title: **Marcadores genéticos, transcriptómicos y celulares de respuesta a terapia biológica en enfermedad inflamatoria intestinal pediátrica.** PI19/00792  
Director: López Fernández, Luis Andrés  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2021-AI/BMD-21866  
Director: López Fernández, Luis Andrés (Zapata Cobo, Paula)  
Project type: Human resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/10/2022  
End date: 30/09/2024

#### GROUP 7.28: Clinical nutrition

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

- Title: **Utilidad de la realidad virtual y uso de una app para la enseñanza y monitorización de los cuidados de catéter en pacientes con nutrición parenteral domiciliaria.** PI19/01275





Director: De la Cuerda Compés, M<sup>a</sup> Cristina  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 30/06/2024

#### GROUP 7.29: Pharmacology and vascular pathophysiology

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

- Title: **Papel de la hipoxia y la inflamación en la disfunción de células endoteliales progenitoras en hipertensión pulmonar pediátrica.** PI19/01616  
 Director: Moreno Gutiérrez, Laura  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Research Assistant.** PEJ-2020-AI/BMD-19249  
 Director: Moreno Gutiérrez, Laura (Jerónimo Albaladejo, Marta)  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 03/01/2021
- Title: **Research Assistant.** PEJ-2019-AI/BMD-13475  
 Director: Pérez Vizcaíno, Francisco (Sánchez Sánchez, Cristina)  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 14/02/2020  
 End date: 15/02/2022

**Not managed by the FIBHGM**

- Title: **Coinfection of HIV and schistosomiasis on the pulmonary vascular bed.** FIBHGM-CCA028-2017  
 Director: Cogolludo Torralba, Ángel  
 Project type: Research project  
 Funding body: Cardiovascular Medical Research and Education Fund.  
 Start date: 01/01/2017
- Title: **Canales Kv como dianas farmacológicas en la hipertensión arterial pulmonar y la disfunción eréctil.** PID2020-117939RB-I00  
 Director: Cogolludo Torralba, Ángel  
 Project type: Research project  
 Funding body: Plan Nacional de I+D (CICYT)  
 Start date: 01/09/2021  
 End date:
- Title: **Papel fisiopatológico de la vitamina D y la microbiota en la hipertensión pulmonar y en la disfunción eréctil VIMIPHED.** PID2019-107363RB-I00  
 Director: Pérez Vizcaino, Francisco  
 Project type: Research project  
 Funding body: Plan Nacional de I+D (CICYT)  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Ensayo clínico de Fase IIb-III para evaluar la eficacia de las MSCs en recién nacidos prematuros como estrategia preventiva para reducir la incidencia y severidad de la Displasia Broncopulmonar.** ICI19/00092  
 Director: Del Cerro, M<sup>a</sup> Jesús  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Contratos predoctorales de personal investigador en formación.** CT63/19-CT64/19  
 Director: Pérez Vizcaíno, Francisco (Olivencia Plaza, Miguel Ángel)  
 Project type: Human resources  
 Funding body: UCM  
 Start date: 16/11/2020



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

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	2		1	
Regional			1	

- Title: **La respuesta inflamatoria anti-espermatozoide para evitar la diseminación de infecciones de transmisión sexual como causa de infertilidad.** PI19/00078  
 Director: Reloso Cereceda, Miguel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Estudio del impacto del factor género en el pronóstico del melanoma cutáneo: Análisis epidemiológico y búsqueda de patrones pronósticos.** FMM20/04  
 Director: Mercader Cidoncha, Enrique  
 Project type: Research project  
 Funding body: Fundación Mutua Madrileña  
 Start date: 19/10/2020  
 End date: 18/10/2023
- Title: **Young employment contract.** PEJ2018-003326-A  
 Director: Pérez Milán, Federico  
 Project type: Human resources  
 Funding body: MICINN  
 Start date: 01/10/2019  
 End date: 28/02/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2021-TL/BMD-22394  
 Director: Herrero Rufo, Alicia

Project type: Human resources

Funding body: Comunidad Autónoma de Madrid

Start date: 01/10/2022

End date: 30/09/2024

### GROUP 7.32: Physical medicine and rehabilitation

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

### GROUP 7.33: Pathological Anatomy

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

### GROUP 7.34: Multimorbidity, chronic diseases and health services. Primary Care

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

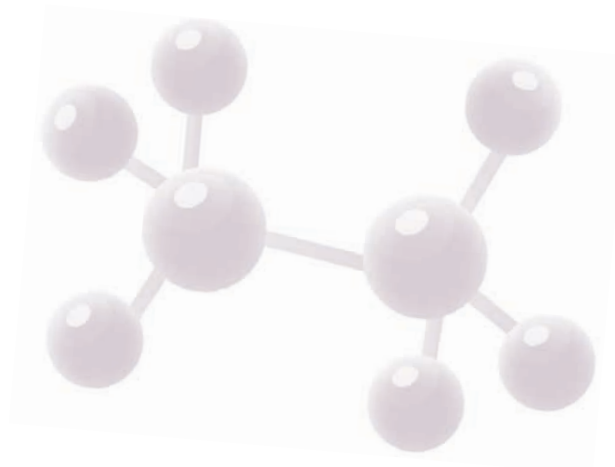


GROUP 7.35: Translational dermatology: Research and innovation

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-

NURSING RESEARCH GROUP

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	-	-	-	-
European	-	-	-	-
National	-	-	-	-
Regional	-	-	-	-





## Scientific publications

The list presented below shows all the referenced publications in which investigators from the IISGM participated in during 2022.

Publications with an impact factor greater than **10 points are highlighted**. In order to obtain the total impact factor, only information from publications indexed as original articles, reviews, editorials and 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
ACTA DERMATO-VENEREOLOGICA	1	3,6	3,6
ACTA PAEDIATRICA	1	3,8	3,8
ACTA PAULISTA DE ENFERMAGEM	1	0,7	0,7
ACTA PSYCHIATRICA SCANDINAVICA	2	6,7	<b>13,4</b>
ACTAS ESPANOLAS DE PSIQUIATRIA	1	1,5	1,5
Actas Urologicas Espanolas	6	1,1	6,6
ADDICTION BIOLOGY	1	3,4	3,4
ADVANCES IN THERAPY	1	3,8	3,8
AGING & MENTAL HEALTH	2	3,4	6,8
AIDS	3	3,8	<b>11,4</b>
AIDS CARE-PSYCHOLOGICAL AND SOCIO-MEDICAL ASPECTS OF AIDS/HIV	2	1,7	3,4
AIDS RESEARCH AND HUMAN RETROVIRUSES	1	1,5	1,5
AIDS Research and Therapy	1	2,2	2,2
ALIMENTARY PHARMACOLOGY & THERAPEUTICS	2	7,6	<b>15,2</b>
ALLERGY	3	<b>12,4</b>	<b>37,2</b>
ALZHEIMERS & DEMENTIA	1	<b>14</b>	<b>14</b>

Journal	Nº	IF	Amount IF
AMERICAN JOURNAL OF CARDIOLOGY	2	2,8	5,6
AMERICAN JOURNAL OF GASTROENTEROLOGY	1	9,8	9,8
AMERICAN JOURNAL OF HEMATOLOGY	3	<b>12,8</b>	<b>38,4</b>
AMERICAN JOURNAL OF NEURORADIOLOGY	1	3,5	3,5
AMERICAN JOURNAL OF PERINATOLOGY	3	2	6
AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY	1	6,4	6,4
AMERICAN JOURNAL OF TRANSPLANTATION	2	8,8	<b>17,6</b>
Amyotrophic Lateral Sclerosis and Frontotemporal Degeneration	1	2,8	2,8
ANAESTHESIA CRITICAL CARE & PAIN MEDICINE	1	5,5	5,5
ANAIS BRASILEIROS DE DERMATOLOGIA	1	1,7	1,7
ANALES DE PEDIATRIA	22	2,1	<b>46,2</b>
ANGIOLOGY	1	2,8	2,8
ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY	1	5,9	5,9
ANNALS OF HEMATOLOGY	2	3,5	7
ANNALS OF PHARMACOTHERAPY	1	2,9	2,9
ANNALS OF PLASTIC SURGERY	1	1,5	1,5
ANNALS OF SURGICAL ONCOLOGY	3	3,7	<b>11,1</b>
ANNALS OF THE RHEUMATIC DISEASES	2	<b>27,4</b>	<b>54,8</b>
Antibiotics-Basel	1	4,8	4,8
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY	2	4,9	9,8
Antioxidants	7	7	<b>49</b>
ANTIVIRAL THERAPY	2	1,2	2,4
Applied Materials Today	1	8,3	8,3
Applied Sciences-Basel	1	2,7	2,7
ARCHIVES OF DISEASE IN CHILDHOOD	1	5,2	5,2
ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION	1	4,4	4,4

Continued on next page





Journal	Nº	IF	Amount IF
ARCHIVOS DE BRONCONEUMOLOGIA	10	8	<b>80</b>
ARCHIVOS ESPAÑOLES DE UROLOGIA	1	0,5	0,5
ARQUIVOS BRASILEIROS DE CARDIOLOGIA	1	2,6	2,6
ARTHRITIS RESEARCH & THERAPY	1	4,9	4,9
ARTIFICIAL ORGANS	1	2,4	2,4
ATENCION PRIMARIA	1	2,5	2,5
AUSTRALIAN CRITICAL CARE	1	3,3	3,3
BEHAVIORAL PSYCHOLOGY-PSICOLOGIA CONDUCTUAL	1	1,1	1,1
Behavioral Sciences	1	2,6	2,6
BEST PRACTICE & RESEARCH CLINICAL HAEMATOLOGY	1	2,1	2,1
BIOCHEMICAL PHARMACOLOGY	1	5,8	5,8
Biofabrication	1	9	9
BIOLOGICAL PSYCHIATRY	1	<b>10,6</b>	<b>10,6</b>
BIOLOGY DIRECT	1	5,5	5,5
Biomarker Research	1	<b>11,1</b>	<b>11,1</b>
BIOMEDICAL MATERIALS	1	4	4
BIOMEDICINE & PHARMACOTHERAPY	5	7,5	<b>37,5</b>
Biomedicines	6	4,7	<b>28,2</b>
BIOSENSORS-BASEL	1	5,4	5,4
BLOOD	1	<b>20,3</b>	<b>20,3</b>
Blood Advances	3	7,5	<b>22,5</b>
Blood Cancer Journal	2	<b>12,8</b>	<b>25,6</b>
Blood Transfusion	1	3,7	3,7
BMC CANCER	2	3,8	7,6
BMC GASTROENTEROLOGY	1	2,4	2,4
BMC GERIATRICS	2	4,1	8,2
BMC INFECTIOUS DISEASES	2	3,7	7,4

Journal	Nº	IF	Amount IF
BMC MEDICAL EDUCATION	1	3,6	3,6
BMC MEDICAL IMAGING	1	2,7	2,7
BMC MUSCULOSKELETAL DISORDERS	1	2,3	2,3
BMC Nursing	1	3,2	3,2
BMC Pregnancy and Childbirth	1	3,1	3,1
BMC Psychiatry	1	4,4	4,4
BMC PUBLIC HEALTH	1	4,5	4,5
BMJ Open	4	2,9	<b>11,6</b>
BMJ-British Medical Journal	1	<b>105,7</b>	<b>105,7</b>
BONE MARROW TRANSPLANTATION	5	4,8	<b>24</b>
BRAIN BEHAVIOR AND IMMUNITY	1	<b>15,1</b>	<b>15,1</b>
Brain Sciences	1	3,3	3,3
BRAZILIAN JOURNAL OF PSYCHIATRY	1	5,5	5,5
BREAST	2	3,9	7,8
BREAST CANCER RESEARCH AND TREATMENT	2	3,8	7,6
Breast Care	1	2,1	2,1
BRITISH JOURNAL OF ANAESTHESIA	1	9,8	9,8
BRITISH JOURNAL OF CANCER	2	8,8	<b>17,6</b>
BRITISH JOURNAL OF CLINICAL PHARMACOLOGY	2	3,4	6,8
BRITISH JOURNAL OF GENERAL PRACTICE	1	5,9	5,9
BRITISH JOURNAL OF PHARMACOLOGY	1	7,3	7,3
BRITISH JOURNAL OF SURGERY	2	9,6	<b>19,2</b>
CANADIAN JOURNAL OF CARDIOLOGY	2	6,2	<b>12,4</b>
Cancer Biomarkers	1	3,1	3,1
CANCER CHEMOTHERAPY AND PHARMACOLOGY	1	3	3
CANCER EPIDEMIOLOGY	1	2,6	2,6
Cancer Medicine	1	4	4
CANCER TREATMENT REVIEWS	1	<b>11,8</b>	<b>11,8</b>

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Journal	Nº	IF	Amount IF
Cancers	17	5,2	<b>88,4</b>
CARDIOLOGY IN THE YOUNG	2	1	2
Cardiology Journal	4	2,9	<b>11,6</b>
CARDIOVASCULAR DIABETOLOGY	2	9,3	<b>18,6</b>
CARDIOVASCULAR DRUGS AND THERAPY	1	3,4	3,4
CARDIOVASCULAR RESEARCH	1	<b>10,8</b>	<b>10,8</b>
CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS	1	2,3	2,3
Cell Death & Disease	1	9	9
Cells	5	6	30
CELLULAR AND MOLECULAR LIFE SCIENCES	1	8	8
CELLULAR IMMUNOLOGY	1	4,3	4,3
CHEMICAL RESEARCH IN TOXICOLOGY	1	4,1	4,1
CHILD DEVELOPMENT PERSPECTIVES	1	6,4	6,4
Children-Basel	4	2,4	9,6
CHRONIC OBSTRUCTIVE PULMONARY DISEASES- JOURNAL OF THE COPD FOUNDATION	1	2,4	2,4
CIN-COMPUTERS INFORMATICS NURSING	1	1,3	1,3
CIRCULATION	1	<b>37,8</b>	<b>37,8</b>
CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY	2	8,4	<b>16,8</b>
CIRUGIA ESPANOLA	2	1,9	3,8
CIRUGIA Y CIRUJANOS	3	0,5	1,5
CLINICA CHIMICA ACTA	1	5	5
CLINICAL & TRANSLATIONAL ONCOLOGY	13	3,4	<b>44,2</b>
CLINICAL AND APPLIED THROMBOSIS-HEMOSTASIS	1	2,9	2,9
CLINICAL AND EXPERIMENTAL DERMATOLOGY	3	4,1	<b>12,3</b>
CLINICAL AND EXPERIMENTAL HYPERTENSION	1	<b>12,3</b>	v
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY	1	3,7	3,7

Journal	Nº	IF	Amount IF
CLINICAL BREAST CANCER	1	3,1	3,1
CLINICAL CANCER RESEARCH	3	<b>11,5</b>	<b>34,5</b>
CLINICAL DRUG INVESTIGATION	1	3,2	3,2
CLINICAL GASTROENTEROLOGY AND HEPATOLOGY	1	<b>12,6</b>	<b>12,6</b>
CLINICAL GERONTOLOGIST	2	2,8	5,6
CLINICAL INFECTIOUS DISEASES	5	<b>11,8</b>	<b>59</b>
CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	1	9,8	9,8
CLINICAL KIDNEY JOURNAL	4	4,6	<b>18,4</b>
CLINICAL MICROBIOLOGY AND INFECTION	9	<b>14,2</b>	<b>127,8</b>
CLINICAL NEPHROLOGY	1	1,1	1,1
CLINICAL NUCLEAR MEDICINE	1	<b>10,6</b>	<b>10,6</b>
CLINICAL NUTRITION	9	6,3	<b>56,7</b>
CLINICAL RESEARCH IN CARDIOLOGY	1	5	5
CLINICAL RHEUMATOLOGY	1	3,4	3,4
CLINICAL TOXICOLOGY	1	3,3	3,3
CLINICAL TRANSPLANTATION	1	2,1	2,1
CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS	1	4,4	4,4
COLORECTAL DISEASE	2	3,4	6,8
COMPARATIVE IMMUNOLOGY MICROBIOLOGY AND INFECTIOUS DISEASES	1	2	2
Complementary Therapies in Clinical Practice	1	3	3
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	1	6,1	6,1
CORONARY ARTERY DISEASE	1	1,8	1,8
CRITICAL REVIEWS IN ONCOLOGY HEMATOLOGY	1	6,2	6,2
CURRENT EYE RESEARCH	1	2	2
CURRENT MEDICAL RESEARCH AND OPINION	2	2,3	4,6
CURRENT OPINION IN INFECTIOUS DISEASES	2	3,9	7,8

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Journal	Nº	IF	Amount IF
CURRENT PROBLEMS IN CARDIOLOGY	1	4,2	4,2
Dermatitis	1	5,2	5,2
DERMATOLOGIC THERAPY	4	3,6	<b>14,4</b>
DERMATOLOGY	2	3,4	6,8
Diabetes & Vascular Disease Research	1	2,4	2,4
Diabetes Therapy	1	3,8	3,8
DIAGNOSTIC MICROBIOLOGY AND INFECTIOUS DISEASE	1	2,9	2,9
Diagnostics	1	3,6	3,6
DIGESTIVE AND LIVER DISEASE	1	4,5	4,5
DIGESTIVE ENDOSCOPY	1	5,3	5,3
DRUG SAFETY	1	4,2	4,2
DRUGS & AGING	1	2,8	2,8
EBioMedicine	1	11,1	11,1
Eclinicalmedicine	1	15,1	15,1
EJSO	3	3,8	11,4
eLife	1	7,7	7,7
EMBO MOLECULAR MEDICINE	1	<b>11,1</b>	<b>11,1</b>
Emergencias	5	5,5	<b>27,5</b>
EMERGING INFECTIOUS DISEASES	1	<b>11,8</b>	<b>11,8</b>
Emerging Microbes & Infections	1	<b>13,2</b>	<b>13,2</b>
ENDOCRINE	1	3,7	3,7
Endocrine Connections	1	2,9	2,9
ENDOCRINE-RELATED CANCER	1	3,9	3,9
Endocrinología Diabetes Y Nutrición	8	1,9	<b>15,2</b>
ENDOSCOPY	1	9,3	9,3
ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA	6	2,5	<b>15</b>
Entropy	1	2,7	2,7

Journal	Nº	IF	Amount IF
ENVIRONMENTAL HEALTH	1	6	6
ENVIRONMENTAL RESEARCH	1	8,3	8,3
EPIDEMIOLOGY AND PSYCHIATRIC SCIENCES	3	8,1	<b>24,3</b>
EPILEPSY & BEHAVIOR	1	2,6	2,6
ERJ Open Research	2	4,6	9,2
ESC heart failure	1	3,8	3,8
Esmo Open	2	7,3	<b>14,6</b>
EUROPEAN CHILD & ADOLESCENT PSYCHIATRY	7	6,4	<b>44,8</b>
European Geriatric Medicine	1	3,8	3,8
EUROPEAN HEART JOURNAL	1	<b>39,3</b>	<b>39,3</b>
European Heart Journal-Cardiovascular Imaging	3	6,2	<b>18,6</b>
European Heart Journal-Cardiovascular Pharmacotherapy	3	7,1	<b>21,3</b>
EUROPEAN JOURNAL OF CANCER	5	8,4	<b>42</b>
EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY	2	3,4	6,8
EUROPEAN JOURNAL OF CLINICAL INVESTIGATION	1	5,5	5,5
EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES	1	4,5	4,5
EUROPEAN JOURNAL OF CLINICAL NUTRITION	2	4,7	9,4
EUROPEAN JOURNAL OF DERMATOLOGY	9	2,5	<b>22,5</b>
EUROPEAN JOURNAL OF EMERGENCY MEDICINE	1	4,4	4,4
EUROPEAN JOURNAL OF HEART FAILURE	1	<b>18,2</b>	<b>18,2</b>
EUROPEAN JOURNAL OF HOSPITAL PHARMACY	1	1,7	1,7
EUROPEAN JOURNAL OF IMMUNOLOGY	2	5,4	<b>10,8</b>
EUROPEAN JOURNAL OF INTERNAL MEDICINE	3	8	<b>24</b>
EUROPEAN JOURNAL OF NEUROLOGY	2	5,1	<b>10,2</b>
EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING	1	9,1	9,1
EUROPEAN JOURNAL OF PEDIATRIC SURGERY	1	1,8	1,8

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Journal	N°	IF	Amount IF
EUROPEAN JOURNAL OF PEDIATRICS	8	3,6	<b>28,8</b>
European Journal of Preventive Cardiology	2	8,3	<b>16,6</b>
EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY	5	2,1	<b>10,5</b>
EUROPEAN NEUROPSYCHOPHARMACOLOGY	6	5,6	<b>33,6</b>
EUROPEAN PSYCHIATRY	2	7,8	<b>15,6</b>
EUROPEAN RADIOLOGY	1	5,9	5,9
EUROPEAN RESPIRATORY JOURNAL	2	<b>24,3</b>	<b>48,6</b>
European Thyroid Journal	1	4,7	4,7
EUROPEAN UROLOGY	2	<b>23,4</b>	<b>46,8</b>
Eurosurveillance	3	<b>19</b>	<b>57</b>
EXPERIMENTAL DERMATOLOGY	1	3,6	3,6
EXPERIMENTAL GERONTOLOGY	2	3,9	7,8
EXPERT OPINION ON BIOLOGICAL THERAPY	1	4,6	4,6
EXPERT OPINION ON DRUG METABOLISM & TOXICOLOGY	1	4,3	4,3
EXPERT OPINION ON DRUG SAFETY	1	3,1	3,1
EXPERT OPINION ON INVESTIGATIONAL DRUGS	1	6,1	6,1
Expert Review of Hematology	1	2,8	2,8
EXPERT REVIEW OF MOLECULAR DIAGNOSTICS	1	5,1	5,1
EXPERT REVIEW OF PHARMACOECONOMICS & OUTCOMES RESEARCH	2	2,3	4,6
Foot and Ankle Surgery	3	2,5	7,5
Frontiers in Cardiovascular Medicine	10	3,6	<b>36</b>
Frontiers in Cell and Developmental Biology	2	5,5	<b>11</b>
Frontiers in Cellular and Infection Microbiology	2	5,7	<b>11,4</b>
Frontiers in Endocrinology	2	5,2	<b>10,4</b>
Frontiers in Genetics	1	3,7	3,7
Frontiers in Immunology	15	7,3	<b>109,5</b>

Journal	N°	IF	Amount IF
Frontiers In Medicine	6	3,9	<b>23,4</b>
Frontiers in Microbiology	4	5,2	<b>20,8</b>
Frontiers in Neuroscience	1	4,3	4,3
Frontiers in Oncology	8	4,7	<b>37,6</b>
Frontiers In Pediatrics	7	2,6	<b>18,2</b>
Frontiers in Pharmacology	3	5,6	<b>16,8</b>
Frontiers in Physiology	4	4	<b>16</b>
Frontiers in Psychiatry	2	4,7	9,4
FRONTIERS IN PSYCHOLOGY	1	3,8	3,8
Frontiers in Public Health	1	5,2	5,2
Future Oncology	1	3,3	3,3
FUTURE VIROLOGY	1	3,1	3,1
GACETA SANITARIA	1	1,9	1,9
Games for Health Journal	2	3,5	7
Gastroenterologia y Hepatologia	3	1,9	5,7
Gland Surgery	1	1,8	1,8
GUT	1	<b>24,5</b>	<b>24,5</b>
HAEMATOLOGICA	1	<b>10,1</b>	<b>10,1</b>
HEALTH & SOCIAL CARE IN THE COMMUNITY	1	2,4	2,4
Healthcare	2	2,8	5,6
HEART	2	5,7	<b>11,4</b>
Hepatology Communications	2	5,1	<b>10,2</b>
HEPATOLOGY INTERNATIONAL	1	6,6	6,6
HISTOPATHOLOGY	1	6,4	6,4
HIV MEDICINE	3	3	9
HUMAN BRAIN MAPPING	4	4,8	<b>19,2</b>
Human Fertility	1	1,9	1,9
HUMAN IMMUNOLOGY	2	2,7	5,4

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Journal	Nº	IF	Amount IF
HUMAN MOLECULAR GENETICS	1	3,5	3,5
IEEE Access	2	3,9	7,8
IEEE Journal of Biomedical and Health Informatics	2	7,7	<b>15,4</b>
IEEE TRANSACTIONS ON INFORMATION THEORY	3	2,5	7,5
IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY	1	6,8	6,8
IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS	1	<b>10,4</b>	<b>10,4</b>
INDIAN JOURNAL OF PEDIATRICS	1	4,3	4,3
INFECTION	1	7,5	7,5
INFECTIOUS DISEASES	1	5,8	5,8
Infectious Diseases and Therapy	3	5,4	<b>16,2</b>
INFLAMMATORY BOWEL DISEASES	1	4,9	4,9
INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED	1	2,5	2,5
INTENSIVE CARE MEDICINE	3	<b>38,9</b>	<b>116,7</b>
INTERNAL AND EMERGENCY MEDICINE	1	4,6	4,6
International Journal for Numerical Methods in Biomedical Engineering	1	2,1	2,1
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS	1	<b>10,8</b>	<b>10,8</b>
International Journal of Chronic Obstructive Pulmonary Disease	1	2,8	2,8
INTERNATIONAL JOURNAL OF DERMATOLOGY	1	3,6	3,6
International Journal of Diabetes in Developing Countries	1	0,9	0,9
INTERNATIONAL JOURNAL OF GERIATRIC PSYCHIATRY	1	4	4
INTERNATIONAL JOURNAL OF HEMATOLOGY	1	2,1	2,1
INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH	1	2,6	2,6
INTERNATIONAL JOURNAL OF INFECTIOUS DISEASES	2	8,4	<b>16,8</b>

Journal	Nº	IF	Amount IF
International Journal of Medical Sciences	1	3,6	3,6
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	12	5,6	<b>67,2</b>
INTERNATIONAL JOURNAL OF NEUROPSYCHOPHARMACOLOGY	1	4,8	4,8
INTERNATIONAL JOURNAL OF NURSING PRACTICE	1	1,9	1,9
INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY	1	2,4	2,4
INTERNATIONAL JOURNAL OF PEDIATRIC OTORHINOLARYNGOLOGY	1	1,5	1,5
International Journal of Rheumatic Diseases	1	2,5	2,5
INTERNATIONAL JOURNAL OF SURGICAL PATHOLOGY	1	1,2	1,2
INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASE	1	4	4
INTERNATIONAL JOURNAL OF UROLOGY	1	2,6	2,6
INTERNATIONAL ORTHOPAEDICS	1	2,7	2,7
INTERNATIONAL PSYCHOGERIATRICS	1	7	7
INTERNATIONAL UROLOGY AND NEPHROLOGY	1	2	2
iScience	1	5,8	5,8
JACC-Cardiovascular Imaging	1	<b>14</b>	<b>14</b>
JACC-Heart Failure	1	<b>13</b>	<b>13</b>
JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES	3	3,6	<b>10,8</b>
JAMA Internal Medicine	1	<b>39</b>	<b>39</b>
JAMA Oncology	1	<b>28,4</b>	<b>28,4</b>
JCR-JOURNAL OF CLINICAL RHEUMATOLOGY	2	3,4	6,8
JMIR mHealth and uHealth	2	5	10
Journal for ImmunoTherapy of Cancer	2	<b>10,9</b>	<b>21,8</b>
JOURNAL OF AAPOS	1	1,6	1,6
Journal of Affective Disorders	3	6,6	<b>19,8</b>

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Journal	N°	IF	Amount IF
Journal of Allergy and Clinical Immunology-In Practice	3	9,4	<b>28,2</b>
JOURNAL OF ALZHEIMERS DISEASE	1	4	4
JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY	8	5,2	<b>41,6</b>
JOURNAL OF ATTENTION DISORDERS	1	3	3
JOURNAL OF AUTISM AND DEVELOPMENTAL DISORDERS	1	3,9	3,9
JOURNAL OF CANCER SURVIVORSHIP	1	3,7	3,7
JOURNAL OF CARDIOPULMONARY REHABILITATION AND PREVENTION	1	3,8	3,8
Journal of Cardiovascular Development and Disease	2	2,4	4,8
JOURNAL OF CARDIOVASCULAR ELECTROPHYSIOLOGY	1	2,7	2,7
Journal of Clinical Medicine	38	3,9	<b>148,2</b>
JOURNAL OF CLINICAL MICROBIOLOGY	1	9,4	9,4
JOURNAL OF CLINICAL NEUROSCIENCE	1	2	2
JOURNAL OF CLINICAL ONCOLOGY	4	<b>45,3</b>	<b>181,2</b>
JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS	2	2	4
Journal of Clinical Sleep Medicine	2	4,3	8,6
JOURNAL OF COGNITION AND DEVELOPMENT	1	2,1	2,1
JOURNAL OF COLLOID AND INTERFACE SCIENCE	1	9,9	9,9
JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY	1	3,1	3,1
JOURNAL OF CROHNS & COLITIS	2	8	<b>16</b>
JOURNAL OF DERMATOLOGICAL TREATMENT	1	2,9	2,9
JOURNAL OF ENDOVASCULAR THERAPY	1	2,6	2,6
Journal of Fungi	3	4,7	<b>14,1</b>
JOURNAL OF GENERAL INTERNAL MEDICINE	2	5,7	<b>11,4</b>
JOURNAL OF GENERAL PHYSIOLOGY	1	3,8	3,8

Journal	N°	IF	Amount IF
Journal of Geriatric Cardiology	2	2,5	5
JOURNAL OF HAND SURGERY-EUROPEAN VOLUME	2	1,8	3,6
JOURNAL OF HEPATOLOGY	4	<b>25,7</b>	<b>102,8</b>
JOURNAL OF HOSPITAL INFECTION	1	6,9	6,9
JOURNAL OF HYPERTENSION	1	4,9	4,9
JOURNAL OF INFECTION	2	<b>28,2</b>	<b>56,4</b>
JOURNAL OF INNATE IMMUNITY	2	5,3	<b>10,6</b>
JOURNAL OF INTENSIVE CARE MEDICINE	1	3,1	3,1
JOURNAL OF INTERNAL MEDICINE	1	<b>11,1</b>	<b>11,1</b>
JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY	3	7,2	<b>21,6</b>
JOURNAL OF INVESTIGATIVE DERMATOLOGY	2	6,5	<b>13</b>
JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES	1	1,3	1,3
JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE	4	1,8	7,2
Journal of Medical Economics	1	2,4	2,4
JOURNAL OF MEDICAL INTERNET RESEARCH	2	7,4	<b>14,8</b>
JOURNAL OF MENTAL HEALTH	1	3,3	3,3
JOURNAL OF MINIMALLY INVASIVE GYNECOLOGY	1	4,1	4,1
JOURNAL OF NANOBIO TECHNOLOGY	2	<b>10,2</b>	<b>20,4</b>
JOURNAL OF NEUROINFLAMMATION	1	9,3	9,3
JOURNAL OF NEUROLOGY	1	6	6
JOURNAL OF NEUROSCIENCE	1	5,3	5,3
JOURNAL OF NEUROSCIENCE NURSING	1	2,3	2,3
JOURNAL OF ONCOLOGY PHARMACY PRACTICE	1	1,3	1,3
JOURNAL OF ORAL PATHOLOGY & MEDICINE	1	3,3	3,3
Journal of Orthopaedic Surgery and Research	1	2,6	2,6
Journal of Pain Research	1	2,7	2,7

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Journal	Nº	IF	Amount IF
JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION	2	2,9	5,8
JOURNAL OF PEDIATRIC SURGERY	1	2,4	2,4
Journal of Pediatric Urology	1	2	2
JOURNAL OF PEDIATRICS	1	5,1	5,1
JOURNAL OF PERINATAL MEDICINE	1	2,4	2,4
JOURNAL OF PHYSICS A-MATHEMATICAL AND THEORETICAL	1	2,1	2,1
JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY	4	2,7	<b>10,8</b>
JOURNAL OF PSYCHIATRIC RESEARCH	4	4,8	<b>19,2</b>
JOURNAL OF SLEEP RESEARCH	1	4,4	4,4
Journal of Stomatology Oral and Maxillofacial Surgery	1	2,2	2,2
JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY	1	<b>13,8</b>	<b>13,8</b>
JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY	8	<b>24</b>	<b>192</b>
JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	1	<b>13,6</b>	<b>13,6</b>
JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY	5	9,2	<b>46</b>
Journal of the International AIDS Society	2	6	<b>12</b>
JOURNAL OF THE NEUROLOGICAL SCIENCES	1	4,4	4,4
Journal of the Pediatric Infectious Diseases Society	2	3,2	6,4
Journal of Thoracic Disease	1	2,5	2,5
JOURNAL OF THROMBOSIS AND HAEMOSTASIS	1	<b>10,4</b>	<b>10,4</b>
JOURNAL OF THROMBOSIS AND THROMBOLYSIS	1	4	4
JOURNAL OF TRACE ELEMENTS IN MEDICINE AND BIOLOGY	1	3,5	3,5
JOURNAL OF TRAVEL MEDICINE	1	<b>25,7</b>	<b>25,7</b>
JOURNAL OF ULTRASOUND IN MEDICINE	2	2,3	4,6

Journal	Nº	IF	Amount IF
JOURNAL OF VASCULAR SURGERY	1	4,3	4,3
JOURNAL OF VIRAL HEPATITIS	2	2,5	5
JOURNALS OF GERONTOLOGY SERIES A-BIOLOGICAL SCIENCES AND MEDICAL SCIENCES	1	5,1	5,1
Jove-Journal of Visualized Experiments	1	1,2	1,2
Kidney International Reports	1	6	6
KOREAN JOURNAL OF INTERNAL MEDICINE	1	2,4	2,4
LANCET	1	<b>168,9</b>	<b>168,9</b>
LANCET CHILD & ADOLESCENT HEALTH	1	<b>36,4</b>	<b>36,4</b>
Lancet Haematology	1	<b>24,7</b>	<b>24,7</b>
LANCET INFECTIOUS DISEASES	1	<b>56,3</b>	<b>56,3</b>
Lancet Microbe	1	<b>38,2</b>	<b>38,2</b>
LANCET ONCOLOGY	4	<b>51,1</b>	<b>204,4</b>
Lancet Psychiatry	4	<b>64,3</b>	<b>257,2</b>
Lancet Respiratory Medicine	2	<b>76,2</b>	<b>152,4</b>
LANGENBECKS ARCHIVES OF SURGERY	2	2,3	4,6
LASERS IN MEDICAL SCIENCE	1	2,1	2,1
LEUKEMIA	1	<b>11,4</b>	<b>11,4</b>
LEUKEMIA & LYMPHOMA	4	2,6	<b>10,4</b>
Life Science Alliance	1	4,4	4,4
LIVER INTERNATIONAL	2	6,7	<b>13,4</b>
LIVER TRANSPLANTATION	3	4,6	<b>13,8</b>
LUNG CANCER	1	5,3	5,3
MAGNETIC RESONANCE IN MEDICINE	1	3,3	3,3
MEDICAL MYCOLOGY	2	2,9	5,8
MEDICINA CLINICA	6	3,9	<b>23,4</b>
Medicina Intensiva	3	3	9
MEDICINA ORAL PATOLOGIA ORAL Y CIRUGIA BUCAL	1	2,2	2,2

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Journal	N°	IF	Amount IF
MEDICINA-LITHUANIA	4	2,6	<b>10,4</b>
MEDICINE	1	1,6	1,6
Metabolites	1	4,1	4,1
Microbiology spectrum	8	3,7	<b>29,6</b>
Microorganisms	2	4,5	9
MICROPROCESSORS AND MICROSYSTEMS	1	2,6	2,6
MINERVA ANESTESIOLOGICA	1	3,2	3,2
Minerva Pediatrics	1	2,6	2,6
Minerva Surgery	1	1,4	1,4
Molecular Autism	1	6,2	6,2
MOLECULAR CANCER THERAPEUTICS	1	5,7	5,7
MOLECULAR PSYCHIATRY	6	11	66
Molecular Therapy-Nucleic Acids	1	8,8	8,8
MOVEMENT DISORDERS	2	8,6	<b>17,2</b>
Multiple Sclerosis and Related Disorders	3	4	<b>12</b>
MYCOSES	2	4,9	9,8
Nanomaterials	1	5,3	5,3
Nanotechnology Reviews	1	7,4	7,4
NATURE	1	<b>64,8</b>	<b>64,8</b>
Nature and Science of Sleep	2	3,4	6,8
NATURE BIOTECHNOLOGY	1	<b>46,9</b>	<b>46,9</b>
NATURE NEUROSCIENCE	1	<b>25</b>	<b>25</b>
NEFROLOGIA	7	2,6	<b>18,2</b>
Neonatology	2	2,5	5
NEPHROLOGY DIALYSIS TRANSPLANTATION	3	6,1	<b>18,3</b>
Neural Regeneration Research	1	6,1	6,1
NEUROCIROGIA	1	0,8	0,8
NEUROCOMPUTING	1	6	6

Journal	N°	IF	Amount IF
NEUROENDOCRINOLOGY	1	4,1	4,1
NeuroImage-Clinical	1	4,2	4,2
NEUROINFORMATICS	1	3	3
NEUROLOGIA	7	3,9	<b>27,3</b>
NEUROLOGICAL SCIENCES	1	3,3	3,3
NEUROLOGY	1	9,9	9,9
Neurology and Therapy	2	3,7	7,4
Neurology-Neuroimmunology & Neuroinflammation	2	8,8	<b>17,6</b>
Neuropsychiatric Disease and Treatment	2	3,2	6,4
NEURORADIOLOGY	1	2,8	2,8
NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS	1	8,2	8,2
NEW ENGLAND JOURNAL OF MEDICINE	1	<b>158,5</b>	<b>158,5</b>
npj Precision Oncology	1	7,9	7,9
Nurse Education in Practice	1	3,2	3,2
NURSING ETHICS	1	4,2	4,2
Nursing Open	2	2,3	4,6
NUTRICION HOSPITALARIA	12	1,2	<b>14,4</b>
Nutrients	4	5,9	<b>23,6</b>
NUTRITION IN CLINICAL PRACTICE	2	3,1	6,2
Open Forum Infectious Diseases	3	4,2	<b>12,6</b>
ORAL ONCOLOGY	1	4,8	4,8
ORTHOPAEDICS & TRAUMATOLOGY-SURGERY & RESEARCH	1	2,3	2,3
PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY	1	1,8	1,8
Pathogens	2	3,7	7,4
Patient Preference and Adherence	1	2,2	2,2
PEDIATRIC DERMATOLOGY	1	1,5	1,5
PEDIATRIC EMERGENCY CARE	4	1,4	5,6

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Journal	Nº	IF	Amount IF
PEDIATRIC INFECTIOUS DISEASE JOURNAL	9	3,6	<b>32,4</b>
PEDIATRIC NEPHROLOGY	1	3	3
PEDIATRIC PULMONOLOGY	3	3,1	9,3
PEDIATRIC RESEARCH	1	3,6	3,6
PEDIATRIC SURGERY INTERNATIONAL	1	1,8	1,8
PEDIATRIC TRANSPLANTATION	1	1,3	1,3
Pharmaceuticals	1	4,6	4,6
Pharmaceutics	2	5,4	<b>10,8</b>
PHARMACOLOGY & THERAPEUTICS	1	<b>13,5</b>	<b>13,5</b>
PHARMACOPSYCHIATRY	1	4,3	4,3
PHYSICS IN MEDICINE AND BIOLOGY	1	3,5	3,5
PLoS One	9	3,7	<b>33,3</b>
PROGRESS IN BIOPHYSICS & MOLECULAR BIOLOGY	1	3,8	3,8
PROGRESS IN NEURO-PSYCHOPHARMACOLOGY & BIOLOGICAL PSYCHIATRY	2	5,6	<b>11,2</b>
PSYCHIATRY RESEARCH	1	<b>11,3</b>	<b>11,3</b>
PSYCHOLOGICAL MEDICINE	12	6,9	<b>82,8</b>
PSYCHOPATHOLOGY	1	3,6	3,6
RADIOTHERAPY AND ONCOLOGY	1	5,7	5,7
REPRODUCTIVE SCIENCES	1	2,9	2,9
RESEARCH IN MICROBIOLOGY	1	2,6	2,6
RESPIRATORY MEDICINE	2	4,3	8,6
RESPIRATORY RESEARCH	2	5,8	<b>11,6</b>
RESUSCITATION	1	6,5	6,5
Retrovirology	1	3,3	3,3
REVIEWS IN CARDIOVASCULAR MEDICINE	2	2,7	5,4
REVIEWS IN ENDOCRINE & METABOLIC DISORDERS	1	8,2	8,2

Journal	Nº	IF	Amount IF
REVISTA CLINICA ESPANOLA	1	2,9	2,9
REVISTA DE NEUROLOGIA	2	1,2	2,4
REVISTA DE PSIQUIATRIA Y SALUD MENTAL	1	9,2	9,2
REVISTA ESPANOLA DE CARDIOLOGIA	14	5,9	<b>82,6</b>
REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS	3	2	6
Revista Espanola de Medicina Nuclear e Imagen Molecular	5	1,2	6
REVISTA ESPANOLA DE QUIMIOTERAPIA	17	1,9	<b>32,3</b>
REVISTA ESPANOLA DE SALUD PUBLICA	2	1,1	2,2
Revista Internacional de Andrologia	1	0,8	0,8
REVISTA LATINOAMERICANA DE HIPERTENSION	1	0,1	0,1
Revista Portuguesa de Cardiologia	1	1,8	1,8
RHEUMATOLOGY	2	5,5	<b>11</b>
Rheumatology and Therapy	1	3,8	3,8
Rmd Open	3	6,2	<b>18,6</b>
SCANDINAVIAN JOURNAL OF RHEUMATOLOGY	1	2,1	2,1
SCHIZOPHRENIA BULLETIN	4	6,6	<b>26,4</b>
SCHIZOPHRENIA RESEARCH	4	4,5	<b>18</b>
Scientific Reports	10	4,6	<b>46</b>
SEIZURE-EUROPEAN JOURNAL OF EPILEPSY	2	3	6
SEMINARS IN ARTHRITIS AND RHEUMATISM	1	5	5
SENSORS	1	3,9	3,9
Small	1	<b>13,3</b>	<b>13,3</b>
STATISTICS IN MEDICINE	1	2	2
SUPPORTIVE CARE IN CANCER	1	3,1	3,1
SURGERY	2	3,8	7,6
SURGERY TODAY	1	2,5	2,5
Techniques in Coloproctology	1	3,3	3,3

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Journal	N°	IF	Amount IF
TELEMEDICINE AND E-HEALTH	2	4,7	9,4
Therapeutic Advances in Neurological Disorders	1	5,9	5,9
THERAPEUTIC APHERESIS AND DIALYSIS	1	1,9	1,9
THORAX	3	10	<b>30</b>
THROMBOSIS AND HAEMOSTASIS	3	6,7	<b>20,1</b>
TOBACCO INDUCED DISEASES	1	3,7	3,7
TRANSBOUNDARY AND EMERGING DISEASES	3	4,3	<b>12,9</b>
TRANSFUSION	2	2,9	5,8
Translational Psychiatry	2	6,8	<b>13,6</b>
TRANSPLANT INFECTIOUS DISEASE	2	2,6	5,2
TRANSPLANT INTERNATIONAL	2	3,1	6,2
TRANSPLANTATION	4	6,2	<b>24,8</b>
Transplantation And Cellular Therapy	3	3,2	9,6
TRANSPLANTATION PROCEEDINGS	1	0,9	0,9
TRENDS IN CARDIOVASCULAR MEDICINE	2	9,3	<b>18,6</b>
Trials	1	2,5	2,5

Journal	N°	IF	Amount IF
ULTRASOUND IN MEDICINE AND BIOLOGY	1	2,9	2,9
United European Gastroenterology Journal	2	6	<b>12</b>
Updates in Surgery	2	2,6	5,2
UROLOGIA INTERNATIONALIS	1	1,6	1,6
UROLOGIC ONCOLOGY-SEMINARS AND ORIGINAL INVESTIGATIONS	1	2,7	2,7
Vaccines	1	7,8	7,8
VALUE IN HEALTH	1	4,5	4,5
VASCULAR MEDICINE	1	3,5	3,5
Virulence	1	5,2	5,2
Viruses-Basel	3	4,7	<b>14,1</b>
Wiley Interdisciplinary Reviews-Nanomedicine and Nanobiotechnology	1	8,6	8,6
WORLD JOURNAL OF BIOLOGICAL PSYCHIATRY	2	3,1	6,2
WORLD JOURNAL OF SURGERY	1	2,6	2,6
World Psychiatry	1	<b>73,3</b>	<b>73,3</b>
Total general	<b>1166</b>	<b>168,9</b>	<b>7730,7</b>





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	22	16	7	21	14	3	0	4	42
		FI	108,8	101,3	62,2	149	54,1	7	0		210,1
1.02	Signal processing	Nº	5	6	2	3	5	3	0	1	12
		FI	27,8	25,9	18,1	24,9	21,3	7,5	0		53,7
1.03	Computer architecture, communications, and systems: ARCOS	Nº	5	1	0	1	3	1	1	10	16
		FI	13,2	4,4	-	4,4	9,4	2,7	1,1		17,6
1.04	Nonparametric statistics and intensive computing	Nº	1	0	0	0	1	0	0	0	1
		FI	2	0	-	0	2	0	0		2
1.05	Structural and Functional Medical Imaging	Nº	2	15	1	5	6	5	1	3	20
		FI	4,2	62	6,5	28	21,5	14,6	2,1		66,2
2.01	Natural history of heart disease	Nº	38	57	18	42	26	16	11	11	106
		FI	222,4	409,8	320,2	467	101,2	43,3	20,7		632,2
2.02	Cardiovascular pathophysiology	Nº	4	3	3	4	2	0	1	0	7
		FI	23,2	12	21,3	26,9	7,2	0	1,1		35,2
2.03	Cardiac cellular electrophysiology	Nº	10	2	6	10	2	0	0	3	15
		FI	109,2	10,5	84,9	110,3	9,4	0	0		119,7
2.05	Cardiology and heart transplantation in infants	Nº	6	10	1	11	0	2	3	8	24
		FI	24	66,5	24	83,5	0	3,7	3,3		90,5

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			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)
2.06	Blood lipids and cardiovascular risk	Nº	14	24	2	13	21	4	0	3	41
		FI	61,7	154,3	46,7	123,1	81,3	11,6	0		216
2.07	Acute cerebral ischemia. Stroke	Nº	4	3	0	0	6	0	1	0	7
		FI	11,9	10,4	-	0	21,1	0	1,2		22,3
3.01	Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment	Nº	19	82	37	72	22	6	1	10	111
		FI	163	763,1	603,1	819	89,3	16,7	1,1		926,1
3.03B	Neurological diseases	Nº	8	28	6	11	19	4	2	4	40
		FI	27,6	128,1	45,7	75,6	66,5	10,4	3,2		155,7
4.01	Infectious diseases	Nº	64	52	27	51	38	5	22	11	127
		FI	395,3	361	407,9	540,2	156,9	14,8	44,4		756,3
4.02	Clinical and epidemiological aspects of HIV infection and associated conditions	Nº	9	25	9	15	6	9	4	1	35
		FI	50,8	307,4	259,6	299,2	24,6	27,9	6,5		358,2
5.01	Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Nº	9	17	4	15	7	2	2	0	26
		FI	41,5	321,9	260,8	321,1	31,7	5,2	5,4		363,4
5.02	Molecular biology of HIV	Nº	10	15	1	16	5	3	1	2	27
		FI	61,6	75,9	10,2	108,1	18,8	8,4	2,2		137,5
5.03	Systemic autoimmune diseases	Nº	10	6	2	6	4	5	1	15	31
		FI	82,3	34	54,8	80	16,5	17,7	2,1		116,3

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			Own Publications	Shared Publications (with IF)	1D Publications	1Q Publications	2Q Publications	3Q Publications	4Q Publications	Not indexed Publications (without IF)	TOTAL (with IF included)
5.05	Pathogenesis of the immunoallergic response	Nº	5	6	3	10	1	0	0	0	11
		FI	39,1	57,4	37,2	90,6	5,9	0	0	0	96,5
5.06	Immune regulation and homeostasis in diseases of the immune system	Nº	8	7	1	8	5	1	1	1	16
		FI	40,2	79	46,9	93,8	20,3	2,9	2,2		119,2
5.07	Infections in pediatric patients	Nº	32	41	7	30	11	22	10	12	85
		FI	158,8	258,8	185,2	308,5	37,9	53,6	17,6		417,6
6.01	Interdisciplinary oncology and biotechnology	Nº	11	19	5	9	10	3	8	8	38
		FI	100,3	122,7	147,8	167	38,2	8,4	9,4		223
6.02	Translational medical oncology and personalized cancer therapy	Nº	21	51	13	35	18	16	3	9	81
		FI	116,4	562,3	388,5	541,3	85,4	48,1	3,9		678,7
6.03	Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation	Nº	20	43	9	28	18	12	5	5	68
		FI	95,9	266,3	105,8	246,1	73,7	31,4	11		362,2
6.04	Surgical oncology	Nº	3	3	0	4	1	0	1	3	9
		FI	11,1	7,7	-	14,5	3,8	0	0,5		18,8
7.01	Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	Nº	5	21	3	13	4	7	2	6	32
		FI	17,3	113	37,4	91,9	17,5	17,8	3,1		130,3

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			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)
7.02	Pathophysiology and natural history of liver and digestive diseases	Nº	19	40	18	34	13	3	9	2	61
		FI	93,6	349,8	258,2	361,6	58,1	8,1	15,6		443,4
7.04	Diseases of the critically ill child	Nº	13	10	3	6	10	7	0	4	27
		FI	47,6	71,3	59,6	72,3	29,2	17,4	0		118,9
7.05B	Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insufficiency and respiratory disorders of sleep	Nº	11	25	1	10	23	1	2	4	40
		FI	52,8	188,4	76,2	142,2	93,3	2,8	2,9		241,2
7.06	Regenerative medicine in plastic surgery	Nº	2	3	0	1	3	1	0	0	5
		FI	4,2	16,5	-	8,6	10,6	1,5	0		20,7
7.07	Experimental kidney transplantation	Nº	7	3	0	0	2	1	7	1	11
		FI	6,8	12,5	-	0	9,9	2,6	6,8		19,3
7.10	Regeneration and biomaterials in musculoskeletal disease	Nº	5	7	0	1	10	1	0	7	19
		FI	12,4	24,4	-	4,8	30,2	1,8	0		36,8
7.12	Emergency medicine	Nº	0	2	2	2	0	0	0	0	2
		FI	0	35,4	35,4	35,4	0	0	0		35,4
7.16B	Pathophysiology of the cardiovascular system and circulatory support	Nº	2	9	2	5	4	1	1	6	17
		FI	11	35,2	11,3	25,8	16,2	2,4	1,8		46,2
7.18	Peritransplant evaluation (liver)	Nº	1	2	0	1	0	0	2	0	3
		FI	6,7	1,4	-	6,7	0	0	1,4		8,1

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			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)
7.20	Anesthesia, toxins, and arrhythmias	Nº	1	0	0	0	1	0	0	2	3
		FI	3,3	0	-	0	3,3	0	0		3,3
7.21	Biopathology of aging	Nº	1	5	0	1	2	2	1	1	7
		FI	4	18,3	-	5,9	7,9	6,6	1,9		22,3
7.22	Pathophysiology of the neonate and developing child	Nº	13	15	1	8	6	11	3	10	38
		FI	33,6	46,9	4,4	35,8	15,7	22,9	6,1		80,5
7.26	Evaluation of health services and clinical epidemiology	Nº	1	4	1	1	2	1	1	1	6
		FI	1,1	29,6	19	19	8,5	2,1	1,1		30,7
7.27	Hospital pharmacy and pharmacogenomics	Nº	20	13	4	11	8	6	8	11	44
		FI	86,2	57	36,5	76	35,2	17,3	14,7		143,2
7.28	Clinical nutrition	Nº	10	20	1	11	1	2	16	6	36
		FI	46,5	58,7	8,2	70,9	4,7	6,2	23,4		105,2
7.29	Vascular pathophysiology and pharmacology	Nº	3	1	1	3	1	0	0	0	4
		FI	21,2	7	7	22,2	6	0	0		28,2
7.31	Pathophysiology in women, pregnancy, labor, and puerperium	Nº	10	15	1	10	10	5	0	8	33
		FI	41,4	66,2	7	56,1	37,5	14	0		107,6
7.32	Physical medicine and rehabilitation	Nº	2	1	0	0	3	0	0	4	7
		FI	7,4	3	-	0	10,4	0	0		10,4
7.33	Pathological Anatomy	Nº	0	10	2	3	3	2	2	2	12
		FI	0	31,6	12,9	17	8,7	4,6	1,3		31,6

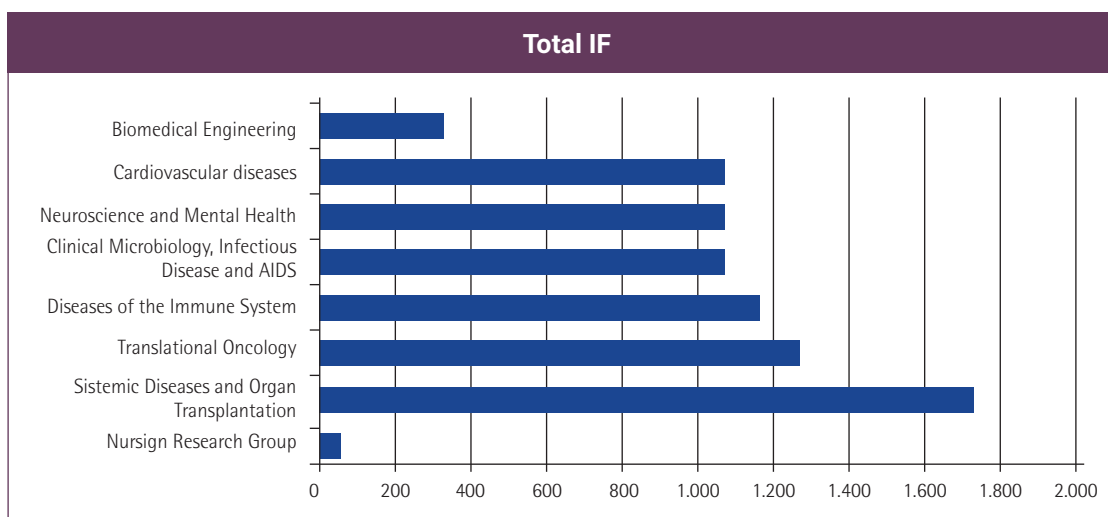
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			Own Publications	Shared Publications (with IF)	1D Publications	1Q Publications	2Q Publications	3Q Publications	4Q Publications	Not indexed Publications (without IF)	TOTAL (with IF included)
7.34	Multimorbidity, chronic diseases and health services. Primary Care	Nº	6	4	1	4	4	2	0	2	12
		FI	18,2	16,8	5,9	16,4	14,2	4,4	0		35
7.35	Translational dermatology: Research and innovation	Nº	9	18	7	13	11	2	1	8	35
		FI	38,2	88,4	64,5	91,4	29,9	3,8	1,5		126,6
8.01	Research in nursing	Nº	7	8	3	8	4	2	1	7	22
		FI	21,9	39,4	15,2	45,3	12	3,3	0,7		61,3





## 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 held online since May 2020. Next year, the aim is to return to face-to-face format.

During 2022, the IISGM Training Committee continued working along the same lines as in previous years to detect specific needs in training.

After requesting information from IISGM researchers by means of a needs analysis, we assessed the results and decided on the areas that were most relevant for the Institute. These can be seen in the Training Plan 2022 (<http://www.iisgm.com/actualidad/convocatorias-y-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 2022, the IISGM intended to offer the following training opportunities among those periodically organized by the Institute (see Figure):

- Basic Course in Research Methodology, which tries to cover the needs detected for training in basic areas of methodology in the needs analysis. This essentially practical course lasts 20 hours and is aimed mainly at medical residents and staff members who are in the early stages of their research career. Based on a case study, the course addresses review of information sources, design of a research project and database, and basic concepts of statistical analysis, interpretation and representation of results, as well as the synthesis and reporting of the information obtained.
- Course in Biomedical Research Methodology, which is organized into 4 modules lasting 80 hours. The course provides advanced training in the basics of biomedical research methodology. The format of the course enables it to cover all areas from the initial research hypothesis to publication of results.

- 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 post-graduate training for veterinarians.

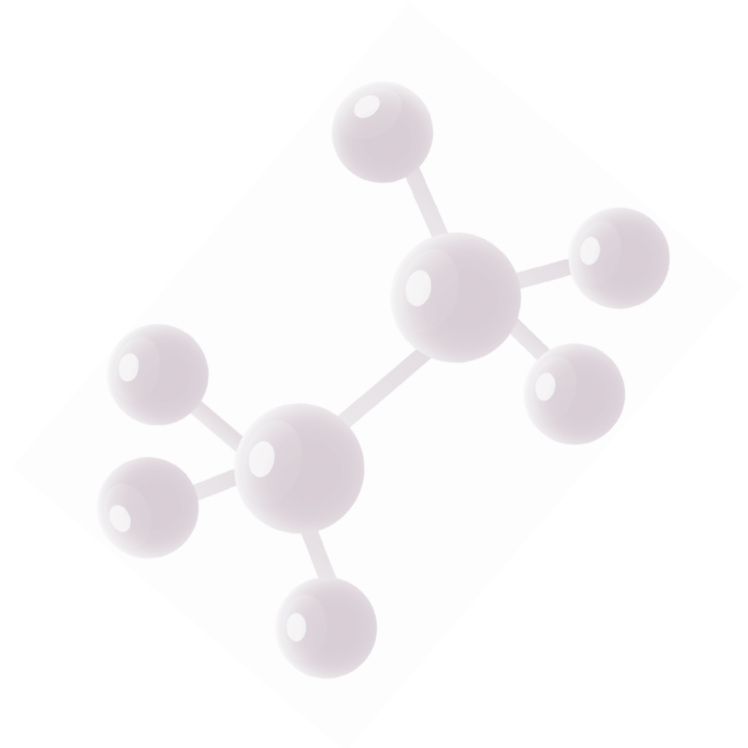
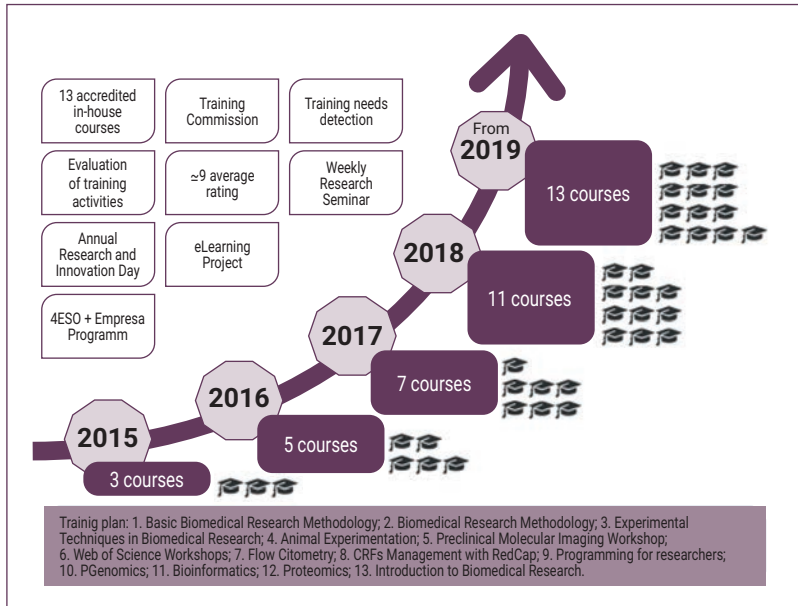
Furthermore, the IISGM Weekly Research Seminars Program is continuing, with with sessions every Wednesday of the year covering areas of basic research, clinical medicine, and practical aspects of research, as well as with the participation of guest researchers. This forum is considered by the Institute 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.

Other courses provided included the following:

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



## Training 2022





## Clinical Practice Guidelines

Group	Authors	Title	Journal/Reference
201	Martínez-Sellés M, Hernández-Pérez FJ, Uribarri A, Martín Villén L, Zapata L, Alonso JJ, Amat-Santos IJ, Ariza-Solé A, Barrabés JA, Barrio JM, Canteli Á, Alonso-Fernández-Gatta M, Corbí Pascual MJ, Díaz D, Crespo-Leiro MG, de la Torre-Hernández JM, Ferrera C, García González MJ, García-Carreño J, García-Guereta L, García Quintana A, Jorge Pérez P, González-Juanatey JR, López de Sá E, Sánchez PL, Monteagudo M, Palomo López N, Reyes G, Rosell F, Solla Buceta MA, Segovia-Cubero J, Sionis Green A, Stepanenko A, Iglesias Álvarez D, Viana Tejedor A, Voces R, Fuset Cabanes MP, Gimeno Costa JR, Díaz J, Fernández-Avilés F	Cardiogenic shock code 2023. Expert document for a multidisciplinary organization that allows quality care	Rev Esp Cardiol. 2022 Dec 21:S1885-5857(22)00330-9.
201	Glikson M, Nielsen JC, Kronborg MB, Michowitz Y, Auricchio A, Barbash IM, Barrabés JA, Boriani G, Braunschweig F, Brignole M, Burri H, Coats AJS, Deharo JC, Delgado V, Diller GP, Israel CW, Keren A, Knops RE, Kotecha D, Leclercq C, Merkely B, Starck C, Thylén I, Tolosana JM, Leyva F, Linde C, Abdelhamid M, Aboyans V, Arbelo E, Asteggiano R, Barón-Esquivias G, Bauersachs J, Biffi M, Birgersdotter-Green U, Bongiorni MG, Borger MA, Čelutkienė J, Cikes M, Daubert JC, Drossart I, Ellenbogen K, Elliott PM, Fabritz L, Falk V, Fauchier L, Fernández-Avilés F, Foldager D, Gadler F, De Vinuesa PGG, Gorenek B, Guerra JM, Hermann Haugaa K, Hendriks J, Kahan T, Katus HA, Konradi A, Koskinas KC, Law H, Lewis BS, Linker NJ, Løchen ML, Lumens J, Mascherbauer J, Mullens W, Nagy KV, Prescott E, Raatikainen P, Rakisheva A, Reichlin T, Ricci RP, Shlyakhto E, Sitges M, Sousa-Uva M, Sutton R, Suwalski P, Svendsen JH, Touyz RM, Van Gelder IC, Vernooy K, Waltenberger J, Whinnett Z, Witte KK	2021 ESC Guidelines on cardiac pacing and cardiac resynchronization therapy	Eurpace. 2022 Jan 4;24(1):71-164

Group	Authors	Title	Journal/Reference
203	Pedro-Botet J, Barrios V, Sánchez-Margalet V, Tamargo J, Arrieta F, Gámez JM, Gimeno-Orna JA, Escobar C, Gómez-Doblas JJ, Pérez A; Working Groups of Cardiovascular Pharmacotherapy of the Sociedad Española de Cardiología and Cardiovascular Disease of the Sociedad Española de Diabetes.	Treatment of hypertriglyceridaemia with icosapent ethyl in patients with high/very high cardiovascular risk. Consensus document of the Sociedad Española de Cardiología [Spanish Society of Cardiology] and the Sociedad Española de Diabetes [Spanish Diabetes Society].	Endocrinol Diabetes Nutr (Engl Ed). 2022 Nov 16:S2530-0180(22)00167-6. doi: 10.1016/j.endien.2022.11.009.
203	Lyon AR, López-Fernández T, Couch LS, Asteggiano R, Aznar MC, Bergler-Klein J, Boriani G, Cardinale D, Córdoba R, Cosyns B, Cutter DJ, de Azambuja E, de Boer RA, Dent SF, Farmakis D, Gevaert SA, Gorog DA, Herrmann J, Lenihan D, Moslehi J, Moura B, Salinger SS, Stephens R, Suter TM, Szmít S, Tamargo J, Thavendiranathan P, Tocchetti CG, van der Meer P, van der Pal HJH; ESC Scientific Document Group.	2022 ESC Guidelines on cardio-oncology developed in collaboration with the European Hematology Association (EHA), the European Society for Therapeutic Radiology and Oncology (ESTRO) and the International Cardio-Oncology Society (IC-OS).	Eur Heart J Cardiovasc Imaging. 2022;23(10):e333-e465. doi: 10.1093/ehjci/jeac106.
203	Lyon AR, López-Fernández T, Couch LS, Asteggiano R, Aznar MC, Bergler-Klein J, Boriani G, Cardinale D, Córdoba R, Cosyns B, Cutter DJ, de Azambuja E, de Boer RA, Dent SF, Farmakis D, Gevaert SA, Gorog DA, Herrmann J, Lenihan D, Moslehi J, Moura B, Salinger SS, Stephens R, Suter TM, Szmít S, Tamargo J, Thavendiranathan P, Tocchetti CG, van der Meer P, van der Pal HJH; ESC Scientific Document Group.	2022 ESC Guidelines on cardio-oncology developed in collaboration with the European Hematology Association (EHA), the European Society for Therapeutic Radiology and Oncology (ESTRO) and the International Cardio-Oncology Society (IC-OS).	2022;43(41):4229-4361. doi: 10.1093/eurheartj/ehac244.

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301	Fiksinski AM, Bearden CE, Bassett AS, Kahn RS, Zinkstok JR, Hooper SR, Tempelaar W, McDonald-McGinn D, Swillen A, Emanuel B, Morrow B, Gur R, Chow E, van den Bree M, Vermeesch J, Warren S, Owen M, van Amelsvoort T, Eliez S, Gothelf D, Arango C, Kates W, Simon T, Murphy K, Repetto G, Suner DH, Vicari S, Cubells J, Armando M, Philip N, Campbell L, García-Minaur S, Schneider M, Shashi V; 22q11DS International Consortium on Brain and Behavior; Vorstman J, Breetvelt EJ.	A normative chart for cognitive development in a genetically selected population	Neuropsychopharmacology, 10.1038/s41386-021-00988-6.
301	López-Morinigo JD, Leucht S, Arango C.	Pharmacological Treatment of Early-Onset Schizophrenia: A Critical Review, Evidence-Based Clinical Guidance and Unmet Needs	Pharmacopsychiatry, 10.1055/a-1854-0185
301	Fusar-Poli P, Manchia M, Koutsouleris N, Leslie D, Woopen C, Calkins ME, Dunn M, Tourneau CL, Mannikko M, Mollema T, Oliver D, Rietschel M, Reininghaus EZ, Squassina A, Valmaggia L, Kessing LV, Vieta E, Correll CU, Arango C, Andreassen OA; PSMD EBRA cluster (annex 1)	Ethical considerations for precision psychiatry: A roadmap for research and clinical practice	Eur Neuropsychopharmacol, 10.1016/j.euroneuro.2022.08.001
301	Arango C, Buitelaar JK, Correll CU, Díaz-Caneja CM, Figueira ML, Fleischhacker WW, Marcotulli D, Parellada M, Vitiello B.	The transition from adolescence to adulthood in patients with schizophrenia: Challenges, opportunities and recommendations	Eur Neuropsychopharmacol, 10.1016/j.euroneuro.2022.04.005
301	Correll CU, Fusar-Poli P, Leucht S, Karow A, Maric N, Moreno C, Nordentoft M, Raballo A.	Treatment Approaches for First Episode and Early-Phase Schizophrenia in Adolescents and Young Adults: A Delphi Consensus Report from Europe	Neuropsychiatr Dis Treat, 10.2147/NDT.S345066.

Group	Authors	Title	Journal/Reference
301	Fraguas D, Almenta Gallego D, Arques-Egea S, Gómez-Revuelta M, Sánchez-Lafuente CG, Hernández Huerta D, Núñez Arias D, Oda Plasencia-García B, Parro Torres C, Romero-Guillena SL, Ros Cucurul E, Alamo C.	Aripiprazole for the treatment of schizophrenia: Recommendations of a panel of Spanish experts on its use in clinical practice	Int J Psychiatry Clin Pract, 10.1080/13651501.2022.2064308
501	García Sacristán, A, Seoane Reula, E, Gil Niño, JD, Barea García, ML, García Cerezuela, MD, Fernández Arquer, M, Cabrera Marante, O, Rodríguez Quesada, PP, Manrique Rodríguez, S, Sánchez-Ramón, S, Pleguezuelo DE, Fernández-Cruz, E, Camino López, M, Martín Barbero ML.	Criterios para uso racional de inmunoglobulinas humanas	Servicio Madrileño de Salud. Consejería de Sanidad. CAM
503	Antela, A; Bernardino, JI; de Quiros, JCLB; Bachiller, P; Fuster-Ruiz de Apodaca, MJ; Puig, J; Rodríguez, S; Castejon, I; Álvarez, B; Hermenegildo, M	Patient-Reported Outcomes (PROs) in HIV Infection: Points to Consider and Challenges	36066841
503	Castañeda, S; Gómez-Alonso, C; Grana, J; Guanabens, N; Muñoz-Torres, M; Peris, P; Naves, M; Álvaro-Gracia, JM	Position of the Spanish Society of Rheumatology (SER) and the Spanish Society for Bone Research and Mineral Metabolism (SEIOMM) on romosozumab	35504824
503	Mayordomo L, Collada JM, Hernández FMF, Bueno Á, Insua Vilariño SA, Jiménez-Núñez FG, Martínez Pérez R, Möller I, Usón Jaeger J, García-Llorente JF, Álvaro-Gracia JM, Aparicio Ruiz E, Asaro Daverio L, Naredo E		33376052
507	María Concepción Míguez Navarro, María Escobar Castellanos, Clara Ferrero García-Loygorri, Jorge Lorente Romero, Rafael Marañón Pardillo, Andrea Mora capin, Aristides Rivas García, Paula Vázquez López	Signos/síntomas guía en Urgencias Pediátricas	2ª Edición. Ergon

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507	Cristina Corraliza, Elena Rincón, Jorge Lorente, Alejandro Lowy	Mastoiditis en Urgencias de Pediatría	Protocolo HGUGM.
507	Cristina Nuñez, Jorge Lorente	Episodio Breve resuelto inexplicable	Protocolo HGUGM.
507	Laura Oliva, Jorge Lorente, M <sup>a</sup> Concepción Míguez, Ana Jové, María Escobar, Clara Ferrero, Andrea Mora, Arístides Rivas, Rafael Marañón, Paula Vázquez	Urticaria/Angioedema	Protocolo HGUGM.
507	Secciones de Enfermedades Infecciosas Pediátricas, Urgencias Pediátricas y Pediatría Interna Hospitalaria, Servicio de Pediatría; Servicio de Farmacia; Servicio de Microbiología; Servicio de Alergología	Antibioterapia empírica en infecciones pediátricas ambulatorias	Protocolo HGUGM.
602	Y. Escobar Álvarez <sup>1</sup> , R. de las Peñas Bataller <sup>2</sup> , J. Pérez Altozano <sup>3</sup> , S. Ros Martínez <sup>4</sup> , A. Sabino Álvarez <sup>5</sup> , A. Blasco Cordellat <sup>6</sup> , E. Brozos Vázquez <sup>7</sup> , J. Corral Jaime <sup>8</sup> , I. García Escobar <sup>9</sup> , C. Beato Zambrano <sup>1</sup>	SEOM clinical guidelines for anaemia treatment in cancer patients (2020)	Clinical and Translational Oncology volume 23, pages931–939 (2021)
602	Majem M, Manzano JL, Márquez-Rodas I, Mujika K, Muñoz-Couselo E, Pérez-Ruiz E, de la Cruz-Merino L, Espinosa E, González-Cao M, Berrocal A.	SEOM clinical guideline for the management of cutaneous melanoma (2020)	Clin Transl Oncol. 2021 Mar 2. doi: 10.1007/s12094-020-02539-9. Epub ahead of print. PMID: 33651321.
602	de Juan Ferré A, Álvarez Álvarez R, Casado Herráez A, et al.	SEOM Clinical Guideline of management of softtissue sarcoma (2020)	Clin Transl Oncol. 2021;23(5):922-930. doi:10.1007/s12094-020-02534-0
602	García-Alfonso P, Saiz-Rodríguez M, Mondéjar R, et al.	Consensus of experts from the Spanish Pharmacogenetics and Pharmacogenomics Society and the Spanish Society of Medical Oncology for the genotyping of DPYD in cancer patients who are candidates for treatment with fluoropyrimidines.	Clin Transl Oncol. 2022;24(3):483-494. doi:10.1007/s12094-021-02708-4. Epub 2021 Nov 13

Group	Authors	Title	Journal/Reference
602	Navarro, Samuel; Cuatrecasas, Miriam; Hernández-Losa, Javier; Landolfi, Stefania; Musulen, Eva; Ramon Y Cajal, Santiago; García-Carbonero, Rocio; García-Foncillas, Jesus; Pérez-Segura, Pedro; Salazar, Ramon; Vera, Ruth; García-Alfonso, Pilar	Actualización de la recomendación para la determinación de biomarcadores en el carcinoma colorrectal. Consenso Nacional de la Sociedad Española de Oncología Médica y de la Sociedad Española de Anatomía Patológica.	Revista española de patología : publicación oficial de la Sociedad Española de Anatomía Patológica y de la Sociedad Española de Citología, Volume54, Issue1, Page41-54, DOI10.1016/j.patol.2020.07.004 Published2021 Jan-Mar Indexed2021-01-19 Document TypeJournal Article; Practice Guideline; Review
602	María González-Cao <sup>1</sup> , Teresa Puertolas <sup>2</sup> , Mar Riveiro <sup>3</sup> , Eva Muñoz-Couselo <sup>4</sup> , Carolina Ortiz <sup>5</sup> , Roger Paredes <sup>5,6</sup> , Daniel Podzamczewski <sup>7</sup> , José Luis Manzano <sup>8</sup> , José Molto <sup>5,6</sup> , Boris Revollo <sup>5,6</sup> , Cristina Carrera <sup>9</sup> , Lourdes Mateu <sup>5,6</sup> , Sara Fancelli <sup>1,10</sup> , Enrique Espinosa <sup>11</sup> , Bonaventura Clotet <sup>5,6</sup> , Javier Martínez-Picado <sup>5,12</sup> , Pablo Cerezuela <sup>13</sup> , Ainara Soria <sup>14</sup> , Iván Márquez-Rodas <sup>15</sup> , Mario Mandala <sup>16</sup> , Alfonso Berrocal <sup>17</sup> , for the Spanish Melanoma Group (GEM)	Cancer immunotherapy in special challenging populations: recommendations of the Advisory Committee of Spanish Melanoma Group (GEM)	J Immunother Cancer. 2021;9(3):e001664. doi:10.1136/jitc-2020-001664. [published correction appears in J Immunother Cancer. 2022 Feb;10(2)].
602	González del Alba, A., Méndez-Vidal, M. J., Vázquez, S., Castro, E., Climent, M. A., Gallardo, E., González-Billalabeitia, E., Lorente, D., Maroto, J. P., & Arranz, J. A.	SEOM clinical guidelines for the treatment of advanced prostate cancer (2020).	Clin Transl Oncol. 2021;23(5):969-979. doi:10.1007/s12094-021-02561-5
602	Margarita Majem, Ramón de las Peñas, Juan Antonio Virizuela, Luis Cabezón-Gutiérrez, Patricia Cruz, Rafael López-Castro, Miriam Méndez, Rebeca Mondéjar, María Del Mar Muñoz, Yolanda Escobar	SEOM clinical guideline emesis (2021)	Clin Transl Oncol. 2022 Jul;24(7):1442]. Clin Transl Oncol. 2022;24(4):712-723. doi:10.1007/s12094-022-02802-1
602	Valderrama BP, González-Del-Alba A, Morales-Barrera R, Peláez Fernández I, Vázquez S, Caballero Díaz C, Doménech M, Fernández Calvo O, Gómez de Liaño Lista A, Arranz Arija JÁ	SEOM-SOGUG clinical guideline for localized muscle invasive and advanced bladder cancer (2021)	Clin Transl Oncol. 2022 Apr;24(4):613-624. doi: 10.1007/s12094-022-02815-w. Epub 2022 Mar 26. PMID: 35347572; PMCID: PMC8986688.

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602	Ana Fernández Montes, Vicente Alonso, Enrique Aranda, Elena Élez, Pilar García Alfonso, Cristina Grávalos, Joan Maurel, Ruth Vera, Rosario Vidal & Jorge Aparicio	SEOM-GEMCAD-TTD clinical guidelines for the systemic treatment of metastatic colorectal cancer (2022)	Fernández Montes, A., Alonso, V., Aranda, E. et al. SEOM-GEMCAD-TTD clinical guidelines for the systemic treatment of metastatic colorectal cancer (2022). Clin Transl Oncol (2023). <a href="https://doi.org/10.1007/s12094-023-03199-1">https://doi.org/10.1007/s12094-023-03199-1</a>
602	Lope V, Guerrero-Zotano A, Ruiz-Moreno E, Bermejo B, Antolín S, Montañó Á, Baena-Cañada JM, Ramos Vázquez M, Fernández de Larrea-Baz N, Chacón JI, García-Sáenz JA, Olier C, Muñoz M, Antón A, Sánchez Rovira P, Arcusa Lanza A, González S, Oltra A, Brunet J, Gavilá Gregori J, Martínez MT, Calvo L, Rosell L, Bezares S, Pastor-Barriuso R, Pérez-Gómez B, Martín M, Pollán M.	Clinical and Sociodemographic Determinants of Adherence to World Cancer Research Fund/ American Institute for Cancer Research (WCRF/AICR) Recommendations in Breast Cancer Survivors-Health-EpiGEICAM Study	Cancers (Basel). 2022 Sep 27;14(19):4705. doi: 10.3390/cancers14194705. PMID: 36230628; PMCID: PMC9561971.
602	Earl J, Calabuig-Fariñas S, Sarasquete ME, Muínelo Romay L, López-Tarruella S, Bellosillo Paricio B, Rodríguez M, Valencia Leoz K, Dueñas Porto M, Tarazona N, Hernández Losa J, Toledo RA	A Standardized Liquid Biopsy Preanalytical Protocol for Downstream Circulating-Free DNA Applications	J Vis Exp. 2022 Sep 16;(187). doi: 10.3791/64123. PMID: 36190291.
602	Vera R, Ibarrola-de-Andrés C, Adeva J, Pérez-Rojas J, García-Alfonso P, Rodríguez-Gil Y, Macarulla T, Serrano-Piñol T, Mondéjar R, Madrigal-Rubiales B.	Expert consensus of the Spanish Society of Pathology and the Spanish Society of Medical Oncology on the determination of biomarkers in pancreatic and biliary tract cancer.	Clin Transl Oncol. 2022 Nov;24(11):2107-2119. doi: 10.1007/s12094-022-02873-0. Epub 2022 Aug 25. PMID: 36008616; PMCID: PMC9522813.
602	Majem M, de Las Peñas R, Virizuela JA, Cabezón-Gutiérrez L, Cruz P, López-Castro R, Méndez M, Mondéjar R, Muñoz MDM, Escobar Y.	Correction to: SEOM Clinical Guideline update for the prevention of chemotherapy-induced nausea and vomiting (2021)	Clin Transl Oncol. 2022 Apr;24(4):712-723. PMID: 35567734; PMCID: PMC9192372.

Group	Authors	Title	Journal/Reference
602	Escobar Y, Margarit C, Pérez-Hernández C, Quintanar T, Virizuela JA.	Good practice recommendations to better coordinate the management of oncological pain: a Delphi survey	Sci Rep. 2022 Dec 28;12(1):22459. doi: 10.1038/s41598-022-26753-3. PMID: 36577791; PMCID: PMC9797552.
602	Miguel Angel Seguí Palmer, Miguel Gil Gil, Isabel Álvarez López, Sonia Servitja Tormo, José Ángel García Saenz, Begoña Bermejo De las Heras, Silvia Antolín Novoa, Carmen Esteban Esteban, Manuel Ruiz Borrego, Juan Lao Romera, Antonio Pinero Madrona, Manuel Algara López, Francisco Javier de Castro García, José Palacios Calvo, Jorge Contreras Martínez, Pedro Sánchez Rovira, Iván Solà Arnau, Juan Carlos Vázquez Niebla, Emilio Alba, Agustí Barnadas, Miguel Martín, Ana Lluch, Álvaro Rodríguez Lescure, Ángel Montero, Federico Rojo, Julia Giménez, Ana María Rodríguez Arana	Guía GEICAM de Práctica Clínica Tratamiento Neoadyuvante del Cáncer de Mama	<a href="https://guia-cancerdemama-neoadyuvancia.geicam.org/home">https://guia-cancerdemama-neoadyuvancia.geicam.org/home</a>
701	Rafael García-Maseta, Jordi Bovera, Julián Segura de la Morenab, Marian Goicoechea Diezhandinoa, Jesús Cebollada del Hoyoc, Javier Escalada San Martind, Lorenzo Fácila Rubioe, Javier Gamarra Ortizf, José A. García-Donaireb, Lisardo García-Mataríng, Silvia Gràcia Garciaah, María Isabel Gutiérrez Pérezi, Julio Hernández Morenof, Pilar Mazón Ramose, Rosario Montañés Bermudezh, Manuel Muñoz Torresd, Pedro de Pablos-Velascoj, Manuel Pérez-Maraverj, Carmen Suárez Fernándezc, Salvador Tranche Iparraguirrei, José Luis Górriza	Documento de información y consenso para la detección de la ERC	Nefrología 2022; 42:233-264

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704	Brossier DW, Tume LN, Briant AR, Jotterand Chaparro C, Moullet C, Rooze S, Verbruggen SCAT, Marino LV, Alsohime F, Beldjilali S, Chiusolo F, Costa L, Didier C, Iliá S, Joram NL, Kneyber MCJ, Kühlwein E, López J, López-Herce J, Mayberry HF, Mehmeti F, Mierzewska-Schmidt M, Miñambres Rodríguez M, Morice C, Pappachan JV, Porcheret F, Reis Boto L, Schlappbach LJ, Tekguc H, Tziouvas K, Parienti JJ, Goyer I, Valla FV; Metabolism Endocrinology and Nutrition section of the European Society of Pediatric and Neonatal Intensive Care (ESPNIC).	ESPNIC clinical practice guidelines: intravenous maintenance fluid therapy in acute and critically ill children- a systematic review and meta-analysis.	Intensive Care Med. 2022 Dec;48(12):1691-1708. doi: 10.1007/s00134-022-06882-z.
704	Fernández-Sarmiento J, De Souza DC, Martínez A, Nieto V, López-Herce J, Soares Lanzotti V, Arias López MDP, De Carvalho WB, Oliveira CF, Jaramillo- Bustamante JC, Díaz F, Yock-Corrales A, Ruvinsky S, Munaico M, Pavlicich V, Iramain R, Márquez MP, González G, Yunge M, Tonial C, Cruces P, Palacio G, Grela C, Slöcker-Barrio M, Campos-Miño S, González-Dambrauskas S, Sánchez-Pinto NL, Celiny García P, Jabornisky R.	Latin American Consensus on the Management of Sepsis in Children: Sociedad Latinoamericana de Cuidados Intensivos Pediátricos [Latin American Pediatric Intensive Care Society] (SLACIP) Task Force: Executive Summary	J Intensive Care Med. 2022 Jun;37(6):753-763. doi:10.1177/08850666211054444.
704	Argudo E, Hernández-Tejedor A, Belda Hofheinz S, Fuset MP, Sánchez Galindo A, Burgueño P, Ballcels J, Duerto J, Morales Martínez A, Martínez-Martínez M, Morteruel Arizcuren E, Pérez F, Díaz Vico A, Rubio Mateo-Sidróñ JA.	Spanish Society of Intensive and Critical Care Medicine and Coronary Units (SEMICYUC) and the Spanish Society of Pediatric Intensive Care (SECIPI) consensus recommendations for ECMO transport.	Med Intensiva (Engl Ed). 2022 Aug;46(8):446-454. doi: 10.1016/j.medicine.2022.06.005.
716B	Zarragoikoetxea I, Pajares A, Moreno I, Porta J, Koller T, Cegarra V, González AI, Eiras M, Sandoval E, Aurelio Sarraled J, Quintana-Villamandos B, Vicente Guillén R	SEDAR/SECCE ECMO management consensus document	Rev Esp Anesthesiol Reanim 2021;68:443-471

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727	Jesús López-Herce Cid, Custodio Calvo Macías, Gonzalo Zeballos Sarrato, Cecilia Martínez Fernández-Llamazares	Material y carros de reanimación cardiopulmonar pediátrica y neonatal	Manual de RCP pediátrica y neonatal, 978-84-945715-4-1
727	Enrique Contreras Macías, Ramón Morillo Verdugo, María de las Aguas Robustillo Cortés, Pilar Taberner Bonastre, José Manuel Vinuesa Hernando, Ismael Escobar Rodríguez, Carlos Folguera Olias, Rosa Fuster Ruiz de Apodaca, Mercedes Gimeno Gracia, Aitziber Illaro	Guía práctica de atención farmacéutica multidisciplinar y multidimensional para Pacientes con infección por VIH en tratamiento con fármacos long-acting	<a href="https://www.sefh.es/bibliotecavirtual/sefh_vih/guiapract_VIH.pdf?ts=20221201091642">https://www.sefh.es/bibliotecavirtual/sefh_vih/guiapract_VIH.pdf?ts=20221201091642</a>
727	Roberto Collado Borrell, Anna de Dios López, Vicente Escudero Vilaplana, Mar Gomis Pastor, Ana Herranz Alonso, María Antònia Mangues Bafalluy	Guía práctica para la implantación de apps de salud en los Servicios de Farmacia. Proyecto Salud Móvil SEFH	978-84-09-40911-2
727	Cristina Villanueva-Bueno, Vicente Escudero-Vilaplana, Roberto Collado-Borrell, Álvaro Giménez-Manzorro, Almudena Ribed, Belén Marzal-Alfaro, José Luis Revuelta-Herrero, Eva González-Haba, Ana Herranz, María Sanjurjo	Medication Guide for the perioperative management of oral antineoplastic agents in cancer patients	Expert Opin Drug Saf, 2022 Jan;21(1):107-119. doi: 10.1080/14740338.2021.1965990
727	Escudero-Vilaplana V, Bernal E, Casado G, Collado-Borrell R, Diez-Fernández R, Fernández Román AB, Folguera C, González-Cortijo L, Herrero-Fernández M, Marquina G, Martínez Nieto C, Rodríguez MA, Rubio AR, Sanmartin-Fenollera P, Vázquez Castillo MJ, Comellas	Defining a Standard Set of Patient-Reported Outcomes for Patients With Advanced Ovarian Cancer	Front Oncol, 2022 May 18;12:885910. doi: 10.3389/fonc.2022.885910
727	Álvaro Giménez Manzorro y colaboradores	Criterios para el uso racional de inmunoglobulinas humanas. Madrid: Consejería de Sanidad, Servicio Madrileño de Salud	<a href="https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx">https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx</a>

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Group	Authors	Title	Journal/Reference
727	Silvia Valero-García, Eva González-Haba, María Queralto Gorgas-Torner, José María Alonso-Herreros, Ana Cristina Cercós Lletí, José Luis Poveda-Andrés, Miguel Ángel Calleja-Hernández, Olga Delgado-Sánchez	Monitoring contamination of hazardous drug compounding surfaces at hospital pharmacy departments. A consensus Statement. Practice guidelines of the Spanish Society of Hospital Pharmacists (SEFH)	Practice Guideline Farm Hosp. 2021 Mar 11;45(2):96-107. PMID: 33709894 DOI: 10.7399/fh.11655 http://www.aulamedica.es/fh/pdf/11655.pdf
727	Cecilia Martínez, Silvia Manrique, Elena Lobato, Arantza Ais, Roberto Collado	Atención Farmacéutica en pediatría	Guía de Prácticas Tuteladas en Farmacia Hospitalaria. 2ª Edición - Septiembre 2021, 2ª Ed. Valencia: Reproexpres SL; 2021. p. 105-110 978-84-123162-8-5
727	Álvaro Giménez, Ana de Lorenzo, Vicente Escudero	Evaluación y selección de medicamentos	Guía de Prácticas Tuteladas en Farmacia Hospitalaria. 2ª Edición - Septiembre 2021, 2ª Ed. Valencia: Reproexpres SL; 2021. p. 29-35 978-84-123162-8-5
727	Ana de Lorenzo	Infección del tracto urinario. Pielonefritis aguda y cólico nefrítico	Plataforma informática de AppleStore y PlayStore
727	Pilar García-Alfonso, Miriam Saiz-Rodríguez, Rebeca Mondéjar, Juliana Salazar Blanco, David Páez, Alberto Borobía Pérez, María José Safont Aguilera, Irene García García, Ramón Colomer, Xandra García-González, María José Herrero, Luis A. López Fernández, Francisco Abad-Santos	Consensus of experts from the Spanish Pharmacogenetics and Pharmacogenomics Society and the Spanish Society of Medical Oncology for the genotyping of DPYD in cancer patients who are candidates for treatment with fluoropyrimidines	Clinical and Translational Oncology, 2022;24(3):483-494; doi: 10.1007/s12094-021-02708-4

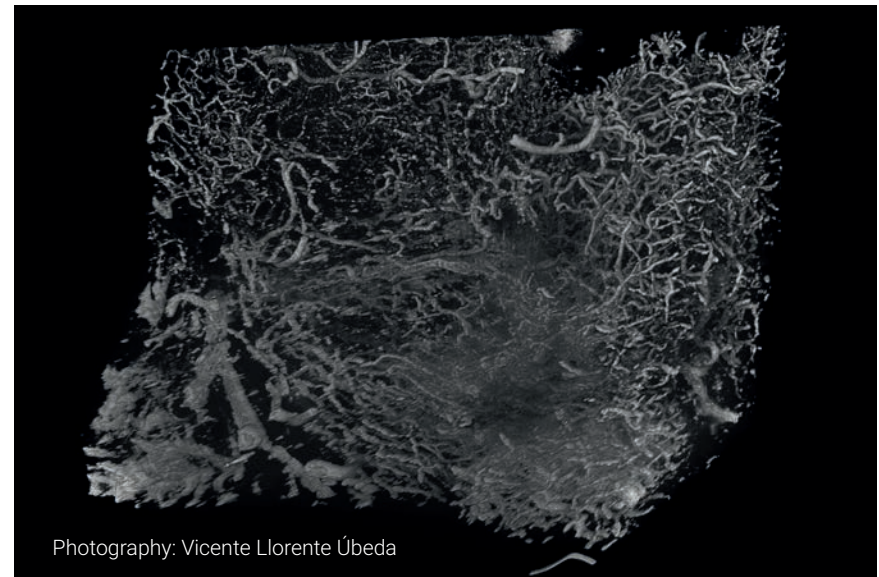
Group	Authors	Title	Journal/Reference
727	Ramón Morillo; Amaya Arrondo; Roberto Collado; Marcelo Domínguez; Aurora Fernández; Mar Gomis; Elena González; Esperanza Gutiérrez; Aránzazu Linares; María Ángeles Parro; Miguel Ángel	Guía de Telefarmacia para profesionales	"SEFH-estrategia de desarrollo y expansión de la telefarmacia en España. Documentos de apoyo metodológico." 978-84-09-38412-9
727	Ramón Morillo; Amaya Arrondo; Roberto Collado; Marcelo Domínguez; Aurora Fernández; Mar Gomis; Elena González; Esperanza Gutiérrez; Aránzazu Linares; María Ángeles Parro; Miguel Ángel	Guía de Telefarmacia para pacientes	"SEFH- estrategia de desarrollo y expansión de la telefarmacia en España. Documentos de apoyo metodológico 978-84-09-37543-1
728	Bischoff, SC; Barazzoni, R; Busetto, L; Campmans-Kuijpers, M; Cardinale, V; Chermesh, I; Eshraghian, A; Kani, HT; Khannoussi, W; Lacaze, L; León-Sanz, M; Mendive, JM; Muller, MW; Ockenga, J; Tacke, F; Thorell, A; Bender, DV; Weimann, A; Cuerda, C	European guideline on obesity care in patients with gastrointestinal and liver diseases-Joint ESPEN/UEG guideline	Clin Nutr, 10.1016/j.clnu.2022.07.003
728	Bischoff, SC; Barazzoni, R; Busetto, L; Campmans-Kuijpers, M; Cardinale, V; Chermesh, I; Eshraghian, A; Kani, HT; Khannoussi, W; Lacaze, L; León-Sanz, M; Mendive, JM; Muller, MW; Ockenga, J; Tacke, F; Thorell, A; Bender, DV; Weimann, A; Cuerda, C	European guideline on obesity care in patients with gastrointestinal and liver diseases-Joint European Society for Clinical Nutrition and Metabolism/ United European Gastroenterology guideline	United European gastro Journal, 10.1002/ueg2.12280
728	García, MDDO; Villares, JMM; Hernández, JA; López, IF; Lesmes, IB; Casas, NV; Enguidanos, RA; Fuster, FML; Wanden-Berghe, C; Rocamora, JAI; Soria, JBM; González, JCM; Blanco, AC	Nutrition in palliative care: guidelines from the Working Group on Bioethics, Spanish Society of Clinical Nutrition and Metabolism (SENPE)	Nutr Hosp, 10.20960/nh.04268
728	Berger, MM; Shenkin, A; Schweinlin, A; Amrein, K; Augsburger, M; Biesalski, HK; Bischoff, SC; Casaer, MP; Gundogan, K; Lepp, HL; de Man, AME; Muscogiuri, G; Pietka, M; Pironi, L; Rezzi, S; Cuerda, C	ESPEN micronutrient guideline	Clin Nutr, 10.1016/j.clnu.2022.02.015

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Group	Authors	Title	Journal/Reference
728	Berger, MM; Shenkin, A; Schweinlin, A; Amrein, K; Augsburger, M; Biesalski, HK; Bischoff, SC; Casaer, MP; Gundogan, K; Lepp, HL; de Man, AME; Muscogiuri, G; Pietka, M; Pironi, L; Rezzi, S; Cuerda, C	ESPEN practical guideline: Home enteral nutrition	Clin Nutr, 10.1016/j.clnu.2021.10.018
728	Bischoff, SC; Austin, P; Boeykens, K; Chourdakis, M; Cuerda, C; Jonkers-Schuitema, C; Lichota, M; Nyulasi, I; Schneider, SM; Stanga, Z; Pironi, L	ESPEN practical guideline: Home enteral nutrition	Clin Nutr, 10.1016/j.clnu.2021.10.018
728	Bretón, MJO; Guerrero, MJT; Rodríguez, JMR; Miranda, CP; Pomar, MDB; Romero, FB; Olmos, MAM; Pérez, LML; Minchot, EC; Malpartida, KG; Gómez, JLL; Murillo, AZ; Hernández, JA; Lesmes, IB; SEEN; GERM	Multidisciplinary consensus on nutritional and metabolic therapy in enhanced recovery after abdominal surgery programs: NutRICA Project	Endocrinol Diabetes Nutr, 10.1016/j.endinu.2021.02.005



Photography: Vicente Llorente Úbeda



## Doctoral theses defended

Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
101	Ph Thesis	Luis Diego Romero Miguel	Prevención de la esquizofrenia: utilización de estrategias farmacológicas basadas en compuestos antiinflamatorios y antioxidantes en el modelo murino de estimulación inmunitaria materna	María Luisa Soto Montenegro	UC3M	16/09/2022
101	Ph Thesis	Luis Marcos Vidal	Brain network alterations in attention-deficit and hyperactivity disorder: Towards an integrative perspective based on systems neuroscience	Manuel Desco, Susana Carmona	UC3M	28/10/2022
101	Ph Thesis	María Isabel González Gutiérrez	Development of milk exosome-based probes for biomedical imaging	Beatriz Salinas, Manuel Desco	UC3M	28/11/2022
101	Ph Thesis	Mónica García Sevilla.	Optimization of computer-assisted intraoperative guidance for complex oncological procedures	Javier Pascual González-Garzón	UC3M	25/03/2022
101	Ph Thesis	Pedro Macías Gordaliza	Tuberculosis burden assessment employing radiological biomarkers	María Arrate Muñoz-Barrutia, Juan José Vaquero López	UC3M	06/05/2022
101	Ph Thesis	David Pérez Benito	Archemedeian PET: new optimal tessellation	Juan Jose Vaquero López	UC3M	24/06/2022

Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
102	Ph Thesis	Sara Pérez Vieites	Nested filtering methods for Bayesian inference in state space models	Joaquín Míguez Arenas	UC3M	28/1/2022
102	Ph Thesis	Pablo Bonilla Escribano	Objective Assessment of Psychiatric Patients via Machine Learning	Antonio Artés Rodríguez	UC3M	16/3/2022
102	Ph Thesis	Aurora Cobo Aguilera	Probabilistic Models and Natural Language Processing in Health	Antonio Artés Rodríguez	UC3M	15/12/2022
102	Ph Thesis	Emese Sükei	A Step Towards Advancing Digital Phenotyping In Mental Healthcare	Antonio Artés Rodríguez	UC3M	19/12/2022
201	Ph Thesis	Pablo Ávila Alonso	Ablación de sustrato frente a fármacos antiarrítmicos en pacientes con cardiopatía isquémica y taquicardias ventriculares monomórficas sintomáticas: ensayo clínico Survive-VT	Francisco Fernández-Avilés; Ángel Arenal Maiz	UCM	15/10/2022
201	Ph Thesis	Javier Castrodeza Calvo	Retos en el implante de prótesis aórtica a través de catéter en pacientes de riesgo quirúrgico bajo e intermedio	Alberto San Román; Ignacio Amat Santos	Universidad de Valladolid	21/01/2022
201	Ph Thesis	Lidia Gómez Cid	Development, characterization and evaluation of advanced therapies for the treatment of cardiac pathologies	Lilian Grigorian; Francisco Fernández-Avilés	UC3M	20/09/2022

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Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
201	Ph Thesis	Ana Sánchez de la Nava	Definition of a Sensitivity Profile for Drug Treatment and Identification on Clinical Biomarkers in Atrial Fibrillation	Felipe Atienza Fernández; Francisco Fernández-Avilés	Universidad Politécnica de Valencia	20/06/2022
301	Ph Thesis	María Dolores Molina García	Contribución del cociente intelectual premórbido y la edad de inicio de psicosis al rendimiento cognitivo y recuperación funcional de individuos con un primer episodio psicótico	Celso Arango, Marta Rapado	UCM	01/06/2022
301	Ph Thesis	Gonzalo Salazar de Pablo	Síndromes con alto riesgo clínico de desarrollar trastornos psicóticos: avances en caracterización, pronóstico y factores terapéuticos	Carmen Moreno Ruiz	UCM	28/01/2022
301	Ph Thesis	Alicia García Alcón	Estudio de la influencia e interacción del riesgo poligénico y factores ambientales en la gravedad y tipología de pacientes con trastorno del espectro autista	Mara Parellada, Celso Arango, Javier González-Peñas	UCM	19/10/2022
303B	Ph Thesis	María Luisa Martínez Ginés	Influencia de la discapacidad sobre la conducción en pacientes con esclerosis múltiple	Julian Benito León; Luis A. Álvarez Sala	UCM	16/06/2022

Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
502	Ph Thesis	Elena Royo Rubio	Therapeutic applications of dendritic nanosystems against viral infections: Human Immunodeficiency Virus Type 1, Herpes Simplex Virus Type 2 and Human Cytomegalovirus.	María Ángeles Muñoz Fernández; José Luis Jiménez Fuentes	Universidad Autónoma de Madrid	21/10/2022
502	Ph Thesis	Ignacio Rodríguez Relaño	Aplicaciones de los dendrímeros polianiónicos carbosilanos frente a VIH-1 y CMVH	María Ángeles Muñoz Fernández	Universidad Autónoma de Madrid	24/01/2022
502	Ph Thesis	Ignacio Rodríguez Izquierdo	New therapeutic approaches of nanoparticles against viral infections: HIV-1, HSV-1 and RSV	María Ángeles Muñoz Fernández	Universidad Autónoma de Madrid	04/03/2022
506	Ph Thesis	Esther Bernaldo de Quirós Plaza	Primer ensayo clínico para prevenir el rechazo en niños trasplantados de corazón mediante una terapia celular con Treg autólogas obtenidas a partir de tejido tímico (thyTreg)	Rafael Correa Rocha y Marjorie Pion	Universidad Autónoma de Madrid	01/02/2022
507	Ph Thesis	Elena Rincón López	Predicción del riesgo de infección bacteriana grave en niños con enfermedad de células falciformes	María Luisa Navarro Gómez; Elena Cela de Julián; Teresa Hernández Sampelayo	UCM	19/04/2022

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Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
507	Ph Thesis	Itziar Carrasco García	Enfermedad hepática en niños y jóvenes infectados por el virus de la inmunodeficiencia humana (VIH)	María Luisa Navarro Gómez; Talía Sainz Costa	UCM	19/07/2022
701	Ph Thesis	Alba Santos García	Optimizar la hemodiálisis: anticoagulación del circuito extracorpóreo y elección del dializador	Almudena Vega Martínez; Juan Manuel López-Gómez; Manuel Praga Terente	UCM	28/11/2022
701	Ph Thesis	María Ángeles González-Nicolás González	Cilastatina en la prevención y tratamiento del fracaso renal agudo parenquimatoso de origen endotóxico: sepsis y rabdmiolisis	Alberto Lázaro Fernández	UCM	27/04/2022
704	Ph Thesis	Gema Manrique Martín	Efectos de la ventilación y la calidad de las compresiones torácicas durante la reanimación cardiopulmonar en un modelo animal pediátrico de parada cardiorrespiratoria asfíctica	Jesús López-Herce Cid; Javier Urbano Villaescusa	UCM	23/05/2022
704	Ph Thesis	María Slocker Barrio	Estudio sobre la sepsis pediátrica en el marco del registro ENVIN-HELICS. utilidad de los paquetes de medidas terapéuticas en el manejo de la sepsis grave y el shock séptico pediátrico.	Jesús López-Herce Cid; Santiago Mencía Bartolomé	UCM	08/09/2022

Group	Type	Candidate	Title	Name/s Director/s	University	Date Defended
705B	Ph Thesis	Christian Reynaldo Castro Riera	Correlación entre los valores de FEV1 y DLCO con el VO2max como predictores de morbimortalidad en pacientes sometidos a resección pulmonar debido a cáncer de pulmón	Luis Puente Maestu; Javier de Miguel	UCM	15/02/2022
705B	Ph Thesis	Celia Pinedo Sierra	Estudio de la relación entre el síndrome de apneas-hipopneas del sueño y el síndrome del párpado laxo*	Javier de Miguel; José Manuel Fernández Sánchez-Alarcos	UCM	17/02/2022
705B	Ph Thesis	Marta Fuentes Alonso	Estudio de la epidemiología de la EPOC en España a través de encuestas poblacionales de salud*	Javier de Miguel; María Isabel Jiménez Trujillo	UCM	20/06/2022
728	Ph Thesis	Loredana Arhip	Evaluación económica de la nutrición parenteral domiciliar en el Hospital General Universitario Gregorio Marañón	Cristina Cuerda Compés	UCM	31/01/2022



## Cooperative Research Structures

Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
101	CIBER	CIBERSAM. CIBER Salud Mental	Collaborating group	
101	PLATAFORMAS	PLATAFORMA MODELOS ANIMALES E IMAGEN BIOMÉDICA	Collaborating group	PT20/00044
101	Others	Red Madrileña de Nanomedicina en Imagen Molecular	Coordinating Group	RENIM - CM
101	Others	Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica	Coordinating Group	NanoLiver - CM
102	Others	ISBA		
201	CIBER	CENTRO INVESTIGACION BIOMEDICA EN RED (CIBER). CARDIOLOGIA. CIBERCV	Coordinating Group	CB16/11/00292
201	Others	Red de Formación Interdisciplinaria en Regeneración Cardíaca.	Associated Group	EUIN2017-88719
201	Others	"PROGRAMA AVANCELL-CM - Terapias avanzadas de precisión en regeneración y reparación celular y tisular"	Coordinating Group	S2017/BMD-3692
201	Others	Programa ITACA - CM Investigación Traslacional en Arritmias Cardíacas hereditarias	Associated Group	B2017/BMD3738
201	Others	PROGRAMA PREFI-CM - Personalización del Riesgo Embólico mediante el análisis del Flujo Intracardiaco	Coordinating Group	Y2018/BIO-4858
201	RETICS	RED DE TERAPIA CELULAR (TerCel)	Collaborating group	RD16/0011/0029
201	RICORS	TERAV (Red de Terapias Avanzadas) (RICORS)	Collaborating group	RD21/0017/0002
202	CIBER	CIBERCV		CB16/11/00286

Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
203	CIBER	CENTRO INVESTIGACION BIOMEDICA EN RED (CIBER). CARDIOLOGIA. CIBERCV	Coordinating Group	CB16/11/00303
301	CIBER	CIBERSAM	Collaborating group	CB07/09/0023
301	Others	conect4children	Others	c4c
301	Others	ECNP Network	Others	
402	CIBER	CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED (CIBER) EI21 1.3. SIDA e infecciones oportunistas	Collaborating group	CB21/13/0044
402	RETICS	RED ESPAÑOLA DE INVESTIGACIÓN EN SIDA (RIS)	Collaborating group	RD16/0025/0017
501	Others	International Network for Strategic Initiatives in Global HIV Trials (INSIGHT)	Others	
501	Others	Strategies and Treatments for Respiratory Infections & Viral Emergencies		STRIVE
501	RETICS	RED DE INVESTIGACIÓN EN INFLAMACIÓN Y ENFERMEDADES REUMÁTICAS (RIER)	Collaborating group	RD16/0012/0007
501	RICORS	RED DE INVESTIGACIÓN COOPERATIVA ORIENTADAS A RESULTADOS EN SALUD (RICORS) INFLAMACIÓN E INMUNOPATOLOGÍA DE ÓRGANOS Y SISTEMAS ENFERMEDADES INFLAMATORIAS	Collaborating group	RD21/0002/0034
502	CIBER	Centro Investigación Biomédica en Red (CIBER) 2022. Nanotechnology Dendrimers, G2-S16, miRNA, Antiretroviral Therapy, Topical Vaginal Application, Organ Tissue.	Collaborating group	CB22/01/00041
502	PLATAFORMAS	PLATAFORMA DE BIOBANCOS	Collaborating group	PT20/00138

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Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
502	Others	Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños	Collaborating group	PLANTAIDS
502	Others	Pediatric European Network for Treatment of AIDS	Collaborating group	PENTA
502	RETICS	RED ESPAÑOLA DE INVESTIGACIÓN EN SIDA (RIS)	Coordinating Group	RD16/0025/0019
503	RICORS	"RICORS INFLAMACIÓN E INMUNOPATOLOGÍA DE ÓRGANOS Y SISTEMAS ENFERMEDADES INFLAMATORIAS"	Collaborating group	RD21/0002/0034
507	CIBER	CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED (CIBER). EI21 1.3. SIDA e infecciones oportunistas	Coordinating Group	CB21/13/00077
507	Others	Red Española de Estudio de la Tuberculosis Pediátrica	Coordinating Group	pTBred
507	Others	Grupo de Estudio de tuberculosis resistente en niños de la Comunidad de Madrid	Coordinating Group	EREMITA
507	Others	Estudio sobre la influencia genética en la enfermedad meningocócica	Collaborating group	ESIGEM
507	Others	Red de la Infección Congénita por CMV	Collaborating group	REDICCMV
507	Others	Red para el estudio de la enfermedad invasiva por SGA	Collaborating group	PeiSGA
507	Others	Red Nacional de Infección Osteoarticular en niños	Collaborating group	RioPed
507	Others	Red nacional de Kawasaki	Collaborating group	KawaRACE
507	Others	Red Nacional para el Diagnóstico, Tipificación Genética y Actuaciones Terapéuticas de la giardiasis infantil	Collaborating group	RedGlp
507	Others	Red de Investigación Traslacional en Infectología Pediátrica	Collaborating group	RITIP

Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
507	Others	Registro nacional de estudio de casos de infección por ZIKA en el embarazo y recién nacido	Collaborating group	pedZIKA
507	Others	Red de Investigación de la Sociedad española de Urgencias de Pediatría	Collaborating group	RISeuP
507	Others	Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños	Collaborating group	PLANTAIDS
507	Others	Pediatric European Network for Treatment of AIDS	Collaborating group	PENTA
507	Others	Estudio epidemiológico de las infecciones pediátricas por el nuevo coronavirus SARS-CoV-2	Collaborating group	EPICO-AEP
507	Others	Red Europea de Investigación en RSV	Collaborating group	ResVinet
507	Others	Red Estatal de Investigación en Toxoplasmosis Congénita	Collaborating group	REIV-TOXO
507	Others	pediatric Tuberculosis Network European Trials group	Coordinating Group	PTBNET
507	Others	Paediatric invasive S. aureus study	Collaborating group	PISA
507	Others	Sickle cell disease Pediatric Research about Infections Group	Collaborating group	SPRING
507	Others	MultiCenter modified point prevAlence studY of antifungal use in PediatricS in EurOpe	Collaborating group	CALYPSO
602	CIBER	CENTRO INVESTIGACION BIOMEDICA EN RED (CIBER)- (Miguel Martin - Oncología). CIBERONC	Associated Group	CB16/12/00471
602	Others	GEICAM. Grupo Español de Cancer de mama.	Coordinating Group	GEICAM
602	Others	ESMO. European Society for Medical Oncology	Others	ESMO
602	Others	TRIO. Translational Research In Oncology	Coordinating Group	TRIO

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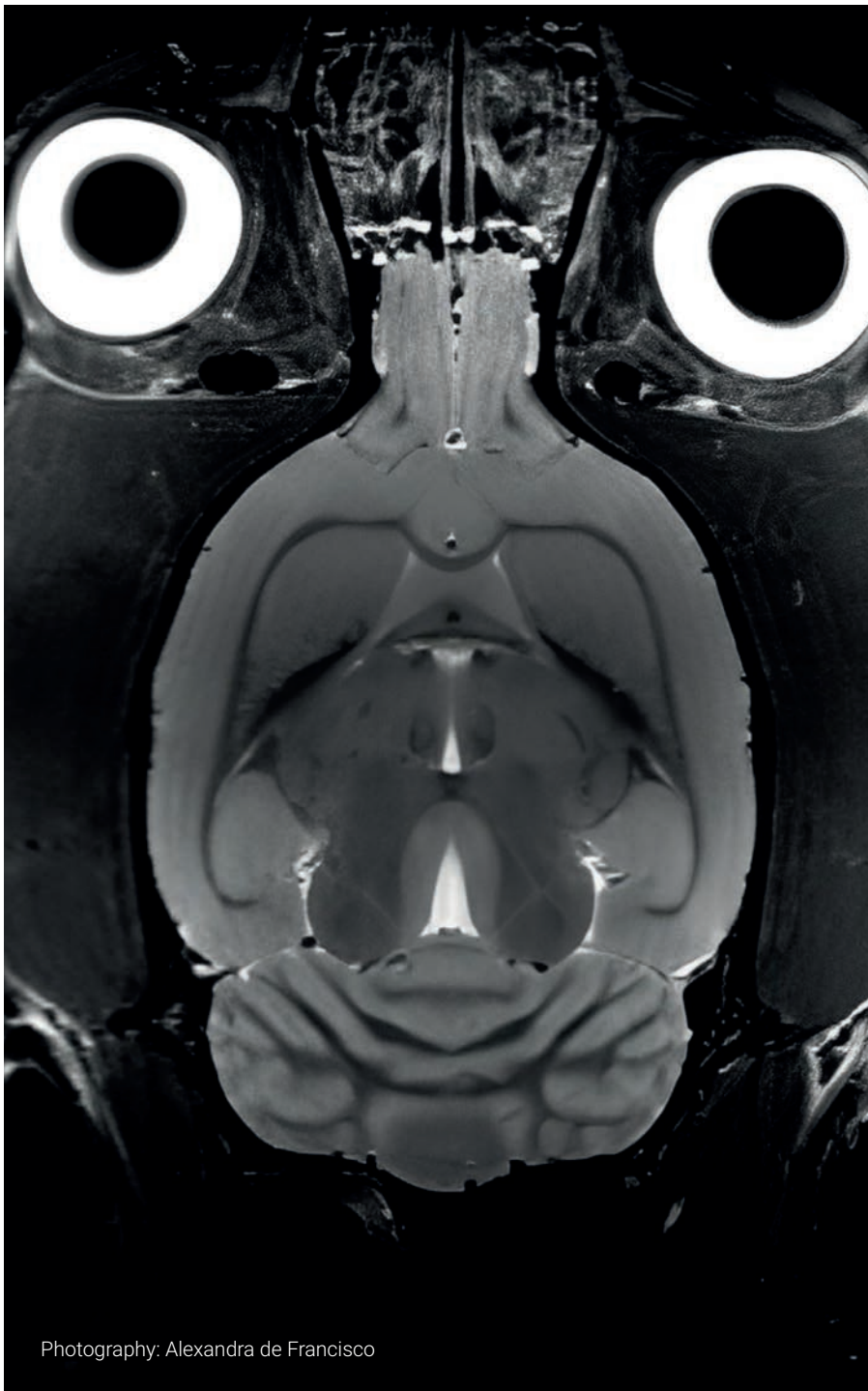




Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
602	Others	GEIS. Grupo Español de Investigación en Sarcomas.	Others	GEIS
602	Others	TTD. Grupo de Tratamiento de los Tumores Digestivos	Others	TTD
602	Others	SOGUG. Grupo Español de Oncología Genitourinaria.	Others	SOGUG
602	Others	SEOM. Sociedad Española de Oncología Médica	Others	SEOM
602	Others	GEM. Grupo Español Multidisciplinar de Melanoma	Others	GEM
602	Others	EUROPACOLON España. Asociación cáncer colorrectal	Others	EUROPACOLON
602	Others	Grupo ECO para la calidad en la Oncología	Others	ECO
602	Others	SOMA. Sociedad Oncológica Madrileña	Others	SOMA
602	Others	BCIRG. Breast Cancer Internacional Research Group	Others	BCIRG
602	Others	CIBOMA. Coalición Iberoamericana de Oncología Mamaria	Others	CIBOMA
602	Others	ASCO. American Society of Clinical Oncology	Others	ASCO
602	Others	CECOG. Central European Cooperative Oncology Group	Others	CECOG
602	Others	EBCTCG. Early Breast Cancer Trialist Cooperative Group	Others	EBTC
603	PLATAFORMAS	Plataforma ISCIII de dinamización e innovación de las capacidades industriales del SNS y su transferencia efectiva al sector productivo	Collaborating group	PT20/00159
701	Others	CONSORCIO PARA EL ESTUDIO DEL FRACASO RENAL AGUDO: FISIOPATOLOGIA, NUEVAS TERAPIAS, BIOMARCADORES Y MODELOS EXPERIMENTALES	Associated Group	CIFRA2-CM B2017/BMD-3686

Group	Type (RICORS, CIBER, PLATAFORMAS, Others)	Name of Network	Role	Code
701	RETICS	RED DE INVESTIGACIÓN RENAL.. REDINREN	Collaborating group	RD16/0009/0026
701	RICORS	RED DE INVESTIGACIÓN COOPERATIVA ORIENTADAS A RESULTADOS EN SALUD (RICORS)	Collaborating group	RD21/0005/0029
702	CIBER	CIBER Enfermedades Hepaáticas y Digestivas. CIBEREHD	Collaborating group	
704	RETICS	RED DE SALUD MATERNO-INFANTIL Y DEL DESARROLLO	Collaborating group	RD16/0022/0007
704	RICORS	RED DE INVESTIGACIÓN COOPERATIVA ORIENTADAS A RESULTADOS EN SALUD (RICORS). PRIMARY CARE INTERVENTIONS TO PREVENT MATERNAL AND CHILD CHRONIC DISEASES OF PERINATAL AND DEVELOPMENTAL ORIGIN	Collaborating group	RD21/0012/0011
705B	Others	RED GENOBIA-CM DISEÑO, MEDIANTE INTELIGENCIA ARTIFICIAL, DE ALGORITMOS PREDICTIVOS PARA LA IDENTIFICACIÓN DE INDIVIDUOS EN RIESGO DE DESARROLLAR SOBREPESO/OBESIDAD Y SUS PATOLOGÍAS ASOCIADAS: APORTACIÓN DEL ANÁLISIS GENÉTICO	Associated Group	
721	CIBER	entro de Investigación Biomédica en Red Fragilidad y Envejecimiento Saludable. CIBERFES	Collaborating group	CIBERFES
721	Others	Registro Nacional de Fractura de Cadera	Collaborating group	RNFC
727	PLATAFORMAS	SCREN	Collaborating group	
734	RICORS	RED DE INVESTIGACIÓN EN CRONICIDAD, ATENCIÓN PRIMARIA Y PROMOCIÓN DE LA SALUD (RICAPPS)	Collaborating group	RD21/0016/0027
Clinical Trials Unit	PLATAFORMAS	PLATAFORMA ISCIII DE SOPORTE PARA LA INVESTIGACIÓN CLÍNICA INDEPENDIENTE	Collaborating group	PT20/00177





Photography: Alexandra de Francisco

# 5

## Scientific Activity by Area

- Biomedical Engineering • **Area 1**
- Cardiovascular Diseases • **Area 2**
- Neuroscience and Mental Health • **Area 3**
- Infectious Diseases and AIDS • **Area 4**
- Diseases of the Immune System • **Area 5**
- Translational Oncology • **Area 6**
- Systemic Diseases and Organ  
Transplantation • **Area 7**
- Nursing Research Group



# AREA 1

## BIOMEDICAL ENGINEERING

*Area coordinator:*  
**Manuel Desco Menéndez**

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

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

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

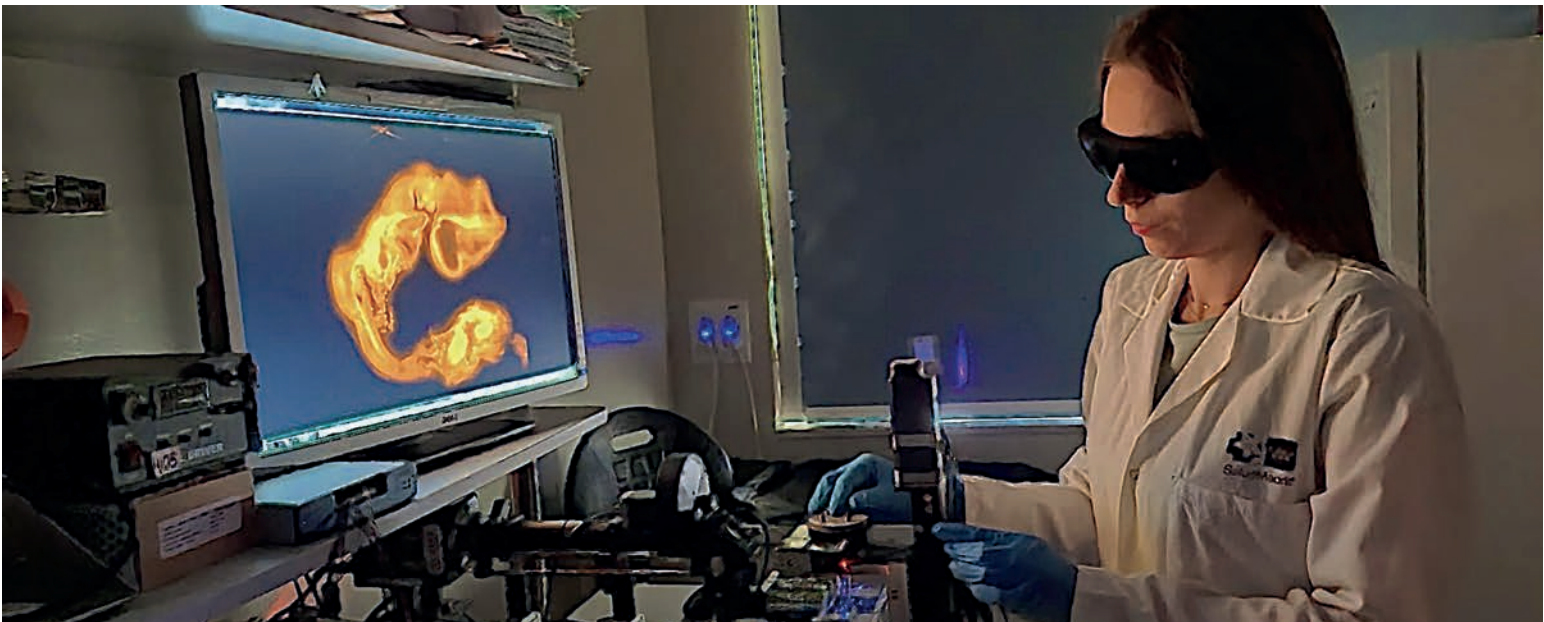
Its marked technological character makes the Area of Biomedical Engineering a key player in obtaining funds from EU framework programs. Greater emphasis will be placed on this activity in the coming years.

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

# Groups in AREA **1**

## **BIOMEDICAL ENGINEERING**

- ▶ 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 image



Photography: Elena Fernández-Cortés Navia





Group Director: **MANUEL DESCO MENÉNDEZ**

Organisms involved: **HGUGM-UC3M**

Type: **Consolidated Group**

## Research lines

### Axis 1: Imaging support for Clinical Research

- ▶ L1: Neuroimaging processing

### Axis 2: Technological development

- ▶ L1: Advanced radiological imaging
- ▶ L2: Tissue clarification and SPIM

### Axis 3: Biomedical experimentation

- ▶ L1: Molecular probes for biomedical imaging
- ▶ L2: Animal models for molecular imaging
- ▶ L3: Low-dose radiation effects
- ▶ L4: Animal models of drug abuse

The area of Biomedical Engineering provides a complementary and clearly enriching vision of the research traditionally carried out in Biomedicine. Its technological component, the transversality and immediacy of its application as well as its clear orientation towards innovation, give the area a notable added value.

On the other hand, this area represents the link between the Instituto de Investigación Sanitaria Gregorio Marañón and the Universidad Carlos III and, in addition to its research activity, it develops the central part of the undergraduate studies of the Biomedical Engineering degree taught by this University, promoting, through interdisciplinary cooperation, the improvement of multidisciplinary research capacity, the rapid transfer of knowledge and, in short, to respond effectively to the important questions arising from the field of Biomedicine.

## Group members

- **Abella García, Mónica:** R3. Established Researcher.
- **Abella Larraz, Jaime:** Other. Support Technician.
- **Aguilera Jiménez, Elena:** R1. First Stage Researcher.
- **Álvarez Rubio, Ana:** Other. Support Technician.
- **Barco Tejada, Ainara:** R1. First Stage Researcher.
- **Brooks, Claire Jordán:** R1. First Stage Researcher.
- **Calle Hernández, Daniel:** Other. Support Technician.
- **Carmona Cañabate, Susana:** R3. Established Researcher.
- **Carravilla Expósito, Eva:** Other. Support Technician.
- **Chil Pérez, Rigoberto:** R2. Recognised Researcher.
- **Cusso Mula, Lorena:** R3. Established Researcher.
- **Delgado Rodríguez, Pablo:** R1. First Stage Researcher.
- **Descó Menéndez, Manuel:** R4. Leading Researcher.
- **Eguibar Blázquez, Diego:** Other. Support Technician.
- **Felipe Maestre, María de la Jara:** Other. Support Technician.
- **Fernández del Cerro, Carlos:** R1. First Stage Researcher.
- **Fernández Fernández, Roberto:** R2. Recognised Researcher.
- **Fernández Pena, Alberto:** R2. Recognised Researcher
- **Fernández-Cortés Navia, Elena:** Other. Support Technician.
- **Ferrer Bazaga, Santiago:** R4. Leading Researcher.
- **De Francisco López, Alexandra:** Other. Support Technician.
- **Galán González, Agustín:** Other. Support Technician.
- **Garrido Huerta, Trajana:** Other. Management.
- **Gómez Gavero, María Victoria:** R3. Established Researcher.
- **Gómez Martín, Adrián:** Other. Trainee.
- **González Álvarez, Alba:** R2. Recognised Researcher.
- **González Arjona, Mario:** R1. First Stage Researcher.
- **González Gutiérrez, María Isabel:** R2. Recognised Researcher.
- **Herreros Pérez, Desire:** R1. First Stage Researcher.
- **Hidalgo Torres, Leandro Alexis:** R1. First Stage Researcher.
- **Jorcano Noval, José Luis:** R4. Leading Researcher.
- **Lamanna Rama, Nicolás:** R1. First Stage Researcher.
- **Llorente Úbeda, Vicente:** R1. First Stage Researcher.

Continued on next page





## Group members (cont.)

- **Lobo Vega, Rebeca María:** Other. Senior Support Technician.
- **López Expósito, Patricio Roberto:** R2. Recognised Researcher.
- **López Montoya, Gonzalo:** Other. Management.
- **Macías Gordaliza, Pedro:** R2. Recognised Researcher.
- **Marcos Vidal, Luis:** R2. Recognised Researcher.
- **Martín de Blas, Daniel:** Other. Senior Support Technician.
- **Martínez García, Magdalena:** R1. First Stage Researcher.
- **Martínez Sánchez, Cristóbal:** R2. Recognised Researcher.
- **Mendoza Losana, Alfonso:** R3. Established Researcher.
- **Moyano López, Iván:** Other. Trainee.
- **Moreno Camacho, Jorge:** Other. Trainee.
- **Moreta Martínez, Rafael:** R2. Recognised Researcher.
- **Muñoz Barrutia, María Arrate:** R3. Established Researcher.
- **Navas Sánchez, Francisco Javier:** Other. Support Technician.
- **Nicolás Saenz, Laura:** R1. First Stage Researcher.
- **Pascual González Garzón, Javier:** R3. Established Researcher.
- **Paternina Die, María del Carmen:** R1. First Stage Researcher.
- **Pena Gil, Aida de la Fe:** Other. Senior Support Technician.
- **Pérez Benito, David:** R2. Recognised Researcher.
- **Piol, Alessandro:** R1. First Stage Researcher.
- **Pose Díez de la Lastra, Alicia:** R1. First Stage Researcher.
- **Ripoll Lorenzo, Jorge:** R3. Established Researcher.
- **Rodríguez Casau, Elena:** Other. Management.
- **Rodríguez Hita, Antonio:** Other. Management.
- **Sakaltras, Nikolaos:** R1. First Stage Researcher.
- **Salinas Rodríguez, Beatriz:** R3. Established Researcher.
- **Sánchez Puerto, Daniel:** Other. Senior Support Technician.
- **Sanderson Moreno, Daniel:** R1. First Stage Researcher.
- **Santos Coquillat, Ana María:** R2. Recognised Researcher.
- **Sierra Palomares, Yolanda:** Other. Support Technician.
- **Soto Montenegro, María Luisa:** R3. Established Researcher.
- **Vaquero López, Juan José:** R4. Leading Researcher.
- **Velasco Bayón, Diego:** R4. Leading Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	2	4		
National	9	10	6	
Regional	2	1	6	9

- 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: European Commission (Framework Program)  
Start date: 01/10/2020  
End date: 30/09/2025
- 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: European Commission (Framework Program)  
Start date: 01/07/2022  
End date: 30/06/2026
- Title: **Monitorización de tratamiento y respuesta a infecciones estafilocócicas mediante imagen inmunoPET empleando trazadores específicos.** PI20/01632  
Director: Salinas Rodríguez, Beatriz  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023







- Title: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardiaco** PI18/00462  
Director: Gómez Gaviro, María Victoria  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/03/2022
- Title: **Imagen molecular de la Infección por Clostridium Difficile.** FRA20/02  
Director: Salinas Rodríguez, Beatriz  
Project type: Research project  
Funding body: Fundación Ramón Areces  
Start date: 12/05/2021  
End date: 12/05/2024
- Title: **Dynamics of the neural, hormonal and neuropsychological signatures underlying the adaptations for motherhood during pregnancy.** LCF/PR/HR19/52160001  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: "La Caixa" Banking Foundation  
Start date: 15/09/2019  
End date: 15/09/2023
- 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: **Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica.** Y2018/NMT-4949  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Consejería de Educación d Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anthi-Stapgyloccal antibodies and Immune-PET.** FBBVA18/01  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Fundación BBVA  
Start date: 30/04/2019  
End date: 29/04/2022





- Title: **Red Madrileña de Nanomedicina en Imagen Molecular**. S2017/BMD-3867  
Director: Desco Menéndez, Manuel  
Project type: Research network  
Funding body: Consejería Educación de la Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Sara Borrell**. CD19/00136  
Director: Salinas Rodríguez, Beatriz (Santos Coquillat, Ana María)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2022
- Title: **Predoctoral contract** FI18/00255  
Director: Carmona Cañabate, Susana (Martínez García, Magdalena)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/05/2023
- Title: **Movilidad profesionales sanitarios e investigadores del SNS 2021**. BA21/00030  
Director: Soto Montenegro, María Luisa  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 16/05/2022  
End date: 15/07/2022
- Title: **Miguel Servet II 2021**. CPII21/00016  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/06/2022  
End date: 31/05/2025
- Title: **Movilidad personal investigador contratado en el marco de la AES (M-AES)**. MV20/00004  
Director: Salinas Rodríguez, Beatriz (Santos Coquillat, Ana María)  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/09/2021  
End date: 03/03/2022
- Title: **Miguel Servet I 2016**. MS16/00096  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/05/2022
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2019-PRE/BMD-16977  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 01/01/2020  
End date: 19/02/2022
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2019-PRE/TIC-17061  
Director: Desco Menéndez, Manuel  
Project type: Human Resources  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 01/02/2020  
End date: 31/01/2022
- Title: **Research Assistant**. PEJ-2020-AI/BMD-17680  
Director: Soto Montenegro, María Luisa (Lobo Vega, Rebeca)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid



Start date: 01/01/2021

End date: 31/12/2022

- Title: **Laboratory technician.** PEJ-2020-TL/BMD-19331  
Director: Desco Menéndez, Manuel (Felipe Maestre, María de la Jara)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Laboratory technician.** PEJ-2020-TL/BMD-19418  
Director: Gómez Gaviro, María Victoria (Fernández-Cortés Navia, Elena)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Research Assistant.** PEJ-2021-AI/BMD-23350  
Director: Desco Menéndez, Manuel (Abella Larraz, Jaime)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/11/2022  
End date: 31/10/2024

#### **Not managed by FIBHGM**

- Title: **Artificial intelligence for image data analysis in the life sciences.** GA - 101057970  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: European Commission  
Start date: 01/09/2022  
End date: 3/08/2025
- Title: **Cust-MeDD - Custom Medical Device Development. 2020-2023. CONEX-PLUS.** 2019/0097 (H2020-MSCA-COFUND-2017-UE)  
Director: Pascau González-Garzón, Javier/Gómez Álvarez, Alba  
Project type: Research project  
Funding body: European Commission

Start date: 23/11/2020

End date: 23/11/2023

- Title: **European Regimen Accelerator for Tuberculosis.** GA - 853989  
Director: Vaquero López, Juan José  
Project type: Research project  
Funding body: European Commission  
Start date: 01/01/2020  
End date: 31/12/2025
- Title: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level.** GA-801347  
Director: Ripoll, Jorge  
Project type: Research project  
Funding body: European Commission  
Start date: 01/11/2018  
End date: 31/10/2022
- Title: **Sistema Microfluido para Aplicaciones en Tejido en un Chip.** CPP2021-008396  
Director: Velasco Bayón, Diego  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/09/2022  
End date: 31/08/2025
- 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: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2022  
End date: 30/11/2024
- Title: **Development of a dynamic, functional and personalized 3D melanoma model-on-a-CHIP.** PID2021-1265230B-I00.  
Director: Velasco Bayón, Diego/Gago, Nuria





Project type: Research project

Funding body: AEI. Ministerio de Ciencia e Innovación

Start date: 01/01/2022

End date: 31/08/2025

- Title: **Nuevo sistema radiológico multifunción de baja dosis (MULTI-RAD)**. PDC2021-121656-I00.  
Director: Abella García, Mónica  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2023
- Title: **IN-DEPTH - INtelligent modular DEtector for PET**. PDC2021-121788-I00].  
Director: Vaquero López, Juan José  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2023
- Title: **Clustering Automático de Comportamientos de invertebrados en libertad mediante imagen 3D**. PID2020-115088RB-I00.  
Director: Ripoll Lorenzo, Jorge/Moscoso Castro, Miguel  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/09/2021  
End date: 31/08/2025
- Title: **Plataforma de imagen multi-escala para acelerar el desarrollo de fármacos contra infecciones pulmonares**. PID2019-109820RB-I00.  
Director: Muñoz Barrutia, Arrate/Vaquero López, Juan José  
Project type: Research project  
Funding body: AEI. Ministerio de Ciencia e Innovación  
Start date: 01/06/2020  
End date: 31/05/2023
- Title: **Hormesis inducida por radiación en oncología (RADHOR)**. PID2019-110369RB-I00.

Director: Desco Menéndez, Manuel/Cussó Mula, Lorena

Project type: Research project

Funding body: AEI. Ministerio de Ciencia e Innovación

Start date: 01/06/2020

End date: 31/05/2023

- Title: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales**. RTC-2017- 6600-1  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Reconstrucción tomográfica para sistemas de rayos X de baja dosis mediante aprendizaje automático y dispositivos gráficos**. DEEPC-T-CM-UC3M  
Director: Abella García, Mónica  
Project type: Research project  
Funding body: Comunidad de Madrid/UC3M  
Start date: 01/01/2020  
End date: 31/03/2022
- Title: **Personalized Planning in Radio Therapy Through Integrative Modeling of Local Dose Effect and New Dosimetric Constraints**.  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: AECC (Asociación Española Contra el Cáncer) Junta de Madrid  
Start date: 01/12/2020  
End date: 30/11/2023
- Title: **Ayudas para contratos predoctorales para la formación de doctores (AEI)**. PRE2020-095268  
Director: Desco Menéndez, Manuel/Cussó Mula, Lorena (Barco Tejada, Ainara)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/08/2021  
End date: 31/07/2025





- Title: **Ayudas para personal técnico de apoyo (AEI)**. PTA2020-019246-I  
Director: Desco Menéndez, Manuel (Fernández Pena, Alberto)  
Project type: Human Resources  
Funding body: Ministerio de Ciencia e Innovación  
Start date: 01/12/2021  
End date: 30/11/2024
- Title: **Ayudas para estancias de movilidad en el extranjero “Madariaga” para profesores senior**. PRX21/00435  
Director: Pascau González-Garzón, Javier  
Project type: Human Resources  
Funding body: Ministerio de Universidades  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Ayuda para contratación de Técnico de Laboratorio (Programa de Empleo Juvenil)**. PEJ-2021-TL/BMD-23097  
Director: Velasco Bayón, Diego (Martín Martín-Doimeadios, Miguel)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/11/2022  
End date: 31/10/2024
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Desco Menéndez, Manuel (Marcos Vidal, Luis)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/11/2018  
End date: 31/10/2022
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Sakaltras, Nikolaos)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 03/09/2018  
End date: 02/09/2022
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Desco Menéndez, Manuel (Sanderson Moreno, Daniel)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 05/09/2022  
End date: 04/09/2026
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Fernández del Cerro, Carlos)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/09/2022  
End date: 31/08/2026
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Piol, Alessandro)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 01/02/2019  
End date: 30/06/2023



### Industrial and Intellectual Property Registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Aparato de tomografía multimodal	P 2005 02612 7 patents	FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A.	Juan José Vaquero, Manuel Desco
Ciclotrón clásico superconductor compacto	P 2013 30626	UC3M - CIEMAT	Luis García-Tabarés, Concepción Oliver, Fernando Toral, Daniel Gavela, Diego Obradors, Cristina Vázquez, Iván Podadera, Javier Munilla, Jesús Calero, José M. Pérez, Friederich Haug
Equipo y método de generación de tomografías	P 2017 30341 (3 patents)	FIBHGM - UC3M	Manuel Desco, Mónica Abella
Light Sheet Microscope and procedure for extended samples	P 2018 30912	UC3M	Jorge Ripoll Lorenzo
Mobile 3D imaging system based on light sheet microscopy	P 2018 30913	UC3M	Jorge Ripoll Lorenzo
Equipo y simulación para control de hemorragias	P 2017 30568	FIBHGM - Medical Simulator	Manuel Desco, Juan Francisco del Cañizo
Compuestos radiactivos basados en proteínas selectivas de bacteriemias para la detección no invasiva de focos infecciosos	P 202030838 (2 patents)	FIBHGM - UC3M	Beatriz Salinas, Manuel Desco, Patricia Muñoz, Emilio Bouza
Tapón antirreflujo	EP22382591.0	FIBHGM - UC3M - Ownmed - FIISFJD	Manuel Desco, Ana Ye, Jesús García-Foncillas

■ Transferred Industrial Property.

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





### Copyright

Title	Reference	Owner	Inventors
MANGOOSE	Nº Asiento Registral: 02/2010/4412	FIBHGM	Javier Pascau, Manuel Desco, Mónica Abellá, Alejandro Sisniega, Juan José Vaquero
CUSQ: CARDIO US/ Quantification	Nº Asiento Registral: 16/2010/303	FIBHGM - UPM	Manuel Desco, María Jesús Ledesma, Andrés de Santos
FIRST (Fast Iterative Reconstruction Software for Tomography)	Nº Depósito Notarial: 3806	FIBHGM	José Manuel Udías, Joaquín López, Samuel España, Manuel Desco, Juan José Vaquero
QuTIS (Quantification Tool for in vivo Spectroscopy)	Nº Depósito Notarial: 5095	FIBHGM	Manuel Desco, Juan José Vaquero
MMWKS	Sin número registro	FIBHGM	Manuel Desco, Juan José Vaquero
MRSITool - software para la cuantificación de estudios de imagen estroptoscópica	Sin número registro	FIBHGM	Manuel Desco
RapTor	Nº Asiento Registral: 16/2017/7104	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero
XAP-LAB	Nº Asiento Registral: 16/2017/7106	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Álvaro Martínez, Alba García
FUX-SIM	Nº Asiento Registral: 16/2017/7105	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Inés García, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero

Title	Reference	Owner	Inventors
TomoX3D - Reconstrucción avanzada para sistemas de tomosíntesis	Nº Asiento Registral: 16/2021/8484	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
STRAY - Plataforma de simulación para sistemas de radiología	Nº Asiento Registral: 16/2021/8485	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
REXCT: Algoritmo rápido de reconstrucción de imagen tomográfica	Nº Asiento Registral: 16/2021/8486	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Francisco Javier García Blas, Jesús Carretero
CIBERSAMXnat: Plataforma de almacenado de datos de Neuroimagen en entorno Cloud	16/2021/5024	CIBER, FIBHGM	Manuel Desco, Susana Carmona, Daniel Martín de Blas, David García, Alberto Fernández

■ Transferred Industrial Property.

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
Platform	Plataforma modelos animales e imagen biomédica	Coordinating group
CIBER	CIBERSAM. CIBER Salud Mental	Collaborating group
Others	Red Madrileña de Nanomedicina en Imagen Molecular	Coordinating group
Others	Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica	Coordinating group





### Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Luis Diego Romero Miguel	Prevención de la esquizofrenia: utilización de estrategias farmacológicas basadas en compuestos antiinflamatorios y antioxidantes en el modelo murino de estimulación inmunitaria materna	María Luisa Soto Montenegro	UC3M	16/09/2022
Ph Thesis	Luis Marcos Vidal	Brain network alterations in attention-deficit and hyperactivity disorder: Towards an integrative perspective based on systems neuroscience	Manuel Desco/ Susana Carmona	UC3M	28/10/2022
Ph Thesis	María Isabel González Gutiérrez	Development of milk exosome-based probes for biomedical imaging	Beatriz Salinas/ Manuel Desco	UC3M	28/11/2022
Ph Thesis	Mónica García Sevilla	Optimization of computer-assisted intraoperative guidance for complex oncological procedures	Javier Pascau González-Garzón	UC3M	25/03/2022
Ph Thesis	Pedro Macias Gordaliza	Tuberculosis burden assessment employing radiological biomarkers	María Arrate Muñoz-Barrutia/ Juan José Vaquero López	UC3M	06/05/2022
Ph Thesis	David Pérez Benito	Archemedeian PET: new optimal tessellation	Juan José Vaquero López	UC3M	24/06/2022

### Publications

Total Impact Factor: 210,1

	Nº	IF
Own publications	22	108,8
Joint publications	16	101,3
First decile publications	7	62,2
First quartile publications	21	149,0
Second quartile publications	14	54,1
Third quartile publications	3	7,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	4	–
<b>Total publications (including those without IF)</b>	<b>42</b>	<b>210,1</b>

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

- Navas-Sánchez, FJ; De Blas, DM; Fernández-Pena, A; Alemán-Gómez, Y; Lage-Castellanos, A; Marcos-Vidal, L; Guzmán-De-Villoria, JA; Catalina, I; Lillo, L; Muñoz-Blanco, JL; Ordóñez-Ugalde, A; Quintans, B; Sobrido, MJ; Carmona, S; Grandas, F; Desco, M. *Corticospinal tract and motor cortex degeneration in pure hereditary spastic paraparesis type 4 (SPG4). AMYOTROPHIC LATERAL SCLEROSIS AND FRONTOTEMPORAL DEGENERATION*. 2022; 23(1-2) 25-34. FI: 2.8. Cuartil: 3. (Article).
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- Moreno-Mateos, MA; González-Rico, J; Nunez-Sardinha, E; Gómez-Cruz, C; López-Donaire, ML; Lucarini, S; Arias, A; Muñoz-Barrutia, A; Velasco, D; García-González, D. *Magneto-mechanical system to reproduce and quantify complex strain patterns in biological materials*. *APPLIED MATERIALS TODAY*. 2022; 27. FI: 8.3. Cuartil: 1. (Article).
- Belenguer-Llorens, A; Sevilla-Salcedo, C; Desco, M; Soto-Montenegro, ML; Gómez-Verdejo, V. *A Novel Bayesian Linear Regression Model for the Analysis of Neuroimaging Data*. *APPLIED SCIENCES-BASEL*. 2022; 12(5). FI: 2.7. Cuartil: 2. (Article).





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- Santos-Coquillat, A; González, MI; Clemente-Moragon, A; González-Arjona, M; Albaladejo-García, V; Peinado, H; Muñoz, J; Embun, PX; Ibanez, B; Oliver, E; Desco, M; Salinas, B. *Goat Milk Exosomes As Natural Nanoparticles for Detecting Inflammatory Processes By Optical Imaging*. SMALL. 2022; 18(6). FI: 13.3. Cuartil: 1. (Article).
- Alemán-Gómez, Y; Arribas-Gil, A; Desco, M; Elias, A; Romo, J. *Depthgram: Visualizing outliers in high-dimensional functional data with application to fMRI data exploration*. STATISTICS IN MEDICINE. 2022; 41(11) 2005-2024. FI: 2. Cuartil: 2. (Article).

**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- García-Blas, J; Muñoz, JF; Carretero, J; Marozzo, F; Talia, D; Trunfio, P; Fernández-Pena, A; de Blas, DM. *Convergence of HPC and Big Data*

*in extreme-scale data analysis through the DCEx programming model*. INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE AND HIGH PERFORMANCE COMPUTING. 2022; 130-139. (Proceedings Paper).

**Other publications**

- Martínez-García M; Cardenas SI; Pawluski J; Carmona S; Saxbe DE. *Recent Neuroscience Advances in Human Parenting*. ADVANCES IN NEUROBIOLOGY. 2022; 27 239-267. (Article).
- Franco-Barranco D; Pastor-Tronch J; González-Marfil A; Muñoz-Barrutia A; Arganda-Carreras I. *Deep learning based domain adaptation for mitochondria segmentation on EM volumes*. COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE. 2022; 222 106949-106949. (Article).
- Marcos-Vidal L; Martínez-García M; Martín-de Blas D; Navas-Sánchez FJ; Pretus C; Ramos-Quiroga JA; Richarte V; Vilarroya Ó; Sepulcre J; Desco M; Carmona S. *Local Functional Connectivity as a Parsimonious Explanation of the Main Frameworks for ADHD in Medication-Naïve Adults*. JOURNAL OF ATTENTION DISORDERS. 2022; 26(12) 1563-1575. (Article).







Group Director: **ANTONIO ARTÉS RODRÍGUEZ**

Organisms involved: **UC3M**

Type: **Consolidated Group**

## 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

The Signal Processing and Learning Group focuses its research and teaching activity 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 or social sciences.

## Group members

- **Alcaide Cea, Marina:** R1. First Stage Researcher.
- **Artés Rodríguez, Antonio:** R4. Leading Researcher.
- **Barrejón Moreno, Daniel:** R1. First Stage Researcher.
- **Bonilla Escribano, Pablo:** R2. Recognised Researcher.
- **Carretero Villajos, Patricia:** R1. First Stage Researcher.
- **Chao Qi:** R2. Recognised Researcher.
- **Cobo Aguilera, Aurora:** R1. First Stage Researcher.
- **De León Martínez, Santiago.**
- **García Fernández, Susana.**
- **García Serrano, Sara.**
- **García Martín, Rafael:** R1. First Stage Researcher.
- **Garrido Fernández, David.**
- **González Hernández, Omar Fabián:** R1. First Stage Researcher.

- **Hernando Gallego, Francisco:** R2. Recognised Researcher.
- **Herrera López, Jesus:** R1. First Stage Researcher.
- **Herrero Quevedo, Diego.**
- **Jiménez Rama, Óscar M.:** R1. First Stage Researcher.
- **Koch Tobías:** R3. Established Researcher.
- **López Galdo, Antia.**
- **López Elvira, Igor:** Other. Scientific Manager.
- **López Santiago, Javier:** R3. Established Researcher.
- **Martínez Ordóñez, José Alberto:** R1. First Stage Researcher.
- **Martínez Olmos, Pablo:** R3. Established Researcher.
- **Martínez García, María:** R1. First Stage Researcher.
- **Míguez Arenas, Joaquín:** R3. Established Researcher.
- **Moreno, Jorge Augusto.**
- **Moreno Muñoz, Pablo:** R2. Recognised Researcher.
- **Moreno Pino, Fernando:** R1. First Stage Researcher.
- **Pascual Sánchez, Lidia:** R1. First Stage Researcher.
- **Paz Albaizar, Leire.**
- **Peinado Serrano, Jose:** R1. First Stage Researcher.
- **Peis Aznarte, Ignacio:** R1. First Stage Researcher.
- **Peleato Iñarrea, Borja M.:** R3. Established Researcher.
- **Pérez Sada, Pablo.**
- **Pérez Cruz, Fernando:** R3. Established Researcher.
- **Pérez Vieites, Sara:** R2. Recognised Researcher.
- **Ramírez García, David:** R3. Established Researcher.
- **Rodríguez de Diago, Marta:** R1. First Stage Researcher.
- **Romero Medrano, Lorena:** R1. First Stage Researcher.
- **Salcedo Fernández, Miguel:** R1. First Stage Researcher.
- **Sukei Emese:** R1. First Stage Researcher.
- **Sztamfater García, Yannick:** R1. First Stage Researcher.
- **Vázquez López, Manuel Alberto:** R3. Established Researcher.
- **Vázquez Vilar, Gonzalo:** R3. Established Researcher.
- **Villacrés Estrada, Grace:** R2. Recognised Researcher.
- **Villalba Oliva, Miguel Ángel.**
- **Watman Outon, Andrés Emilio.**
- **Yáñez Montesdeoca, Alberto:** R1. First Stage Researcher.





## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International		1		
European				1
National		4		
Regional		4	6	7

### Not managed by the FIBHGM

- Title: **Space-time sequential schemes and Bayesian inference methods for continuous-time stochastic systems** N00014-22-1-2647  
 Director: Míguez Arenas, Joaquín  
 Project type: International research project  
 Funding body: Office of Naval Research (ONR)  
 Start date: 01/10/2022  
 End date: 30/09/2025
- Title: **Modelos profundos y explicables basados en variables latentes para salud mental** PID2021-123182OB-I00  
 Director: Martínez Olmos, Pablo/Ramírez, David  
 Project type: Research project  
 Funding body: Agencia Estatal de Investigación  
 Start date: 01/09/2022  
 End date: 31/08/2025
- Title: **Cuantificación de Incertidumbre en Modelos Físicos Estocásticos: Filtros Profundos y Metodos de Monte Carlo Espacio-Temporales** PID2021-125159NB-I00  
 Director: Míguez Arenas, Joaquín/Vázquez, Manuel A.  
 Project type: Research project  
 Funding body: Agencia Estatal de Investigación  
 Start date: 01/09/2022  
 End date: 31/08/2025
- Title: **Expansiones asintóticas generalizadas y refinadas para teoría de la información en longitud finita: Comunicaciones inalámbricas y comunicaciones por canales clásico-cuánticos** PID2020-116683GB-C21  
 Director:  
 Project type: Research project  
 Funding body: Agencia Estatal de Investigación  
 Start date: 01/09/2021  
 End date: 31/08/2025
- Title: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-100  
 Director: Artés Rodríguez, Antonio/ Míguez Arenas, Joaquín  
 Project type: Research project  
 Funding body: Ministerio de Ciencia, Innovación y Universidades  
 Start date: 01/10/2019  
 End date: 30/09/2022
- Title: **Investigación fundamental en teoría de la señal, aprendizaje máquina y tecnologías de telecomunicaciones** EPUC3M  
 Director: Ramírez García, David  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad ee Madrid  
 Start date: 01/01/2020  
 End date: 31/12/2022
- Title: **Sistema de atención domiciliaria inteligente e interactivo para la mitigación de la pandemia del COVID-19** IntCARE-CM  
 Director: Artés Rodríguez, Antonio  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad ee Madrid  
 Start date: 01/02/2020  
 End date: 31/12/2022
- Title: **Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705  
 Director: Artés Rodríguez, Antonio  
 Project type: Research project







Funding body: Consejería de Educación e Investigación. Comunidad ee Madrid

Start date: 01/01/2019

End date: 30/06/2022

- Title: **Sistema de monitorización de estado para detección de fisuras en ejes ferroviarios (SMEPDFEF-CM-UC3M)** PIUC3M2021\_09  
Director: Martínez Olmos, Pablo/Gómez García, María Jesús  
Project type: Research project  
Funding body: UC3M  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **Marie Skłodowska-Curie Innovative Training Networks.** GA N°813533  
Director: Artés Rodríguez, Antonio (Sukei, Emese)  
Project type: Human Resources  
Funding body: European Commission  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Detection of behavioral changes and its application in psychiatry.** IND2018/TIC-9574  
Director: Ramírez García, David (Carretero Villajos, Patricia)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 04/02/2019  
End date: 03/02/2022
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models.** IND2018/TIC-9649  
Director: Martínez Olmos, Pablo (Romero Medran, Lorena)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 25/02/2019  
End date: 24/02/2022

- Title: **Domain Alignment and Data Wrangling with Deep Generative Models.** IND2020/TIC-17372  
Director: Martínez Olmos, Pablo (Armarío, Arturo)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 16/02/2021  
End date: 23/01/2022
- Title: **Ayudas para la realización de contratos para técnicos de Laboratorio.** AI/TIC-17888  
Director: Artés Rodríguez, Antonio (Peinado, José)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/03/2021
- Title: **Programa Atracción del Talento Investigador CM (2020).** 2020-T1/TIC-20698  
Director: Peleato, Borja  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 27/12/2021
- Title: **Industrial Doctorates.** IND2020/TIC-17539  
Director: Míguez Arenas, Joaquín (Cano, Alejandro)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Industrial Doctorates.** IND2022/TIC-23550  
Director: Martínez Olmos, Pablo (Jiménez Rama, Óscar Manuel)  
Project type: Human Resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 18/11/2022  
End date: 17/11/2025





## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P 2017 31161	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz

■ Transferred Industrial Property.

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

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBERSAM	Associated group
Other	The International Society for Bayesian Analysis (ISBA)	

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Sara Pérez Vieites	Nested filtering methods for Bayesian inference in state space models	Joaquín Míguez Arenas	UC3M	28/1/2022
Ph Thesis	Pablo Bonilla Escribano	Objective Assessment of Psychiatric Patients via Machine Learning	Antonio Artés Rodríguez	UC3M	16/3/2022
Ph Thesis	Aurora Cobo Aguilera	Probabilistic Models and Natural Language Processing in Health	Antonio Artés Rodríguez	UC3M	15/12/2022
Ph Thesis	Emese Sűkei	A Step Towards Advancing Digital Phenotyping In Mental Healthcare	Antonio Artés Rodríguez	UC3M	19/12/2022

## Publications

Total Impact Factor: 53,7

	Nº	IF
Own publications	5	27,8
Joint publications	6	25,9
First decile publications	2	18,1
First quartile publications	3	24,9
Second quartile publications	5	21,3
Third quartile publications	3	7,5
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	1	–
<b>Total publications (including those without IF)</b>	<b>12</b>	<b>53,7</b>

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

- de León-Martínez, S; Ruiz, M; Parra-Vargas, E; Chicchi-Giglioli, I; Courtet, P; López-Castroman, J; Artes, A; Baca-García, E; Porras-Segovia, AA; Barrigon, ML. *Virtual reality and speech analysis for the assessment of impulsivity and decision-making: protocol for a comparison with neuropsychological tasks and self-administered questionnaires*. BMJ OPEN. 2022; 12(9). FI: 2.9. Cuartil: 2. (Article).
- Barrigon, ML; Porras-Segovia, A; Courtet, P; López-Castroman, J; Berrouguet, S; Pérez-Rodríguez, MM; Artes, A; Baca-García, E. *Smartphone-based Ecological Momentary Intervention for secondary prevention of suicidal thoughts and behaviour: protocol for the SmartCrisis V.2.0 randomised clinical trial*. BMJ OPEN. 2022; 12(7). FI: 2.9. Cuartil: 2. (Article).
- Escudero-Vilaplana, V; Romero-Medrano, L; Villanueva-Bueno, C; de Diago, MR; Yañez-Montesdeoca, A; Collado-Borrell, R; Campana-Montes, JJ; Marzal-Alfaro, B; Revuelta-Herrero, JL; Calles, A; Galera, M; Álvarez, R; Herranz, A; Sanjurjo, M; Artes-Rodríguez, A. *Smartphone-Based Ecological*





*Momentary Assessment for the Measurement of the Performance Status and Health-Related Quality of Life in Cancer Patients Under Systemic Anticancer Therapies: Development and Acceptability of a Mobile App.* FRONTIERS IN ONCOLOGY. 2022; 12. FI: 4.7. Cuartil: 2. (Article).

- Barrejon, D; Olmos, PM; Artes-Rodríguez, A. *Medical Data Wrangling With Sequential Variational Autoencoders.* IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS. 2022; 26(6) 2737-2745. FI: 7.7. Cuartil: 1. (Article).
- Ravi, J; Koch, T. *Scaling Laws for Gaussian Random Many-Access Channels.* IEEE TRANSACTIONS ON INFORMATION THEORY. 2022; 68(6) 4106-4134. FI: 2.5. Cuartil: 3. (Article).
- Gurjarpadhye, C; Ravi, J; Kamath, S; Dey, BK; Karamchandani, N. *Fundamental Limits of Demand-Private Coded Caching.* IEEE TRANSACTIONS ON INFORMATION THEORY. 2022; 68(4) 2429-2459. FI: 2.5. Cuartil: 3. (Article).
- Coll, AB; Vázquez-Vilar, G; Fonollosa, JR. *Generalized Perfect Codes for Symmetric Classical-Quantum Channels.* IEEE TRANSACTIONS ON INFORMATION THEORY. 2022; 68(9) 5923-5936. FI: 2.5. Cuartil: 3. (Article).
- Xiao, YH; Ramirez, D; Schreier, PJ; Qian, C; Huang, L. *One-Bit Target Detection in Collocated MIMO Radar and Performance Degradation*

*Analysis.* IEEE TRANSACTIONS ON VEHICULAR TECHNOLOGY. 2022; 71(9) 9363-9374. FI: 6.8. Cuartil: 1. (Article).

- Pérez, J; Via, J; Vielva, L; Ramirez, D. *Online Detection and SNR Estimation in Cooperative Spectrum Sensing.* IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS. 2022; 21(4) 2521-2533. FI: 10.4. Cuartil: 1. (Article).
- Porras-Segovia, A; Díaz-Olivan, I; Barrigon, ML; Moreno, M; Artes-Rodríguez, A; Pérez-Rodríguez, MM; Baca-García, E. *Real-world feasibility and acceptability of real-time suicide risk monitoring via smartphones: A 6-month follow-up cohort.* JOURNAL OF PSYCHIATRIC RESEARCH. 2022; 149 145-154. FI: 4.8. Cuartil: 2. (Article).
- Sevilla-Salcedo, C; Guerrero-López, A; Olmos, PM; Gómez-Verdejo, V. *Bayesian sparse factor analysis with kernelized observations.* NEUROCOMPUTING. 2022; 490 66-78. FI: 6. Cuartil: 2. (Article).

***Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor***

- Harsha, KV; Ravi, J; Koch, T. *Second-Order Asymptotics of Hoeffding-Like Hypothesis Tests.* INFORMATION THEORY WORKSHOP. 2022; 654-659. (Proceedings Paper).





Group Director: **JESÚS CARRETERO PÉREZ**

Organisms involved: **UC3M**

Type: **Consolidated Group**

## Research lines

### Axis 1: High-performance processing

- ▶ Line 1: Cluster processing.
- ▶ Line 2: Cloud computing.
- ▶ Line 1: High-performance storage.
- ▶ Line 1: GPU processing.

### Axis 2: Medical image processing

- ▶ Line 1: Real-time reconstruction of 3D images.

### Axis 3: Epidemic simulators

- ▶ Line 1: Simulation of influenza with social information.

The research group of computer architecture, communications and systems (ARCOS) represents the Computer Architecture and Technology Area at the Carlos III of Madrid University.

Its main objective is to investigate and develop hardware and software systems in the areas of real-time and embedded systems, high-performance computing, storage systems, dependable systems.

ARCOS is a dynamic research group that is currently conducting research in various HPC areas. Our research activities are oriented to the development of new software for **large-scale parallel and distributed systems**. These activities cover the **development and optimization of parallel and distributed applications, real time, reliable designs**, and high performance computing, including cross-layer optimizations of HPC storage I/O stack, parallel file systems, I/O acceleration of scientific workflows, auto-tuning of parallel I/O based on machine learning, dynamic monitoring of HPC infrastructures, convergence of HPC and Bigdata software stacks, and resource allocation elasticity in HPC and clouds.

All the former knowledge has been applied to several scientific and industrial areas, such as fluid mechanics, reconstruction of 3D medical images, Big Data Analytics, finance computing, and simulations involving complex systems, trying to combine real world engineering with cutting-edge research topics. As a result, ARCOS has strong relations with a portfolio of major European laboratories and companies in areas such as Informatics, Bioengineering and Aerospace.

Moreover, ARCOS researchers are leading several European projects, such as COST Action IC1305 entitled "Network for Sustainable Ultrascale Computing" (NESUS, [www.nesus.eu](http://www.nesus.eu)), with more than 70 institutions from 40 countries all around the world, or the projects REPARA and RePhrase ([rephrase-ict.eu](http://rephrase-ict.eu)) that address the programmability for parallel systems with special attention to heterogeneous architectures.

Besides that, ARCOS is actively involved in the standardization of the C++ programming language (representing Spain in the ISO C++ standards committee).



## Group members

- **Caino Lores, Silvina:** R1. First Stage Researcher
- **Calderón Mateos, Alejandro:** R2. Recognised Researcher
- **Camarmas Alonso, Diego.**
- **Carretero Pérez, Jesús:** R4. Leadingr Researcher
- **Cristóbal Bocos, Humberto.**
- **Del Pozo Puñal, Elías.**
- **Expósito Singh, David:** R2. Recognised Researcher
- **Fernández Muñoz, Javier:** R2. Recognised Researcher
- **García Blas, Francisco Javier:** R2. Recognised Researcher
- **García Carballeira, Félix:** R3. Established Researcher
- **García Fernández, Alberto.**
- **García Sánchez, José Daniel:** R2. Recognised Researcher
- **Gómez Carrasco, Carlos.**
- **Isaila Florín:** R2. Recognised Researcher
- **Li Xin.**
- **Llopis Sanmillán, Pablo.**
- **Martínez Rendón, Christian.**
- **Ortiz Nieto, Daniel.**
- **Rodrigo Duro, Francisco José.**
- **Sánchez Gallegos, Dante.**
- **Sánchez García, Luis Miguel.**
- **Serrano López, Estefanía:** R1. First Stage Researcher
- **Sotomayo Fernández, Rafael.**
- **Visuñía Pérez, Lara.**

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 17,6

	N°	IF
Own publications	5	13,2
Joint publications	1	4,4
First decile publications	0	–
First quartile publications	1	4,4
Second quartile publications	3	9,4
Third quartile publications	1	2,7
Fourth quartile publications	1	1,1
Nonindexed publications / No IF	10	–
<b>Total publications (including those without IF)</b>	<b>16</b>	<b>17,6</b>





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

- Visuna, L; Yang, DD; García-Blas, J; Carretero, J. *Computer-aided diagnostic for classifying chest X-ray images using deep ensemble learning*. BMC MEDICAL IMAGING. 2022; 22(1). FI: 2.7. Cuartil: 3. (Article).
- Singh, DE; Luceron, CO; Sánchez, AL; Merino, MG; González, CD; Delgado-Sanz, C; Gómez-Barroso, D; Carretero, J; Marinescu, MC. *Evaluation of vaccination strategies for the metropolitan area of Madrid via agent-based simulation*. BMJ OPEN. 2022; 12(12). FI: 2.9. Cuartil: 2. (Article).
- Martínez-Rendon, C; Camarmas-Alonso, D; Carretero, J; González-Compean, JL. *On the continuous contract verification using blockchain and real-time data*. CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS. 2022; 25(3) 2179-2201. FI: 4.4. Cuartil: 1. (Article).
- Lugo, T; Lozano, S; Fernández, J; Carretero, J. *A Survey of Techniques for Reducing Interference in Real-Time Applications on Multicore Platforms*. IEEE ACCESS. 2022; 10 21853-21882. FI: 3.9. Cuartil: 2. (Article).
- Cascajo, A; Singh, DE; Carretero, J. *LIMITLESS - Light-weight Monitoring Tool for Large Scale Systems?*. MICROPROCESSORS AND MICROSYSTEMS. 2022; 93. FI: 2.6. Cuartil: 2. (Article).
- Singh, DE; Luceron, CO; Sánchez, AL; Merino, MG; Carretero, J. *Impact of vaccination against COVID-19 in children aged 5-11 years: a mathematical model*. REVISTA ESPANOLA DE SALUD PUBLICA. 2022; 96. FI: 1.1. Cuartil: 4. (Article).

**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Brox, P; García-Blas, J; Singh, DE; Carretero, J. *DICE: Generic Data Abstraction for Enhancing the Convergence of HPC and Big Data*. COMMUNICATIONS IN COMPUTER AND INFORMATION SCIENCE. 2022; 1540 19-33. (Proceedings Paper).
- Bustos, A; Cascajo, A; Rubio-Montero, AJ; García-Bustamante, E; Morinigo, JA; Singh, DE; Carretero, J; Mayo-García, R. *Energy*

*Consumption Studies of WRF Executions with the LIMITLESS Monitor*. COMMUNICATIONS IN COMPUTER AND INFORMATION SCIENCE. 2022; 1540 106-119. (Proceedings Paper).

- Carrizales-Espinoza, D; Sánchez-Gallegos, DD; González-Compean, JL; Carretero, J; Marcelin-Jiménez, R. *SeRSS: a storage mesh architecture to build serverless reliable storage services*. EUROMICRO CONFERENCE ON PARALLEL, DISTRIBUTED AND NETWORK-BASED PROCESSING. 2022; 88-91. (Proceedings Paper).
- Talia, D; Trunfio, P; Carretero, J; García-Blas, J. *Editorial: Towards Exascale Solutions for Big Data Computing*. FRONTIERS IN BIG DATA. 2022; 5. (Editorial Material).
- García-Blas, J; Muñoz, JF; Carretero, J; Marozzo, F; Talia, D; Trunfio, P; Fernández-Pena, A; de Blas, DM. *Convergence of HPC and Big Data in extreme-scale data analysis through the DCEX programming model*. INTERNATIONAL SYMPOSIUM ON COMPUTER ARCHITECTURE AND HIGH PERFORMANCE COMPUTING. 2022; 130-139. (Proceedings Paper).
- García-Blas, J; Singh, DE; Carretero, J. *IMSS: In-Memory Storage System for Data Intensive Applications*. LECTURE NOTES IN COMPUTER SCIENCE. 2022; 13098 267-278. (Proceedings Paper).
- Cascajo, A; Singh, DE; Carretero, J. *Detecting Interference Between Applications and Improving the Scheduling Using Malleable Application Proxies*. LECTURE NOTES IN COMPUTER SCIENCE. 2022; 13387 190-205. (Proceedings Paper).
- Carretero, J; Schulz, M; Suárez, E. *Malleability Techniques and Applications in High-Performance Computing (HPCMALL 2022)*. LECTURE NOTES IN COMPUTER SCIENCE. 2022; 13387 129-146. (Proceedings Paper).
- Guzmán-Merino, M; Duran, C; Marinescu, MC; Delgado-Sanz, C; Gómez-Barroso, D; Carretero, J; Singh, DE. *Data Management in EpiGraph COVID-19 Epidemic Simulator*. LECTURE NOTES IN COMPUTER SCIENCE. 2022; 13387 124-128. (Proceedings Paper).
- Cascajo, A; Gómez-López, G; Escudero-Sahuquillo, J; García, PJ; Singh, DE; Alfaro-Cortés, F; Quiles, FJ; Carretero, J. *Improving Congestion Control through Fine-Grain Monitoring of InfiniBand Networks*. SYMPOSIUM ON HIGH PERFORMANCE INTERCONNECTS. 2022; 29-38. (Proceedings Paper).





Group Director: **JUAN ROMO URROZ**

Organisms involved: **UC3M**

Type: **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 3: Use of MAP models for analysis of the appearance of events

## Group members

- **Aguilera Morillo, Carmen:** R2. Recognised Researcher.
- **Arribas Gil, Ana:** R2. Recognised Researcher.
- **Hernández Roig, Harold Antonio.**
- **Lillo Rodríguez, Rosa Elvira:** R3. Established Researcher.
- **Méndez Civieta, Álvaro:** Other. Other.
- **Romo Urroz, Juan:** R4. Leading Researcher.
- **Strzalkovska Kominiak, Ewa:** Other. Other.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 2,0

	N°	IF
Own publications	1	2,0
Joint publications	0	0,0
First decile publications	0	–
First quartile publications	0	0,0
Second quartile publications	1	2,0
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications / No IF	0	–
<b>Total publications (including those without IF)</b>	<b>1</b>	<b>2,0</b>

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

- Alemán-Gómez, Y; Arribas-Gil, A; Desco, M; Elias, A; Romo, J. *Depthgram: Visualizing outliers in high-dimensional functional data with application to fMRI data exploration*. STATISTICS IN MEDICINE. 2022; 41(11) 2005-2024. FI: 2. Cuartil: 2. (Article).





Group Director: **JESÚS DE LA TORRE FERNÁNDEZ  
AND JUAN A. GUZMÁN DE VILLORIA**

Organisms involved: **HGUGM**

Type: **Emerging 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: MRI assessment of carotid plaque vulnerability in patients with asymptomatic stenosis.
- ▶ L2: Development of artificial intelligence tools in MRI in patients with the diagnosis or follow-up of patients with glial tumours
- ▶ L3: Deep electrode stimulation in patients with movement disorders

### Axis 2: Paediatric Radiology

- ▶ L1: Ultrasound diagnosis of tuberculosis
- ▶ L2: Cardiac morphology and function study for the Pulsta® valve prosthesis.
- ▶ L3: Doppler and cerebral MRI in the study of hypothermia treatment of cerebral hypoxia-ischemia in the neonate.
- ▶ L4: Postnatal hepatic elastography reference values and their usefulness in the description of liver pathology
- ▶ L5: Computational MR imaging biomarkers in neonatal hypoxic-ischaemic encephalopathy using learning algorithms
- ▶ L6: Implementation of a CAD software tool for paediatric tuberculosis X-rays
- ▶ L7: Personalised image-guided craniofacial surgery

### Axis 3: Cardiothoracic Imaging

- ▶ L1: New tomosynthesis-based radiological diagnostic system for COVID-19
- ▶ L2: Reconstruction and 3D printing of thoracic structures as a surgical map for atypical pulmonary segmentectomy

- ▶ L3: Spectral CT assessment of pulmonary sequelae after SARS-CoV 2 pneumonia.

### Axis 4: Abdominal Imaging

- ▶ L1: Correlation of prostate MRI with perfusion/spectral CT
- ▶ L2: Pre-surgical planning of right colon neoplasms by 3D reconstructions from CT images
- ▶ L3: 3D volumetric reconstruction from CT of abdominal wall hernias without right asyllum
- ▶ L4: Relationship between CT scan-estimated splanchnic volumetry and clinically significant portal hypertension and/or the presence of varices in patients with compensated advanced liver disease

### Axis 5: Vascular and Interventional Radiology

- ▶ L1: Efficacy and safety in radical hepatic segmentation.
- ▶ L2: TIPS (Tranjugular intrahepatic portosystemic shunt) treatment of portal thrombosis.
- ▶ L3: Endovascular embolisation of haemorrhage by anticoagulation
- ▶ L4: Lymphatic leak detection and embolisation in lymphocele and chylothoraxand

### Axis 6: Musculoskeletal Radiology

- ▶ L1: T2 relaxometry assessment of knee articular cartilage

### Axis 7: Breast and Gynaecological Radiology

- ▶ L1: Efficacy of tomosynthesis in breast cancer screening
- ▶ L2: Assessment of artificial intelligence tools in breast cancer screening





## Group members

- **Aguado del Hoyo, Alejandra:** R1. First Stage Researcher.
- **Calleja Cartón, Enrique:** R1. First Stage Researcher.
- **Carretero López, Fernando:** R1. First Stage Researcher.
- **De la Torre Fernández, Jesús:** R1. First Stage Researcher.
- **Díez Pérez de las Vacas, María Isabel.**
- **Echenagusia Boyra, Miguel Jesús:** R1. First Stage Researcher.
- **Fernández García, María del Pilar:** R1. First Stage Researcher.
- **Fernández Gonzalo, Adriana.**
- **Garrido Morro, Irene:** R1. First Stage Researcher.
- **González Cantero, José Luis:** R2. Recognised Researcher.
- **González Leyte, Manuel:** R1. First Stage Researcher.
- **Guzmán de Villoria Lebedziejewski, Juan Adán:** R2. Recognised Researcher.
- **Herrera Herrera, Isabel:** R1. First Stage Researcher.
- **Lancharro Zapata, Ángel Miguel:** R1. First Stage Researcher.
- **Marín Rodríguez, Carlos:** R2. Recognised Researcher.
- **Paniagua González, Miguel:** R1. First Stage Researcher.
- **Ramón Botella, Enrique:** R1. First Stage Researcher.
- **Ruiz Martín, Yolanda:** R2. Recognised Researcher.
- **Sánchez Alegre, María Luisa:** 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: 66,2

	Nº	IF
Own publications	2	4,2
Joint publications	15	62,0
First decile publications	1	6,5
First quartile publications	5	28,0
Second quartile publications	6	21,5
Third quartile publications	5	14,6
Fourth quartile publications	1	2,1
Nonindexed publications / No IF	3	–
<b>Total publications (including those without IF)</b>	<b>20</b>	<b>66,2</b>





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

- Carrasco, I; Oliveira, A; Lancharro, A; Escosa, L; Mellado, MJ; Busca, C; Montes, ML; Diez, C; Alcolea-Ruiz, S; Navarro, ML; Sainz, T. *Prevalence of nonalcoholic fatty liver disease using noninvasive techniques among children, adolescents, and youths living with HIV*. AIDS. 2022; 36(6) 805-814. FI: 3.8. Cuartil: 3. (Article).
- Carrasco, I; Oliveira, A; Lancharro, A; Escosa, L; Mellado, MJ; Busca, C; Montes, ML; Diez, C; Alcolea-Ruiz, S; Navarro, ML; Sainz, T. *Fatty liver disease in children living with HIV: a ghostly iceberg*. AIDS. 2022; 36(10) 1471-1472. FI: 3.8. Cuartil: 3. (Letter).
- Navas-Sánchez, FJ; De Blas, DM; Fernández-Pena, A; Alemán-Gómez, Y; Lage-Castellanos, A; Marcos-Vidal, L; Guzmán-De-Villoria, JA; Catalina, I; Lillo, L; Muñoz-Blanco, JL; Ordóñez-Ugalde, A; Quintans, B; Sobrido, MJ; Carmona, S; Grandas, F; Desco, M. *Corticospinal tract and motor cortex degeneration in pure hereditary spastic paraparesis type 4 (SPG4)*. AMYOTROPHIC LATERAL SCLEROSIS AND FRONTOTEMPORAL DEGENERATION. 2022; 23(1-2) 25-34. FI: 2.8. Cuartil: 3. (Article).
- Barriopedro, LS; Pérez, AP; Atienza, BB; Martín, YR. *Diastematomyelia: "Hidden" spinal dysraphism?* ANALES DE PEDIATRIA. 2022; 96(4) 374-375. FI: 2.1. Cuartil: 3. (Editorial Material).
- Monteagudo, BF; García, MFA; Martín, YR; Fernández, CM. *Sellar spine, a possible cause of central precocious puberty*. ANALES DE PEDIATRIA. 2022; 97(3) 220-221. FI: 2.1. Cuartil: 3. (Editorial Material).
- Arriaga-Redondo, M; Bravo, DB; del Hoyo, AA; Arrondo, AP; Martín, YR; Sánchez-Luna, M. *Prognostic value of somatosensory-evoked potentials in the newborn with hypoxic-ischemic encephalopathy after the introduction of therapeutic hypothermia*. EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(4) 1609-1618. FI: 3.6. Cuartil: 1. (Article).
- González-Cantero, A; Reddy, AS; Dey, AK; González-Cantero, J; Munger, E; Rodante, J; Sánchez-Moya, AI; Pérez-Hortet, C; González-Calvin, JL; Playford, MP; Barderas, MG; Ballester, A; Jiménez-Gómez, N; Jaen, P; Chen, MY; Gelfand, JM; Mehta, NN. *Underperformance of clinical risk scores in identifying imaging-based high cardiovascular risk in psoriasis: results from two observational cohorts*. EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY. 2022; 29(4) 591-598. FI: 8.3. Cuartil: 1. (Article).
- Prieto, LJ; Ruiz, Y; Pérez, L; Bravo, C; Aguado, A; Álvarez-Mon, M; Ortega, MA; Marin, C; De León-Luis, J. *The Brainstem-Vermis and Brainstem-Tentorium Angles in the Fetus: A Study of Their Reproducibility by Fetal Magnetic Resonance Imaging and Their Evolution Along the Gestation*. FRONTIERS IN MEDICINE. 2022; 9. FI: 3.9. Cuartil: 2. (Article).
- Hernanz-Lobo, A; Santos-Sebastián, M; Lancharro, A; Saavedra-Lozano, J; Rincon-López, E; Aguilera-Alonso, D; García-Santiago, M; Bustos-Fonseca, MJ; Ruiz-Serrano, MJ; Gordillo-Gutiérrez, I; Hernández-Sampelayo, T; Rodríguez-Baena, E; Córdoba-Deorador, E; López-Suárez, A; Navarro-Gómez, ML; Santiago-García, B. *Use of computed tomography for the diagnosis of TB during a paediatric outbreak*. INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASE. 2022; 26(12) 1183-1185. FI: 4. Cuartil: 2. (Letter).
- García, DS; del Hoyo, AA; Pérez, MS; Larroca, SGT; Martín, YR; Gutiérrez, IG; Arribas, CB; Álvarez-Mon, M; Ortega, MA; De León-Luis, J. *Effects of Sex, Age and Height on Symphysis-Ischial Spine Distance Measured on a Pelvic CT*. JOURNAL OF CLINICAL MEDICINE. 2022; 11(9). FI: 3.9. Cuartil: 2. (Article).
- González-Cantero, A; Teklu, M; Sorokin, AV; Prussick, R; González-Cantero, J; Martín-Rodríguez, JL; Patel, N; Parel, PM; Manyak, GA; Teague, HL; Rodante, JA; Keel, A; Pérez-Hortet, C; Sánchez-Moya, AI; Jiménez, N; Ballester, A; Solis, J; Fernández-Friera, L; Barderas, MG; González-Calvin, JL; Jaen, P; Playford, MP; Dey, AK; Gelfand, JM; Mehta, NN. *Subclinical Liver Disease Is Associated with Subclinical Atherosclerosis in Psoriasis: Results from Two Observational Studies*. JOURNAL OF INVESTIGATIVE DERMATOLOGY. 2022; 142(1) 88-96. FI: 6.5. Cuartil: 1. (Article).
- Navas-Sánchez, FJ; Marcos-Vidal, L; de Blas, DM; Fernández-Pena, A; Alemán-Gómez, Y; Guzmán-De-Villoria, JA; Romero, J; Catalina, I; Lillo, L; Muñoz-Blanco, JL; Ordóñez-Ugalde, A; Quintans, B; Sobrido, MJ; Carmona, S; Grandas, F; Desco, M. *Tract-specific damage at spinal cord level in pure hereditary spastic paraplegia type 4: a diffusion tensor imaging study*. JOURNAL OF NEUROLOGY. 2022; 269(6) 3189-3203. FI: 6. Cuartil: 1. (Article).





- Castellanos, ME; Navazo, SM; Bermejo, MC; Morin, MG; Martín, YR; Lozano, JS; Herrero, MCM; Valderrama, EB; de Castro, PC; López, MV. *Association between neuroimaging findings and neurological sequelae in patients with congenital cytomegalovirus infection*. NEUROLOGIA. 2022; 37(2) 122-129. FI: 3.9. Cuartil: 2. (Article).
- Manrique-Zegarra, M; García-Pastor, A; Castro-Reyes, E; Guzmán-De-Villoria, JA; Herrera, IH; Morro, IG; Dieguez, MD; Gil, FF; Cantero, JG; Lorente, JS. *CT angiography for diagnosis of carotid near-occlusion: a digital subtraction angiography validation study*. NEURORADIOLOGY. 2022; 64(9) 1729-1735. FI: 2.8. Cuartil: 2. (Article).
- Hernández-Ruperez, MB; Seoane-Reula, E; Villa, A; Lancharro, A; Arriaza, MM; Saavedra-Lozano, J. *Chronic Q Fever as Recurrent Osteoarticular Infection in Children: Case Report and Literature Review*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(11) 489-494. FI: 3.6. Cuartil: 1. (Article).
- Fernández, SN; López, J; González, R; Solana, MJ; Urbano, J; Aguado, A; Lancharro, A; López-Herce, J; Santiago, MJ. *Doppler ultrasound in the assessment of renal perfusion before and during continuous kidney replacement therapy in the pediatric intensive care unit*. PEDIATRIC NEPHROLOGY. 2022; 37(12) 3205-3213. FI: 3. Cuartil: 2. (Article).
- Collada, JM; Macia-Villa, C; Plasencia-Rodríguez, C; Álvaro-Gracia, JM; de Miguel, E. *Ultrasound Doppler enthesitis shows sensitivity to change after biological therapy in spondyloarthritis and psoriatic arthritis*

*patients*. SCANDINAVIAN JOURNAL OF RHEUMATOLOGY. 2022; 51(3) 1-9. FI: 2.1. Cuartil: 4. (Article).

### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Grossi, MSM; Strub, MAA; Leyte, MG; Pajares, RG; Ramos, JML. *Large azygos vein aneurysm with spontaneous remission*. ANGIOLOGIA. 2022; 74(3) 127-130. (Article).
- Labarta, FJR; Recarte, MPP; Leyte, MG; Arribas, CB; Luque, AA; López, YC; García-Montero, C; Fraile-Martínez, O; Ortega, MA; De León-Luis, JA. *Uterine Artery Embolization of Uterine Arteriovenous Malformation: A Systematic Review of Success Rate, Complications, and Posterior Pregnancy Outcomes*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(7). (Review).

### **Other publications**

- Escobar Castellanos M; de la Mata Navazo S; Carrón Bermejo M; García Morín M; Ruiz Martín Y; Saavedra Lozano J; Miranda Herrero MC; Barredo Valderrama E; Castro de Castro P; Vázquez López M. *Association between neuroimaging findings and neurological sequelae in patients with congenital cytomegalovirus infection*. NEUROLOGIA (BARCELONA, SPAIN). 2022; 37(2) 122-129. (Article).





# AREA 2

## CARDIOVASCULAR DISEASES

*Area coordinator:*

**Francisco Fernández-Avilés Díaz**

**C**ardiovascular diseases constitute a major health problem in developed countries, both because of their prevalence and incidence and because of their severity; hence the importance of a research area for cardiovascular diseases in the IISGM. The Area of Cardiovascular Diseases covers all aspects of this modern epidemic, through basic research and very importantly clinical research, including various emerging and associated clinical groups from a variety of hospital services.

A particularly interesting characteristic of this Area is its cooperative spirit. The area coordinator exercises the scientific direction of the Ciber Cardiovascular CIBERCV (Carlos III Health Institute), which integrates 40 centers throughout the country that make up the most powerful structure of cardiovascular research in Spain. Of

particular interest, this area includes basic research groups belonging to the Universidad Complutense and envisages wide-ranging agreements with American universities for the development of an ambitious program for the generation of artificial organs (SABIO Project). In addition to such important ongoing projects, the Area of Cardiovascular Diseases has forged an ambitious set of objectives for the coming years, including promotion of basic research laboratories, increased funding from the European funds, and development of a model for the evaluation and identification of intellectual property products.

Finally, the Area of Cardiovascular Diseases places particular emphasis on undergraduate education and importantly training for research personnel.

# Groups in AREA **2**

## **CARDIOVASCULAR DISEASES**

- ▶ 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.



Photography: Santiago Jiménez de Ory





Group Director: **FRANCISCO FERNÁNDEZ-AVILÉS DÍAZ**

Organisms involved: **HGUGM-UCM**

Type: **Consolidated Group**

## 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 cardiac cellular electrophysiology area
- ▶ 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 supply for postgraduate training
- ▶ L2: Encouraging temporary stays of researchers in prestigious laboratories

### Axis 3: Consolidation of infrastructures

- ▶ L1: Final layout and equipping of the Bioartificial Organs 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

Basic, translational and clinical research on cardiovascular diseases in collaboration with clinical groups and institutions and coordination of CIBER Cardiovascular at a national level.

## Group members

- **Acosta Ocampo, Alejandra:** R1. First Stage Researcher.
- **Alcón Durán, Blanca:** R1. First Stage Researcher.
- **Alonso García, Andrés:** R1. First Stage Researcher.
- **Álvarez Zaballos, Sara:** R1. First Stage Researcher.
- **Arenal Maíz, Ángel:** R3. Established Researcher.
- **Atienza Fernández, Felipe:** R3. Established Researcher.
- **Ávila Alonso, Pablo:** R2. Recognised Researcher.
- **Bejarano Arosemena, Roberto Andrés:** R1. First Stage Researcher.
- **Benito Vicente, Yolanda:** R1. First Stage Researcher.
- **Bermejo Thomas, Javier:** R3. Established Researcher.
- **Blázquez Bermejo, Zorba:** R2. Recognised Researcher.
- **Carta Bergaz, Alejandro:** R1. First Stage Researcher.
- **Castrodeza Calvo, Javier:** R2. Recognised Researcher.
- **Chazo Paz, Christian:** R1. First Stage Researcher.
- **Corisco Beltrán, Rafael:** R1. First Stage Researcher.
- **Delgado Montero, Antonia:** R2. Recognised Researcher.
- **Devesa Cordero, Carolina:** R2. Recognised Researcher.
- **Díez del Hoyo, Felipe:** R1. First Stage Researcher.
- **Domingo Gardeta, Tomás:** R1. First Stage Researcher.
- **Elizaga Corrales, Jaime:** R3. Established Researcher.
- **Espinosa Castro, María Ángeles:** R2. Recognised Researcher.
- **Fernández Ávila, Ana Isabel:** R2. Recognised Researcher.
- **Fernández Baza, Ana María:** Other.
- **Fernández Cordón, Clara:** R1. First Stage Researcher.
- **Fernández Santos, M<sup>a</sup> Eugenia:** R3. Established Researcher.
- **Fernández-Avilés Díaz, Francisco Jesús:** R4. Leading Researcher.
- **Gabaldón Badiola, Álvaro:** R1. First Stage Researcher.

Continued on next page







## Group members (cont.)

- **Galán López, Virgilio:** R1. First Stage Researcher.
- **García Carreño, Jorge:** R1. First Stage Researcher.
- **García del Rey, M<sup>a</sup> del Carmen:** R1. First Stage Researcher.
- **García Montero, Marta:** R1. First Stage Researcher.
- **Garnacho Gómez, Luis Jorge:** R1. First Stage Researcher.
- **Gómez González, Cristina:** R1. First Stage Researcher.
- **Gómez Sánchez, Roberto:** R1. First Stage Researcher.
- **Gómez Cid, Lidia:** R1. First Stage Researcher.
- **González Mansilla, Ana:** R2. Recognised Researcher.
- **González Torrecilla, Esteban:** R3. Established Researcher.
- **Grigorian Shamajian, Lilian:** R2. Recognised Researcher.
- **Gutiérrez Gálvez, Jeniffer:** R1. First Stage Researcher.
- **Gutiérrez Ibañes, Enrique:** R3. Established Researcher.
- **Juárez Fernández, Miriam:** R2. Recognised Researcher.
- **Martín Manzano, Virginia Milagros:** R1. First Stage Researcher.
- **Martínez Solano, Jorge:** R1. First Stage Researcher.
- **Martínez-Legazpi Aguilo, Pablo:** R3. Established Researcher.
- **Martínez-Selles D'Oliveira Soares, Manuel:** R3. Established Researcher.
- **Méndez Fernández, Irene:** R2. Recognised Researcher.
- **Mombiela Ramírez de Ganuza, Teresa:** R2. Recognised Researcher.
- **Moreno Pena, Pablo:** R1. First Stage Researcher.
- **Ortiz Bautista, Carlos David:** R2. Recognised Researcher.
- **Plasencia Martín, Virginia:** R1. First Stage Researcher.
- **Portoles Hernández, Antonio:** R2. Recognised Researcher.
- **Postigo Esteban, Andrea:** R2. Recognised Researcher.
- **Prieto Arevalo, Raquel:** R3. Established Researcher.

- **Ríos Muñoz, Gonzalo Ricardo:** R2. Recognised Researcher.
- **Rodríguez Crespo, José Fernando:** R1. First Stage Researcher.
- **Rodríguez González, Elena:** R3. Established Researcher.
- **Sánchez de la Nava, Ana María.**
- **Sanz Ruiz, Ricardo:** R3. Established Researcher.
- **Soriano Triguero, Javier:** R2. Recognised Researcher.
- **Sousa Casanovas, Iago:** R2. Recognised Researcher.
- **Suárez Sancho, Susana:** R1. First Stage Researcher.
- **Tamargo Delpón, María Amalia:** R1. First Stage Researcher.
- **Valero Masa, María Jesús:** R2. Recognised Researcher.
- **Vázquez Álvarez, María Eugenia:** R2. Recognised Researcher.
- **Vázquez Castaño, Alexandra:** R1. First Stage Researcher.
- **Vilches Soria, Silvia:** R2. Recognised Researcher.
- **Villa Arranz, Adolfo:** R3. Established Researcher.
- **Zatarain Nicolás, Eduardo:** R2. Recognised Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	5			
National	13		2	
Regional	2			





- Title: **Regenerative medicine: from new insights to new applications. 874827.** H2020 BRAV3.  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/01/2020  
End date: 31/12/2024
- Title: **SAVE-COR Stratification of Atrial and Ventricular Arrhythmias based on Electrocardiographic Imaging.** 220385 SAVE-COR.  
Director: Atienza Fernández, Felipe  
Project type: European research project  
Funding body: Unión Europea. EIT HEALTH E.V  
Start date: 01/06/2022  
End date: 31/12/2022
- Title: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017.  
Director: Bermejo Thomas, Javier  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/03/2019  
End date: 28/02/2024
- Title: **Clinical development and proof of principle testing of new regenerative VEGF-D therapy for cost-effective treatment of refractory angina “A phase II randomized, double-blinded, placebo-controlled study”** H2020 ReGenHeart.  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea. Programa Marco  
Start date: 01/01/2017  
End date: 31/12/2022
- Title: **Secondary Prevention of Cardiovascular Disease in the Elderly Trial (Secure).** H2020 SECURE  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: European research project  
Funding body: Unión Europea.DG.SANCO  
Start date: 06/10/2017  
End date: 06/10/2022
- 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: **Advanced multifunction 3D biofabrication for the generation of computationally modelled human-scale therapeutic cardiac tissues – CARDIOPRINT** PLEC2021-008127  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Ministerio de Ciencia, Innovación y Universidades  
Start date: 01/12/2021  
End date: 30/11/2024
- Title: **Safe and Efficacy of the Intracoronary administration of Allogeneic human Cardiac Stem Cells in Patients with Ischemic Chronic Heart Failure at High Risk for Sudden Cardiac Death (CaSeC-HF)** PIC18/00024  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2023
- 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: 31/12/2024
- 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: 31/12/2024

- Title: **Inteligencia artificial para la caracterización hemodinámica no invasiva. AI4NHEM.** PI20/00587

Director: Martínez-Legazpi Aguilo, Pablo  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023

- Title: **Caracterización del sustrato electrofisiológico en pacientes con fibrilación auricular persistente y paroxística. Estudio PAPER AF.** PI20/01618

Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2021  
End date: 31/12/2023

- Title: **Plataforma integrada para la interpretación de señales de FA en tiempo-real.** DTS21/00064

Director: Arenal Maíz, Ángel  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2023

- Title: **Personalización del riesgo de accidente cerebrovascular y de infarto cerebral silencioso en la enfermedad cardiovascular. ISBI-FLOW.** DTS19/00063

Director: Bermejo Thomas, Javier  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2022

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

Director: Arenal Maíz, Ángel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023

- Title: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardíaca con fracción de eyección preservada del paciente diabético** PI18/01595

Director: BERMEJO THOMAS, JAVIER  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023

- Title: **Reparación cardíaca inducida por vesículas extracelulares cardíacas integradas en hidrogeles de matriz mioárdica descellularizada en un modelo de infarto porcino crónico.** PI19/00161

Director: Fernández-Aviles Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023

- Title: **Caracterización de la fisiología cardiovascular con el ejercicio en pacientes adultos con circulación de Fontan.** PI19/01604

Director: Prieto Arevalo, Raquel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023

- Title: **ITACA-CM. Investigación Traslacional en arritmias cardíacas hereditarias** S2017/BMD-3738

Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022





- Title: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Predoctoral contract.** BES-2017-079924  
 Director: Chazo Paz, Christian  
 Funding body: Ministerio De Economía y Hacienda  
 Project type: Human resources  
 Start date: 01/07/2018  
 End date: 31/10/2022
- Title: **Río Hortega contract.** CM20/00054  
 Director: Tamargo Delpón, María Amalia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 04/01/2021  
 End date: 04/01/2022

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P 2017 31161	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maíz, Francisco Jesús Fernández-Avilés Díaz
Catéter y método para la detección de actividad eléctrica en un órgano	P 2014 31315	FIBHGM – Universidad Politécnica de Valencia – Universidad de Michigan	Andreu Martínez, Felipe Atienza, Miguel Rodrigo, M <sup>a</sup> Salud Guillem, Omer Berenfeld
Dispositivo de localización de arritmias cardiacas	P 2014 31597 (3 patents)	FIBHGM - Universidad Politécnica de Valencia	Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, M <sup>a</sup> Salud Guillem
Mapping and quantifying blood status and thrombus risk in the heart	US 62259494 (3 patents)	FIBHGM – University of California	Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez- Legazpi, Raquel Yotti

■ Transferred Industrial Property.

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





## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBERCV. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares. CB16/11/00292	Coordinating group
RICORS	TERAV (Red de Terapias Avanzadas) RD21/0017/0002	Coordinating group
RETICS	Red de Terapia Celular (Ter CEL). RD16/0011/0029	Associated group
Other	Red de Formación Interdisciplinaria en Regeneración Cardíaca. EUIN2017-88719	Associated group
Other	Programa AVANCELL-CM-Terapias avanzadas de precisión en regeneración y reparación celular y tisular. S2017/BMD-3692	Coordinating group
Other	Programa ITACA-CM-Investigación Traslacional en Arritmias Cardíacas hereditarias. B2017/BMD3738	Associated group
Other	Programa PREFI-CM-Personalización del Riesgo Embólico mediante el análisis del Flujo Intracardiaco	Coordinating group

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Pablo Ávila Alonso	Ablación de sustrato frente a fármacos antiarrítmicos en pacientes con cardiopatía isquémica y taquicardias ventriculares monomórficas sintomáticas: ensayo clínico SURVIVE-VT	Francisco Fernández-Avilés/Ángel Arenal Maíz	UCM	15/10/2022
Ph Thesis	Javier Castrodeza Calvo	Retos en el implante de prótesis aórtica a través de catéter en pacientes de riesgo quirúrgico bajo e intermedio	Alberto San Román/ Ignacio Amat Santos	Universidad de Valladolid	21/01/2022
Ph Thesis	Lidia Gómez Cid	Development, characterization and evaluation of advanced therapies for the treatment of cardiac pathologies	Lilian Grigorian/ Francisco Fernández-Avilés	UC3M	20/09/2022
Ph Thesis	Ana Sánchez de la Nava	Definition of a Sensitivity Profile for Drug Treatment and Identification on Clinical Biomarkers in Atrial Fibrillation	Felipe Atienza Fernández/Francisco Fernández-Avilés	Universidad Politécnica de Valencia	20/06/2022





## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Martínez-Sellés M, Hernández-Pérez FJ, Uribarri A, Martín Villén L, Zapata L, Alonso JJ, Amat-Santos IJ, Ariza-Solé A, Barrabés JA, Barrio JM, Canteli Á, Alonso-Fernández-Gatta M, Corbí Pascual MJ, Díaz D, Crespo-Leiro MG, de la Torre-Hernández JM, Ferrera C, García González MJ, García-Carreño J, García-Guereta L, García Quintana A, Jorge Pérez P, González-Juanatey JR, López de Sá E, Sánchez PL, Monteagudo M, Palomo López N, Reyes G, Rosell F, Solla Buceta MA, Segovia-Cubero J, Sionis Green A, Stepanenko A, Iglesias Álvarez D, Viana Tejedor A, Voces R, Fuset Cabanes MP, Gimeno Costa JR, Díaz J, Fernández-Avilés F	Cardiogenic shock code 2023. Expert document for a multidisciplinary organization that allows quality care	Rev Esp Cardiol. 2022 Dec 21: S1885-5857(22)00330-9.
Glikson M, Nielsen JC, Kronborg MB, Michowitz Y, Auricchio A, Barbash IM, Barrabés JA, Boriani G, Braunschweig F, Brignole M, Burri H, Coats AJS, Deharo JC, Delgado V, Diller GP, Israel CW, Keren A, Knops RE, Kotecha D, Leclercq C, Merkely B, Starck C, Thylén I, Tolosana JM, Leyva F, Linde C, Abdelhamid M, Aboyans V, Arbelo E, Asteggiano R, Barón-Esquivias G, Bauersachs J, Biffi M, Birgersdotter-Green U, Bongiorno MG, Borger MA, Čelutkienė J, Cikes M, Daubert JC, Drossart I, Ellenbogen K, Elliott PM, Fabritz L, Falk V, Fauchier L, Fernández-Avilés F, Foldager D, Gadler F, De Vinuesa PGG, Gorenek B, Guerra JM, Hermann Haugaa K, Hendriks J, Kahan T, Katus HA, Konradi A, Koskinas KC, Law H, Lewis BS, Linker NJ, Løchen ML, Lumens J, Mascherbauer J, Mullens W, Nagy KV, Prescott E, Raatikainen P, Rakisheva A, Reichlin T, Ricci RP, Shlyakhto E, Sitges M, Sousa-Uva M, Sutton R, Suwalski P, Svendsen JH, Touyz RM, Van Gelder IC, Vernooy K, Waltenberger J, Whinnett Z, Witte KK	2021 ESC Guidelines on cardiac pacing and cardiac resynchronization therapy	Europace. 2022 Jan 4;24(1):71-164

## Publications

Total Impact Factor: 632,2

	Nº	IF
Own publications	38	222,4
Joint publications	57	409,8
First decile publications	18	320,2
First quartile publications	42	467,0
Second quartile publications	26	101,2
Third quartile publications	16	43,3
Fourth quartile publications	11	20,7
Nonindexed publications/No IF	11	-
<b>Total publications (including those without IF)</b>	<b>106</b>	<b>632,2</b>

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

- Altisent, OAJ; Goncalves-Ramirez, LR; Fernández, L; Vilades, D; Gutiérrez, E; Mitomo, S; Latib, A; Córdoba-Soriano, JG; Adelino, R; Amat-Santos, I; Muñoz, JF; Elizaga, J; Bezzera, H; Pereira, GTR; de Prado, AP; Carrillo, X; Fernández-Nofrerias, E; Vilalta, V; Rodríguez-Leor, O; Llibre, C; Fadeuilhe, E; Trujillo, A; Mauri, J; Hernández, JMD; Bayes-Genis, A; Puri, R. *Long-Term Intracoronary Structural and Vasomotor Assessment of the ABSORB Bioresorbable Vascular Scaffold*. AMERICAN JOURNAL OF CARDIOLOGY. 2022; 172 90-97. FI: 2.8. Cuartil: 3. (Article).
- Panagides, V; Del Val, D; Abdel-Wahab, M; Mangner, N; Durand, E; Ihlemann, N; Urena, M; Pellegrini, C; Giannini, F; Scislo, P; Huczek, Z; Landt, M; Auffret, V; Sinning, JM; Cheema, AN; Nombela-Franco, L; Chamandi, C; Campelo-Parada, F; Muñoz-García, E; Herrmann, HC; Testa, L; Kim, WK; Castillo, JC; Alperi, A; Tchetché, D; Bartorelli, AL; Kapadia, S; Stortecky, S; Amat-Santos, I; Wijeyesundera, HC; Lisko, J; Gutiérrez-Ibanes, E; Serra, V; Salido, L; Alkhdair, A; Livi, U; Chakravarty, T; Lerakis, S; Vilalta, V; Regueiro, A; Romaguera, R; Kappert, U; Barbanti, M; Masson, JB; Maes, F; Fiorina,





- C; Miceli, A; Kodali, S; Ribeiro, HB; Mangione, JA; de Brito, FS; Dato, GMA; Rosato, F; Ferreira, MC; de Lima, VC; Colafranceschi, AS; Abizaid, A; Marino, MA; Esteves, V; Andrea, J; Godinho, RR; Alfonso, F; Eltchaninoff, H; Sondergaard, L; Himbert, D; Husser, O; Latib, A; Le Bretón, H; Servoz, C; Pascual, I; Siddiqui, S; Olivares, P; Hernández-Antolin, R; Webb, JG; Sponga, S; Makkar, R; Kini, AS; Boukhris, M; Gervais, P; Linke, A; Crusius, L; Holzhey, D; Rodes-Cabau, J. *Mitral Valve Infective Endocarditis after Trans-Catheter Aortic Valve Implantation*. AMERICAN JOURNAL OF CARDIOLOGY. 2022; 168 55-63. FI: 2.8. Cuartil: 3. (Article).
- Montero-Cabezas, JM; Córdoba-Soriano, JG; Diez-Delhoyo, F; Abellan-Huerta, J; Girgis, H; Rama-Merchán, JC; García-Blas, S; van Rees, JB; van Ramshorst, J; Jurado-Román, A. *Angiographic and Clinical Profile of Patients With COVID-19 Referred for Coronary Angiography During SARS-CoV-2 Outbreak: Results From a Collaborative, European, Multicenter Registry*. ANGIOLOGY. 2022; 73(2) 112-119. FI: 2.8. Cuartil: 3. (Article).
  - Posada-Martínez, EL; González-Barrera, LG; Liblik, K; Gómez-Mesa, JE; Saldarriaga, C; Farina, JM; Parodi, J; Zhou, ZE; Martínez-Selles, M; Baranchuk, A. *Schistosomiasis & Heart - On Behalf of the Neglected Tropical Diseases and other Infectious Diseases affecting the Heart (the NET-Heart Project)*. ARQUIVOS BRASILEIROS DE CARDIOLOGIA. 2022; 118(5) 885-893. FI: 2.6. Cuartil: 3. (Article).
  - Bouzas-Cruz, N; Castrodeza, J; González-Fernández, O; Ferrera, C; Woods, A; Tovey, S; Robinson-Smith, N; McDiarmid, AK; Parry, G; Samuel, J; Schueler, S; MacGowan, GA. *Does infection predispose to thrombosis during long-term ventricular assist device support?*. ARTIFICIAL ORGANS. 2022; 46(7) 1399-1408. FI: 2.4. Cuartil: 3. (Article).
  - Montero-Calle, P; Flandes-Iparraguirre, M; Mountris, K; De la Nava, AS; Laita, N; Rosales, RM; Iglesias-García, O; de-Juan-Pardo, EM; Atienza, F; Fernández-Santos, ME; Pena, E; Doblare, M; Gavira, JJ; Fernández-Aviles, F; Prosper, F; Pueyo, E; Mazo, MM. *Fabrication of human myocardium using multidimensional modelling of engineered tissues*. BIOFABRICATION. 2022; 14(4). FI: 9. Cuartil: 1. (Article).
  - Vicente-Valor, J; García-González, X; Ibanez-García, S; Duran-García, ME; de Lorenzo-Pinto, A; Rodríguez-González, C; Mendez-Fernández, I; Percovich-Hualpa, JC; Herranz-Alonso, A; Sanjurjo-Saez, M. *PCSK9 inhibitors revisited: Effectiveness and safety of PCSK9 inhibitors in a real-life Spanish cohort*. BIOMEDICINE & PHARMACOTHERAPY. 2022; 146 112519-112519. FI: 7.5. Cuartil: 1. (Article).
  - Enriquez-Gómez, A; Ortega-Navarro, C; Fernández-Cordon, C; Diez-Villanueva, P; Martínez-Selles, M; de Lorenzo-Pinto, A; de Miguel-Yanes, JM. *Comparison of a polypharmacy-based scale with Charlson comorbidity index to predict 6-month mortality in chronic complex patients after an ED visit*. BRITISH JOURNAL OF CLINICAL PHARMACOLOGY. 2022; 88(4) 1795-1803. FI: 3.4. Cuartil: 2. (Article).
  - del Val, D; Abdel-Wahab, M; Mangner, N; Durand, E; Ihlemann, N; Urena, M; Pellegrini, C; Giannini, F; Gasior, T; Wojakowski, W; Landt, M; Auffret, V; Sinning, JM; Cheema, AN; Nombela-Franco, L; Chamandi, C; Campelo-Parada, F; Muñoz-García, E; Herrmann, HC; Testa, L; Won-Keun, K; Castillo, JC; Alperi, A; Tchetché, D; Bartorelli, AL; Kapadia, S; Stortecky, S; Amat-Santos, I; Wijeyundera, HC; Lisko, J; Gutiérrez-Ibanes, E; Serra, V; Salido, L; Alkhodair, A; Vendramin, I; Chakravarty, T; Lerakis, S; Vilalta, V; Regueiro, A; Romaguera, R; Kappert, U; Barbanti, M; Masson, JB; Maes, F; Fiorina, C; Miceli, A; Kodali, S; Ribeiro, HB; Mangione, JA; de Brito, FS; Dato, GMA; Rosato, F; Ferreira, MC; de Lima, VC; Colafranceschi, AS; Abizaid, A; Marino, MA; Esteves, V; Andrea, J; Godinho, RR; Alfonso, F; Eltchaninoff, H; Sondergaard, L; Himbert, D; Husser, O; Latib, A; Le Bretón, H; Servoz, C; Pascual, I; Siddiqui, S; Olivares, P; Hernández-Antolin, R; Webb, JG; Sponga, S; Makkar, R; Kini, AS; Boukhris, M; Gervais, P; Linke, A; Crusius, L; Holzhey, D; Rodes-Cabau, J. *Infective Endocarditis Caused by Staphylococcus aureus After Transcatheter Aortic Valve Replacement*. CANADIAN JOURNAL OF CARDIOLOGY. 2022; 38(1) 102-112. FI: 6.2. Cuartil: 1. (Article).
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  - Castrodeza J; Ortiz-Bautista C; Fernández-Avilés F. *Continuous-flow left ventricular assist device: Current knowledge, complications, and future*







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- Gutiérrez-Chico, JL; Grigorian-Shamagian, L. *Chronic total occlusions in Artsakh The last frontier :The last frontier*. *CARDIOLOGY JOURNAL*. 2022; 29(5) 773-781. FI: 2.9. Cuartil: 3. (Article).
  - del Rey, MDG; Castrodeza, J; Pinto, A; Castro, MAE; Delgado, CM; Fernández-Aviles, F. *Heart valve disease in Hurler-Scheie syndrome*. *CARDIOLOGY JOURNAL*. 2022; 29(5) 875-877. FI: 2.9. Cuartil: 3. (Editorial Material).
  - Vega, JDS; Salinas, GLA; Florez, JMV; Sole, AA; de Sa, EL; Sanz-Ruiz, R; Palacios, VB; Roubin, SR; Varela, SG; Fores, JS; Melchor, LS; Martínez-Seara, X; López, LM; Tejedor, AV; Pascual, MC; Gómez, JLZ; Fernández, MS. *Optimal surgical timing after post-infarction ventricular septal rupture*. *CARDIOLOGY JOURNAL*. 2022; 29(6) 891-893. FI: 2.9. Cuartil: 3. (Editorial Material).
  - González-Juanatey, JR; Lemesle, G; Puymirat, E; Ducrocq, G; Cachanado, M; Arnaiz, JA; Martínez-Selles, M; Silvain, J; Ariza-Sole, A; Ferrari, E; Calvo, G; Danchin, N; Avendano-Sola, C; Rousseau, A; Vicaud, E; González-Ferrero, T; Steg, PG; Simon, T. *One-Year Major Cardiovascular Events After Restrictive Versus Liberal Blood Transfusion Strategy in Patients With Acute Myocardial Infarction and Anemia: The REALITY Randomized Trial*. *CIRCULATION*. 2022; 145(6) 486-488. FI: 37.8. Cuartil: 1. (Letter).
  - Griffiths, JR; Nussinovitch, U; Liang, JJ; Sims, R; Yoneda, ZT; Bernstein, HM; Viswanathan, MN; Khairy, P; Srivatsa, UN; Frankel, DS; Marchlinski, FE; Sandhu, A; Shoemaker, MB; Mohanty, S; Burkhardt, JD; Natale, A; Lakireddy, D; De Groot, NMS; Gerstenfeld, EP; Moore, JP; Avila, P; Ernst, S; Nguyen, DT. *Catheter Ablation for Atrial Fibrillation in Adult Congenital Heart Disease: An International Multicenter Registry Study*. *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*. 2022; 15(9) 548-558. FI: 8.4. Cuartil: 1. (Article).
  - Panagides, V; Del Val, D; Abdel-Wahab, M; Mangner, N; Durand, E; Ihlemann, N; Urena, M; Pellegrini, C; Giannini, F; Gasior, T; Wojakowski, W; Landt, M; Auffret, V; Sinning, JM; Cheema, AN; Nombela-Franco, L; Chamandi, C; Campelo-Parada, F; Muñoz-García, E; Herrmann, HC; Testa, L; Won-Keun, K; Castillo, JC; Alperi, A; Tchetché, D; Bartorelli, AL; Kapadia, S; Stortecky, S; Amat-Santos, I; Wijeyesundera, HC; Lisko, J; Gutiérrez-Ibanes, E; Serra, V; Salido, L; Alkhourair, A; Livi, U; Chakravarty, T; Lerakis, S; Vilalta, V; Regueiro, A; Romaguera, R; Kappert, U; Barbanti, M; Masson, JB; Maes, F; Fiorina, C; Miceli, A; Kodali, S; Ribeiro, HB; Mangione, JA; de Brito, FS; Dato, GMA; Rosato, F; Ferreira, MC; de Lima, VC; Colafranceschi, AS; Abizaid, A; Marino, MA; Esteves, V; Andrea, J; Godinho, RR; Alfonso, F; Eltchaninoff, H; Sondergaard, L; Himbert, D; Husser, O; Latib, A; Le Bretón, H; Servoz, C; Pascual, I; Siddiqui, S; Olivares, P; Hernández-Antolin, R; Webb, JG; Sponga, S; Makkar, R; Kini, AS; Boukhris, M; Gervais, P; Linke, A; Crusius, L; Holzhey, D; Rodes-Cabau, J. *Perivalvular Extension of Infective Endocarditis After Transcatheter Aortic Valve Replacement*. *CLINICAL INFECTIOUS DISEASES*. 2022; 75(4) 638-646. FI: 11.8. Cuartil: 1. (Article).
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Organisms involved: **UCM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Obesity-associated cardiovascular and metabolic damage

- ▶ L1: Role of metabolic substrate utilization switching in obesity-associated cardiometabolic damage
- ▶ L2: Role of mitochondrial dysfunction in obesity-associated cardiometabolic damage
- ▶ L3: Role of endoplasmic reticulum stress in obesity-associated cardiometabolic damage
- ▶ L4: Role of autophagy in obesity-associated cardiometabolic damage
- ▶ L5: Impact of mitochondrial transplantation on cardiac function and structure
- ▶ L6: Impact of “Mitochondria-like mitochondrialuterions” on obesity-associated cardiac damage

### Axis 2: Mechanisms involved in cardiovascular damage associated with myocardial ischaemia

- ▶ L1: Role of changing metabolic substrate use in ischaemia-associated cardiometabolic damage
- ▶ L2: Impact of obesity on cardiac alterations associated with myocardial ischaemia.
- ▶ L3: Role of changing metabolic substrate use in cardiometabolic damage associated with myocardial ischaemia.
- ▶ L4: Role of mitochondrial dysfunction in cardiometabolic damage associated with myocardial ischaemia
- ▶ L5: Role of endoplasmic reticulum stress in cardiometabolic damage associated with myocardial ischaemia
- ▶ L6: Role of autophagy in cardiometabolic damage associated with myocardial ischaemia

- ▶ L7: Impact of mitochondrial transplantation on cardiac function and structure
- ▶ L8: Impact of “Mitochondria-like mitochondrialuterions” on cardiometabolic damage associated with myocardial ischaemia

### Axis 3: Mechanisms involved in damage associated with cardiorenal syndrome

- ▶ L1: Role of mitochondrial dysfunction in renal damage associated with cardiorenal syndrome
- ▶ L2: Role of endoplasmic reticulum stress in renal damage associated with cardiorenal syndrome
- ▶ L3: Impact of mitochondrial transplantation on renal damage associated with cardiorenal syndrome

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.

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.





### Group members

- **Bartolomé Pascual, María Visitación:** R3. Established Researcher.
- **Cachofeiro Ramos, Victoria:** R4. Leading Researcher.
- **Delgado Valero, Beatriz:** R1. First Stage Researcher.
- **Jurado López, Raquel:** R1. First Stage Researcher.
- **Marin Royo, Gema:** R1. First Stage Researcher.
- **Martínez Martínez, Ernesto:** R4. Leading Researcher.
- **Vasconcelos De Sousa Neto, Francisco Das Chagas:** R1. First Stage Researcher.

### Research Projects – Competitive Calls

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

### Not managed by the FIBHGM

- Title: **Impacto del trasplante mitocondrial en la enfermedad cardiovascular asociada a MI y obesidad. Relevancia de la interacción entre la mitocondria, el retículo endoplásmico y el flujo de autofagia.** PI21/00431  
 Director: Martínez, Ernesto/Cachofeiro Ramos, Victoria  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024

- Title: **Predoxal contract.** FI19/00277  
 Director: Cachofeiro Ramos, Victoria (Beatriz Delgado Valero)  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Becas predoctorales UCM**  
 Director: Cachofeiro Ramos, Victoria (Francisco ds Chagas Vasconcelos Neto)  
 Project type: Human Resources  
 Funding body: UCM  
 Start date: 01/06/2019  
 End date: 31/05/2022
- Title: **Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2020"**  
 Director: Cachofeiro Ramos, Victoria (Alexandra Castro Soplin)  
 Project type: Human Resources  
 Funding body: Comunidad de Madrid  
 Start date: 01/04/2021  
 End date: 30/03/2023
- Title: **Research Assistant. Garantía Juvenil 2021.** CT41/22/PEJ-2021-AI/BMD-21898  
 Director: Martínez Martínez, Ernesto (Cuesta Garrido, María)  
 Project type: Human Resources  
 Funding body: Comunidad de Madrid  
 Start date: 01/12/2022  
 End date: 30/11/2024
- Title: **Research Assistant. Garantía Juvenil 2021.** CT41/22/PEJ-2021-AI/BMD-22002  
 Director: Cachofeiro Ramos, Victoria (Montoro Garrido, Alejandro)  
 Project type: Human Resources  
 Funding body: Comunidad de Madrid  
 Start date: 01/12/2022  
 End date: 30/11/2024





- Title: **Becas UCM 22.** CT58/21-CT59/21  
Director: Cachofeiro Ramos, Victoria (Jiménez González, Sara)  
Project type: Human Resources  
Funding body: UCM Santander  
Start date: 01/12/2022  
End date: 30/11/2026

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBER de Enfermedades Cardiovasculares	Colaborating group

### Publications

Total Impact Factor: 35,2

	Nº	IF
Own publications	4	23,2
Joint publications	3	12,0
First decile publications	3	21,3
First quartile publications	4	26,9
Second quartile publications	2	7,2
Third quartile publications	0	0,0
Fourth quartile publications	1	1,1
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>7</b>	<b>35,2</b>

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

- Martínez-Martínez, E; Cachofeiro, V. *Oxidative Stress in Obesity*. ANTIOXIDANTS. 2022; 11(4). FI: 7. Cuartil: 1. (Editorial Material).
- Souza-Neto, FV; Islas, F; Jiménez-González, S; Luaces, M; Ramchandani, B; Romero-Miranda, A; Delgado-Valero, B; Roldan-Molina, E; Saiz-Pardo, M; Ceron-Nieto, MA; Ortega-Medina, L; Martínez-Martínez, E; Cachofeiro, V. *Mitochondrial Oxidative Stress Promotes Cardiac Remodeling in Myocardial Infarction through the Activation of Endoplasmic Reticulum Stress*. ANTIOXIDANTS. 2022; 11(7). FI: 7. Cuartil: 1. (Article).
- Ballesteros-Martínez, C; Rodrigues-Diez, R; Beltran, LM; Moreno-Carriles, R; Martínez-Martínez, E; González-Amor, M; Martínez-González, J; Rodríguez, C; Cachofeiro, V; Salaices, M; Briones, AM. *Microsomal prostaglandin E synthase-1 is involved in the metabolic and cardiovascular alterations associated with obesity*. BRITISH JOURNAL OF PHARMACOLOGY. 2022; 179(11) 2733-2753. FI: 7.3. Cuartil: 1. (Article).
- Sánchez-Alamo, B; Shabaka, A; Cachofeiro, V; Cases-Corona, C; Fernández-Juarez, G. *Serum interleukin-6 levels predict kidney disease progression in diabetic nephropathy*. CLINICAL NEPHROLOGY. 2022; 97(1) 1-9. FI: 1.1. Cuartil: 4. (Article).
- Islas, F; Gutiérrez, E; Cachofeiro, V; Martínez-Martínez, E; Marin, G; Olmos, C; Carrion, I; Gil, S; Mahia, P; Cobos, MA; de Agustin, A; Luaces, M. *Importance of cardiac imaging assessment of epicardial adipose tissue after a first episode of myocardial infarction*. FRONTIERS IN CARDIOVASCULAR MEDICINE. 2022; 9. FI: 3.6. Cuartil: 2. (Editorial Material).
- Calvier, L; Kokeny, G; Martínez-Martínez, E. *Editorial: New Advances in Cardiorenal Syndrome*. FRONTIERS IN CARDIOVASCULAR MEDICINE. 2022; 9. FI: 3.6. Cuartil: 2. (Article).
- Martínez-Martínez, E; Fernández-Irigoyen, J; Santamaria, E; Nieto, ML; Bravo-San Pedro, JM; Cachofeiro, V. *Mitochondrial Oxidative Stress Induces Cardiac Fibrosis in Obese Rats through Modulation of Transthyretin*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2022; 23(15). FI: 5.6. Cuartil: 1. (Article).





Group Director: **Eva Delpón Mosquera**

Organisms involved: **UCM**

Type: **Consolidated Group**

### Research lines

#### Axis 1: Cardiac cellular pharmacology and electrophysiology

- ▶ L1: Regulation of cardiac electrical properties at the cellular level
- ▶ L2: Identification of acquired alterations in cellular electrical properties (electrical remodelling) responsible for arrhythmias in patients with heart failure.

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 has 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 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.

2. The identification of new genes responsible for hereditary 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 identification of electrophysiological alterations in the 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.

### Group members

- **Caballero Collado, Ricardo:** R3. Established Researcher.
- **Camara Checa, Anabel:** R1. First Stage Researcher.
- **Cebrián Castillo, Jorge.**
- **Crespo García, Teresa:** R1. First Stage Researcher.
- **Dago Requena, María:** R1. First Stage Researcher.
- **Delpón Mosquera, Eva:** R4. Leading Researcher.
- **Gómez García, Ricardo:** R3. Established Researcher.
- **Nieto Marín, Paloma:** R1. First Stage Researcher.
- **Rapun Jiménez, Josu:** R1. First Stage Researcher.
- **Rubio Alarcón, Marcos:** R1. First Stage Researcher.
- **Tamargo Menéndez, Juan:** R3. Established Researcher.







### Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National		2		2
Regional		1		

#### Not managed by the FIBHGM

- Title: Determinantes moleculares del aumento de canales de sodio y potasio producido por el dominio N-terminal del canal de Nav1.5.** PID2020-118694RB-I00  
 Director: Caballero, Ricardo/Delpón, Eva  
 Funding body: MICINN  
 Project type: Research project  
 Start date: 01/09/2021  
 End date: 30/09/2023
- Title: Investigación Traslacional en Arritmias Cardiacas hereditarias. ITACA-CM B017/BMD3738**  
 Director: Delpón, Eva  
 Project type: Research project  
 Funding body: Comunidad de Madrid. Programa de Biomedicina  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: Elucidation of cardiac electrophysiological alterations in propionic acidemia: Towards the identification of targets for therapeutics.** SAF2017-88116-P  
 Director: Delpón, Eva/Caballero, Ricardo  
 Funding body: Propionic Acidemia Foundation (PAF)  
 Project type: Research project  
 Start date: 01/05/2022

#### Not managed by the FIBHGM

- Title: Ayudas para contratos predoctorales para la formación de doctores.** PRE2018-086155  
 Director: Delpón Mosquera, Eva/Caballero Collado, Ricardo (Cámara Checa, Anabel)  
 Project type: Human Resources  
 Funding body: Ministerio de Ciencia e Innovación  
 Start date: 01/08/2019
- Title: Ayudas para contratos predoctorales para la formación de doctores.** PRE2021-098033  
 Director: Delpón Mosquera, Eva/Caballero Collado, Ricardo (Rapún Jiménez, Josu)  
 Project type: Human Resources  
 Funding body: Ministerio de Ciencia e Innovación  
 Start date: 01/01/2022

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBER de Enfermedades Cardiovasculares	Coordinating group







### Clinical Practice Guidelines

Authors	Title	Journal/Reference
Pedro-Botet J, Barrios V, Sánchez-Margalet V, Tamargo J, Arrieta F, Gámez JM, Gimeno-Orna JA, Escobar C, Gómez-Doblas JJ, Pérez A; Working Groups of Cardiovascular Pharmacotherapy of the Sociedad Española de Cardiología and Cardiovascular Disease of the Sociedad Española de Diabetes	Treatment of hypertriglyceridaemia with icosapent ethyl in patients with high/very high cardiovascular risk. Consensus document of the Sociedad Española de Cardiología [Spanish Society of Cardiology] and the Sociedad Española de Diabetes [Spanish Diabetes Society].	Endocrinol Diabetes Nutr (Engl Ed). 2022 Nov 16: S2530-0180(22)00167-6. doi: 10.1016/j.endien.2022.11.009.
Lyon AR, López-Fernández T, Couch LS, Asteggiano R, Aznar MC, Bergler-Klein J, Boriani G, Cardinale D, Córdoba R, Cosyns B, Cutter DJ, de Azambuja E, de Boer RA, Dent SF, Farmakis D, Gevaert SA, Gorog DA, Herrmann J, Lenihan D, Moslehi J, Moura B, Salinger SS, Stephens R, Suter TM, Szmit S, Tamargo J, Thavendiranathan P, Tocchetti CG, van der Meer P, van der Pal HJH; ESC Scientific Document Group	2022 ESC Guidelines on cardio-oncology developed in collaboration with the European Hematology Association (EHA), the European Society for Therapeutic Radiology and Oncology (ESTRO) and the International Cardio-Oncology Society (IC-OS).	Eur Heart J Cardiovasc Imaging. 2022;23(10):e333-e465. doi: 10.1093/ehjci/jeac106.2022.43(41):4229-4361. doi: 10.1093/eurheartj/ehac244.

### Publications

Total Impact Factor: 119,7

	Nº	IF
Own publications	10	109,2
Joint publications	2	10,5
First decile publications	6	84,9
First quartile publications	10	110,3
Second quartile publications	2	9,4
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	3	-
<b>Total publications (including those without IF)</b>	<b>15</b>	<b>119,7</b>

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

- Crespo-García, T; Camara-Checa, A; Dago, M; Rubio-Alarcón, M; Rapun, J; Tamargo, J; Delpon, E; Caballero, R. *Regulation of cardiac ion channels by transcription factors: Looking for new opportunities of druggable targets for the treatment of arrhythmias*. BIOCHEMICAL PHARMACOLOGY. 2022; 204. FI: 5.8. Cuartil: 1. (Review).
- Triska, J; Tamargo, J; Bozkurt, B; Elkayam, U; Taylor, A; Birnbaum, Y. *An Updated Review on the Role of Non-dihydropyridine Calcium Channel Blockers and Beta-blockers in Atrial Fibrillation and Acute Decompensated Heart Failure: Evidence and Gaps*. CARDIOVASCULAR DRUGS AND THERAPY. 2022;. FI: 3.4. Cuartil: 2. (Review).
- Nieto-Marin, P; Tinaquero, D; Utrilla, RG; Cebrian, J; González-Guerra, A; Crespo-García, T; Camara-Checa, A; Rubio-Alarcón, M; Dago, M; Alfayate, S; Filgueiras, D; Peinado, R; López-Sendon, JL; Jalife, J; Tamargo, J; Bernal, JA; Caballero, R; Delpon, E; ITACA Consortium Investigators. *Tbx5 variants disrupt Nav1.5 function differently in patients diagnosed with Brugada or Long QT Syndrome*. CARDIOVASCULAR RESEARCH. 2022; 118(4) 1046-1060. FI: 10.8. Cuartil: 1. (Article).
- Dago, M; Crespo-García, T; Camara-Checa, A; Rapun, J; Rubio-Alarcón, M; Marin, M; Tamargo, J; Caballero, R; Delpon, E. *Empagliflozin and Dapagliflozin Increase Na<sup>+</sup> and Inward Rectifier K<sup>+</sup> Current Densities in Human Cardiomyocytes Derived from Induced Pluripotent Stem Cells (hiPSC-CMs)*. CELLS. 2022; 11(23). FI: 6. Cuartil: 2. (Article).
- Tamargo, J; Caballero, R; Delpon, E. *Cancer Chemotherapy-Induced Sinus Bradycardia: A Narrative Review of a Forgotten Adverse Effect of Cardiotoxicity*. DRUG SAFETY. 2022; 45(2) 101-126. FI: 4.2. Cuartil: 1. (Review).
- Tamargo, J; Hasegawa, K; Agewall, S. *Toward personalized medicine for cardiovascular pharmacotherapy*. EUROPEAN HEART JOURNAL. 2022; 43(45) 4719-4721. FI: 39.3. Cuartil: 1. (Editorial Material).
- Tamargo, J; Kjeldsen, KP; Delpon, E; Semb, AG; Cerbai, E; Dobrev, D; Savarese, G; Sulzgruber, P; Rosano, G; Borghi, C; Wassman, S; Torp-Pedersen, CT; Agewall, S; Drexel, H; Baumgartner, I; Lewis, B; Ceconi, C; Kaski, JC; Niessner, A. *Facing the challenge of polypharmacy when prescribing for older people with cardiovascular disease. A review by*





*the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy.* EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2022; 8(2) 187-210. FI: 7.1. Cuartil: 1. (Review).

- El Hadidi, S; Rosano, G; Tamargo, J; Agewall, S; Drexel, H; Kaski, JC; Niessner, A; Lewis, BS; Coats, AJS; Savarese, G. *Potentially inappropriate prescriptions in heart failure with reduced ejection fraction: ESC position statement on heart failure with reduced ejection fraction-specific inappropriate prescribing.* EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2022; 8(4) 406-419. FI: 7.1. Cuartil: 1. (Review).
- Tamargo, J; Kaski, JC; Kimura, T; Barton, JC; Yamamoto, K; Komiyama, M; Drexel, H; Lewis, BS; Agewall, S; Hasegawa, K. *Racial and ethnic differences in pharmacotherapy to prevent coronary artery disease and thrombotic events.* EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2022; 8(7) 738-751. FI: 7.1. Cuartil: 1. (Review).
- Tamargo, J; Tamargo, M; Caballero, R. *Hypertrophic cardiomyopathy: an up-to-date snapshot of the clinical drug development pipeline.* EXPERT OPINION ON INVESTIGATIONAL DRUGS. 2022; 31(10) 1027-1052. FI: 6.1. Cuartil: 1. (Review).
- Tamargo J; Caballero R; DELPÓN E. *Sex-related differences in the pharmacological treatment of heart failure.* PHARMACOLOGY & THERAPEUTICS. 2022; 229 107891-107891. FI: 13.5. Cuartil: 1. (Review).
- Ruilope LM; Ruiz-Hurtado G; Tamargo J. *Editorial commentary: Adequate blood pressure control unattainable without adequate recognition and treatment of primary aldosteronism.* TRENDS IN CARDIOVASCULAR MEDICINE. 2022; 32(4) 234-236. FI: 9.3. Cuartil: 1. (Article).
- Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor:
- Fernández, SN; Toledo, B; Cebrian, J; Pérez-Caballero, R; López-Herce, J; Mencia, S. *Continuous Incisional Lidocaine in Pediatric Patients following Open Heart Surgery.* BIOMED RESEARCH INTERNATIONAL. 2022; 2022. (Article).
- Flores, CH; Diez-Delhoyo, F; Sanz-Ruiz, R; Vázquez-Álvarez, ME; Delpon, MT; Triguero, JS; Corrales, JE; Fernández-Aviles, F; Ibanes, EG. *Microvascular dysfunction of the non-culprit circulation predicts poor prognosis in patients with ST-segment elevation myocardial infarction.* IJC HEART & VASCULATURE. 2022; 39. (Article).
- Álvarez-Baena, L; Hervias, M; Ramos, S; Cebrian, J; Pita, A; Hidalgo, I. *Continuous thoracic paravertebral analgesia after minimally invasive atrial septal defect closure surgery in pediatric population: Effectiveness and safety analysis.* REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(5) 259-265. (Article).



Group Director: **CONSTANCIO MEDRANO LÓPEZ**

Organisms involved: **HGUGM**

Type: **Emerging Group**

### 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

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.





### Group members

- **Alcaide Bazán, Paola:** R1. First Stage Researcher.
- **Alcaraz, María Teresa.**
- **Alonso, Patricia.**
- **Álvarez García-Roves, Reyes.**
- **Álvarez Martín, Teresa.**
- **Arriba Domenech, María:** R2. Recognised Researcher.
- **Ballesteros Tejerizo, Fernando:** R1. First Stage Researcher.
- **Calle Valda Alta Corazón, Mabel.**
- **Cambra Conejero, Ana.**
- **Camino López, Manuela.**
- **Camuña, José.**
- **Carchenilla Pulido, Inmaculada.**
- **Centeno Jiménez, Mirian.**
- **Cobos Hinojal, Susana.**
- **Cuenca Yunta, Alejandra.**
- **De Castro, Pilar.**
- **Díaz Cesar, María.**
- **Domarco Manrique, Alejandro.**
- **Ezquieta Zubicaray, Begoña:** R3. Established Researcher

- **Ferrer Sánchez, Soledad.**
- **García González, María Dolores:** Other. Support Technician.
- **Gil Jaurena, Juan Miguel:** R1. First Stage Researcher.
- **Gil Villanueva, Nuria:** R1. First Stage Researcher.
- **López Blázquez, María:** R1. First Stage Researcher.
- **Martín Mayoral, Anabel:** R1. First Stage Researcher.
- **Medrano López, Constancio:** R4. Leading Researcher.
- **Muñoz-Pacheco Román, Rafael.**
- **Panadero Carlavilla, María Esther.**
- **Pardo Pardo, Carlos Andrés.**
- **Pérez-Caballero Martínez, Ramón.**
- **Pinero Díaz, Gloria Isabel.**
- **Pita Fernández, Ana.**
- **Relaño García, Cristina.**
- **Rodríguez Ogando, Alejandro.**
- **Sobrino Baladrón, Adolfo.**
- **Solana Gracia, Ruth.**
- **Zunzunegui Martínez, José Luis:** R1. First Stage Researcher.





## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 90,5

	N°	IF
Own publications	6	24,0
Joint publications	10	66,5
First decile publications	1	24,0
First quartile publications	11	83,5
Second quartile publications	0	0,0
Third quartile publications	2	3,7
Fourth quartile publications	3	3,3
Nonindexed publications/No IF	8	–
<b>Total publications (including those without IF)</b>	<b>24</b>	<b>90,5</b>

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

- Faim, D; Silva, PV; Zunzunegui, JL; Puga, L; Francisco, A; Rodrigues, D; Pires, A. *Simultaneous transcatheter pulmonary and tricuspid valve-in-ring implantation*. *CARDIOLOGY IN THE YOUNG*. 2022; 32(6) 1013-1015. FI: 1. Cuartil: 4. (Article).

- Faim D; Silva PV; Marinho JC; Francisco A; Luis Zunzunegui J; Pires A. *Repositioning an embolised stent during a percutaneous pulmonary valve implantation*. *CARDIOLOGY IN THE YOUNG*. 2022; 32(1) 158-160. FI: 1. Cuartil: 4. (Article).
- Ogando, AR; Ballesteros, F; Martínez, JLZ. *Pulmonary percutaneous valve implantation in large native right ventricular outflow tract with 32 mm Myval transcatheter heart valve*. *CATHERIZATION AND CARDIOVASCULAR INTERVENTIONS*. 2022; 99(1) 38-42. FI: 2.3. Cuartil: 3. (Article).
- Norrish, G; Ding, T; Field, E; Cervi, E; Ziolkowska, L; Olivotto, I; Khraiche, D; Limongelli, G; Anastasakis, A; Weintraub, R; Biagini, E; Ragni, L; Prendiville, T; Duignan, S; McLeod, K; Ilina, M; Fernández, A; Marrone, C; Bokenkamp, R; Baban, A; Kubus, P; Daubeney, PEF; Sarquella-Brugada, G; Cesar, S; Klaassen, S; Ojala, TH; Bhole, V; Medrano, C; Uzun, O; Brown, E; Gran, F; Sinagra, G; Castro, FJ; Stuart, G; Vignati, G; Yamazawa, H; Barriales-Villa, R; García-Guereta, L; Adwani, S; Linter, K; Bharucha, T; García-Pavia, P; Siles, A; Rasmussen, TB; Calcagnino, M; Jones, CB; De Wilde, H; Kubo, T; Felice, T; Popoiu, A; Mogensen, J; Mathur, S; Centeno, F; Reinhardt, Z; Schouvey, S; O'Mahony, C; Omar, RZ; Elliott, PM; Kaski, JP. *Relationship Between Maximal Left Ventricular Wall Thickness and Sudden Cardiac Death in Childhood Onset Hypertrophic Cardiomyopathy*. *CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY*. 2022; 15(5). FI: 8.4. Cuartil: 1. (Article).
- Pérez-Caballero, R; Pardo, CA; Correia, PM; Ballesteros, F. *Recurrent infective stenosis of Fontan conduit*. *EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY*. 2022; 62(1). FI: 3.4. Cuartil: 1. (Editorial Material).
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- Fajardo-Rodríguez, E; Gil-Jaurena, JM; Pardo, CAP; Fernández, AP; Pérez-Caballero, R. *Left heart bypass for repair of aortic coarctation in the newborn: A procedure to change the surgical strategy*. CIRUGIA CARDIOVASCULAR. 2022; 29(3) 151-154. (Article).
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### Other publications

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Group Director: **LUIS ANTONIO ÁLVAREZ-SALA WALTHER**

Organisms involved: **HGUGM**

Type: **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

- **Álvarez-Sala Walther, Luis Antonio:** R4. Leading Researcher.
- **Amodeo Oblitas, Christian Mario:** R1. First Stage Researcher.
- **Bello Martínez, Elena:** R2. Recognised Researcher.
- **Cabrera Aguilar, Francisco Javier.**
- **Conthe Gutiérrez, Pedro:** R2. Recognised Researcher.
- **De Miguel Yanes, Jose M<sup>a</sup>.**
- **Del Toro Cervera, Jorge:** R1. First Stage Researcher.
- **Demelo Rodríguez, Pablo:** R1. First Stage Researcher.
- **Galeano Valle, Francisco.**
- **Millan Núñez-Cortés, Jesús:** R4. Leading Researcher.
- **Pérez de Oteyza, Carlos.**
- **Pérez Rus, Gloria:** R1. First Stage Researcher.
- **Recarte García-Andrade, Carlos:** R1. First Stage Researcher.
- **Toledo Samaniego, Nerea:** R1. First Stage Researcher.
- **Torres do Rego, Ana.**
- **Valdés Gross, Inés.**

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 216,0

	Nº	IF
Own publications	14	61,7
Joint publications	24	154,3
First decile publications	2	46,7
First quartile publications	13	123,1
Second quartile publications	21	81,3
Third quartile publications	4	11,6
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	3	–
<b>Total publications (including those without IF)</b>	<b>41</b>	<b>216,0</b>

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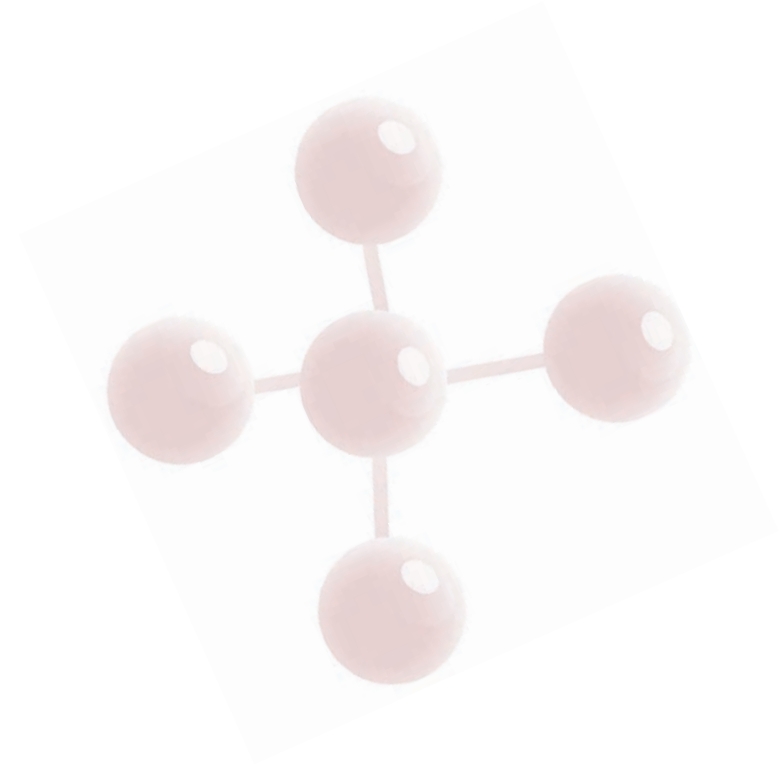


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- Rodríguez, MOL; Oblitas, CMA; Carvajal, CC. *Pneumocystis jirovecii and methicillin-resistant Staphylococcus aureus superinfection, a challenge in a post-COVID-19 scenario.* GALICIA CLINICA. 2022; 83(4) 32-38. (Article).
- Moragon-Ledesma, S; Gurjian-Arena, AA; Díaz-Fontenla, F; Galeano-Valle, F; Demelo-Rodríguez, P. *An unusual case of intestinal obstruction beyond the proximal ileum due to the internal bumper of a percutaneous endoscopic gastrostomy.* REVISTA DE GASTROENTEROLOGIA DE MEXICO. 2022; 87(1) 122-124. (Letter).





Group Director: **Antonio Gil Núñez**

Organisms involved: **HGUGM**

Type: **Emerging group**

## Research lines

- ▶ L1: Epidemiologic, clinical, and therapeutic aspects of cerebral ischemic disease.
- ▶ L2: WEBICTUS II
- ▶ L3: Diagnosis and therapy in cardioembolic cerebral ischemia.
- ▶ L4: CAOS study
- ▶ L5: Neurologic intervention in acute stroke.
- ▶ L6: Teleictus for area.
- ▶ L7: Study on stroke code for delay times
- ▶ L8: ESUS GM study
- ▶ L9: Implementation of IV thrombolysis in central retinal artery occlusion
- ▶ L10: TechnoNoteplase Implantation in IV Thrombolysis
- ▶ L11: Advanced Practice Nurse for Continued Care in Secondary Prevention

**R**esearch group of the Vascular Neurology Section - Stroke Center on all aspects of cerebrovascular disease with participation in multidisciplinary and multicenter studies.

## Group members

- **Díaz Otero, Fernando:** R1. First Stage Researcher.
- **Fernández Bullido, Yolanda:** R1. First Stage Researcher.
- **García Pastor, Andrés:** R2. Recognised Researcher.
- **Gil Nuñez, Antonio:** R4. Leading Researcher.
- **Iglesias Mohedano, Ana María:** R2. Recognised Researcher.
- **Vales Montero, Marta:** R1. First Stage Researcher.
- **Vázquez Alen, Pilar:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 22,3

	N°	IF
Own publications	4	11,9
Joint publications	3	10,4
First decile publications	0	–
First quartile publications	0	0,0
Second quartile publications	6	21,1
Third quartile publications	0	0,0
Fourth quartile publications	1	1,2
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>7</b>	<b>22,3</b>







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

- García-Pastor, A; Gil-Nunez, A; Ramirez-Moreno, JM; González-Nafria, N; Tejada, J; Moniche, F; Portilla-Cuenca, JC; Martínez-Sánchez, P; Fuentes, B; Gamero-García, MA; de Lecinana, MA; Masjuan, J; Verge, DC; Aladro, Y; Parkhutik, V; Lago, A; De Arce-Borda, AM; Usero-Ruiz, M; Delgado-Mederos, R; Pampliega, A; Ximenez-Carrillo, A; Bartulos-Iglesias, M; Castro-Reyes, E. *Endarterectomy, Stenting, or Medical Treatment for Symptomatic Carotid Near-Occlusion: Results from CAOS, a Multicenter Registry Study*. AMERICAN JOURNAL OF NEURORADIOLOGY. 2022; 43(9) 1304-1310. FI: 3.5. Cuartil: 2. (Article).
- de Miguel-Sánchez CJ; Arguello-Tomas M; Pérez-Rus G; Vázquez-Allen P; Mijaylova-Antonova AG; Anaya F; López-Esteban M; Diez-Martín JL; Gil-Núñez AC; Pascual-Izquierdo C. *Plasma exchange as an effective salvage therapy in AZD1222 vaccine-induced thrombotic thrombocytopenia: a case report*. BLOOD TRANSFUSION. 2022; 20(2) 152-155. FI: 3.7. Cuartil: 2. (Article).
- Gil-Nunez, A; Masjuan, J; Montaner, J; Castellanos, M; Segura, T; Cardona, P; Tembl, JI; Purroy, F; Arenillas, J; Palacio, E. *Proprotein convertase subtilisin/kexin type 9 inhibitors in secondary prevention of vascular events in patients with stroke: Consensus document and practice guidance*. NEUROLOGIA. 2022; 37(2) 136-150. FI: 3.9. Cuartil: 2. (Article).
- Palacio-Portilla, EJ; Roquer, J; Amaro, S; Arenillas, JF; Ayo-Martín, O; Castellanos, M; Freijo, MM; Fuentes, B; García-Pastor, A; Gomis, M; Gómez-Choco, M; López-Cancio, E; Martínez-Sánchez, P; Morales, A; Rodríguez-Yañez, M; Segura, T; Serena, J; Vivancos-Mora, J; de Lecinana, MA. *Dyslipidemias and stroke prevention: recommendations of the Study*

*Group of Cerebrovascular Diseases of the Spanish Society of Neurology*. NEUROLOGIA. 2022; 37(1) 61-72. FI: 3.9. Cuartil: 2. (Article).

- Mas-Serrano, M; García-Pastor, A; Iglesias-Mohedano, AM; Díaz-Otero, F; Vázquez-Alen, P; Fernández-Bullido, Y; Vales-Montero, M; Amaya-Pascasio, L; Portela-Sánchez, S; Catedra-Caramé, C; Gil-Nunez, AC. *Related factors with orolingual angioedema after intravenous alteplase in acute ischemic stroke: results from a single-center cohort and meta-analysis*. NEUROLOGICAL SCIENCES. 2022; 43(1) 441-452. FI: 3.3. Cuartil: 2. (Article).
- Manrique-Zegarra, M; García-Pastor, A; Castro-Reyes, E; Guzmán-De-Villoria, JA; Herrera, IH; Morro, IG; Dieguez, MD; Gil, FF; Cantero, JG; Lorente, JS. *CT angiography for diagnosis of carotid near-occlusion: a digital subtraction angiography validation study*. NEURORADIOLOGY. 2022; 64(9) 1729-1735. FI: 2.8. Cuartil: 2. (Article).
- Gómez-Roldos, A; González-Sánchez, M; Vales-Montero, M; Vaquez-Alen, P; Fernández-Bullido, Y; Iglesias-Mohedano, AM; Díaz-Otero, F; García-Pastor, A; Gil-Nunez, A. *Fatal intracerebral haemorrhage associated with thrombosis with thrombocytopenia syndrome after ChAdOx1-S vaccine*. REVISTA DE NEUROLOGIA. 2022; 75(7) 199-202. FI: 1.2. Cuartil: 4. (Article).

**Other publications**

- Gil-Núñez A; Masjuan J; Montaner J; Castellanos M; Segura T; Cardona P; Tembl JI; Purroy F; Arenillas J; Palacio E. *Proprotein convertase subtilisin/kexin type 9 inhibitors in secondary prevention of vascular events in patients with stroke: Consensus document and practice guidance*. NEUROLOGIA (BARCELONA, SPAIN). 2022; 37(2) 136-150. (Practice Guideline).







# AREA 3

## NEUROSCIENCE AND MENTAL HEALTH

*Area coordinator:*  
**Celso Arango López**

One of the main research lines in the area of neuroscience is the study of the etiology and pathogenesis of neurodevelopmental disorders, such as autism spectrum disorders, schizophrenia, and other psychotic disorders.

The psychiatry group of this area participates and collaborates in national and international multicenter projects associated with environmental and genetic risk factors, functional and structural imaging studies, and intermediate mechanisms such as the search for endophenotypes and the biological bases of neuropsychology.

The relevance of the work carried out resides in the group's ability to perform longitudinal studies of unusual types of patients, such as those with early-onset first psychotic episodes or children and adolescents at risk of severe psychiatric disease. Research to date has been multidisciplinary and translational and oriented toward resolving findings associated with the clinical activity of these diseases. In fact, currently established clinical programs for these diseases are being investigated

and benefiting from close coordination between clinical practice and research. One of the main associated research lines concerns developmental neuropsychopharmacology, which includes projects on pharmacogenetics and pharmacovigilance, as well as phase II/III clinical trials financed using competitive public funds and private funds.

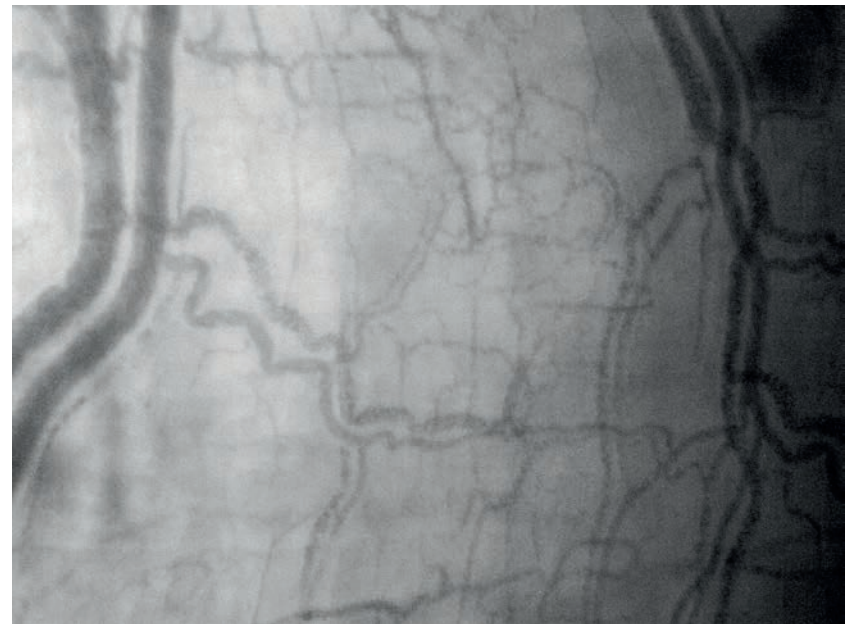
Finally, a further 2 lines of interest for this group are research on the empirical evaluation of psychotherapeutic approaches during early-onset first psychotic episodes and research into quality of services and evaluation of programs.

The success of the group has been particularly apparent in recent European calls for projects and its coordination of the Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM [Networked Center for Biomedical Research in Mental Health]). Furthermore, activity in neuroscience and mental health has been increasing in several emerging groups in fields such as neuroimmunology and movement disorders.

# Groups in AREA **3**

## **NEUROSCIENCE AND MENTAL HEALTH**

- ▶ 3.01. Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
- ▶ 3.03B. Neurological diseases



Photography: Rafael González Cortés



Group Director: **CELSO ARANGO LÓPEZ**

Organisms involved: **HGUGM / UCM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Consolidation of research networks and alliances in neurosciences

- ▶ L1: Consolidation of a network for the evaluation of new therapeutic strategies in Autism Spectrum Disorders.
- ▶ L2: More efficient integration of the basic research developed at UCM and the clinical research developed at HGUGM through collaborative projects and the use of animal models.
- ▶ L3: Increasing the capacity and complementarity of our group within CIBERSAM to achieve the increase the number of samples needed to achieve significant results in collaborative studies

### Axis 2: Consolidation of research lines in neurosciences

- ▶ L1: Consolidation of the line of research into populations at high risk of developing mental disorders and neurodevelopmental disorders
- ▶ L2: Expansion of additional sources of funding; regional, national and international
- ▶ L3: Increase in scientific production in the Neurodevelopmental Disorders programme
- ▶ L4: Increase scientific production in basic research
- ▶ L5: Continue and promote translational and collaborative research in schizophrenia and other psychoses

### Axis 3: Consolidation of the teaching plan in neurosciences

- ▶ L1: Consolidation of the group's teaching plan with a stable offer of courses, stays and the preparation of doctoral theses

### Axis 4: Consolidation of infrastructures

- ▶ L1: Expansion of the structures and equipment of the laboratory space; consolidation of the Psychiatry Laboratory

The group “Neurobiological and psychological bases of mental disorders. Neurodevelopmental disorders”, led by Dr. Celso Arango, has developed a prolific research activity in collaboration with national and international groups in recent years. This group is one of the few that has achieved international recognition in the field of childhood- and adolescent-onset schizophrenia and early-onset psychosis, as well as in neuropsychopharmacology in neurodevelopmental disorders. The quality of its scientific output is reflected in the number of externally evaluated projects funded by competitive calls from public and private institutions, predoctoral and postdoctoral researchers with contracts financed 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 participate or have participated in 10 projects funded by the European Union's Seventh Framework Programme, including one project funded by the European Neuroscience Research Funding Network (ERANET-NEURON), 3 projects funded by the Horizon 2020 Innovative Medicines Call, 4 under the Staying Healthy programme (2021) and four projects funded by the US National Institute of Health (NIH). 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. His scientific activity has also been translated into 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.





### Group members

- **Abregu Crespo, Renzo:** R1. First Stage Researcher.
- **Abrokwa Acheampong, Hayford:** R1. First Stage Researcher.
- **Andreu Bernabeu, Álvaro:** R1. First Stage Researcher.
- **Arango López, Celso:** R4. Leading Researcher.
- **Arango Victoria, Manuel Jovino:** Otros. Data Manager.
- **Ayora Rodríguez, Miriam Valle:** R1. First Stage Researcher.
- **Baeza Muñoz, Cristina:** Other.
- **Baltasar Tello, Itziar:** R2. Recognised Researcher.
- **Barcenilla González, Miguel Ángel:** Other. Project Manager.
- **Boada Muñoz, Leticia:** Other.
- **Boi, Sara:** R1. First Stage Researcher.
- **Bravo Sánchez, Marta:** R2. Recognised Researcher.
- **Burdeus Olavarrieta, Mónica:** R1. First Stage Researcher.
- **Calvo Calvo, Ana Belén:** R2. Recognised Researcher.
- **Carballo Belloso, Juan José:** R3. Established Researcher.
- **Caserini, Chiara:** R1. First Stage Researcher.
- **Cavone, Vito:** R1. First Stage Researcher.
- **Cerezo Román, Lourdes:** R1. First Stage Researcher.
- **Civeira Marín, Ignacio:** Other.
- **Colomar Molla, Laura:** R1. First Stage Researcher.
- **Conejo Galindo, Javier:** R1. First Stage Researcher.
- **Corral Zarapuz, Azucena:** Other. Data Manager.
- **Cuesta Santamaría, María Luisa:** Other.
- **Cunillera Llorente, Alicia:** Other.

- **De Diego Ruiz, Héctor:** R1. First Stage Researcher.
- **De Fresno Cerezo, Rafael:** R1. First Stage Researcher.
- **De Matteis, Mario:** R1. First Stage Researcher.
- **De Portugal Fernández del Rivero, Enrique:** R2. Recognised Researcher.
- **Delgado Lacosta, Carlos:** R2. Recognised Researcher.
- **Dorado Martínez, María Luisa:** R2. Recognised Researcher.
- **Durán Cutilla, Manuel:** R1. First Stage Researcher.
- **Esguevillas Cuesta, Álvaro:** R2. Recognised Researcher.
- **Espliego Felipe, Ana:** R1. First Stage Researcher.
- **Ferre Navarrete, Francisco:** R3. Established Researcher.
- **Galván García, Joaquín:** R1. First Stage Researcher.
- **García Alcon, Alicia:** R1. First Stage Researcher.
- **García Cabeza, Ignacio:** R2. Recognised Researcher.
- **Garibi Pérez, Ainhoa:** R2. Recognised Researcher.
- **Garriz Luis, Alexandra:** R1. First Stage Researcher.
- **Gil Molina, Santiago:** R2. Recognised Researcher.
- **González Lois, Noemí:** R1. First Stage Researcher.
- **González Luis, Julio:** R2. Recognised Researcher.
- **González Peñas, Javier:** R2. Recognised Researcher.
- **Guil Gallego, Ana:** R1. First Stage Researcher.
- **Gurriarán Bas, Xaquín:** R2. Recognised Researcher.
- **Hernández Álvarez, Fabian:** R1. First Stage Researcher.
- **Hernández Jurdado, Patricia:** R2. Recognised Researcher.

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### Group members (Cont.)

- **Hoddan Caudevilla, Ricardo Miguel:** R2. Recognised Researcher.
- **Huertas Patón, Abigail:** R2. Recognised Researcher.
- **Huete Diego, Miguel A.:** Other. Data Manager.
- **Janssen Jeucken, Joost:** R2. Recognised Researcher.
- **Laorden Nieto, Alejandra Teresa:** R2. Recognised Researcher.
- **Llorente Sarabia, Cloe:** R2. Recognised Researcher.
- **Logo Lendo, Nermina:** R1. First Stage Researcher.
- **López Carpintero, Beatriz:** R1. First Stage Researcher.
- **López Moreno, Laura:** R1. First Stage Researcher.
- **López Morinigo, Javier David:** R2. Recognised Researcher.
- **Lucas Sánchez, María:** Other.
- **Magaz Muñoz, Ana María:** R2. Recognised Researcher.
- **Marín Camuñas, Ana María:** R1. First Stage Researcher.
- **Martín Martínez, Nuria:** R1. First Stage Researcher.
- **Martínez Díaz-Caneja, María Covadonga:** R2. Recognised Researcher.
- **Martínez Rodríguez, Kenia:** R3. Established Researcher.
- **Martínez Villar, Sofía:** Other.
- **Mayoral Aragón, María:** R3. Established Researcher.
- **Mendez Hernández, María Andreína:** Other.
- **Merchán Naranjo, Jessica:** Other.
- **Merchán Ribera, Susana:** Other. Data Manager.
- **Molina García, María Dolores:** R1. First Stage Researcher.
- **Monleón Pérez, Nieves:** Other.

- **Morán Moya, Purificación:** Other. Data Manager.
- **Moreno Moreno, Beatriz:** Other. Laboratory Support Technician.
- **Moreno Pardillo, María Dolores:** R1. First Stage Researcher.
- **Moreno Ruiz, Carmen:** R3. Established Researcher.
- **Morillas Muñoz, Aida:** Other. Laboratory Support Technician.
- **Mota Molina, Macarena:** Other.
- **Munilla Suárez, Estrella:** Other.
- **Olmeda García, María Soledad:** R1. First Stage Researcher.
- **Ordás Díaz, Celia:** R1. First Stage Researcher.
- **Panadero Gómez, Rocío:** R1. First Stage Researcher.
- **Parellada Redondo, María José:** R3. Established Researcher.
- **Parro Torres, Carlos:** R2. Recognised Researcher.
- **Penzol Alonso, María José:** Other.
- **Peña Granger, María Mercedes:** Other.
- **Picouto González, María Dolores:** R2. Recognised Researcher.
- **Pina Camacho, Laura:** R2. Recognised Researcher.
- **Ramírez Cardesín, María:** R1. Recognised Researcher.
- **Rapado Castro, Marta:** R3. Established Researcher.
- **Recio Lamparero, Sandra:** Other. Laboratory Support Technician.
- **Rivas Cambronero, Eva:** R2. Recognised Researcher.
- **Rivas Rodríguez, María del Mar:** Other.
- **Rodríguez Castro, Raquel:** R1. First Stage Researcher.
- **Rodríguez Latorre, Pamela:** Other.
- **Rodríguez Toscano, Elisa:** R1. First Stage Researcher.

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## Group members (Cont.)

- **Roldán Díaz, Laura:** R2. Recognised Researcher.
- **Romero Polonio, Cristina:** R1. First Stage Researcher.
- **Roncero Rodríguez, María Soledad:** R1. First Stage Researcher.
- **Salas Pérez, Sara:** Other.
- **Salazar de Pablo, Gonzalo:** R2. Recognised Researcher.
- **San José Cáceres, Antonia:** R2. Recognised Researcher.
- **Sánchez Camara, Ana:** R1. First Stage Researcher.
- **Sánchez Díaz, Emilio Ignacio:** R2. Recognised Researcher.
- **Sánchez Gutiérrez, Teresa:** R2. Recognised Researcher.
- **Santos Fernández, Laura:** R1. First Stage Researcher.
- **Schnack, Hugo:** R3. Established Researcher.
- **Sepúlveda Palomo, Marta:** R1. First Stage Researcher.
- **Sevilla Cermeño, Laura:** R2. Recognised Researcher.
- **Sevillano Bermejo, Ana:** Other. Data Manager.
- **Sipos Gálvez, Lourdes:** Other.
- **Solis Olcese, Andrea:** R1. First Stage Researcher.
- **Stella, Carol:** R1. First Stage Researcher.
- **Szerman Bolotner, Néstor:** Other.
- **Torrero Alía, María:** Other Laboratory Support Technician.
- **Urbiola Merina, Elena:** R1. First Stage Researcher.
- **Valencia Agudo, Fátima:** Other.
- **Verdura Vizcaíno, José Ernesto:** R2. Recognised Researcher.
- **Vicente Moreno, Raquel Pilar:** R1. First Stage Researcher.
- **Vicente Sánchez, Isabel:** R1. First Stage Researcher.
- **Vidal de la Fuente, Jorge:** Other.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	5			
National	19		22	
Regional	1		2	

- Title: **H2020 Autism Innovative Medicine Studies-2-Trials.** H2020 AIMS-2-TRIALS  
Director: Arango López, Celso/Parellada Redondo, M<sup>a</sup> José  
Funding body: European Union  
Type of Project: H2020 European research project  
Start date: 01/05/2018  
End date: 31/05/2025
- Title: **Conect4children (Collaborative Network for European Clinical Trials for Children).** H2020 c4c-777389  
Director: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of Project: H2020 European research project  
Start date: 01/05/2019  
End date: 30/04/2024
- Title: **FAMILY: Running in the FAMILY - Understanding and predicting the intergenerational transmission of mental illness.** HE FAMILY 101057529  
Director: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of Project: European research project  
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: Moreno Ruíz, Carmen  
Funding body: European Union  
Type of Project: European research project  
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  
Funding body: European Union  
Type of Project: European research project  
Start date: 01/06/2022  
End date: 31/05/2027
- 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, M<sup>a</sup> Jose  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2022  
End date: 31/12/2025
- Title: **Identificando los correlatos de neuroimagen de la función ejecutiva a lo largo del continuum de la psicosis: Un estudio en adolescentes y adultos jóvenes.** PI21/00701  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Interacción Gen x ambiente en hijos de pacientes con esquizofrenia o trastorno bipolar.** PI21/01694  
Director: Moreno Pardillo, M<sup>a</sup> Dolores  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Bases etiopatológicas de la disregulación emocional en adolescentes con depresión (MDD-DYS).** PI21/01929  
Director: Moreno Ruiz, Carmen  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros episodios psicóticos** PI20/00721  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2021  
End date: 31/12/2023
- 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  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Bases neurobiológicas de las trayectorias diferenciales de los Trastornos del Espectro Autista** PI20/01382  
Director: Parellada Redondo, M<sup>a</sup> Jose  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2021  
End date: 31/12/2023







- Title: **Enfoque integral y traslacional para el diagnóstico genético de TEA. Caracterización clínica.** PI19/01024  
Director: Arango López, Celso  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2020  
End date: 30/06/2024
- Title: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1: mecanismos epigenéticos y comorbilidad afectiva** PI18/01819  
Director: Carballo Belloso, Juan José  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles.** PI18/01119  
Director: Moreno Pardillo, M<sup>a</sup> Dolores  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente.** PI18/00753  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2019  
End date: 30/06/2023
- Title: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 años.** PI17/02227  
Director: Moreno Ruiz, Carmen  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista.** PI17/01997  
Director: Pina Camacho, Laura  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis.** PI17/01249  
Director: Janssen Jeucken, Joost  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997  
Director: Mayoral Aragón, María  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Biotipos en Trastornos del Espectro Autista: relación con evolución clínica y respuesta a fármacos** PI17/00819  
Director: Parellada Redondo, M<sup>a</sup> José  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022





- Title: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de delección 22q11.2** PI17/00481  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Ambiente y Genes en Esquizofrenia (AGES-CM 2)** S2017/BMD-3740  
Director: Arango López, Celso  
Funding body: Consejería de Educación d Investigación. Comunidad de Madrid  
Type of Project: Research project  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01  
Director: Pina Camacho, Laura  
Funding body: Fundación Alicia Koplowitz  
Type of Project: Research project  
Start date: 01/11/2019  
End date: 30/04/2022
- Title: **Estudio de caracterización fenotípica y su relación con las alteraciones genéticas mediadoras del fenotipo en el síndrome de Phelan-McDermid (PMS o delección 22q13)** FIBHGM-CCA027-2020  
Director: Parellada Redondo, M<sup>a</sup> Jose  
Funding body: Fundación Alicia Koplowitz  
Type of Project: Research project  
Start date: 20/09/2020  
End date: 31/05/2023
- Title: **Beca de doctorado Fundación Bancaria La Caixa-** INPHINIT2018-CS  
Director: Arango López, Celso (Stella, Carol)  
Funding body: Fundación La Caixa  
Type of Project: Human resources  
Start date: 29/10/2018  
End date: 28/02/2022
- Title: **Ramón y Cajal Contract.** RYC-2017-23144  
Director: Rapado Castro, Marta  
Funding body: Ministerio de Economía y Hacienda  
Type of Project: Human resources  
Start date: 01/09/2018  
End date: 31/08/2024
- Title: **Formación profesorado universitario.** FPU20/07486  
Director: Abrokwa Acheampong, Hayford  
Funding body: Ministerio de Economía y Hacienda  
Type of Project: Human resources  
Start date: 13/12/2021  
End date: 12/12/2025
- Title: **Formación profesorado universitario.** FPU19/06877  
Director: Martín Martínez, Nuria  
Funding body: Ministerio de Economía y Hacienda  
Type of Project: Human resources  
Start date: 31/10/2020  
End date: 31/10/2024
- Title: **Formación profesorado universitario.** FPU19/06752  
Director: Panadero Gómez, Rocío  
Funding body: Ministerio de Economía y Hacienda  
Type of Project: Human resources  
Start date: 01/12/2021  
End date: 30/11/2025
- Title: **Formación profesorado universitario.** FPU18/06550  
Director: Rubio Fernández, Patricia  
Funding body: MICINN  
Type of Project: Human resources  
Start date: 29/10/2019  
End date: 28/10/2023
- Title: **Formación profesorado universitario.** FPU17/06467  
Director: Colomar Molla, Laura





Funding body: Ministerio de Economía y Hacienda  
Type of Project: Human resources  
Start date: 26/10/2018  
End date: 25/10/2022

- Title: **Formación profesorado universitario.** FPU16/01740  
Director: García Alcón, Alicia  
Funding body: Ministerio de Educación, Cultura y Deporte  
Type of Project: Human resources  
Start date: 24/10/2017  
End date: 23/03/2022
- Title: **Intesification contract** INT20/00043  
Director: Parellada Redondo, María José  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Sara Borrell contract.** CD20/00082  
Director: Alloza Romero, Clara  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Sara Borrell contract.** CD20/00118  
Director: González Peñas, Javier  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00114  
Director: Andreu Bernabéu, Álvaro  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 29/01/2021  
End date: 28/01/2023
- Title: **Predoctoral contract.** FI18/00233  
Director: Burdeus Olavarrieta, Mónica  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2019  
End date: 31/05/2023
- Title: **Predoctoral contract.** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of Project: Human resources  
Start date: 02/04/2018  
End date: 01/09/2022
- Title: **Juan Rodés contract.** JR19/00024  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 29/01/2020  
End date: 28/01/2024
- Title: **Sara Borrell contract.** CD20/00118  
Director: González Peñas, Javier  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00114  
Director: Andreu Bernabéu, Álvaro  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 29/01/2021  
End date: 28/01/2023
- Title: **Predoctoral contract.** FI18/00233  
Director: Burdeus Olavarrieta, Mónica  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)





Type of Project: Human resources

Start date: 01/01/2019

End date: 31/05/2023

- Title: **Predoctoral contract.** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of Project: Human resources  
Start date: 02/04/2018  
End date: 01/09/2022
- Title: **Juan Rodés contract.** JR19/00024  
Director: Martínez Díaz-Caneja, María Covadonga  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 29/01/2020  
End date: 28/01/2024
- Title: **Río Hortega contract.** CM21/00148  
Director: Boi, Sara  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **Sara Borrell contract.** CD18/00185  
Director: Martínez, Kenia  
Funding body: Instituto de Salud Carlos III  
Type of Project: Human resources  
Start date: 01/01/2019  
End date: 30/01/2022
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-18635  
Director: Janssen Jeucken, Joost  
Funding body: Comunidad De Madrid  
Type of Project: Human resources  
Start date: 01/03/2021  
End date: 28/02/2023

- Title: **Young employment contract. Research Assistant.** PEJ-2019-AI/SAL-15702  
Director: Moreno Ruiz, Carmen  
Funding body: Comunidad de Madrid  
Type of Project: Human resources  
Start date: 01/02/2020  
End date: 31/01/2022

### Industrial and intellectual property registrations

#### Copyright

Title	Reference	Owner	Inventors
Programa de mejora de la convivencia y prevención del acoso escolar LINKlusive	16/2022/1850	FIBHGM, UCM	Covadonga Martínez, Javier Martín, Celso Arango

■ Transferred Industrial Property.

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBERSAM (CIBER de Salud Mental)	Collaborating group
Other: c4c research network	Conect4children	Expert advice group
Other: Networks Board and Taskforce - ECNP	ECNP Network	Thematic Working Groups





### Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	María Dolores Molina García	Contribución del cociente intelectual premórbido y la edad de inicio de psicosis al rendimiento cognitivo y recuperación funcional de individuos con un primer episodio psicótico	Celso Arango/ Marta Rapado	UCM	01/06/2022
Ph Thesis	Gonzalo Salazar de Pablo	Síndromes con alto riesgo clínico de desarrollar trastornos psicóticos: avances en caracterización, pronóstico y factores terapéuticos	Carmen Moreno Ruiz	UCM	28/01/2022
Ph Thesis	Alicia García Alcón	Estudio de la influencia e interacción del riesgo poligénico y factores ambientales en la gravedad y tipología de pacientes con trastorno del espectro autista	Mara Parellada/ Celso Arango/ Javier González-Peñas	UCM	19/10/2022

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
Fiksinski AM, Bearden CE, Bassett AS, Kahn RS, Zinkstok JR, Hooper SR, Tempelaar W, McDonald-McGinn D, Swillen A, Emanuel B, Morrow B, Gur R, Chow E, van den Bree M, Vermeesch J, Warren S, Owen M, van Amelsvoort T, Eliez S, Gothelf D, Arango C, Kates W, Simon T, Murphy K, Repetto G, Suner DH, Vicari S, Cubells J, Armando M, Philip N, Campbell L, Garcia-Minaur S, Schneider M, Shashi V; 22q11DS International Consortium on Brain and Behavior; Vorstman J, Breetvelt EJ.	A normative chart for cognitive development in a genetically selected population	Neuropsychopharmacology. 10.1038/s41386-021-00988-6.
López-Morinigo JD, Leucht S, Arango C.	Pharmacological Treatment of Early-Onset Schizophrenia: A Critical Review, Evidence-Based Clinical Guidance and Unmet Needs	Pharmacopsychiatry. 10.1055/a-1854-0185
Fusar-Poli P, Manchia M, Koutsouleris N, Leslie D, Woopen C, Calkins ME, Dunn M, Tourneau CL, Mannikko M, Mollema T, Oliver D, Rietschel M, Reininghaus EZ, Squassina A, Valmaggia L, Kessing LV, Vieta E, Correll CU, Arango C, Andreassen OA; PSMD EBRA cluster (annex 1)	Ethical considerations for precision psychiatry: A roadmap for research and clinical practice	Eur Neuropsychopharmacol. 10.1016/j.euroneuro.2022.08.001
Arango C, Buitelaar JK, Correll CU, Díaz-Caneja CM, Figueira ML, Fleischhacker WW, Marcotulli D, Parellada M, Vitiello B.	The transition from adolescence to adulthood in patients with schizophrenia: Challenges, opportunities and recommendations	Eur Neuropsychopharmacol. 10.1016/j.euroneuro.2022.04.005
Correll CU, Fusar-Poli P, Leucht S, Karow A, Maric N, Moreno C, Nordentoft M, Raballo A.	Treatment Approaches for First Episode and Early-Phase Schizophrenia in Adolescents and Young Adults: A Delphi Consensus Report from Europe	Neuropsychiatr Dis Treat. 10.2147/NDT.S345066.
Fraguas D, Almenta Gallego D, Arques-Egea S, Gómez-Revuelta M, Sánchez-Lafuente CG, Hernández Huerta D, Núñez Arias D, Oda Plasencia-García B, Parro Torres C, Romero-Guillena SL, Ros Cucurul E, Alamo C.	Aripiprazole for the treatment of schizophrenia: Recommendations of a panel of Spanish experts on its use in clinical practice	Int J Psychiatry Clin Pract. 10.1080/13651501.2022.2064308





Publications	Total Impact Factor: 926,1	
	Nº	IF
Own publications	19	163,0
Joint publications	82	763,1
First decile publications	37	603,1
First quartile publications	72	819,0
Second quartile publications	22	89,3
Third quartile publications	6	16,7
Fourth quartile publications	1	1,1
Nonindexed publications/No IF	10	-
<b>Total publications (including those without IF)</b>	<b>111</b>	<b>926,1</b>

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

- Camacho-Rubio, J; Cambroner, ER; Camazon, PA; Camacho-Rubio, M; Marrero, RR; Martínez, DG; Benitez, SM. *A call for the implementation of Assertive Community Treatment for children and adolescents*. ACTA PSYCHIATRICA SCANDINAVICA. 2022; 146(1) 21-35. FI: 6.7. Cuartil: 1. (Article).
- Baandrup, L; Allerup, P; Nielsen, MO; During, SW; Bojesen, KB; Leucht, S; Galderisi, S; Mucci, A; Bucci, P; Arango, C; Díaz-Caneja, CM; Dazzan, P; McGuire, P; Demjaha, A; Ebdrup, BH; Fleischhacker, WW; Kahn, RS; Glenthøj, BY. *Scalability of the Positive and Negative Syndrome Scale in first-episode schizophrenia assessed by Rasch models*. ACTA PSYCHIATRICA SCANDINAVICA. 2022; 146(1) 101-102. FI: 6.7. Cuartil: 1. (Letter).
- Al-Soufi, L; Martorell, L; Molto, MD; González-Penas, J; García-Portilla, MP; Arrojo, M; Rivero, O; Gutiérrez-Zotes, A; Nacher, J; Muntane, G; Paz, E; Paramo, M; Bobes, J; Arango, C; Sanjuan, J; Vilella, E; Costas, J. *A polygenic approach to the association between smoking and*

*schizophrenia*. ADDICTION BIOLOGY. 2022; 27(1). FI: 3.4. Cuartil: 3. (Article).

- Parro-Torres, C; Hernández-Huerta, D; Ochoa-Mangado, E; Pérez-Elias, MJ; Baca-García, E; Madoz-Gurpide, A. *Antiretroviral treatment adherence and mental disorders: observational case-control study in people living with HIV in Spain*. AIDS CARE-PSYCHOLOGICAL AND SOCIO-MEDICAL ASPECTS OF AIDS/HIV. 2022; 34(8) 1-9. FI: 1.7. Cuartil: 3. (Article).
- Amor, PJ; Echeburua, E; Camarillo, L; Ferre, F; Sarasua, B; Zubizarreta, I. *DEPENDENCIA EMOCIONAL Y MALTRATO EN MUJERES VICTIMAS DE VIOLENCIA CONTRA LA PAREJA*. BEHAVIORAL PSYCHOLOGY-PSICOLOGIA CONDUCTUAL. 2022; 30(1) 291-307. FI: 1.1. Cuartil: 4. (Article).
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- Vega-Astudillo, P; Basurte-Villamor, I; López, ID; Espinos, RO; Mesias-Pérez, B; Szman, N. *Results of a Hepatitis C Micro-Elimination Program in Two Addiction Centers Among Subjects With Substance Use Disorder*. SUBSTANCE ABUSE-RESEARCH AND TREATMENT. 2022; 16. (Article).
- Rodríguez-Toscano E; Martínez K; Fraguas D; Janssen J; Pina-Camacho L; Arias B; Vieta E; Mezquida G; Amoretti S; Bernardo M; Castro-Fornieles J; Cuesta-Zorita MJ; Lobo A; González-Pinto A; Collado IC; Mané A; Arango C; Parellada M. *Prefrontal abnormalities, executive dysfunction and symptoms severity are modulated by COMT Val(158) Met polymorphism in first episode psychosis*. REVISTA DE PSIQUIATRIA Y SALUD MENTAL. 2022; 15(2) 74-87. (Article).
- Fiksinski AM; Bearden CE; Bassett AS; Kahn RS; Zinkstok JR; Hooper SR; Tempelaar W; McDonald-McGinn D; Swillen A; Emanuel B; Morrow B; Gur R; Chow E; van den Bree M; Vermeesch J; Warren S; Owen M; van Amelsvoort T; Eliez S; Gothelf D; Arango C; Kates W; Simon T; Murphy K; Repetto G; Suner DH; Vicari S; Cubells J; Armando M; Philip N; Campbell L; García-Minaur S; Schneider M; Shashi V; Vorstman J; Breetvelt EJ. *A normative chart for cognitive development in a genetically selected population*. NEUROPSYCHOPHARMACOLOGY. 2022; 47(7) 1379-1386. (Article).
- EJ; Parellada M; Arango C; González-Peñas J. *Polygenic contribution to the relationship of loneliness and social isolation with schizophrenia*. NATURE COMMUNICATIONS. 2022; 13(1) 51-51. (Article).

### Other publications

- Néstor S; Carlos P; Cristina P; José MR; Ignacio B; Pilar S. *TOBACCO USE DISORDER AND DUAL DISORDERS Joint statement by the Spanish Psychiatry Society and the Spanish Dual Disorders Society*. ACTAS ESPANOLAS DE PSIQUIATRIA. 2022; 50(Supplement) 77-138. (Article).
- Andreu-Bernabeu Á; Díaz-Caneja CM; Costas J; De Hoyos L; Stella C; Gurriarán X; Alloza C; Fañanás L; Bobes J; González-Pinto A; Crespo-Facorro B; Martorell L; Vilella E; Muntané G; Nacher J; Molto MD; Aguilar





Group Director: **FRANCISCO JAVIER GRANDAS PÉREZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Parkinson's disease and movement disorders

- ▶ L1: Pathophysiology and treatment of Parkinson's disease.
- ▶ L2: Pathophysiology and treatment of dysphonia.
- ▶ L3: Balance and gait disorders.

### Axis 2: Dementia

- ▶ L1: Alzheimer's disease.

### Axis 3: Neuroinflammation

- ▶ L1: Neuroinflammation in neurodegenerative diseases.
- ▶ L2: Multiple sclerosis.

### Axis 4: Neuromuscular diseases

- ▶ L1: Amyotrophic lateral sclerosis

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

## Group members

- **Alba Suárez, Elda María:** R1. First Stage Researcher.
- **Catalina Álvarez, Irene:** R1. First Stage Researcher.
- **Contreras Chicote, Ana:** R2. Recognised Researcher.
- **Cuello, Juan Pablo:** R2. Recognised Researcher.
- **De Castro de Castro, Pedro :** R2. Recognised Researcher.
- **De la Casa Fages, Beatriz:** R1. First Stage Researcher.
- **Fernández Carballal, Carlos:** R1. First Stage Researcher.
- **García Domínguez, José Manuel:** R1. First Stage Researcher.
- **Goicochea Briceño, Haydee:** Other.
- **González Sánchez, Miguel:** R1. First Stage Researcher.
- **Grandas Pérez Francisco, Javier:** R4. Leading Researcher.
- **Guisasola Zulueta, María Concepción:** R2. Recognised Researcher.
- **Higueras Hernández, Yolanda:** R2. Recognised Researcher.
- **Lozano Ros, Alberto:** R2. Recognised Researcher.
- **Luque Buzo, Elisa:** R2. Recognised Researcher.
- **Mari Hualde, Amaia:** R2. Recognised Researcher.
- **Martínez Gines, María Luisa:** R2. Recognised Researcher.
- **Mateo Sierra, Olga:** R2. Recognised Researcher.
- **Miranda Herrero, María Concepción:** R2. Recognised Researcher.
- **Muñoz Blanco, José Luis:** R3. Established Researcher.
- **Olazarán Rodríguez, Francisco Javier:** R3. Established Researcher.
- **Pérez Sánchez, Javier Ricardo:** R2. Recognised Researcher.
- **Prieto Montalvo, Julio Ignacio:** R3. Established Researcher.
- **Romero Martínez, Julia:** R2. Recognised Researcher.
- **Sánchez Soblechero, Antonio:** R1. First Stage Researcher.
- **Secades García, Sergio:** R1. First Stage Researcher.
- **Vázquez López, María.**







## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	2			
National	2			
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  
 Funding body: EU/PRG. MARCO  
 Project type: European Research project  
 Start date: 01/01/2021  
 End date: 31/12/2024
- Title: **H2020 EXTEND 779982. Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982  
 Director: Grandas Pérez, Francisco Javier  
 Funding body: EU/PRG. MARCO  
 Project type: European Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Biomarcadores de la fase prodrómica de la enfermedad de Parkinson: un abordaje multimodal.** PI21/00771  
 Director: Grandas Pérez, Francisco Javier  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024

- Title: **Amantadina y estimulación magnética transcraneal para fatiga en la EM: ensayo Fase III, controlado, randomizado, cruzado y doble ciego (FETEM).** ICI20/00074  
 Director: Martínez Gines, María Luisa  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Control method for a neuroprosthetic device for the reduction of pathological tremors	EP20382416.4 (2 patens)	FIBHGM - CSIC - ICL	Francisco Grandas, José Luis Pons, Filipe André Oliveira, Alejandro Pascual Valdunciel, Darío Farina

■ Transferred Industrial Property.  
 \* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	María Luisa Martínez Gines	Influencia de la discapacidad sobre la conducción en pacientes con esclerosis múltiple	Julián Benito León/Luis A. Álvarez Sala	UCM	16/06/2022





Publications		Total Impact Factor: 155,7
	Nº	IF
Own publications	8	27,6
Joint publications	28	128,1
First decile publications	6	45,7
First quartile publications	11	75,6
Second quartile publications	19	66,5
Third quartile publications	4	10,4
Fourth quartile publications	2	3,2
Nonindexed publications/No IF	4	–
<b>Total publications (including those without IF)</b>	<b>40</b>	<b>155,7</b>

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

- Barrera-Caballero, S; Romero-Moreno, R; Vara-García, C; Márquez-González, M; Olazaran, J; Losada-Baltar, A. *Cognitive fusion and distress in family caregivers: the role of satisfaction with personal values*. AGING & MENTAL HEALTH. 2022; 1-6. FI: 3.4. Cuartil: 2. (Article).
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A; Anglada E; Jover A; Pérez-Martín MY; Arévalo MJ; Arrabal-Gómez C; Jiménez-Veiga J; Lubrini G; Molano A; García-Vaz F. *Cognitive assessment in patients with multiple sclerosis: A Spanish consensus.* FRONTIERS IN REHABILITATION SCIENCES. 2022; 3 1006699-1006699. (Editorial Material).

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- Hidalgo de la Cruz M; Miranda Acuña JA; Luque Buzo E; Chavarria Cano B; Esteban de Antonio E; Prieto Montalvo J; Galiano Fragua ML; Massot-Tarrús A. *Status epilepticus management and mortality risk factors: a retrospective study.* NEUROLOGIA (BARCELONA, SPAIN). 2022; 37(7) 532-542. (Article).







# 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. 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 multi-center 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.

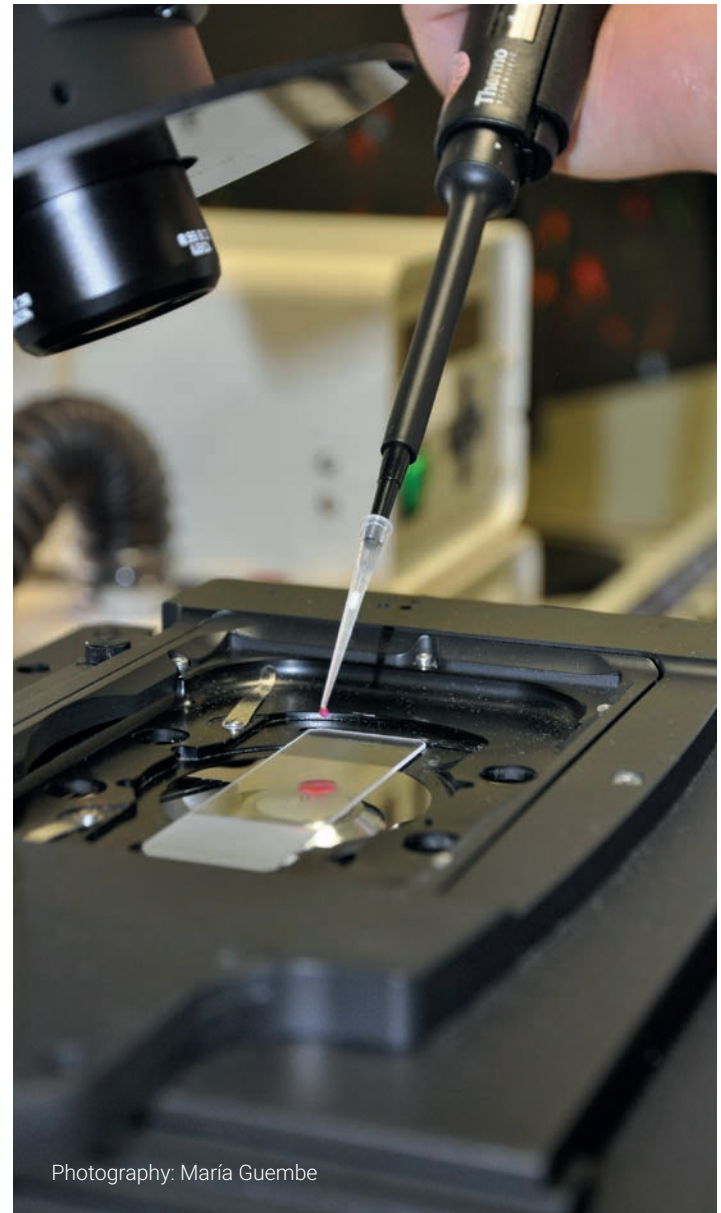
Undoubtedly, the future of this area is based on the maintenance of those aspects of translational research that have characterized its activity to date. Basic research laboratory work has increased, and new molecular epidemiology systems based on direct sample analysis have been implemented. The area has also promoted cooperative epidemiological studies aimed at analyzing aspects such as the extent of antifungal resistance or at optimizing the treatment of infectious complications in transplant recipients.

In summary, the Area of Infectious Diseases and AIDS maintains the commitment to research that has marked its history. This commitment is based on the conviction that no medical activity of excellence can be envisaged without a structured approach to the most pressing issues affecting daily clinical practice.

## Groups in AREA **4**

### **CLINICAL MICROBIOLOGY: INFECTIOUS DISEASES AND AIDS**

- ▶ 4.01. Clinical microbiology and infectious diseases
- ▶ 4.02. Clinical and epidemiological aspects of HIV and associated conditions



Photography: María Guembe





Group Director: **PATRICIA MUÑOZ GARCÍA DE PAREDES**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Cardiovascular infection

- ▶ L1: Endocarditis
- ▶ L2: Endovascular catheters.

### Axis 2: Pneumonia

- ▶ L1: Ventilator-associated pneumonia (VAP).
- ▶ L2: Severe non-ventilator-associated pneumonia

### Axis 3. Infections in immunodepressed patients

- ▶ L1: Influenza and its clinical impact.
- ▶ L2: BK Virus
- ▶ L3: Infections in transplant recipients

### Axis 4. Mycobacterial infection

- ▶ L1: Clonal complexity of tuberculosis
- ▶ L2: Molecular epidemiology of tuberculosis
- ▶ L3: Development of new molecular diagnosis techniques
- ▶ L4: Characterization of infectivity
- ▶ L5: QuantiFERON line.

### Axis 5. Bone and joint infection

- ▶ L1: Infection of joint prostheses

### Axis 6. Invasive nosocomial mycosis

- ▶ L1: Optimization of the diagnosis of invasive aspergillosis
- ▶ L2: Prevention of nosocomial aspergillosis through control of the quality of room air.
- ▶ L3: Treatment of invasive aspergillosis.
- ▶ L4: Technological development in the diagnosis of invasive candidiasis.
- ▶ L5: Treatment of invasive candidiasis.
- ▶ L6: Less common fungal pathogens.

- ▶ L7: Antifungal stewardship
- ▶ L8: Fungal infection: animal models
- ▶ L9: Studies of virulence and biofilm production
- ▶ L10: Molecular characterization study.

### Axis 7. Patógenos y antimicrobianos e impacto clínico del laboratorio de Microbiología clínica

- ▶ L1: Intestinal microbiota in severely ill patients.
- ▶ L2: *Clostridium difficile*
- ▶ L3: *Staphylococcus aureus*
- ▶ L4: Multiresistant gram-negative rods
- ▶ L5: Rapid diagnostic techniques in sepsis

The group is coordinated by Prof. Emilio Bouza and Dr. Patricia Muñoz and is part of the Department of Clinical Microbiology and Infectious Diseases of Hospital G.U. Gregorio Marañón, which came into being in 1984.

The group has broad experience in the training of research staff in a multidisciplinary group including biologists, physicians and pharmacists who are constantly involved in the diagnosis, prevention and treatment of infectious diseases.

The group is home to both research staff and health professionals managing highly complex patients, in particular, immunodepressed patients with nosocomial diseases, thus enriching training capacity and ensuring the link with day-to-day patient care and the identification of translational problems.

The group's scientific output has made it one of the world's leading research groups.





## Group members

- **Adán Rodríguez, Eva María:** R1. First Stage Researcher.
- **Adán Rodríguez, Iván.**
- **Alcalá Hernández, Luis:** R4. Leading Researcher.
- **Alonso Alegría, Nerea.**
- **Alonso Fernández, Roberto:** R4. Leading Researcher.
- **Alonso Menchen, David:** R1. First Stage Researcher.
- **Álvarez-Uria Miyares, Ana María:** R3. Established Researcher.
- **Bouza Santiago, Emilio:** R4. Leading Researcher.
- **Buenestado Serrano, Sergio:** R1. First Stage Researcher.
- **Burillo Albizua, Almudena:** R4. Leading Researcher.
- **Candela González, Ana:** R1. First Stage Researcher.
- **Cercenado Mansilla, Emilia:** R4. Leading Researcher.
- **Cobos Fernández, Alejandro:** R1. First Stage Researcher.
- **Díaz García, Judith.**
- **Escalera Balderrama, Iván.**
- **Escribano Martos, Pilar:** R3. Established Researcher.
- **Estevez Prieto, Agustín:** R1. First Stage Researcher.
- **Fernández Rey, Rocio:** Other. Management.
- **Fillaos Mora, Esther Susana.**
- **Galar Recalde, Alicia:** R3. Established Researcher.
- **García de Viedma del Álamo, Dario:** R4. Leading Researcher.
- **García Serrano, Sara:** R1. First Stage Researcher.
- **Gijon Vidaurreta, Paloma:** R3. Established Researcher.
- **Gómez Núñez, Ana:** Other. Support Technician.

- **González Leiva, José:** R1. First Stage Researcher.
- **Guembe Ramírez, María:** R3. Established Researcher.
- **Guerrero López, Alejandro Jorge:** R1. First Stage Researcher.
- **Guillén Zabala, Helmuth.**
- **Guinea Ortega, Jesús Vicente:** R4. Leading Researcher.
- **Herranz Martín, Marta:** R3. Established Researcher.
- **Hortal Iglesias, Francisco Javier:** R3. Established Researcher.
- **Irigoyen Von Sierakowski, Álvaro.**
- **Jiménez Castillo, Adriano.**
- **Kestler Hernández, Martha Jeannette:** R2. Recognised Researcher.
- **Machado Vilchez, Marina:** R2. Recognised Researcher.
- **Marín Arriaza, María de las Mercedes:** R3. Established Researcher.
- **Martín López, Adoración:** R2. Recognised Researcher.
- **Martín-Rabadán Caballero, Pablo:** R2. Recognised Researcher.
- **Mesquida Marcos, Aina Catalina:** R1. First Stage Researcher.
- **Mezquita García, Sergio.**
- **Molero Salinas, Andrea:** R1. First Stage Researcher.
- **Muñoz García-Paredes, Patricia:** R4. Leading Researcher.
- **Padilla Ortega, Belén:** R2. Recognised Researcher.
- **Palomino Cabrera, Rosalía:** R1. First Stage Researcher.
- **Palomo Lastras, María:** R2. Recognised Researcher.
- **Peñas Utrilla, Daniel:** R1. First Stage Researcher.
- **Pérez García, Laura:** R2. Recognised Researcher.
- **Pérez Granda, María Jesús:** Other. Nursing.

Continued on next page





## Group members (Cont.)

- Reigadas Ramírez, Elena Manuela: R2. Recognised Researcher.
- Rincón Sanz Cristina.
- Rodríguez Fernández, Sara Other. Nursing.
- Rodríguez Grande, Cristina: R1. First Stage Researcher.
- Rodríguez Grande, Jorge.
- Rodríguez Sánchez, Belén: R3. Established Researcher.
- Rodríguez Temporal David.
- Rojas Díaz, Adriana Carolina.
- Ruiz Serrano, María Jesús: R2. Recognised Researcher.
- Sánchez Cueto, María.
- Sánchez Somolinos, Mar: R2. Recognised Researcher.
- Sanz Pérez, Amadeo: R1. First Stage Researcher.
- Serrano Lobo, Julia: R1. First Stage Researcher.
- Soriano Martín-Nieto, Ana: R1. First Stage Researcher.
- Urbina Luciana, Valeria.
- Valenzuela Medina, María Flor.
- Valerio Minero, Maricela: R2. Recognised Researcher.
- Vázquez Cuesta, Silvia Noemí: R2. Recognised Researcher.
- Veintimilla Yáñez, María Cristina: R2. Recognised Researcher.
- Vesperinas Neira, Lara.
- Villa Martínez, Sofía: R2. Recognised Researcher.
- Villar Gomara, Laura.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	1			
National	17		13	
Regional			8	

- Title: **Enhancing Whole Genome Sequencing (WGS) and/or Reverse Transcription Polymerase Chain Reaction (RT-PCR) national infrastructures and capacities to respond to the COVID-19 pandemic in the EU and EEA).** ECDC/HERA/2021/024  
 Director: García de Viedma del Álamo, Darío  
 Project type: Research project  
 Funding body: European Commission  
 Start date: 01/09/2021  
 End date: 30/09/2022
- 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  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024
- 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 Álamo, Darío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2024





- Title: **Nuevos métodos diagnósticos para identificar la candidemia relacionada a catéter en pacientes con catéter in situ. ¿ Es posible personalizar el manejo de la candidemia? Estudio CANDICATH.** PI20/00575  
 Director: Muñoz García-Paredes, Patricia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Proyecto SINTESIS (eStudio del Impacto de las Nuevas Tecnologías y técnicas rápidas en la sepsIS de origen urinario.** PI20/01201  
 Director: Burillo Albizua, Almudena  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Proyecto de Alerta en Neumonía Grave (PANG). Impacto de un bundle multidisciplinar de intervención diagnóstica y terapéutica.** PI20/01350  
 Director: Galar Recalde, Alicia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **The role of the microbiome as a diagnostic, prognostic and therapeutic tool in C. difficile infection and other diseases.** PI20/01381  
 Director: Reigadas Ramírez, Elena Manuela  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **El papel de la nueva tecnología de diagnóstico microbiológico e imagen en el diagnóstico de la infección de dispositivos electrocardíacos. Proyecto mirada.** PI20/01438  
 Director: Valerio Minero, Maricela  
 Funding body: Instituto de Salud Carlos III

Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Tratamiento preventivo del CMV en pacientes inmunocompetentes de alto riesgo con cirugía cardíaca mayor. Ensayo clínico multicéntrico, doble ciego, aleatorizado, fase III (gan-car)** ICI19/00079  
 Director: Muñoz García-Paredes, Patricia  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **La cavidad abdominal como reservorio de cepas de Candida spp causantes de candidemia: aplicación del genotipado como herramienta de detección de genotipos capaces de alcanzar el torrente circulatorio.** PI19/00074  
 Director: Escribano Martos, Pilar  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Aplicación de estrategias basadas en tecnologías de secuenciación de nueva generación para solucionar problemas derivados de la globalización de la tuberculosis.** PI19/00331  
 Director: Pérez García, Laura  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2020  
 End date: 30/06/2024
- Title: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía Cardíaca: estudio clínico, prospectivo y randomizado** PI18/01741  
 Director: Pérez Granda, María Jesús  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023



- Title: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155  
 Director: Guinea Ortega, Jesús Vicente  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997  
 Director: Rodríguez Sánchez, María Belén  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 31/12/2022
- Title: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599  
 Director: García de Viedma del Álamo, Darío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Impacto de la implementación de un “bundle” para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045  
 Director: Guembe Ramirez, María  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Influencia de la gripe en los eventos cardiacos agudos y búsqueda de virus gripales cardiotrópicos. Estudio INFLUCAR** PI17/00061  
 Director: Muñoz García-Paredes, Patricia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- 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: Mutua Madrileña Foundation  
 Start date: 01/07/2021  
 End date: 30/06/2024
- Title: **Young employment contract.** PEJ2018-004613-A  
 Director: Escribano Martos, Pilar  
 Funding body: Ministerio de Economía y Hacienda  
 Project type: Human resources  
 Start date: 01/01/2019  
 End date: 31/03/2022
- Title: **Predoctoral contract.** FI20/00089  
 Director: Mesquida Marcos, Aina Catalina  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2024
- Title: **Predoctoral contract.** FI20/00129  
 Director: Rodríguez Grande, Cristina  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2024
- Title: **Predoctoral contract.** FI19/00021  
 Director: Díaz García, Judith  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 31/12/2023



- Title: **Juan Rodés contract.** JR18/00030  
Director: Galar Recalde, Alicia  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/12/2018  
End date: 31/06/2023
- Title: **Miguel Servet II contract.** CPII20/00015  
Director: Escribano Martos, Pilar  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Miguel Servet II contract.** CP20/00001  
Director: Pérez García, Laura  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Miguel Servet II contract.** CPII19/00002  
Director: Rodríguez Sánchez, María Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/05/2023
- Title: **Río Hortega contract.** CM21/00274  
Director: Alonso Menchen, David  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **PFIS Predoctoral contract.** FI21/00310  
Director: Vázquez Cuesta, Silvia Noemí  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2025
- Title: **PFIS Predoctoral contract.** FI21/00314  
Director: Soriano Martín-Nieto, Ana  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2025
- Title: **Intensification contract.** INT21/00089  
Director: Burillo Albizua, Almudena  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2022  
End date: 31/12/2023
- Title: **Miguel Servet II.** CPII20/00001  
Director: Pérez García, Laura  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-17971  
Director: Guembe Ramirez, María  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2020  
End date: 31/01/2023
- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-18120  
Director: García De Viedma Del Alamo, Darío  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022



- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-19547  
Director: Muñoz García-Paredes, Patricia  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-19052  
Director: Escribano Martos, Pilar  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-18351  
Director: Pérez García, Laura  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2021  
End date: 31/12/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2019-TL/BMD-13146  
Director: García de Viedma del Álamo, Darío  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2020  
End date: 30/04/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2019-TL/BMD-15599  
Director: Marín Arriaza, María de las Mercedes  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/01/2020  
End date: 30/06/2022
- Title: **Young employment contract. Laboratory technician.** PEJ-2021-TL/BMD-23377  
Director: González Leiva, José  
Funding body: Comunidad Autónoma de Madrid  
Project type: Human resources  
Start date: 01/10/2022  
End date: 30/09/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Compuestos radiactivos basados en proteínas selectivas de bacteriemias para la detección no invasiva de focos infecciosos	P 202030838 (2 patents)	FIBHGM - UC3M	Beatriz Salinas, Manuel Desco, Patricia Muñoz, Emilio Bouza
Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U 2014 30814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, M <sup>a</sup> Jesús Pérez

■ Transferred Industrial Property.  
\* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).







## Copyright

Title	Reference	Owner	Inventors
Estudio de impacto clínico de un plan docente de formación continuada sobre las infecciones asociadas a dispositivos intravasculares	Nº Asiento Registral: 16/2013/4798	FIBHGM	Emilio Bouza, María Guembe, Patricia Muñoz, M <sup>a</sup> Jesús Pérez, M <sup>a</sup> del Mar San Segundo
Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
Material docente para la infección relacionada con el catéter	Nº Asiento Registral: 16/2014/6113	FIBHGM	María Guembe, Emilio Bouza, María Jesús Pérez
Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables	Nº Asiento Registral: 16/2015/2094	FIBHGM	María Guembe, Pablo Martín- Rabadán, Emilio Bouza, M <sup>a</sup> Luisa Rivera, Teresa Vicente
Tolerancia cero a la bacteriemia relacionada con el catéter: optimización de la prevención con nuevos sistemas de vigilancia de las vías endovasculares	Nº Asiento Registral: 16/2015/2983	FIBHGM	María Guembe, Emilio Bouza, M <sup>a</sup> Jesús Pérez Granda
Documento de registro para vigilancia durante la inserción y el mantenimiento de los catéteres intravasculares	Nº Asiento Registral: 16/2015/2984	FIBHGM	María Guembe, Emilio Bouza, M <sup>a</sup> Jesús Pérez Granda
Cultivo de conectores cerrados. Nueva alternativa de diagnóstico conservador de infección relacionada con el catéter	Nº Asiento Registral: 16/2017/517	FIBHGM	Emilio Bouza, María Guembe, M <sup>a</sup> Jesús Pérez, Pablo Martín- Rabadán
Base de datos de perfiles de proteínas correspondientes a distintas especies de hongos filamentosos para mejorar su identificación mediante la técnica de espectrometría de masas MALDI-TOF	Nº Asiento Registral: 16/2019/6180	FIBHGM	Belén Rodríguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz

Title	Reference	Owner	Inventors
Preparación de muestras de hongos filamentosos para identificación mediante MALDI-TOF. Vídeo con instrucciones	Nº Asiento Registral: 16/2021/2779	FIBHGM	Belén Rodríguez, Estreya Zvezdanova, Patricia Muñoz
Cultivo intraluminal de tapones conectores de catéter. Nueva alternativa de diagnóstico conservador de colonización de catéter	16/2022/6628	FIBHGM	María Guembe, M <sup>a</sup> Jesús Pérez, Emilio Bouza, Pablo Martín- Rabadán

■ Transferred Intellectual Property.

## Publications Total Impact Factor: 756,3

	Nº	IF
Own publications	64	395,3
Joint publications	52	361,0
First decile publications	27	407,9
First quartile publications	51	540,2
Second quartile publications	38	156,9
Third quartile publications	5	14,8
Fourth quartile publications	22	44,4
Nonindexed publications/No IF	11	-
<b>Total publications (including those without IF)</b>	<b>127</b>	<b>756,3</b>





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

- Guembe, MG; Pensado, YT; Picado, FT; Diez, C; Latorre, LP; Fanciulli, C; Vázquez, FP; de Quiros, JCLB; Berenguer, J; Ortega, BP; Machado, M; Minero, MV; García, PM; Santiago, EB; Galar, A; Catalan, P; Alonso, R; Bellon, JM; Lois, TAE; Gregorio Marañón Microbiology-ID. *SARS-CoV-2 Infection in People Living with HIV: Experience from a Tertiary Hospital in Madrid*. AIDS RESEARCH AND HUMAN RETROVIRUSES. 2022; 38(5) 394-398. FI: 1.5. Cuartil: 4. (Article).
- Blennow, O; Salmanton-García, J; Nowak, P; Itri, F; Van Doesum, J; López-García, A; Farina, F; Jaksic, O; Pinczes, LI; Bilgin, YM; Falces-Romero, I; Jiménez, M; Ormazabal-Velez, I; Weinbergerova, B; Dulery, R; Stojanoski, Z; Lahmer, T; Fernández, N; Hernández-Rivas, JA; Petzer, V; De Jonge, N; Glenthøj, A; De Ramon, C; Biernat, MM; Fracchiolla, N; Aujayeb, A; Van Praet, J; Schonlein, M; Mendez, GA; Cattaneo, C; Guidetti, A; Sciume, M; Ammatuna, E; Córdoba, R; García-Pouton, N; Grafe, S; Cabirta, A; Wolf, D; Nordlander, A; García-Sanz, R; Delia, M; Venemyr, CB; Brones, C; Di Blasi, R; De Kort, E; Meers, S; Lamure, S; Serrano, L; Merelli, M; Coppola, N; Bergantim, R; Besson, C; Kohn, M; Petiti, J; García-Vidal, C; Dargenio, M; Danion, F; Machado, M; Bailén-Almorox, R; Hoenigl, M; Dragonetti, G; Chai, LYA; Kho, CS; Bonanni, M; Lievin, R; Marchesi, F; Cornely, OA; Pagano, L. *Outcome of infection with omicron SARS-CoV-2 variant in patients with hematological malignancies: An EPICOVIDEHA survey report*. AMERICAN JOURNAL OF HEMATOLOGY. 2022; 97(8) 312-317. FI: 12.8. Cuartil: 1. (Letter).
- Sánchez-Somolinos, M; Díaz-Navarro, M; Benjumea, A; Tormo, M; Matas, J; Vaquero, J; Muñoz, P; Sanz-Ruiz, P; Guembe, M. *Determination of the Elution Capacity of Dalbavancin in Bone Cements: New Alternative for the Treatment of Biofilm-Related Peri-Prosthetic Joint Infections Based on an In Vitro Study*. ANTIBIOTICS-BASEL. 2022; 11(10). FI: 4.8. Cuartil: 1. (Article).
- Díaz-García, J; Gómez, A; Alcalá, L; Reigadas, E; Sánchez-Carrillo, C; Pérez-Ayala, A; de la Pedrosa, EGG; González-Romo, F; Merino-Amador, P; Cuetara, MS; García-Esteban, C; Quiles-Melero, I; Zurita, ND; Muñoz-Algarra, M; Sánchez-Romero, I; Duran-Valle, MT; Sánchez-García, A; Alcoceba, E; Muñoz, P; Escribano, P; Guinea, J. *Evidence of Fluconazole-Resistant Candida parapsilosis Genotypes Spreading across Hospitals Located in Madrid, Spain and Harboring the Y132F ERG11p Substitution*. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2022; 66(9). FI: 4.9. Cuartil: 1. (Article).
- Escribano, P; Gómez, A; Reigadas, E; Muñoz, P; Guinea, J. *EUCAST-Obtained Olorofim MICs against Aspergillus and Scedosporium Species and Lomentospora prolificans Showed High Agreements between Visual Inspection and Spectrophotometric Readings*. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2022; 66(8). FI: 4.9. Cuartil: 1. (Article).
- GIL, S.; CARBONELL, D.; Pérez, V.; López, R.; ALONSO, R.; MUÑOZ, P.; OCHANDO, JORDI; SÁNCHEZ-ARCILLA, I.; BELLON, J.; CORREA, R.; PION, M. *Cellular and Humoral Responses Follow-up for 8 Months after Vaccination with mRNA-Based Anti-SARS-CoV-2 Vaccines*. BIOMEDICINES. 2022; 10(7). FI: 4.7. Cuartil: 1. (Article).
- Pagano L; Salmanton-García J; Marchesi F; Blennow O; Gomes da Silva M; Glenthøj A; van Doesum J; Bilgin YM; López-García A; Itri F; Nunes Rodrigues R; Weinbergerová B; Farina F; Dragonetti G; Berg Venemyr C; van Praet J; Jaksic O; Valkovic T; Falces-Romero I; Martín-Pérez S; Jiménez M; Dávila-Valls J; Schönlein M; Ammatuna E; Meers S; Delia M; Stojanoski Z; Nordlander A; Lahmer T; Imre Pinczés L; Buquicchio C; Piukovics K; Ormazabal-Vélez I; Fracchiolla N; Samarkos M; Méndez GA; Hernández-Rivas JÁ; Espigado I; Cernan M; Petzer V; Lamure S; di Blasi R; Marques de Almedia J; Dargenio M; Biernat MM; Sciumè M; de Ramón C; de Jonge N; Batinic J; Aujayeb A; Marchetti M; Fouquet G; Fernández N; Zambrotta G; Sacchi MV; Guidetti A; Demirkan F; Prezioso L; Ráčil Z; Nucci M; Mladenovic M; Liévin R; Hanáková M; Gräfe S; Sili U; Machado M; Cattaneo C; Adžic-Vukicevic T; Verga L; Labrador J; Rahimli L; Bonanni M; Passamonti F; Pagliuca A; Corradini P; Hoenigl M; Koehler P; Busca A; Cornely OA. *Breakthrough COVID-19 in vaccinated patients with hematologic malignancies: results from the EPICOVIDEHA survey*. BLOOD. 2022; 140(26) 2773-2787. FI: 20.3. Cuartil: 1. (Article).
- Tejerina, F; Catalan, P; Rodríguez-Grande, C; Adan, J; Rodríguez-González, C; Muñoz, P; Aldamiz, T; Diez, C; Pérez, L; Fanciulli, C; de Viedma, DG; Gregorio Marañón Microbiol ID COVI. *Post-COVID-19 syndrome. SARS-CoV-2 RNA detection in plasma, stool, and urine in*





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- Agnelli, C; Valerio, M; Bouza, E; Guinea, J; Sukiennik, T; Guimaraes, T; Queiroz-Telles, F; Muñoz, P; Colombo, AL. *Prognostic factors of Candida spp. bloodstream infection in adults: A nine-year retrospective cohort study across tertiary hospitals in Brazil and Spain*. LANCET REGIONAL HEALTH-AMERICAS. 2022; 6. (Article).





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- Cercenado E; Loras C; Cobos A; Sanz JC. *In vitro activity of delafloxacin against highly levofloxacin-resistant invasive isolates of Streptococcus pneumoniae*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(10) 546-549. (Article).
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- Buenestado-Serrano S; Recio R; Sola Campoy PJ; Catalán P; Folgueira MD; Villa J; Muñoz Gallego I; de la Cueva VM; Meléndez MA; Andrés Zayas C; Losa-García JE; Goyanes MJ; Fraile Torres A; Von Wermitz A; Fradejas-Villajos I; Del Arco C; Campelo-Gutiérrez C; González Bodi S; López-Wolf D; Iglesias-Franco H; Pérez-Lago L; Arce Arnaez A; Rodríguez Baena E; Ordobas Gavin M; Muñoz P; Delgado R; Cardeñoso L; Viedma E; García de Viedma D. *First confirmation of importation and transmission in Spain of the newly identified SARS-CoV-2 B.1.1.7 variant*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(8) 418-422. (Article).
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- Alonso B; Pérez-Granda MJ; Latorre MC; Sánchez-Carrillo C; Bouza E; Muñoz P; Guembe M. *Production of biofilm by Staphylococcus aureus: Association with infective endocarditis?*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(5) 262-265. (Article).
- Estévez A; Marín M; Sánchez-Carrillo C; Machado M; Alcalá L; Pinilla B; Delgado A; González-Ramallo V; Pedraz Á; Martínez-Sellés M; Bouza E; Valerio M; Muñoz P; Game-Hgugm OBO. *Abiotrophia spp. and Granulicatella spp. Infective Endocarditis: A Contemporary Perspective*. FRONTIERS IN BIOSCIENCE - ELITE. 2022; 14(3) 23-23. (Article).
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Group Director: **JUAN CARLOS LÓPEZ BERNALDO DE QUIRÓS**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: HIV infection

- ▶ L1: Immunopathogenesis of HIV infection
- ▶ L2: Observational research
- ▶ L3: Clinical drug trials
- ▶ L4: Vaccine research
- ▶ L5: HIV infection in primary care
- ▶ L6: Screening and access to the health care system

### Axis 2: Viral Hepatitis

- ▶ L1: Hepatitis C immunopathogenesis
- ▶ L2: Epidemiology of HIV/HCV coinfection
- ▶ L3: Epidemiology of HIV/HBV coinfection
- ▶ L4: Acute hepatitis and HCV reinfections

### Axis 3: COVID-19

- ▶ L1: Observational research
- ▶ L2: COVID-19 and HIV interaction
- ▶ L3: Immune response against SARS-CoV-2
- ▶ L4: Chronic Covid

## Group members

- **Aldamiz-Echevarría Lois, María Teresa:** R2. Recognised Researcher.
- **Berenguer Berenguer, Juan.**
- **Coral Carretero, Saray.**
- **Díez Romero, Cristina.**
- **Fanciulli, Chiara.**
- **Fredes González, Camila Alejandra.**
- **Gutiérrez Cuéllar, Isabel.**
- **López Bernaldo de Quirós, Juan Carlos.**
- **Pérez Latorre, Leire.**
- **Ramírez Schacke, Margarita.**
- **Ryan Murua, Pablo.**
- **Tejerina Picado, Francisco:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

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





- 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  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis.** PI17/00657  
 Director: Berenguer Berenguer, Juan  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 30/06/2022
- 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  
 Funding body: Fundación Mutua Madrileña  
 Project type: Research project  
 Start date: 15/09/2022  
 End date: 14/09/2024
- Title: Juan Rodés contract.** JR19/00021  
 Director: Pérez Latorre, LeirE  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 29/01/2020  
 End date: 31/01/2024
- Title: Río Hortega contract.** CM20/00086  
 Director: Fanciulli, Chiara  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RETICS	RETIC-RIS	Collaborating group
CIBER	CIBER ENFERMEDADES INFECCIOSAS	Collaborating group

### Publications

Total Impact Factor: 358,2

	Nº	IF
Own publications	9	50,8
Joint publications	25	307,4
First decile publications	9	259,6
First quartile publications	15	299,2
Second quartile publications	6	24,6
Third quartile publications	9	27,9
Fourth quartile publications	4	6,5
Nonindexed publications/No IF	1	-
<b>Total publications (including those without IF)</b>	<b>35</b>	<b>358,2</b>

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

- Carrasco, I; Oliveira, A; Lancharro, A; Escosa, L; Mellado, MJ; Busca, C; Montes, ML; Diez, C; Alcolea-Ruiz, S; Navarro, ML; Sainz, T. *Fatty liver disease in children living with HIV: a ghostly iceberg.* AIDS. 2022; 36(6) 805-814. FI: 3.8. Cuartil: 3. (Article).
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- Salto-Alejandro, S; Palacios-Baena, ZR; Arribas, JR; Berenguer, J; Carratala, J; Jarrin, I; Ryan, P; De Miguel-Montero, M; Rodríguez-Bano, J; Pachon, J. *( )Impact of early interferon-beta treatment on the prognosis of patients with COVID-19 in the first wave: A post hoc analysis from a multicenter cohort*. BIOMEDICINE & PHARMACOTHERAPY. 2022; 147. FI: 7.5. Cuartil: 1. (Article).
- Sepúlveda-Crespo, D; Yelamos, MB; Diez, C; Gómez, J; Hontanon, V; Torresano-Felipe, F; Berenguer, J; González-García, J; Ibanez-Samaniego, L; Llop, E; Oliveira, A; Martínez, J; Resino, S; Martínez, I. *Negative impact of HIV infection on broad-spectrum anti-HCV neutralizing antibody titers in HCV-infected patients with advanced HCV-related cirrhosis*. BIOMEDICINE & PHARMACOTHERAPY. 2022; 150. FI: 7.5. Cuartil: 1. (Article).
- Tejerina, F; Catalan, P; Rodríguez-Grande, C; Adan, J; Rodríguez-González, C; Muñoz, P; Aldamiz, T; Diez, C; Pérez, L; Fanciulli, C; de Viedma, DG; Gregorio Marañón Microbiol ID COVI. *Post-COVID-19 syndrome. SARS-CoV-2 RNA detection in plasma, stool, and urine in patients with persistent symptoms after COVID-19*. BMC INFECTIOUS DISEASES. 2022; 22(1). FI: 3.7. Cuartil: 3. (Article).
- Montejano, R; de la Calle-Prieto, F; Velasco, M; Guijarro, C; Queiruga-Parada, J; Jiménez-González, M; González-Ruano, P; Martínez, P; Goikoetxea, AJ; Ibarrola, M; Ciudad, M; Gutiérrez, A; Torralba, M; Díaz-Brasero, A; Ryan, P; Marcelo, C; Diez, C; Ibarra, S; Merino, E; Estrada, V; Marcos, J; Novella, M; Rivera, MA; Ruiz-Muñoz, M; de Miguel, M; Soler, L; Del Alamo, M; Moreno, S; Carcas, AJ; Borobia, AM; Arribas, JR. *Tenofovir Disoproxil Fumarate/Emtricitabine and Baricitinib for Patients at High Risk of Severe Coronavirus Disease 2019: The PANCOVID Randomized Clinical Trial*. CLINICAL INFECTIOUS DISEASES. 2022; FI: 11.8. Cuartil: 1. (Article).
- Fernández-Pato, A; Virseda-Berdices, A; Resino, S; Ryan, P; Martínez-González, O; Pérez-García, F; Martín-Vicente, M; Valle-Millares, D; Brochado-Kith, O; Blancas, R; Martínez, A; Ceballos, FC; Bartolome-Sánchez, S; Vidal-Alcantara, EJ; Alonso, D; Blanca-López, N; Martínez-Acitores, IR; Martín-Pedraza, L; Jiménez-Sousa, MA; Fernández-Rodríguez, A. *Plasma miRNA profile at COVID-19 onset predicts severity status and mortality*. EMERGING MICROBES & INFECTIONS. 2022; 11(1) 676-688. FI: 13.2. Cuartil: 1. (Article).
- Álvaro-Meca, A; Sepúlveda-Crespo, D; Resino, R; Ryan, P; Martínez, I; Resino, S. *Neighborhood environmental factors linked to hospitalizations of older people for viral lower respiratory tract infections in Spain: a case-crossover study*. ENVIRONMENTAL HEALTH. 2022; 21(1). FI: 6. Cuartil: 1. (Article).
- Veintimilla, C; Catalan, P; Alonso, R; de Viedma, DG; Pérez-Lago, L; Palomo, M; Cobos, A; Aldamiz-Echevarría, T; Muñoz, P. *The relevance of multiple clinical specimens in the diagnosis of monkeypox virus, Spain, June*. EUROSURVEILLANCE. 2022; 27(33). FI: 19. Cuartil: 1. (Article).





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*frequency in HIV/HCV coinfecting patients with advanced cirrhosis.* REVISTA CLINICA ESPANOLA. 2022; 222(8) 479-485. FI: 2.9. Cuartil: 2. (Article).

- Alonso-Menchén D; Muñoz P; Sánchez-Carrillo C; Pérez-Latorre L; Bouza E. *Unresolved issues in the epidemiology and diagnosis of bacteremia: an opinion paper.* REVISTA ESPANOLA DE QUIMIOTERAPIA. 2022; 35(6) 519-537. FI: 1.9. Cuartil: 4. (Review).
- Berenguer J. *Neutralizing antibodies for SARS-CoV-2 infection.* REVISTA ESPANOLA DE QUIMIOTERAPIA. 2022; 35 16-19. FI: 1.9. Cuartil: 4. (Article).

### Other publications

- Lazarus JV; Villota-Rivas M; Fernández I; Gea F; Ryan P; López SA; Guy D; Calleja JL; García-Samaniego J. *A cascade of care analysis on the elimination of hepatitis C from public hospitals in Madrid.* COMMUNICATIONS MEDICINE. 2022; 2 20-20. (Article).







# AREA 5

## DISEASES OF THE IMMUNE SYSTEM

*Area coordinator:*

**Eduardo Fernández-Cruz Pérez**

Immunology could be considered the medical discipline in which the most relevant advances have been made in recent years. These advances are evidenced by the many Nobel Prizes awarded to researchers in the field, it is no surprise. Therefore, that the IISGM has a dedicated immunology research area. In addition to its scientific and social relevance, the importance of this area within the Institute can be seen in its cutting-edge scientific output, the wide variety of its research lines, and its collaborations with other research areas, such as basic and clinical immunology, rheumatology, allergology, gynecology and obstetrics, cardiology, pneumology, pharmacogenetics, hematology and neurology.

The participation of this Area in numerous publications by groups belonging to other areas of the Institute clearly highlights its philosophy of cooperative research, the cornerstone of any health research

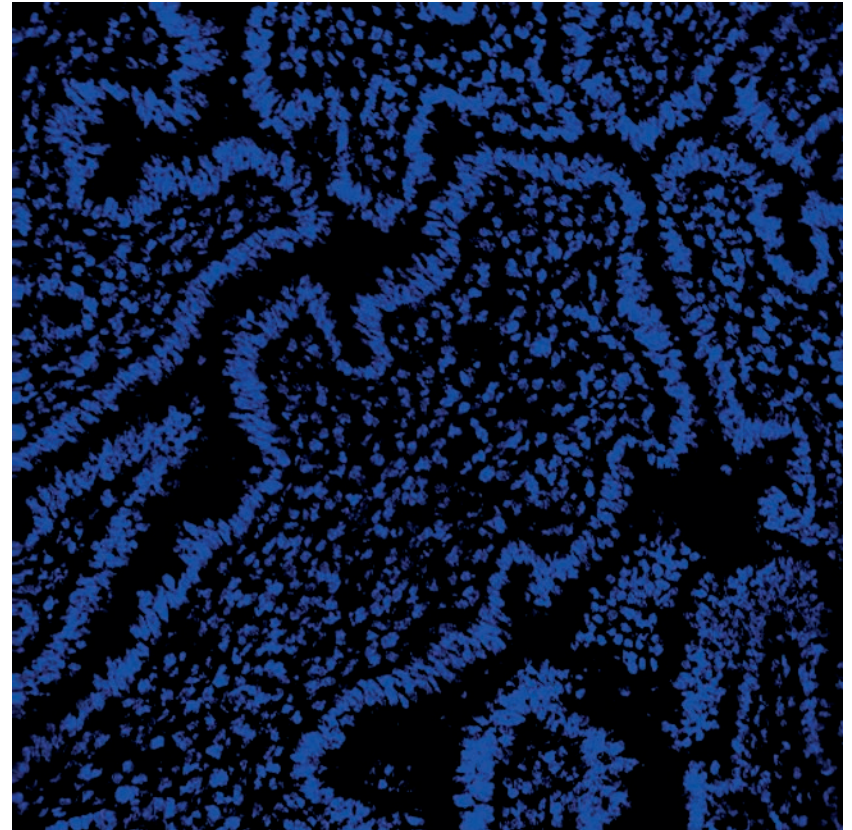
institute. There can be no doubt that the Area is perfectly situated for setting down the strategic lines for its continued growth. As a result, collaboration agreements have been proposed with prestigious international institutions, groups from the IISGM itself, and groups from outside the IISGM (Madrid Science and Technology Park. FHL Study Group. Transfusion Center of Comunidad de Madrid), School of Medicine of Universidad Complutense de Madrid (Department of Microbiology I) and companies active in the field (Binding Site, Izasa, Inmunotek, Grifols).

The area has set itself the strategic objectives of expanding the core activity of its more clinical groups, training undergraduate and post-graduate staff in order to consolidate and improve scientific output, and expanding the number of principal investigators able to successfully apply for competitive calls.

# Groups in AREA **5**

## **DISEASES OF THE IMMUNE SYSTEM**

- ▶ 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



Photography: Patricia Arribas Poza



Group Director: **EDUARDO FERNÁNDEZ-CRUZ PÉREZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

The group of Physiopathology and Clinical Research of Chronic Diseases mediated by Immunological and Inflammatory mechanisms is coordinated by Professor Dr. Eduardo Fernández-Cruz, Head of the Clinical Immunology Department.

## Research lines

### Axis 1. Immunotherapy with immunomodulatory agents in immunomediated 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 emerging virus infections (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
- ▶ L10: Transplantation Immunology

### Axis 3: Immunology and HLA; Population Genetics and Signal Transduction

- ▶ L1: Immunology and HLA
- ▶ L2: Population genetics
- ▶ L3: Signal transduction

## Group members

- **Alarcón Escudero, Alba:** R1. First Stage Researcher.
- **Alonso Armendariz, Rocío:** R1. First Stage Researcher.
- **Arnaiz Villena, Antonio:** R3. Established Researcher.
- **Balastegui Martín, Héctor:** R1. First Stage Researcher.
- **Barrio Alonso, Celia.**
- **Cahuana Pérez, Mario Alberto:** Other. Lab Technician.
- **Carbone Campoverde, Javier Alberto:** R3. Established Researcher.
- **Di Natale, Marisa:** R1. First Stage Researcher.
- **Díaz Luna, María Mercedes:** R1. First Stage Researcher.
- **Estecha Palomero, Ana:** R2. Recognised Researcher.
- **Ezzahouri El Khalouki, Ikram:** R1. First Stage Researcher.
- **Fernández-Cruz Pérez, Eduardo:** R4. Leading Researcher.
- **Fuentelsaz Romero, Sara.**
- **García Jiménez, Sandra:** R1. First Stage Researcher.
- **García Martínez, Elena:** R1. First Stage Researcher.
- **Gil Herrera, Juana:** R3. Established Researcher.
- **Gómez Pérez, Jimena:** R1. First Stage Researcher.
- **Limay Carre, Kristofer Miguel:** Other.
- **López Nares, Adrián:** R1. First Stage Researcher.
- **López Navarro, Baltasar.**

Continued on next page





### Group members (Cont.)

- **Martín Villa, José Manuel:** R3. Established Researcher.
- **Martínez Quiles, Narcisa:** R3. Established Researcher.
- **Mejía González, María Alejandra:** R1. First Stage Researcher.
- **Montánchez Mateo, Judith.**
- **Navarro Caspistegui, Joaquín:** R3. Established Researcher.
- **Pérez García, Yaiza.**
- **Puig Kröger, Amaya Rocío:** R3. Established Researcher.
- **Rodríguez Sainz, María Carmen:** R3. Established Researcher.
- **Samaniego García, Rafael:** R2. Recognised Researcher.
- **Sánchez-Mateos Rubio, Paloma:** R3. Established Researcher.
- **Sánchez Martín, Alicia.**
- **Schiaffino García-Villanova, Teresa:** R1. First Stage Researcher.
- **Torres Torresano, Mónica:** Other. Lab Technician.

### Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	1			
European				
National	5	2	1	
Regional			4	

- Title: **Local immunoradiotherapy (LIRT).** CCA001-2020 (C18915/A29362)  
Director: SÁNCHEZ-MATEOS RUBIO, PALOMA  
Project type: Research project  
Funding body: ACCELERATOR AWARD. CANCER RESEARCH UK.  
Start date: 01/01/2020  
End date: 31/12/2024
- 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  
Funding body: Ministerio de Ciencia e Innovación  
Project type: Research project  
Start date: 01/09/2022  
End date:31/08/2025
- Title: **Mecanismos moleculares de la inmunidad entrenada inducida por metotrexato.** PI20/00316  
Director: PUIG KRÖGER, AMAYA ROCIO  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2021  
End date:31/12/2023
- Title: **Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695  
Director: FERNÁNDEZ-CRUZ PÉREZ, EDUARDO  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date:30/06/2023
- Title: **Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037  
Director: PUIG KRÖGER, AMAYA ROCIO  
Funding body: Instituto de Salud Carlos III  
Project type: Research project





Start date: 01/01/2018

End date: 30/06/2022

- Title: **Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324

Director: SÁNCHEZ-MATEOS RUBIO, PALOMA

Funding body: Instituto de Salud Carlos III

Project type: Research project

Start date: 01/01/2018

End date: 30/06/2022

- Title: **Young employment contract.** PEJ2018-004617-A

Director: CARBONE CAMPOVERDE, JAVIER ALBERTO

Project type: Human Resources

Funding body: MINISTERIO DE ECONOMÍA Y HACIENDA

Start date: 01/10/2019

End date: 26/08/2022

- Title: **Young employment contract. Laboratory technician.** PEJ-2020-TL/BMD-19098

Director: RODRÍGUEZ SAINZ, María CARMEN

Funding body: Comunidad Autónoma de Madrid

Project type: Human resources

Start date: 01/01/2011

End date: 31/12/2022

- Title: **Young employment contract. Research Assistant.** PEJ-2020-AI/BMD-19682

Director: CARBONE CAMPOVERDE, JAVIER ALBERTO

Funding body: Comunidad Autónoma de Madrid

Project type: Human resources

Start date: 01/01/2021

End date: 31/12/2022

- Title: **Research Assistant.** PEJ-2019-AI/BMD-15479

Director: CARBONE CAMPOVERDE, JAVIER ALBERTO

Project type: Human resources

Funding body: Comunidad Autónoma de Madrid

Start date: 01/01/2020

End date: 30/06/2022

- Title: **Research Assistant.** PEJ-2021-AI/BMD-23327

Director: SAMANIEGO GARCÍA, RAFAEL

Project type: Human resources

Funding body: Comunidad Autónoma de Madrid

Start date: 01/11/2022

End date: 31/10/2024

#### **Not managed by FIBHGM**

- Title: **HLA-G: cáncer gástrico y su evolución** PI18/00626

Director: MARTÍN VILLA, JOSE MANUEL

Funding body: Instituto de Salud Carlos III

Project type: Research project

Start date: 01/01/2019

End date: 30/06/2023

- Title: **HLA-G: Su importancia en epidemiología, medicina evolutiva y patología.** PI18/00721

Director: ARNAIZ VILLENA, ANTONIO

Funding body: Instituto de Salud Carlos III

Project type: Research project

Start date: 01/01/2019

End date: 30/06/2023





### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RICORS	Inflamación e Inmunopatología de Órganos y Sistemas Enfermedades Inflamatorias	Collaborating group
RETICS	RETIC-RIER	
Other: International Network on Innovative Strategies in Clinical Trials against Infectious Agents	International Network for Strategic Initiatives in Global HIV Trials (INSIGHT)	Others
Other: Strategies and Treatments for Respiratory Infections & Viral Emergencies	Strategies and Treatments for Respiratory Infections & Viral Emergencies	

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
García Sacristán, A, Seoane Reula, E, Gil Niño, JD, Barea García, ML, García Cerezuela, MD, Fernández Arquero, M, Cabrera Marante, O, Rodríguez Quesada, PP, Manrique Rodríguez, S, Sánchez-Ramón, S, Pleguezuelo DE, Fernández-Cruz, E, Camino López, M, Martín Barbero ML	Criterios para uso racional de inmunoglobulinas humanas	Servicio Madrileño de Salud. Consejería de Sanidad. CAM

### Publications

Total Impact Factor: 363,41

	Nº	IF
Own publications	9	41,5
Joint publications	17	321,9
First decile publications	4	260,8
First quartile publications	15	321,1
Second quartile publications	7	31,7
Third quartile publications	2	5,2
Fourth quartile publications	2	5,4
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>26</b>	<b>363,4</b>

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

- Santos-Coquillat, A; Herreros-Pérez, D; Samaniego, R; González, MI; Cusso, L; Desco, M; Salinas, B. *Dual-labeled nanoparticles based on small extracellular vesicles for tumor detection*. BIOLOGY DIRECT. 2022; 17(1). FI: 5.5. Cuartil: 1. (Article).
- Llorente, V; Sanderson, D; Martín-Gorgojo, A; Samaniego, R; Desco, M; Gómez-Gavero, MV. *A 3D Analysis of Cleared Human Melanoma*. BIOMEDICINES. 2022; 10(7). FI: 4.7. Cuartil: 1. (Article).
- Corona, M; Shouval, R; Alarcón, A; Flynn, J; Devlin, S; Batlevi, C; Mantha, S; Palomba, ML; Scordo, M; Shah, G; Sauter, C; Perales, MA; Dahi, PB. *Management of prolonged cytopenia following CAR T-cell therapy*. BONE MARROW TRANSPLANTATION. 2022; 57(12) 1839-1841. FI: 4.8. Cuartil: 1. (Letter).
- Arnaiz-Villena, A; Suárez-Trujillo, F; Juarez, I; Rodríguez-Sainz, C; Palacio-Gruber, J; Vaquero-Yuste, C; Molina-Alejandre, M; Fernández-Cruz, E; Martín-Villa, JM. *Evolution and molecular interactions of major histocompatibility complex (MHC)-G, -E and -F genes*. CELLULAR AND MOLECULAR LIFE SCIENCES. 2022; 79(8). FI: 8. Cuartil: 1. (Review).
- Aguinaga-Barrilero, A; Juarez, I; Vaquero-Yuste, C; Molina-Alejandre, M; Gutiérrez-Calvo, A; Lasa, I; López, A; Gómez, R; Molanes-López, EM; Martín-Villa, JM. *Higher prevalence of LAP plus (Latency TGF beta-Associated Peptide) T cells at the tissue level in patients with early gastric cancer*. CELLULAR IMMUNOLOGY. 2022; 382. FI: 4.3. Cuartil: 2. (Article).
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- Bergon-Sendin, M; Pulido-Pérez, A; Nieto-Benito, LM; Barchino-Ortiz, L; Diez-Sebastián, J; Suárez-Fernández, R. *Effectiveness of neoadjuvant*







*intralesional methotrexate in cutaneous squamous cell carcinoma: A prospective cohorts study.* DERMATOLOGIC THERAPY. 2022; 35(2). FI: 3.6. Cuartil: 1. (Article).

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Group Director: **MARÍA ÁNGELES MUÑOZ FERNÁNDEZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

### Research lines

#### Axis 1. Basic Research

- ▶ 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 modeling infectious diseases. Nanotechnology-based therapies.

#### Axis 2. Clinical Research

- ▶ 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 coinfection

#### Axis 3 BioBank

- ▶ L1: Participation in clinical trials
- ▶ L2: 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 bronchitis 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

HGM HIV BioBank. The HGUGM LIBM has several years of experience in three lines of research: basic, clinical and translational research. It is composed of support technicians, predoctoral researchers, postdoctoral researchers and a senior researcher, as well as administrative staff.

The group, led by Dr. Muñoz Fernández, has been working with viruses for more than 20 years, with the aim of developing prophylactic compounds against sexually transmitted diseases (STDs), especially interested in the study of the biology of HIV-1, using nanotools to interfere in the life cycle of the virus, as well as in immunological and toxicological studies. At the same time, he starts a new research direction, which consists of carrying out new preclinical human in vitro models, based on organoids generated from human pluripotent stem cells (hPSCs), in order to improve our knowledge of the pathogenesis of these human diseases and the prediction of the therapeutic potential of molecules with biological activity, such as nanoparticles or other drugs.

Throughout her professional career, Dr. Muñoz Fernández 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. These projects have focused on the study of mechanisms involved in HIV-1 transmission in children and adults, and factors that prevent the progression of HIV-1 infection and/or reconstitution of the immune system with potent antiviral treatments; host factors involved in conferring resistance to HIV-1 infection/progression; new therapeutic intervention strategies against HIV-1 infection and other viruses in adult individuals, as well as the potential of dendrimers to inhibit different types of viruses, not only HIV but also HSV or CMV.

The research group has received continued funding in 18 FIS projects, being in force the Project: FIS PI19/01638 "Dendrimers as candidates for microbicides to prevent HIV and/or HSV-2 infections in women and men", 2020-2024 with funding of 320,347.50 € similar to the projects it has received previously, in other calls for proposals. Dr Muñoz-Fernández has more than 400 publications in prestigious international journals, with a number h of 63 in Google Scholar. Also, she has supervised up to 25 PhD Theses at UCM or UAM from 2010 to 2022, all of them outstanding Cum Laude

**D**r. M<sup>a</sup> Angeles Muñoz Fernández is Head of the Immunology Section of the Hospital General Universitario Gregorio Marañón (HGUGM), Head of the Laboratory of Molecular ImmunoBiology (LIBM) and Director of the





## Group members

- **Almale Aso, María Ángeles:** R1. First Stage Researcher.
- **Cañadilla Martín, Vanessa:** Other. Laboratory Technician.
- **Espinar Buitrago, María de la Sierra.**
- **Gallego de la Fuente, Jorge Luis:** Other. Laboratory Technician.
- **García Alonso, María Dolores:** R1. First Stage Researcher.
- **García Pérez de la Lastra, Cristina.**
- **Gómez Rico, Coral:** R4. Leading Researcher.
- **Hernanz Lobo, Alicia:** R2. Recognised Researcher.
- **Jiménez Fuentes, José Luis:** R1. First Stage Researcher,
- **Magro López, Esmeralda:** R2. Recognised Researcher.
- **Mauleón Azpilicueta, María Elva:** R4. Leading Researcher.
- **Muñoz Fernández, María Ángeles:** R4. Leading Researcher.
- **Rodríguez Izquierdo, Ignacio:** R1. First Stage Researcher.
- **Rodríguez Relaño, Ignacio.**
- **Royo Rubio, Elena:** Other.
- **Serramía Lobera, María Jesús:** Other. Laboratory Technician.
- **Taracón Díez, Laura:** R2. Recognised Researcher.
- **Vázquez Alejo, Elena.**

## Research Projects – Competitive Calls

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

- Title: **Nanotecnología y microRNAs como terapia alternativa en la búsqueda de una posible erradicación de la infección por el VIH-1.** PI20/01314  
 Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Dendrimers as candidates for a microbicide to prevent HIV and/or HSV-2 infections in women and men.** PI19/01638  
 Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 30/06/2023
- Title: **NANODENDMED II-CM) Nanosistemas dendríticos como agentes y vectores terapéuticos en distintas aplicaciones biomédicas (II).** S2017/BMD-3703  
 Director: Jose Luis Jiménez Fuentes  
 Project type: Research project  
 Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Sara Borrell contract.** CD20/00025  
 Director: Muñoz Fernández, María Ángeles (Taracón Díez, Laura)  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Río Hortega contract.** CM20/00128  
 Director: Muñoz Fernández, María Ángeles (Hernanz Lobo, Alicia)  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 11/01/2021  
 End date: 30/06/2023





- Title: Young employment contract. Laboratory Technician.** PEJ-2020-TL/BMD-19695  
 Director: Muñoz Fernández, María Ángeles (García Pérez de la Lastra, Cristina)  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/01/2021  
 End date: 31/12/2022

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P 2015 00669	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, M <sup>a</sup> Ángeles Muñoz, José Luis Jiménez, Pilar García
Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos	P 2016 00726	Universidad de Alcalá de Henares - FIBHGM	M <sup>a</sup> Ángeles Muñoz, José Luis Jiménez, Carlos Guerrero, Daniel Sepúlveda, Rafael Ceña, Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Gabriel Mencía, Jesús Cano, José Luis Copa, Juan Soliveri, Jorge Pérez, Mercedes Valiente, Carlos Emilio Gutiérrez
Dendrímeros carbosilanos catiónicos obtenidos mediante «click chemistry», su preparación y sus usos	P 2011 30804	FIBHGM – Universidad de Alcalá de Henares- Universidad de Navarra	Francisco Javier de la Mata, Rafael Gómez, Eduardo Arnaiz, Sandra García, José Luis Copa, Juan Soliveri, José Manuel Hernández, M <sup>a</sup> Ángeles Muñoz-Fernández, Verónica Briz, M <sup>a</sup> Jesús Serramia, Conchita Tros

Title	Reference*	Owner	Inventors
Dendrímeros carbosilanos con un núcleo polifenólico y su uso como antivirales	P 20103 0450	Universidad de Alcalá de Henares - HGUGM	Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez- Nieves, Paula Ortega, M <sup>a</sup> Ángeles Muñoz-Fernández, Louis Chonco, M <sup>a</sup> Jesús Serramia
Dendrímeros carbosilanos y su uso como antivirales	P 20103 0233	Universidad de Alcalá de Henares - HGUGM	Francisco Javier de la Mata, Rafael Gómez, M <sup>a</sup> Ángeles Muñoz-Fernández, Javier Sánchez- Nieves, Beatriz Rasines, Louis Chonco, Eduardo Arnaiz, M <sup>a</sup> Jesús Serramia
Compuestos dendríticos carbosilanos homo y hetero-funcionalizados	P 2012 31187	Universidad de Alcalá de Henares - FIBHGM	Francisco Javier de la Mata, Rafael Gómez, M <sup>a</sup> Ángeles Muñoz-Fernández, Javier Sánchez- Nieves, José Luis Jiménez, Silvia Fernández, Marta Galán, Raquel Lorente, Elena Fuentes, Javier Sánchez, Cornelia Peña, M <sup>a</sup> Jesús Serramia, Rosa Reguera

■ Transferred Intellectual Property.

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

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBER-BBN	Collaborating group
Platform	Plataforma de Biobancos	Collaborating group
RETICS	RETIC-RIS - Red Española de Investigación del SIDA	Coordinating group
Other: Ibero-American Science and Technology for Development Programme Network	Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños	Collaborating group
Other: European Paediatric Research Netwo	PaediatricEuropean Network for Treatment of AIDS (PENTA)	Collaborating group







### Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Elena Royo Rubio	Therapeutic applications of dendritic nanosystems against viral infections: Human Immunodeficiency Virus Type 1, Herpes Simplex Virus Type 2 and Human Cytomegalovirus.	María Ángeles Muñoz Fernández/José Luis Jiménez Fuentes	UAM	21/10/2022
Ph Thesis	Ignacio Rodríguez Relafío	Aplicaciones de los dendrímeros polianiónicos carboxilanos frente a VIH-1 y CMVH	María Ángeles Muñoz Fernández	UAM	24/01/2022
Ph Thesis	Ignacio Rodríguez Izquierdo	New therapeutic approaches of nanoparticles against viral infections: HIV-1, HSV-1 and RSV	María Ángeles Muñoz Fernández	UAM	04/03/2022

### Publications Total Impact Factor: 137,5

	Nº	IF
Own publications	10	61,6
Joint publications	15	75,9
First decile publications	1	10,2
First quartile publications	16	108,1
Second quartile publications	5	18,8
Third quartile publications	3	8,4
Fourth quartile publications	1	2,2
Nonindexed publications/No IF	2	–
<b>Total publications (including those without IF)</b>	<b>27</b>	<b>137,5</b>

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

- Irene, C; Elba, M; Jiménez, JL; Mellado, MJ; Muñoz-Fernández, MA. *HIV HGM biobank as a research platform for paediatric infectious diseases and COVID-19 pandemic*. AIDS RESEARCH AND THERAPY. 2022; 19(1). FI: 2.2. Cuartil: 4. (Article).
- Hernanz-Lobo, A; Saez, BR; García, IC; Mino-León, G; Juarez, J; Ruz, NP; Estripeaut, D; Pérez, MD; Erazo, K; Villatoro, LGC; Porras, O; Tato, LMP; Gómez, MLN. *New diagnosis of mother-to-child transmission of HIV in 8 Latin-American countries during 2018*. BMC INFECTIOUS DISEASES. 2022; 22(1). FI: 3.7. Cuartil: 3. (Article).
- Calvet-Mirabent, M; Cerillo, IS; Martín-Correes, N; Martínez-Fleta, P; de la Fuente, H; Tsukalov, I; Delgado-Arevalo, C; Calzo, MJ; de los Santos, I; Sanz, J; García-Fraile, L; Madid, FS; Alfranca, A; Muñoz-Fernández, MA; Buzon, MJ; Martín-Gayo, E. *Antiretroviral therapy duration and immunometabolic state determine efficacy of ex vivo dendritic cell-based treatment restoring functional HIV-specific CD8+ T cells in with HIV*. EBIO MEDICINE. 2022; 81. FI: 11.1. Cuartil: 1. (Article).
- Calvet-Mirabent, M; Claiborne, DT; Deruaz, M; Tanno, S; Serra, C; Delgado-Arevalo, C; Sánchez-Cerrillo, I; de Los Santos, I; Sanz, J; García-Fraile, L; Sánchez-Madrid, F; Alfranca, A; Muñoz-Fernández, MA; Allen, TM; Buzon, MJ; Balazs, A; Vrbanac, V; Martín-Gayo, E. *Poly I:C and STING agonist-primed DC increase lymphoid tissue polyfunctional HIV-1-specific CD8(+) T cells and limit CD4(+) T-cell loss in BLT mice*. EUROPEAN JOURNAL OF IMMUNOLOGY. 2022; 52(3) 447-461. FI: 5.4. Cuartil: 2. (Article).
- Tagarro, A; Cobos-Carrascosa, E; Villaverde, S; Sanz-Santaeufemia, FJ; Grasa, C; Soriano-Arandes, A; Hernanz, A; Navarro, ML; Pino, R; Epalza, C; Batista, R; Rizo, J; Iglesias-Bouzas, MI; Rodríguez-Molino, P; Villanueva-Medina, S; Carrasco-Colom, J; Alonso-Cadenas, JA; Mellado, MJ; Herrero, B; Melendo, S; De la Torre, M; Calleja, L; Calvo, C; Urretavizcaya-Martínez, M; Astigarraga, I; Menasalvas, A; Penin, M; Neth, O; Berzosa, A; De Ceano-Vivas, M; Vidal, P; Romero, I; González, R; García, ML; Mesa, JM; Ballesteros, A; Bernardino, M; Moraleta, C. *Clinical spectrum of COVID-19 and risk factors associated with severity in Spanish children*.







- EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(3) 1105-1115. FI: 3.6. Cuartil: 1. (Article).
- Manzanares, A; Prieto-Tato, LM; Escosa-García, L; Navarro, M; Guillén, S; Penin, M; Hernanz-Lobo, A; Soto-Sánchez, B; Beceiro-Mosquera, J; Falces-Romero, I; Ramos-Amador, JT; Orellana-Miguel, MA; Epalza, C. *Increased risk of group B streptococcal sepsis and meningitis in HIV-exposed uninfected infants in a high-income country.* EUROPEAN JOURNAL OF PEDIATRICS. 2022; 575-579. FI: 3.6. Cuartil: 1. (Article).
  - Sepúlveda-Crespo, D; Rallon, N; Muñoz-Gómez, MJ; Brochado-Kith, O; Jiménez, JL; Muñoz-Fernández, MA; Benito, JM; Resino, S. *High Plasma sTNF-R1 Level Is Related to Loss of Natural HIV Control in Long-Term Elite Controllers.* FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. 2022; 12. FI: 5.7. Cuartil: 1. (Article).
  - Espinar-Buitrago, M; Muñoz-Fernández, MA. *New Approaches to Dendritic Cell-Based Therapeutic Vaccines Against HIV-1 Infection.* FRONTIERS IN IMMUNOLOGY. 2022; 13 947549. FI: 7.3. Cuartil: 1. (Article).
  - Latorre, MC; Gómez-Oro, C; Olivera-Valle, I; Blázquez-López, E; Gallego-Valle, J; Ibanez-Escribano, A; Casesnoves, P; González-Cucharero, C; Muñoz-Fernández, MA; Sanz, L; Vaquero, J; Martín-Rabadan, P; Pérez-Milan, F; Relloso, M. *Vaginal neutrophil infiltration is contingent on ovarian cycle phase and independent of pathogen infection.* FRONTIERS IN IMMUNOLOGY. 2022; 12 719664-719664. FI: 7.3. Cuartil: 1. (Review).
  - TARANCON, L. *SARS-CoV2 Infection During Pregnancy Causes Persistent Immune Abnormalities in Women Without Affecting the Newborns.* FRONTIERS IN IMMUNOLOGY. 2022; 13 878630-878630. FI: 7.3. Cuartil: 1. (Article).
  - Tarancon-Diez L; Consuegra I; Vázquez-Alejo E; Ramos-Ruiz R; Ramos JT; Navarro ML; Muñoz-Fernández MÁ. *miRNA Profile Based on ART Delay in Vertically Infected HIV-1 Youths Is Associated With Inflammatory Biomarkers and Activation and Maturation Immune Levels.* FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
  - Sainz, T; Casas, I; González-Esguevillas, M; Escosa-García, L; Muñoz-Fernández, MA; Prieto, L; Gosalbes, MJ; Jiménez-Hernández, N; Ramos, JT; Navarro, ML; Mellado, MJ; Serrano-Villar, S; Calvo, C. *Nutritional Supplementation to Increase Influenza Vaccine Response in Children Living With HIV: A Pilot Clinical Trial.* FRONTIERS IN PEDIATRICS. 2022; 10. FI: 2.6. Cuartil: 2. (Article).
  - Martín-Moreno, A; Cena-Diez, R; Serramia, MJ; Jiménez, JL; Gómez-Ramirez, R; Muñoz-Fernández, M. *Safety of G2-S16 Polyanionic Carbosilane Dendrimer as Possible HIV-1 Vaginal Microbicide.* INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2022; 23(8). FI: 5.6. Cuartil: 1. (Article).
  - Posadas, I; Romero-Castillo, L; Ronca, RA; Karpus, A; Mignani, S; Majoral, JP; Muñoz-Fernández, M; Cena, V. *Engineered Neutral Phosphorous Dendrimers Protect Mouse Cortical Neurons and Brain Organoids from Excitotoxic Death.* INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2022; 23(5). FI: 5.6. Cuartil: 1. (Article).
  - Hernanz-Lobo, A; Santos-Sebastián, M; Lancharro, A; Saavedra-Lozano, J; Rincon-López, E; Aguilera-Alonso, D; García-Santiago, M; Bustos-Fonseca, MJ; Ruiz-Serrano, MJ; Gordillo-Gutiérrez, I; Hernández-Sampelayo, T; Rodríguez-Baena, E; Córdoba-Deorador, E; López-Suárez, A; Navarro-Gómez, ML; Santiago-García, B. *Use of computed tomography for the diagnosis of TB during a paediatric outbreak.* INTERNATIONAL JOURNAL OF TUBERCULOSIS AND LUNG DISEASE. 2022; 26(12) 1183-1185. FI: 4. Cuartil: 2. (Letter).
  - Rodríguez-Izquierdo, I; Serramia, MJ; Gómez, R; Espinosa, G; Genebat, M; Leal, M; Muñoz-Fernández, MA. *Safety and efficacy of G2-S16 dendrimer as microbicide in healthy human vaginal tissue explants.* JOURNAL OF NANOBIO TECHNOLOGY. 2022; 20(1). FI: 10.2. Cuartil: 1. (Article).
  - Le Duff, Y; Gartner, K; Busby, EJ; Dalzini, A; Danaviah, S; Fuentes, JLLJ; Giaquinto, C; Huggett, JF; Hurley, M; Marcellin, AG; Muñoz-Fernández, MA; O'Sullivan, DM; Persaud, D; Powell, L; Rigsby, P; Rossi, P; de Rossi, A; Siems, L; Smit, T; Watters, SA; Almond, N; Nastouli, E. *Assessing the Variability of Cell-Associated HIV DNA Quantification through a Multicenter Collaborative Study.* MICROBIOLOGY SPECTRUM. 2022; 10(3). FI: 3.7. Cuartil: 2. (Article).
  - Sainz, T; Díaz, L; Rojo, D; Clemente, MI; Barbas, C; Gosalbes, MJ; Jiménez-Hernández, N; Escosa, L; Guillén, S; Ramos, JT; Muñoz-Fernández, MA; Navarro, ML; Mellado, MJ; Serrano-Villar, S. *Targeting the Gut*





*Microbiota of Vertically HIV-Infected Children to Decrease Inflammation and Immunoactivation: A Pilot Clinical Trial.* NUTRIENTS. 2022; 14(5). FI: 5.9. Cuartil: 1. (Article).

- Mora-Capin, A; Lorente-Romero, J; Hernanz-Lobo, A; Rivas-García, A; Vázquez-López, P; Carrascosa-García, P; González-Hermosa, A; Mena-Huarte, J; Pérez-Saez, MA; Nadal, G; García-de-Diego, I; Marañón-Pardillo, R. *Risk Factors of Serious Bacterial Infection in Previously Healthy Children Older Than 90 Days Old With Fever and Neutropenia.* PEDIATRIC EMERGENCY CARE. 2022; 38(7) 1378-1383. FI: 1.4. Cuartil: 3. (Article).
- Vigil-Vázquez, S; Carrasco-García, I; Hernanz-Lobo, A; Manzanares, A; Pérez-Pérez, A; Toledano-Revenga, J; Muñoz-Chapuli, M; Mesones-Guerra, L; Martínez-Lozano, A; Pérez-Seoane, B; Márquez-Isidro, E; Sanz-Asin, O; Caro-Chinchilla, G; Sarda-Sánchez, M; Solaz-García, A; López-Carnero, J; Pareja-León, M; Rianza-Gómez, M; Ortiz-Barquero, MC; León-Luis, JA; Fernández-Acenero, MJ; Muñoz-Fernández, MA; Catalan-Alonso, P; Muñoz-García, P; Sánchez-Luna, M; Navarro-Gómez, ML. *Impact of Gestational COVID-19 on Neonatal Outcomes Is Vertical Infection Possible?.* PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(6) 466-472. FI: 3.6. Cuartil: 1. (Article).
- del Valle, R; Ballesteros, A; Calvo, C; Sainz, T; Mendez, A; Grasa, C; Molina, PR; Mellado, MJ; Sanz-Santaefemia, FJ; Herrero, B; Calleja, L; Soriano-Arandes, A; Melendo, S; Rincon-López, E; Hernanz, A; Epalza, C; García-Baeza, C; Ruperez-García, E; Berzosa, A; Ocana, A; Villarroya-Villalba, A; Barrios, A; Otheo, E; Galán, JC; Rodríguez, MJ; Mesa, JM; Domínguez-Rodríguez, S; Moraleda, C; Tagarro, A. *Comparison of pneumonia features in children caused by SARS-CoV-2 and other viral respiratory pathogens.* PEDIATRIC PULMONOLOGY. 2022; 57(10) 2374-2382. FI: 3.1. Cuartil: 2. (Article).
- Royo-Rubio, E; Martín-Canadilla, V; Rusnati, M; Milanesi, M; Lozano-Cruz, T; Gómez, R; Jiménez, JL; Muñoz-Fernández, MA. *Prevention of Herpesviridae Infections by Cationic PEGylated Carbosilane Dendrimers.* PHARMACEUTICS. 2022; 14(3). FI: 5.4. Cuartil: 1. (Article).
- Moyano, A; Blanch-Lombarte, O; Tarancon-Diez, L; Pedreno-López, N; Arenas, M; Álvaro, T; Casado, C; Olivares, I; Vera, M; Rodríguez, C; del

Romero, J; López-Galindez, C; Ruiz-Mateos, E; Prado, JG; Pernas, M. *Immunescape of HIV-1 in Env-EL9 CD8+T cell response restricted by HLA-B\*14:02 in a Non progressor who lost twenty-seven years of HIV-1 control.* RETROVIROLOGY. 2022; 19(1). FI: 3.3. Cuartil: 3. (Article).

- Buonsenso, D; Noguera-Julian, A; Moroni, R; Hernández-Bartolome, A; Fritschi, N; Lancella, L; Cursi, L; Soler-García, A; Kruger, R; Feiterna-Sperling, C; Sali, M; Lo Vecchio, A; Scarano, S; Lobo, AH; Espiau, M; Soriano-Arandes, A; Cetin, BS; Brinkmann, F; Ozere, I; Baquero-Artigao, F; Tsolia, M; Silva, TM; Bustillo-Alonso, M; Nalda, AM; Mancini, M; Starshinova, A; Ritz, N; Velizarova, S; Ferreras-Antolin, L; Gotzinger, F; Bilogortseva, O; Chechenyeva, V; Tebruegge, M; Santiago-García, B. *Performance of QuantiFERON-TB Gold Plus assays in paediatric tuberculosis: a multicentre PTBNET study.* THORAX. 2022; 288-296. FI: 10. Cuartil: 1. (Article).
- Rodríguez-Izquierdo, I; Sepúlveda-Crespo, D; Lasso, JM; Resino, S; Muñoz-Fernández, MA. *Baseline and time-updated factors in preclinical development of anionic dendrimers as successful anti-HIV-1 vaginal microbicides.* WILEY INTERDISCIPLINARY REVIEWS-NANOMEDICINE AND NANOBIO TECHNOLOGY. 2022; 14(3). FI: 8.6. Cuartil: 1. (Review).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Ruiz-Minaya, M; Mendizabal-Vicente, E; Vasquez-Jiménez, W; Pérez-Burrel, L; Aracil-Moreno, I; Agra-Pujol, C; Bernal-Claverol, M; Martínez-Bernal, BL; Muñoz-Fernández, M; Morote-González, M; Ortega, MA; Lizarraga-Bonelli, S; De León-Luis, JA. *Retrospective Analysis of Patients with Gynaecological Uterine Sarcomas in a Tertiary Hospital.* JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Article).

#### **Other publications**

- Tarancon, L. *Threshold ferritin concentrations reflecting early iron deficiency based on hepcidin and soluble transferrin receptor serum levels in patients with absolute iron deficiency.* NUTRIENTS. 2022; (Article).





Group Director: **JOSÉ MARÍA ÁLVARO-GRACIA**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Biological and targeted therapies for rheumatic diseases

- ▶ L1: Safety and efficacy in biologic and targeted therapies -BIOBADASER
- ▶ L2: Biomarkers of response to methotrexate and JAK inhibitors.

### Axis 2: Rheumatoid arthritis

- ▶ L1: Early arthritis - REUCARE

### Axis 3: Systemic autoimmune rheumatic diseases

- ▶ L1: FAST track in giant cell arteritis
- ▶ L2: Biomarkers of activity in scleroderma
- ▶ L3: Remission and discordance in SLE - RELESSER
- ▶ L4: Characterisation of Sjogren's syndrome

### Axis 4: Osteoporosis and Bone Metabolism

- ▶ L1: Osteoporosis and mastocytosis

### Axis 5: Imaging in rheumatology

- ▶ L1: Ultrasonography in large vessel vasculitis

### Axis 6: Chronic musculoskeletal pain

- ▶ L1. Fibromyalgia and COVID19

## Group members

- **Álvarez-Gracia Álvaro, José María:** R4. Leading Researcher.
- **Castrejón Fernández, Isabel:** R3. Established Researcher.
- **Del Río Blasco, Tamara:** R1. First Stage Researcher.
- **González Fernández, Carlos Manuel:** R3. Established Researcher.
- **González Hernández, Teresa:** R1. First Stage Researcher.
- **Molina Collada, Juan:** R1. First Stage Researcher.
- **Martínez Barrio, Julia:** R2. Recognised Researcher.
- **Nieto González, Juan Carlos:** R2. Recognised Researcher.
- **Rivera Redondo, Francisco Javier:** R3. Established Researcher.
- **Serrano Benavente, Belén:** R1. First Stage Researcher.

The group focuses its research activities on: 1) the study of mechanisms of action and safety of biological disease-modifying drugs and targeted molecules; 2) biomarkers and early detection strategies for rheumatoid arthritis; 3) validation of patient-reported measures (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; 7) characterisation of chronic musculoskeletal pain in rheumatic diseases, multidisciplinary unit and CSUR reference centre; 8) characterisation of rheumatoid arthritis and its prognostic factors.





## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1			
Regional				

- 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: 31/12/2023

## Industrial and intellectual property registrations

### Copyright

Title	Reference	Owner	Inventors
Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas	Nº Asiento Registral: 16/2013/5179	FIBHGM	Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez
Taller práctico de Técnicas de Laboratorio de Inmunología e interpretación clínica para médicos	Nº Asiento Registral: 16/2014/6111	FIBHGM	Larissa Valor, Luis Carreño, Diana Hernández
Taller práctico de Técnicas de Laboratorio de Inmunofu- rescencia indirecta (IFI «Live») para médicos	Nº Asiento Registral: 16/2014/6112	FIBHGM	Larissa Valor, Fco. Javier López, Diana Hernández
Infiltraciones guiadas por ecografía en reumatología	Nº Asiento Registral: 16/2018/7393	FIBHGM	Juan Carlos Nieto González

■ Transferred Intellectual Property.

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RICORS	Redes de Investigación Cooperativa Orientada a Resultado en Salud (RICORS) – RD21/0002/0034	Collaborating group





## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Antela, A; Bernardino, JI; de Quiros, JCLB; Bachiller, P; Fuster-RuizdeApodaca, MJ; Puig, J; Rodríguez, S; Castrejon, I; Álvarez, B; Hermenegildo, M	Patient-Reported Outcomes (PROs) in HIV Infection: Points to Consider and Challenges	Infect Dis Ther. 2022 Oct;11(5):2017-2033. doi: 10.1007/s40121-022-00678-w. Epub 2022 Sep 6. PMID: 36066841; PMCID: PMC9618004.
Castañeda, S; Gómez-Alonso, C; Grana, J; Guanabens, N; Muñoz-Torres, M; Peris, P; Naves, M; Álvaro-Gracia, JM	Position of the Spanish Society of Rheumatology (SER) and the Spanish Society for Bone Research and Mineral Metabolism (SEIOMM) on romosozumab	Reumatol Clin (Engl Ed). 2022 Aug-Sep;18(7):383-386. doi: 10.1016/j.reuma.2021.10.001. Epub 2022 Apr 30. PMID: 35504824.
Mayordomo L, Collada JM, Hernández FMF, Bueno Á, Insa Vilaríño SA, Jiménez-Núñez FG, Martínez Pérez R, Möller I, Usón Jaeger J, García-Llorente JF, Álvaro-Gracia JM, Aparicio Ruiz E, Asaro Daverio L, Naredo E	Safety in the use of ultrasound in rheumatology during the COVID-19 Pandemic. Spanish Society of Rheumatology positioning paper	Reumatol Clin (Engl Ed). 2021 May;17(5):284-289. doi: 10.1016/j.reuma.2020.10.010. Epub 2020 Dec 2. PMID: 33376052; PMCID: PMC7983453.

## Publications

Total Impact Factor: 116,3

	Nº	IF
Own publications	10	82,3
Joint publications	6	34,0
First decile publications	2	54,8
First quartile publications	6	80,0
Second quartile publications	4	16,5
Third quartile publications	5	17,7
Fourth quartile publications	1	2,1
Nonindexed publications/No IF	15	-
<b>Total publications (including those without IF)</b>	<b>31</b>	<b>116,3</b>

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

- Collada, JM; Martínez-Barrio, J; Serrano-Benavente, B; Castrejon, I; Motta, LRC; Folguera, LT; Álvaro-Gracia, JM. *Diagnostic value of ultrasound halo count and Halo Score in giant cell arteritis: a retrospective study from routine care.* ANNALS OF THE RHEUMATIC DISEASES. 2022; 81(9). FI: 27.4. Cuartil: 1. (Letter).
- Pablos, JL; Galindo, M; Blanco, R; Álvaro-Gracia, JM. *Response to: 'Correspondence to 'Prevalence of hospital PCR-confirmed COVID-19 cases in patients with chronic inflammatory and autoimmune rheumatic diseases'' by Wu et al.* ANNALS OF THE RHEUMATIC DISEASES. 2022; 81(12). FI: 27.4. Cuartil: 1. (Letter).
- Molina-Collada, J; Gloria, KL; Castrejon, I; Nieto-González, JC; Martínez-Barrio, J; Alfaro, AMA; Rivera, J; Álvaro-Gracia, JM. *Impact of cardiovascular risk on the diagnostic accuracy of the ultrasound Halo Score for giant cell arteritis.* ARTHRITIS RESEARCH & THERAPY. 2022; 24(1). FI: 4.9. Cuartil: 2. (Article).
- Rivera, J; Rodríguez, T; Pallares, M; Castrejon, I; González, T; Vallejo-Slocker, L; Molina-Collada, J; Montero, F; Arias, A; Vallejo, MA; Álvaro-Gracia, JM; Collado, A. *Prevalence of post-COVID-19 in patients with fibromyalgia: a comparative study with other inflammatory and autoimmune rheumatic diseases.* BMC MUSCULOSKELETAL DISORDERS. 2022; 23(1). FI: 2.3. Cuartil: 2. (Article).
- Gracia, JMA; Barbazan, C; Llorente, JFG; Muñoz-Fernández, S; Centeno, AG; Urruticoechea-Arana, A; Caracuel, MA; Loza, E; Calvo-Alen, J. *Local adaptation of recommendation-based materials for shared decision making and management of comorbidity in rheumatoid arthritis.* CLINICAL AND EXPERIMENTAL RHEUMATOLOGY. 2022; 40(5) 975-979. FI: 3.7. Cuartil: 3. (Article).
- Anzola, AM; Trives, L; Martínez-Barrio, J; Pinilla, B; Álvaro-Gracia, JM; Molina-Collada, J. *New-onset giant cell arteritis following COVID-19 mRNA (BioNTech/Pfizer) vaccine: a double-edged sword?.* CLINICAL RHEUMATOLOGY. 2022; 41(5) 1623-1625. FI: 3.4. Cuartil: 3. (Letter).
- Romero-Jiménez, R; Escudero-Vilaplana, V; Chamorro-de-Vega, E; Ais-Larisgoitia, A; Lobato-Matilla, E; Somoza-Fernández, B; Ruiz-





- Briones, P; González, C; Baniandres, O; Menchen, L; Lobo-Rodríguez, C; Herranz, A; Sanjurjo, M. *Design and implementation of a mobile app for the pharmacotherapeutic follow-up of patients diagnosed with immune-mediated inflammatory diseases: eMidCare*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
- López-Gloria, K; Castrejon, I; Nieto-González, JC; Rodríguez-Merlos, P; Serrano-Benavente, B; González, CM; Saez, IM; González, T; Álvaro-Gracia, JM; Molina-Collada, J. *Ultrasound intima media thickness cut-off values for cranial and extracranial arteries in patients with suspected giant cell arteritis*. FRONTIERS IN MEDICINE. 2022; 9. FI: 3.9. Cuartil: 2. (Article).
  - Antela, A; Bernardino, JI; de Quiros, JCLB; Bachiller, P; Fuster-RuizdeApodaca, MJ; Puig, J; Rodríguez, S; Castrejon, I; Álvarez, B; Hermenegildo, M. *Patient-Reported Outcomes (PROs) in HIV Infection: Points to Consider and Challenges*. INFECTIOUS DISEASES AND THERAPY. 2022; 11(5) 2017-2033. FI: 5.4. Cuartil: 2. (Article).
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- Portal, JAR; García, NB; Fontecha, PDD; Valenzuela, C; Ortiz, AM; Nieto, MA; Mena-Vázquez, N; Cano-Jiménez, E; Castellvi, I; Aburto, M; Bonilla, G; Hernández, MVH; Hernández, FMF; Plaza, MC; Castrejon, I; Hernández, MAA; Narvaez, J. *SER-SEPAR recommendations for the management of rheumatoid arthritis-related interstitial lung disease. Part 1: Epidemiology, risk factors and prognosis*. REUMATOLOGIA CLINICA. 2022; 18(8) 453-458. (Review).
- González, COS; González, JCN. *JAK kinase inhibitors and varicella zoster virus infection in patients with rheumatoid arthritis. Systematic review of the literature*. REUMATOLOGIA CLINICA. 2022; 18(9) 501-512. (Article).
- Sánchez-Piedra, C; Álvaro-Gracia, JM; Bustabad-Reyes, S; Díaz-González, F. *The reality of Rheumatology in Spain and its autonomous communities before the pandemic*. REUMATOLOGIA CLINICA. 2022; 18(8) 486-489. (Article).
- Castañeda, S; Gómez-Alonso, C; Grana, J; Guanabens, N; Muñoz-Torres, M; Peris, P; Naves, M; Álvaro-Gracia, JM. *Position of the Spanish Society of Rheumatology (SER) and the Spanish Society for Bone Research and Mineral Metabolism (SEIOMM) on romosozumab*. REUMATOLOGIA CLINICA. 2022; 18(7) 383-386. (Article).

#### Other publications

- Martínez N; Villar O; Armijo O; Castellanos M; Marin Huarte N; Mareque M; Casado MÁ; Martínez-Barrio J. *Economic impact of obstetric events on women of reproductive age living with psoriatic arthritis, rheumatoid arthritis, axial spondyloarthritis and psoriasis in Spain*. REUMATOLOGIA CLINICA. 2022; 18(5) 253-259. (Article).
- Rivera Redondo J; Díaz Del Campo Fontecha P; Alegre de Miquel C; Almirall Bernabé M; Casanueva Fernández B; Castillo Ojeda C; Collado Cruz A; Montesó-Curto P; Palao Tarrero Á; Trillo Calvo E; Vallejo Pareja MÁ; Brito García N; Merino Argumánez C; Plana Farras MN. *Recommendations by the Spanish Society of Rheumatology on the management of patients with fibromyalgia. Part II*. REUMATOLOGIA CLINICA. 2022; 18(5) 260-265. (Article).
- Rivera Redondo J; Díaz Del Campo Fontecha P; Alegre de Miquel C; Almirall Bernabé M; Casanueva Fernández B; Castillo Ojeda C; Collado Cruz A; Montesó-Curto P; Palao Tarrero Á; Trillo Calvo E; Vallejo Pareja MÁ; Brito García N; Merino Argumánez C; Plana Farras MN. *Recommendations by the Spanish Society of Rheumatology on Fibromyalgia. Part 1: Diagnosis and treatment*. REUMATOLOGIA CLINICA. 2022; 18(3) 131-140. (Article).



## 5.03. Systemic autoimmune diseases



- Molina Collada J; Mayordomo L. *Perceived quality of training in musculoskeletal ultrasound in Spanish rheumatology services.* REUMATOLOGIA CLINICA. 2022; 18(6) 349-354. (Article).
- Cobo-Ibáñez T; Sánchez-Piedra C; Nuño-Nuño L; Castellví I; Carrión-Barberà I; Romero-Bueno F; Narváez J; Trallero-Araguás E; Tomero E; Ruiz-Lucea ME; Larena C; Carrasco Cubero C; Jovaní V; Barbadillo C; Sivera F; Belzunegui J; Pérez Gómez A; Gómez Gómez A; Delgado-Frías E; Pego-Reigosa JM; Joven B; Ibáñez M; Martínez-González O; Ruiz-Román A; Camins J; Ortega-Castro R; Trenor Larra P; Rodríguez López M; Freire M; Alcocer P; Holgado S; Rúa-Figueroa I; Lozano N; Martínez-Barrio J. *Myo-Spain: Spanish Registry of patients with idiopathic inflammatory myopathy. Methodology.* REUMATOLOGIA CLINICA. 2022; 18(2) 105-113. (Article).





Group Director: **JOSÉ MANUEL ZUBELDIA ORTUÑO**

Organisms involved: **HGUGM**

Type: **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

- **Alonso Navarro, Miren:** R1. First Stage Researcher.
- **Álvarez Perea, Alberto:** R3. Established Researcher.
- **Aray Morán, María Gabriela:** R1. First Stage Researcher.
- **Baeza Ochoa de Ocáriz, María Luisa:** R3. Established Researcher.
- **Crespo Quiros, Jimena.**
- **Cuevas Bravo, Cristina.**

- **De Castro Martínez, Francisco Javier.**
- **Domínguez Estirado, Alicia.**
- **Fernández Alonso, Ana:** R1. First Stage Researcher.
- **Fuentes Aparicio, Victoria.**
- **Infante Herrero, Sonsoles.**
- **Jover Walsh, Alejandra.**
- **Juárez Guerrero, Alba.**
- **Laínez Nuez, Ana.**
- **Letón Cabanillas, Patricia.**
- **López Tovar, Carlos:** R1. First Stage Researcher.
- **Muñoz de Baena Albarracín, María:** R1. First Stage Researcher.
- **Noguerado Mellado, Blanca.**
- **Palomino Lozano, Laura.**
- **Pelta Fernández, Roberto.**
- **Pérez Pallise, María Esperanza.**
- **Poli Pérez Rodnel, Enrique.**
- **Prieto García, Alicia:** R3. Established Researcher.
- **Rodríguez Hermida, Sandra.**
- **Rodríguez Mazariego, Marta Elena.**
- **Rojas Pérez Ezquerro, Patricia Eugenia.**
- **Seoane Reula, María Elena:** R3. Established Researcher.
- **Skrabski, Filip.**
- **Tornero Molina, Pilar:** R1. First Stage Researcher.
- **Zambrano Ibarra, Gabriela Andrea:** R1. First Stage Researcher.
- **Zubeldía Ortuño, José Manuel:** 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: **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: 31/12/2024
- Title: **Análisis de la expresión génica de los basófilos y del proteoma sérico en pacientes con urticaria crónica y/o angioedema histaminérgico.** PI21/01326  
 Director: BAEZA OCHOA DE OCARIZ, María LUISA (I Colaborador)  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2024

## Publications

Total Impact Factor: 96,5

	Nº	IF
Own publications	5	39,1
Joint publications	6	57,4
First decile publications	3	37,2
First quartile publications	10	90,6
Second quartile publications	1	5,9
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>11</b>	<b>96,5</b>

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

- Jutel, M; Torres, MJ; Palomares, O; Akdis, CA; Eiwegger, T; Untersmayr, E; Barber, D; Zemelka-Wiacek, M; Kosowska, A; Palmer, E; Vieths, S; Mahler, V; Canonica, WG; Nadeau, K; Shamji, MH; Agache, I; Akdis, M; Khaitov, M; Álvarez-Perea, A; Álvaro-Lozano, M; Atanaskovic-Markovic, M; Backer, V; Barbaud, A; Bavbek, S; de Blay, F; Bonini, M; Bonini, S; van Boven, JFM; Brockow, K; Cazzola, M; Chatzipetrou, A; Chivato, T; Cianferoni, A; Corren, J; Cristoph-Caubet, J; Dunn-Galvin, A; Ebisawa, M; Firinu, D; Gawlik, R; Gelincik, A; del Giacco, S; Mortz, CG; Hoffmann, HJ; Hoffmann-Sommergruber, K; Klimek, L; Knol, E; Lauerma, A; de Llano, LP; Matucci, A; Meyer, R; Moreira, A; Morita, H; Patil, SU; Pfaar, O; Popescu, FD; del Pozo, V; Price, OJ; van Ree, R; Fernández-Rivas, M; Rogala, B; Romano, A; Santos, A; Sediva, A; Skypala, I; Smolinska, S; Sokolowska, M; Sturm, G; Vultaggio, A; Walusiak-Skorupa, J; Worm, M. *COVID-19 vaccination in patients receiving allergen immunotherapy (AIT) or biologicals-EAACI recommendations.* ALLERGY. 2022; 77(8) 2313-2336. FI: 12.4. Cuartil: 1. (Article).
- del Rio, PR; Álvarez-Perea, A; Blumchen, K; Caimmi, D; Caubet, JC; Konstantinopoulos, AP; Riggioni, C; Fassio, F; Karakoc-Aydiner, E; Le, TM; Patel, N; Savolainen, J; Vázquez-Ortiz, M; Lozano, MA. *Food*

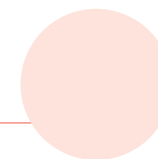




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- Barbaud, A; Garvey, LH; Arcolaci, A; Brockow, K; Mori, F; Mayorga, C; Bonadonna, P; Atanaskovic-Markovic, M; Moral, L; Zanoni, G; Pagani, M; Soria, A; Jost, M; Caubet, JC; Carmo, A; Mona, AA; Álvarez-Perea, A; Bavbek, S; Benedetta, B; Bilo, MB; Blanca-López, N; Bogas, HG; Buonomo, A; Calogiuri, G; Carli, G; Cernadas, J; Cortellini, G; Celik, G; Demir, S; Dona, I; Dursun, AB; Eberlein, B; Faria, E; Fernandes, B; Garcez, T; García-Nunez, I; Gawlik, R; Gelincik, A; Gomes, E; Gooi, JHC; Grosber, M; Gulen, T; Hacard, F; Hoarau, C; Janson, C; Johnston, SL; Joerg, L; Ozdemir, SK; Klimek, L; Kosnik, M; Kowalski, ML; Kuyucu, S; Kvedariene, V; Laguna, JJ; Lombardo, C; Marinho, S; Merk, H; Meucci, E; Morisset, M; Muñoz-Cano, R; Murzilli, F; Nakonechna, A; Popescu, FD; Porebski, G; Radice, A; Regateiro, FS; Rockmann, H; Romano, A; Sargur, R; Sastre, J; Hofmeier, KS; Sedlackova, L; Sobotkova, M; Terreehorst, I; Treudler, R; Walusiak-Skorupa, J; Wedi, B; Wohrl, S; Zidarn, M; Zuberbier, T; Agache, I; Torres, MJ. *Allergies and COVID-19 vaccines: An ENDA/EAACI Position paper.* ALLERGY. 2022; 77(8) 2292-2312. FI: 12.4. Cuartil: 1. (Article).
- Cuevas-Bravo, C; Juarez-Guerrero, A; Noguerado-Mellado, B; Pérez-Ezquerria, PR; Tornero-Molina, P. *Kounis syndrome A case series.* ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY. 2022; 129(2) 252-253. FI: 5.9. Cuartil: 2. (Letter).
- Baeza, ML; González-Quevedo, T; Caballero, T; Guilarte, M; Lleonart, R; Varela, S; Castro, M; Díaz, C; Escudero, E; García, MG; Laffond, E; Muñoz-Bellido, FJ; Nunez, R; Prior, N; Sala-Cunill, A; Pedro, BSD; Prieto-García, A. *Angioedema Due to Acquired Deficiency of C1-Inhibitor: A Cohort Study in Spain and a Comparison With Other Series.* JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2022; 10(4) 1020-1028. FI: 9.4. Cuartil: 1. (Article).
- Crespo, J; Pérez-Pallise, ME; Skrabski, F; Zambrano, G; Rojas-Pérez-Ezquerria, P; Noguerado-Mellado, B; Zubeldia, JM; Infante, S. *The Natural Course of Adult-Onset Food Protein- Induced Enterocolitis Syndrome.* JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2022; 10(11) 3039. FI: 9.4. Cuartil: 1. (Letter).
- Rodríguez-Garijo, N; Sabate-Bresco, M; Azofra, J; Baeza, ML; Donado, CD; Gaig, P; Labrador-Horrillo, M; Guilarte, M; -Lasso, VH; Sala-Cunill, A; Veleiro, B; Gil, MP; Ferrer, M. *Angioedema severity and impact on quality of life: Chronic histaminergic angioedema versus chronic spontaneous urticaria.* JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE. 2022; 10(11) 2986-2992. FI: 9.4. Cuartil: 1. (Article).
- Ibarra, GZ; Miranda, TP; Calderon, AM; Manuel, JR; García-Gutiérrez, J. *Impact of COVID-19 on Allergy Residency Training in Spain.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2022; 32(4) 270-281. FI: 7.2. Cuartil: 1. (Article).
- Ibanez-Sandin, MD; Rio, PRD; Alvarado, MI; García, BE; Garriga-Baraut, T; Frutos, MR; Escudero, C; Jiménez, AR; Vila, L; Lasa, EM; Blasco, C; Marchan-Martín, E; Martorell, A; Sánchez-García, S; Rodríguez-Álvarez, M; Infante, S; Vázquez, VR; Olaguibel, JM; Labrador-Horrillo, M; Carrillo, T. *Onset of Nut Allergy in a Pediatric Cohort: Clinical and Molecular Patterns in the AFRUSEN Study.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2022; 32(4) 315-317. FI: 7.2. Cuartil: 1. (Editorial Material).
- Skrabski, F; Pérez-Pallise, ME; Estirado, AD; Tovar, CL; Bermejo-Becerro, A; Mazariego, ER; Zubeldia, JM; García, AP. *Eosinophilic Esophagitis Caused by Grass Pollen Sublingual Immunotherapy With Tolerance to a Subcutaneous Extract.* JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2022; 32(6). FI: 7.2. Cuartil: 1. (Article).
- Hernández-Ruperez, MB; Seoane-Reula, E; Villa, A; Lancharro, A; Arriaza, MM; Saavedra-Lozano, J. *Chronic Q Fever as Recurrent Osteoarticular Infection in Children: Case Report and Literature Review.* PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(11) 489-494. FI: 3.6. Cuartil: 1. (Article).





Group Director: **RAFAEL CORREA ROCHA AND MARJORIE PION**

Organisms involved: **HGUGM**

Type: Emerging group

### Research lines

#### Axis 1: New diagnostic and therapeutic techniques

- ▶ L1: Development of extracellular vesicles produced in the culture of thymus regulatory T cells.

#### Axis 2: Precision medicine

- ▶ L1: Development of genetically modified regulatory T cells for antigen specificity
- ▶ L2: Cell therapy with thyTreg cells in children with heart transplants
- ▶ L3: Immune regulation and immune disorders in paediatric diseases
- ▶ L4: Role of Treg cells in paediatric patients with Immunodeficiencies

#### Axis 3: Infectious diseases

- ▶ L1: Study of the immune system of patients infected by SARS-CoV-2 or vaccinated by mRNA-based vaccines

#### Axis 4: New diagnostic and therapeutic techniques

- ▶ L1: Allogeneic use of thyTreg in inflammatory diseases

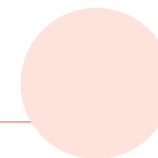
### Group members

- **Bernaldo de Quirós Plaza, Esther:** R2. Recognised Researcher.
- **Campos Domínguez, Minia.**
- **Checa Fernández, Sergio:** Other. Laboratory Technician.
- **Correa Rocha, Rafael:** R4. Leading Researcher.
- **Cozar Fernández, Beatriz:** R1. First Stage Researcher.
- **Fernández Castillo, Marta:** R1. First Stage Researcher.
- **Gallego Valle, Jorge:** R1. First Stage Researcher.
- **Gil Manso, Sergio:** R1. First Stage Researcher.
- **Hernández Flórez, Diana Carolina:** Other. Management.
- **Kennedy Batalla, Rebeca:** R1. First Stage Researcher.
- **López Esteban, Rocío:** Other. Laboratory Technician.
- **Martínez Bonet, Marta:** R2. Recognised Researcher.
- **Moya Cabanes, Rocío:** Other. Management.
- **Pérez Fernández, Verónica Astrid:** Other. Laboratory Technician.
- **Pion, Marjorie:** R4. Leading Researcher.
- **Seoane Reula, María Elena.**

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 Projects – Competitive Calls

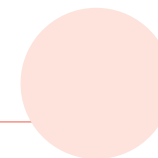
	Nº Competitive projects FIBHGM	Not FIBHGM	Nº Human Resources FIBHGM	Not FIBHGM
International				
European				
National	4		3	
Regional	1		3	

- Title: **Desarrollo y validación preclínica del uso alogénico de células T reguladoras derivadas del timo (thyTreg) como terapia celular para suprimir las respuestas inmunitarias patológicas en humanos.** PI21/00189  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Generación de células Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular.** PI18/00506  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2022
- Title: **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.** IC120/00063  
 Director: Correa Rocha, Rafael  
 Project type: Clinical Research project

Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2024

- Title: **Desarrollo de una tecnología pionera basada en el uso terapéutico de células thyTreg como terapia avanzada en el tratamiento de diversas enfermedades inflamatorias.** FIPSE/3804-21  
 Director: Correa Rocha, Rafael  
 Project type: Research project  
 Funding body: Fundación para la Investigación y la Prospectiva en Salud en España (FIPSE)  
 Start date: 03/04/2021  
 End date: 02/04/2022
- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática(EXOHEP-CM).** S2017/BMD-3727-1  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Sara Borrell contract.** CD18/00105  
 Director: Martínez Bonet, Marta  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 29/01/2019  
 End date: 17/08/2022
- Title: **Predoctoral contract.** FI19/00120  
 Director: Fernández Castillo, Marta  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2020  
 End date: 31/12/2023





- Title: **Predoctoral contract.** FI19/00173  
 Director: Gallego Valle, Jorge  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/07/2020  
 End date: 09/11/2022
- Title: **Research Assistant (Comunidad de Madrid)** PEJ-2020-AI/BMD-19507  
 Director: Correa Rocha, Rafael  
 Project type: Human Resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/03/2021  
 End date: 28/02/2023
- Title: **Research Assistant (Comunidad de Madrid)** PEJ-2020-AI/BMD-17954  
 Director: Pion, Marjorie  
 Project type: Human Resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/02/2021  
 End date: 31/01/2023
- Title: **Young employment contract. Laboratory Technician.** PEJ-2021-TL/BMD-22703  
 Director: Correa Rocha, Rafael  
 Project type: Human Resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/11/2022  
 End date: 31/10/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune	P201830197 (7 patens)	FIBHGM	Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós

■ Transferred Intellectual Property.

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

### Doctoral theses. Bachelor theses and Master theses

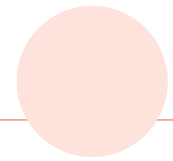
Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Esther Bernaldo de Quirós Plaza	Primer ensayo clínico para prevenir el rechazo en niños trasplantados de corazón mediante una terapia celular con Treg autólogas obtenidas a partir de tejido tímico (thyTreg)	Rafael Correa Rocha y Marjorie Pion	UAM	01/02/2022

### Publications

Total Impact Factor: 119,2

	Nº	IF
Own publications	8	40,2
Joint publications	7	79,0
First decile publications	1	46,9
First quartile publications	8	93,8
Second quartile publications	5	20,3
Third quartile publications	1	2,9
Fourth quartile publications	1	2,2
Nonindexed publications/No IF	1	–
<b>Total publications (including those without IF)</b>	<b>16</b>	<b>119,2</b>

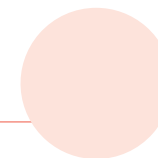




## Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor

- Irene, C; Elba, M; Jiménez, JL; Mellado, MJ; Muñoz-Fernández, MA. *HIV HGM biobank as a research platform for paediatric infectious diseases and COVID-19 pandemic*. AIDS RESEARCH AND THERAPY. 2022; 19(1). FI: 2.2. Cuartil: 4. (Article).
- Vallejo, M; Muniz, P; Kwon, M; Solan, L; Bailén, R; Carbonell, D; Chicano, M; Suárez-González, J; Catalan, P; Bellon, JM; Trivino, JC; Dorado, N; Gallardo, D; Diez-Martín, JL; Ramirez, N; Martínez-Laperche, C; Buno, I. *Risk prediction of CMV reactivation after allogeneic stem cell transplantation using five non-HLA immunogenetic polymorphisms*. ANNALS OF HEMATOLOGY. 2022; 101(7) 1567-1576. FI: 3.5. Cuartil: 2. (Article).
- GIL, S.; CARBONELL, D.; Pérez, V.; López, R.; ALONSO, R.; MUÑOZ, P.; OCHANDO, JORDI; SÁNCHEZ-ARCILLA, I.; BELLON, J.; CORREA, R.; PION, M. *Cellular and Humoral Responses Follow-up for 8 Months after Vaccination with mRNA-Based Anti-SARS-CoV-2 Vaccines*. BIOMEDICINES. 2022; 10(7). FI: 4.7. Cuartil: 1. (Article).
- Martínez-Laperche, C; Sanz-Villanueva, L; Crespo, FJD; Muniz, P; Rojas, RM; Carbonell, D; Chicano, M; Suárez-González, J; Menárguez, J; Kwon, M; Martín, JLD; Buno, I; Oreiro, MB. *EZH2 mutations at diagnosis in follicular lymphoma: a promising biomarker to guide frontline treatment*. BMC CANCER. 2022; 22(1). FI: 3.8. Cuartil: 2. (Article).
- Carbonell, D; Chicano, M; Cardero, AJ; Gómez-Centurion, I; Bailén, R; Oarbeascoa, G; Martínez-Senaris, D; Franco, C; Muniz, P; Anguita, J; Kwon, M; Diez-Martín, JL; Buno, I; Martínez-Laperche, C. *FLT3-ITD Expression as a Potential Biomarker for the Assessment of Treatment Response in Patients with Acute Myeloid Leukemia*. CANCERS. 2022; 14(16). FI: 5.2. Cuartil: 2. (Article).
- Gil-Manso, S; Alonso, R; Catalan, P; Sánchez-Arcilla, I; Marzola, M; Correa-Rocha, R; Pion, M; Muñoz, P. *IgG anti-RBD levels during 8-month follow-up post-vaccination with BNT162b2 and mRNA-1273 vaccines in healthcare workers: A one-center study*. FRONTIERS IN CELLULAR AND INFECTION MICROBIOLOGY. 2022; 12. FI: 5.7. Cuartil: 1. (Article).
- Bernaldo-de-Quiros, E; Cozar, B; López-Esteban, R; Clemente, M; Gil-Jaurena, JM; Pardo, C; Pita, A; Pérez-Caballero, R; Camino, M; Gil, N; Fernández-Santos, ME; Suárez, S; Pion, M; Martínez-Bonet, M; Correa-Rocha, R. *A Novel GMP Protocol to Produce High-Quality Treg Cells From the Pediatric Thymic Tissue to Be Employed as Cellular Therapy*. FRONTIERS IN IMMUNOLOGY. 2022; 12 793142-793142. FI: 7.3. Cuartil: 1. (Article).
- Gil-Manso, S; Blanco, IM; López-Esteban, R; Carbonell, D; López-Fernández, LA; West, L; Correa-Rocha, R; Pion, M. *Comprehensive Flow Cytometry Profiling of the Immune System in COVID-19 Convalescent Individuals*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
- MUÑIZ, P.; Andrés, C.; CHICANO, M.; CARBONELL, D.; Bailén, R.; OARBEASCOA, G.; Suárez, J.; Gómez, I.; DORADO, N.; Gallardo, David; ANGUIA, J.; KWON, M.; Martínez, C.; BUÑO, I. *Association between gene polymorphisms in the cyclophosphamide metabolism pathway with complications after haploidentical hematopoietic stem cell transplantation*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
- Latorre, MC; Gómez-Oro, C; Olivera-Valle, I; Blázquez-López, E; Gallego-Valle, J; Ibanez-Escribano, A; Casesnoves, P; González-Cucharero, C; Muñoz-Fernández, MA; Sanz, L; Vaquero, J; Martín-Rabadan, P; Pérez-Milan, F; Relloso, M. *Vaginal neutrophil infiltration is contingent on ovarian cycle phase and independent of pathogen infection*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
- Tarancon-Diez L; Consuegra I; Vázquez-Alejo E; Ramos-Ruiz R; Ramos JT; Navarro ML; Muñoz-Fernández MÁ. *miRNA Profile Based on ART Delay in Vertically Infected HIV-1 Youths Is Associated With Inflammatory Biomarkers and Activation and Maturation Immune Levels*. FRONTIERS IN IMMUNOLOGY. 2022; 13 878630-878630. FI: 7.3. Cuartil: 1. (Article).
- Bernaldo-de-Quiros, E; Pion, M; Martínez-Bonet, M; Correa-Rocha, R. *A New Generation of Cell Therapies Employing Regulatory T Cells (Treg) to Induce Immune Tolerance in Pediatric Transplantation*. FRONTIERS IN PEDIATRICS. 2022; 10. FI: 2.6. Cuartil: 2. (Review).
- Schwarz, M; Torre, D; Lozano-Ojalvo, D; Tan, AT; Tabaglio, T; Mzoughi, S; Sánchez-Tarjuelo, R; Le Bert, N; Lim, JME; Hatem, S; Tuballes, K; Camara, C; López-Granados, E; Paz-Artal, E; Correa-Rocha, R; Ortiz, A; López-





Hoyos, M; Portoles, J; Cervera, I; González-Pérez, M; Bodega-Mayor, I; Conde, P; Oteo-Iglesias, J; Borobia, AM; Carcas, AJ; Frias, J; Belda-Iniesta, C; Ho, JSY; Nunez, K; Hekmaty, S; Mohammed, K; Marsiglia, WM; Carreno, JM; Dar, AC; Berin, C; Nicoletti, G; Della Noce, I; Colombo, L; Lapucci, C; Santoro, G; Ferrari, M; Nie, K; Patel, M; Barcessat, V; Gnjatic, S; Harris, J; Sebra, R; Merad, M; Krammer, F; Kim-schulze, S; Marazzi, I; Bertoletti, A; Ochando, J; Guccione, E. *Rapid, scalable assessment of SARS-CoV-2 cellular immunity by whole-blood PCR*. NATURE BIOTECHNOLOGY. 2022; 40(11) 1680. FI: 46.9. Cuartil: 1. (Article).

- de Tena, PS; Bailén, R; Oarbeascoa, G; Gómez-Centurion, I; Pérez-Corral, A; Carbonell, D; Martínez-Laperche, C; Sancho, M; Bastos-Oreiro, M; Conde-Royo, D; Fernández-Caldas, P; Muñoz, C; Sabell, S; Buno, I; Anguita, J; Diez-Martín, JL; Kwon, M. *Allogeneic CD34-selected stem cell boost as salvage treatment of life-threatening infection and severe cytopenias after CAR-T cell therapy*. TRANSFUSION. 2022; 62(10) 2143-2147. FI: 2.9. Cuartil: 3. (Article).

- Gil-Manso, S; Blanco, IM; Motyka, B; Halpin, A; López-Esteban, R; Pérez-Fernández, VA; Carbonell, D; López-Fernández, LA; West, L; Correa-Rocha, R; Pion, M. *ABO blood group is involved in the quality of the specific immune response anti-SARS-CoV-2*. VIRULENCE. 2022; 13(1) 30-45. FI: 5.2. Cuartil: 2. (Article).

### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Martín-Rojas, RM; Gómez-Centurion, I; Bailén, R; Bastos, M; Díaz-Crespo, F; Carbonell, D; Correa-Rocha, R; Pion, M; Muñoz, C; Sancho, M; Fernández, IG; Oarbeascoa, G; Pérez-Corral, A; Martínez-Laperche, C; Anguita, J; Buno, I; Menárguez, J; Diez-Martín, JL; Kwon, M. *Hemophagocytic lymphohistiocytosis/macrophage activation syndrome (HLH/MAS) following treatment with tisagenlecleucel*. CLINICAL CASE REPORTS. 2022; 10(1). (Article).





Group Director: **MARÍA LUISA NAVARRO GÓMEZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

### 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 for 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 post-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 patients on inpatient wards?
- ▶ L5: Impact on families of admission for RSV bronchiolitis. European RSV outcomes 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 children, 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: Assessment of 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: Assessment of the evolution of neuroimaging and neurocognitive profile and outcomes of vertically HIV-infected patients. To assess sleep quality in this population.
- ▶ L6: Analysis of 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 comorbidities of perinatally HIV exposed uninfected children and the epidemiological characteristics of newly diagnosed paediatric patients.
- ▶ L7: Description of the characteristics of new HIV infections in adolescents in Spain. FIS Project

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### Research lines (Cont.)

- ▶ 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.

#### 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: Registration of 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 non-tuberculosis mycobacteria in Spain and Europe.
- ▶ L8: To 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 treatment for 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: Development 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: Description of 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 evolution characteristics of children with OAI.
- ▶ L2: Most common aetiology of OAIs 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.

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### Research lines (Cont.)

#### Axis 5: Invasive infection by group A Streptococcus A

- ▶ L1: Evaluation of the incidence of iGASD over a period of 11 years in the Community of Madrid.
- ▶ L2: Epidemiological, clinical and laboratory characteristics and evolution of children with iGASD.
- ▶ L3: Study of predictors of severity in children with iGASD.
- ▶ L4: Study of the clinical presentation and evolution of children with iGASD according to the serotypes involved.

#### Axis 6: Fever and neutropenia in paediatric patients

- ▶ 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 sickle cell patients

- ▶ L1: Retrospective Study (RETRO-DREP): a) To determine the incidence and epidemiological characteristics of infections in children with sickle cell disease in our setting. b) To determine the clinical characteristics and analytical parameters associated with a greater risk of presenting severe bacterial infection. c) To propose criteria of low risk of severe bacterial infection, to select patients who could benefit from a more conservative approach.
- ▶ L2: Prospective Study (F-DREP): 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 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) Validate the criteria for low risk of severe bacterial infection as outlined 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 the patient 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 in other prevalent infectious pathologies in healthy population and in the highly complex patient.

- ▶ L1: Study of invasive pneumococcal infection.
- ▶ L2: Role of viral respiratory 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 Antifungals (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.

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### Research lines (Cont.)

- ▶ L11: SOMI study for the prospective evaluation of mononucleosis syndrome.

#### 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: COVID19 INFECTION

- ▶ 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: Hyper-frequency in paediatric emergencies.
- ▶ L6: Knowledge of parents and caregivers about the reasons for ED visits
- ▶ L7: Critically ill patients
- ▶ L8: Child abuse
- ▶ L9: Intravenous rehydration
- ▶ L10: Paediatric Ictus Code
- ▶ L11: Humanisation and patient experienc

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 its aim is 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 the paediatric patient.
- Infections in the patient with sickle cell disease.
- Infections in sickle cell disease patients.
- Research in the prevention of infections in the complex paediatric patient.
- Congenital infections.
- Invasive fungal infection.
- Research plan in other prevalent infectious pathologies in 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 patients and patients under immunosuppressive treatment).





- Fungal infections in paediatrics.
- Resistance study and paediatric PROA
- Feverish infant
- Intoxications in paediatric age
- Analgesia and sedation
- Unintentional injuries
- Quality and safety in paediatric emergencies
- Hyperfrequency in the paediatric ED
- Knowledge of parents and caregivers about the reasons for consultation in the Emergency Department.
- Critical patient
- Paediatric stroke
- Humanisation and patient experience

In addition, we are very aware of the training in the field of paediatric infectious diseases of junior researchers who are being incorporated, where they develop an important role in research and many of them end up doing translational research activity and culminating with doctoral theses.

The networking and collaborations with other research groups, both national and international, stand out. In addition, the group has a commitment to cooperation by training professionals from Africa and Latin America, which supports them in their clinical and translational research activity in person and through telemedicine and other information techniques.

### Group members

- **Aguilera Alonso, David:** R1. First Stage Researcher.
- **Barrera Brito, Vanesa:** Other.
- **Berlanga de Miguel, Ana:** Other.
- **Bermejo Gómez, Amanda:** R1. First Stage.
- **Berzosa Sánchez, Arantxa:** R1. First Stage.
- **Busquets Ferrer, Carmen:** Other.
- **Carrasco García, Itziar:** R2. Recognised Researcher.
- **Collado González, Blanca:** Other.
- **Díaz de Mera, María Carolina:** Other.
- **Eizaguirre Fernández, María Teresa:** Other.
- **Escobar Castellanos, María:** R1. First Stage.
- **Ferrero García-Loygorri, Clara:** R1. First Stage.
- **González Martínez, Felipe:** R2. Recognised Researcher.
- **González Sánchez, María Isabel:** R1. First Stage.
- **Hernández-Sampelayo Matos, Teresa:** R3. Established Researcher.
- **Jiménez De Ory, Santiago:** R2. Recognised Researcher.
- **Jordán Ferraz, Cristina Eugenia:** Other.
- **Jove Blanco, Ana:** R1. First Stage.
- **Lazaro Martín, Beatriz:** R1. First Stage.
- **López Suárez, Andrea:** R1. First Stage.
- **Lorente Romero, Jorge:** R1. First Stage.
- **Marañón Pardillo, Rafael:** R1. First Stage.
- **Miguez Navarro, María Concepción:** R3. Established Researcher.
- **Mora Capín, Andrea Avelina:** R1. First Stage.





## Group members (Cont.)

- **Moure Romano, Roberto:** Other.
- **Navarro Gómez, María Luisa:** R4. Leading Researcher.
- **Pérez Moreno, Jimena:** R2. Recognised Researcher.
- **Retamal Martínez, Rocío:** Other.
- **Rincón López, Elena:** R2. Recognised Researcher.
- **Rivas García, Arístides:** R1. First Stage.
- **Rodríguez Fernández, Rosa María:** R3. Established Researcher.
- **Saavedra Lozano, Jesús:** R3. Established Researcher.
- **Saez Moya, Joaquín:** Other.
- **Sánchez Contreras, Nuria:** Other.
- **Santiago García, Begoña:** R3. Established Researcher.
- **Santos Sebastián, Mar:** R1. First Stage.
- **Tierraseca Serrano, María Esther:** Other.
- **Toledo del Castillo, Blanca:** R1. First Stage.
- **Vázquez López, Paula:** R3. Established Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	4		2	
Regional				

- Title: **Infeccion por VRS y desarrollo de sibilancias persistentes: una cohorte de nacimiento. (Marañón RSV Birth cohort; MARCO Study.** PI21/00840  
 Director: Rodríguez Fernández, Rosa María  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2024
- 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: 31/12/2023
- Title: **Caracterización de las nuevas infecciones VIH en adolescentes en España.** PI19/01530  
 Director: Navarro Gómez, María Luisa  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2022
- Title: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica.** PI17/00711  
 Director: Santiago García, Begoña  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Río Hortega contract.** CM20/00128  
 Director: Hernanz Lobo, Alicia  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 27/11/2020  
 End date: 31/12/2022



## 5.07. Infections in paediatric patients



- Title: **Intensification contract.** INT20/00082  
 Director: NAVARRO GÓMEZ, MARÍA LUISA  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2022

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBER Enfermedades Infecciosas. CIBERINFECC	Coordinating Group
Others	Red Española de Estudio de la Tuberculosis Pediátrica	Coordinating Group
Others	Grupo de Estudio de tuberculosis resistente en niños de la Comunidad de Madrid	Coordinating Group
Others	Estudio sobre la influencia genética en la enfermedad meningocócica	Collaborating group
Others	Red de la Infección Congénita por CMV	Collaborating group
Others	Red para el estudio de la enfermedad invasiva por SGA	Collaborating group
Others	Red Nacional de Infección Osteoarticular en niños	Collaborating group
Others	Red nacional de Kawasaki	Collaborating group
Others	Red Nacional para el Diagnóstico, Tipificación Genética y Actuaciones Terapéuticas de la giardiasis infantil	Collaborating group

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
Others	Red de Investigación Traslacional en Infectología Pediátrica	Collaborating group
Others	Registro nacional de estudio de casos de infección por ZIKA en el embarazo y recién nacido	Collaborating group
Others	Red de Investigación de la Sociedad española de Urgencias de Pediatría	Collaborating group
Others	Red Pediátrica para Prevención, Detección Precoz y Tratamiento del VIH en niños	Collaborating group
Others	Pediatric European Network for Treatment of AIDS	Collaborating group
Others	Estudio epidemiológico de las infecciones pediátricas por el nuevo coronavirus SARS-CoV-2	Collaborating group
Others	Red Europea de Investigación en RSV	Collaborating group
Others	Red Estatal de Investigación en Toxoplasmosis Congénita	Collaborating group
Others	pediatric Tuberculosis Network European Trials group	Coordinating Group
Others	Paediatric invasive S. aureus study	Collaborating group
Others	Sickle cell disease Pediatric Research about Infections Group	Collaborating group
Others	MultiCenter modified point prevALence study of antifungal use in PediatricS in EurOpe	Collaborating group





## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Elena Rincón López	Predicción del riesgo de infección bacteriana grave en niños con enfermedad de células falciformes	María Luisa Navarro Gómez/ Elena Cela de Julián/Teresa Hernández Sampelayo	UCM	19/04/2022
Ph Thesis	Itziar Carrasco García	Enfermedad hepática en niños y jóvenes infectados por el virus de la inmunodeficiencia humana (VIH)	María Luisa Navarro Gómez/ Talia Sainz Costa	UCM	19/07/2022

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
María Concepción Míguez Navarro, María Escobar Castellanos, Clara Ferrero García-Loygorri, Jorge Lorente Romero, Rafael Marañón Pardillo, Andrea Mora capín, Arístides Rivas García, Paula Vázquez López	Signos/síntomas guía en Urgencias Pediátricas	2ª Edición. Ergon
Cristina Corraliza, Elena Rincón, Jorge Lorente, Alejandro Lowy	Mastoiditis en Urgencias de Pediatría	Protocolo HGUGM.
Cristina Nuñez, Jorge Lorente	Episodio Breve resuelto inexplicable	Protocolo HGUGM.
Laura Oliva, Jorge Lorente, M <sup>a</sup> Concepción Míguez, Ana Jové, María Escobar, Clara Ferrero, Andrea Mora, Arístides Rivas, Rafael Marañón, Paula Vázquez	Urticaria/Angioedema	Protocolo HGUGM.
Secciones de Enfermedades Infecciosas Pediátricas, Urgencias Pediátricas y Pediatría Interna Hospitalaria, Servicio de Pediatría; Servicio de Farmacia; Servicio de Microbiología; Servicio de Alergología	Antibioterapia empírica en infecciones pediátricas ambulatorias	Protocolo HGUGM.

## Publications

Total Impact Factor: 417,6

	Nº	IF
Own publications	32	158,8
Joint publications	41	258,8
First decile publications	7	185,2
First quartile publications	30	308,5
Second quartile publications	11	37,9
Third quartile publications	22	53,6
Fourth quartile publications	10	17,6
Nonindexed publications/No IF	12	-
<b>Total publications (including those without IF)</b>	<b>85</b>	<b>417,6</b>

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

- Cobos-Carrascosa, E; Ballesteros, A; Aguilera-Alonso, D; Mesa, JM; García-Sánchez, P; Navarro, I; Alonso-Cadenas, JA; Bermejo, A; Sabrido, G; Martínez-Campos, L; González-Posada, AF; Illan-Ramos, M; Lorente, J; Jiménez, AB; Del Valle, R; Domínguez-Rodríguez, S; Tagarro, A; Moraleda, C. *Manifestations and clinical phenotypes are not specific enough to predict SARS-CoV-2 infection in symptomatic children*. ACTA PAEDIATRICA. 2022; 111(10) 1974-1977. FI: 3.8. Cuartil: 1. (Editorial Material).
- Carrasco, I; Oliveira, A; Lancharro, A; Escosa, L; Mellado, MJ; Busca, C; Montes, ML; Diez, C; Alcolea-Ruiz, S; Navarro, ML; Sainz, T. *Fatty liver disease in children living with HIV: a ghostly iceberg*. AIDS. 2022; 36(6) 805-814. FI: 3.8. Cuartil: 3. (Article).
- Carrasco, I; Oliveira, A; Lancharro, A; Escosa, L; Mellado, MJ; Busca, C; Montes, ML; Diez, C; Alcolea-Ruiz, S; Navarro, ML; Sainz, T. *Prevalence of nonalcoholic fatty liver disease using noninvasive techniques among children, adolescents, and youths living with HIV*. AIDS. 2022; 36(10) 1471-1472. FI: 3.8. Cuartil: 3. (Letter).





## 5.07. Infections in paediatric patients



- Rodríguez-Fernández, R; González-Martínez, F; Pérez-Moreno, J; González-Sánchez, MI; Navazo, SD; del Castillo, BT; Lozano, JS; Espinosa, LV; Pérez, SM; Berlanga, MM; Mejias, A; Ramilo, O. *Clinical Phenotype of Respiratory Syncytial Virus Bronchiolitis before and during the Coronavirus Disease 2019 Pandemic*. AMERICAN JOURNAL OF PERINATOLOGY. 2022; FI: 2. Cuartil: 3. (Article).
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- García-Moreno, FJ; Escobar-Castellanos, M; Marañón, R; Rivas-García, A; Manrique-Rodríguez, S; Mora-Capin, A; Fernández-Llamazares, CM. *Adequacy of pediatric antimicrobial prescribing in the Emergency Department at discharge*. ANALES DE PEDIATRIA. 2022; 96(1). FI: 2.1. Cuartil: 3. (Article).
- Higuera, CV; García, MMB; Domínguez-Rodríguez, S; Saez, BR; Cuellar-Flores, I; García-Navarro, C; Martín, SG; Amador, JTR; Gómez, MLN; González-Tome, MI. *Prevalence of psychological symptoms and associated risk factors in a Spanish sample of HIV-positive youth compared to uninfected peers*. ANALES DE PEDIATRIA. 2022; 96(3) 203-212. FI: 2.1. Cuartil: 3. (Article).
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- Goycochea-Valdivia, WA; Pérez, SM; Aguilera-Alonso, D; Escosa-García, L; Campos, LM; Baquero-Artigao, F. *Position statement of the Spanish Society of Paediatric Infectious Diseases on the introduction, implementation and assessment of antimicrobial stewardship programmes in hospital paediatrics*. ANALES DE PEDIATRIA. 2022; 97(6). FI: 2.1. Cuartil: 3. (Article).
- Mora-Capin, A; Ignacio-Cerro, C; Díaz-Redondo, A; Vázquez-López, P; Marañón-Pardillo, R. *Impact of risk mapping as a strategy for monitoring and improving patient safety in paediatric emergency care*. ANALES DE PEDIATRIA. 2022; 97(3). FI: 2.1. Cuartil: 3. (Article).
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  - Aguilera-Alonso, D; Canton, R; Giske, CG; Kahlmeter, G; Vasconcelos, MK; Papan, C; Turnidge, J. *Searching high and low: call for a joint ESPID-EUCAST survey on dosage of antibacterial agents in children-part one*. CLINICAL MICROBIOLOGY AND INFECTION. 2022; 28(4) 625-627. FI: 14.2. Cuartil: 1. (Letter).
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# AREA 6

## TRASLATIONAL ONCOLOGY

*Area coordinator:*  
**Miguel Martín Jiménez**

The general research objective in the Area of Oncology in the IiSGM is to generate reliable and scientifically relevant data on the personalized treatment of cancer. This objective is met through high-quality translational research that enables the selection of the antitumor treatment with the most options for cure, the least toxicity and the fewest adverse effects.

Therapy is based on the patient's genetic/molecular profile (pharmacogenetics) and on the tumor profile (pharmacogenomics).

Appropriate selection of patients with cancer for the sophisticated antitumor therapy available at our center (targeted medical therapy. High-definition radiotherapy. Cell therapy. Hematopoietic stem cell transplant) ensures the ideal choice for each patient. The work carried out in the Area also includes the study of hereditary/familial cancer syndromes and other situations with a high risk of cancer in which various interventions are effective for reducing the probability of the disease occurring.

# Groups in AREA **6**

## **TRASLATIONAL ONCOLOGY**

- ▶ 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



Photography: Lidia Albadalejo Navarro



Group Director: **ANA ÁLVAREZ GONZÁLEZ AND MERCEDES MUÑOZ FERNÁNDEZ**

Organisms involved: **HGUGM-UCM**

Type: **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

- **Alonso Farto, Juan Carlos:** R2. Recognised Researcher.
- **Álvarez González, Ana:** R1. First Stage Researcher.
- **Álvarez Fernández, Emilio.**
- **Ayala Lázaro, Rafael:** R1. First Stage Researcher.
- **Blanco Rodríguez, José:** R1. First Stage Researcher.
- **Calín Lorca, Ana:** R1. First Stage Researcher.
- **Calvo Manuel, Felipe Ángel:** R3. Established Researcher.

- **Cascón Pérez-Teijon, María Elena.**
- **Cuervo Dehesa, Miguel Ángel:** R1. First Stage Researcher.
- **De Ingunza Barón, Lourdes.**
- **Del Valle Hernández, Emilio:** R1. First Stage Researcher.
- **García Hernández, María Jesús:** R1. First Stage Researcher.
- **García Leal, Roberto.**
- **Gómez Espí, Marina:** R2. Recognised Researcher.
- **Gómez Cores, Susana:** R1. First Stage Researcher.
- **González San Segundo, Carmen:** R2. Recognised Researcher.
- **López Bote, Miguel Ángel:** R1. First Stage Researcher.
- **Lozano Barriuso, Miguel Ángel:** R1. First Stage Researcher.
- **Mediavilla Santos, Lydia.**
- **Moreno Domene, Mercedes:** R1. First Stage Researcher.
- **Muñoz Fernández, Mercedes.**
- **Navarro Cuellar, Carlos:** R2. Recognised Researcher.
- **Ochandiano Caicoya, Santiago.**
- **Orcajo Rincón, Javier.**
- **Peligros Gómez, María Isabel:** R2. Recognised Researcher.
- **Prieto Rodríguez, María Jesús.**
- **Ramón Botella, Enrique.**
- **Rodríguez Martín, Marcos:** R1. First Stage Researcher.
- **Rotger Regí, Amanda.**
- **Ruiz Galán, Gema.**
- **Salmerón Escobar, José Ignacio:** R2. Recognised Researcher.
- **Serrano Andreu, Francisco Javier:** R2. Recognised Researcher.
- **Sierra Díaz, Fernando:** R1. First Stage Researcher.
- **Sole Pesutic, Claudio Vicente:** R2. Recognised Researcher.
- **Tousidonis Ria, Manuel Alejandro.**





## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National				
Regional			1	

- Title: **Young employment contract. Laboratory Technician.** PEJ-2020-TL/BMD-19427  
 Director: Muñoz Fernández, Mercedes  
 Funding body: Comunidad Autónoma de Madrid  
 Project type: Human resources  
 Start date: 01/03/2021  
 End date: 28/02/2023

## Publications Total Impact Factor: 223,0

	N°	IF
Own publications	11	100,3
Joint publications	19	122,7
First decile publications	5	147,8
First quartile publications	9	167,0
Second quartile publications	10	38,2
Third quartile publications	3	8,4
Fourth quartile publications	8	9,4
Nonindexed publications/No IF	8	–
<b>Total publications (including those without IF)</b>	<b>38</b>	<b>223,0</b>

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

- Alonso, JC; Casans, I; González, FM; Fuster, D; Rodríguez, A; Sánchez, N; Oyaguez, I; Burgos, R; Williams, AO; Espinoza, N. *Economic evaluations of radioembolization with Itrium-90 microspheres in hepatocellular carcinoma: a systematic review.* BMC GASTROENTEROLOGY. 2022; 22(1). FI: 2.4. Cuartil: 4. (Review).
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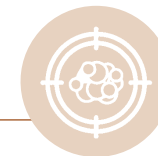






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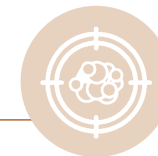
- Zekri-Nechar, K; Zamorano-León, JJ; Segura-Fragoso, A; Alcaide, JR; Reche, C; Andrés-Castillo, A; Martínez-Martínez, CH; Giner, M; Jiménez-García, R; López-de-Andrés, A; Navarro-Cuellar, C; García-Fernández, MA; López-Farre, A. *Albumin Binds COVID-19 Spike 1 Subunit and Predicts In-Hospital Survival of Infected Patients-Possible Alteration by Glucose*. JOURNAL OF CLINICAL MEDICINE. 2022; 11(3). FI: 3.9. Cuartil: 2. (Article).
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  - Orabona, GD; Maglitto, F; Committeri, U; Romano, A; Sani, L; Troise, S; Arena, A; Audino, G; Norino, G; Del Prete, GD; Cuellar, CN; Iaconetta, G; Califano, L. *Management of Oroantral Communications using Platelet-Rich Fibrin: our experience.* JOURNAL OF OSSEOINTEGRATION. 2022; 14(3). (Article).
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  - Gómez, JB; Romera, N; Tellado, JM; del Campo, L; Formoso, JD; Fuster, M; Vivas, I; Botella, ER; Ortega, RMD. *Expert recommendations about the use of gadoxetic acid in patients with liver metastases in Spain.* RADIOLOGIA. 2022; 64(4) 300-309. (Article).
- Other publications**
- Del Castillo Pardo de Vera JL; Pampín Martínez M; Aragón Niño I; Navarro Cuéllar C; Cebrián Carretero JL. *Navigation in surgical arthroscopy of the temporomandibular joint.* BRITISH JOURNAL OF ORAL & MAXILLOFACIAL SURGERY. 2022; 60(7) 999-1001. (Article).





Group Director: **MIGUEL MARTÍN JIMÉNEZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Scientific leadership, integration and organization.

- ▶ L1: Value of liquid biopsy as a predictor of response in cancer patients.

### Axis 2: International relations, alliances and visibility.

- ▶ L1: Search for predictors of response to neoadjuvant chemotherapy with docetaxel carboplatin in patients with triple negative breast cancer.
- ▶ L2: Development of preclinical PDXs models.
- ▶ L3: Development of Organoids.
- ▶ L4: Development of new technologies with impact on the oncology patient (FAITH).

### Axis 3: Consolidation of innovation.

- ▶ L1: Oncological Genetic Counselling.

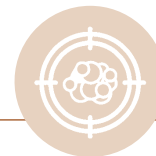
### Axis 4: Competitiveness (sustainability) and resources available for research.

- ▶ L1: Development of murine breast cancer Tumorgrafts.
- ▶ L2: Search for genomic profiles as predictors of response in oncology patient.

### Axis 5: Quality and management of research and innovation.

- ▶ L1: Immunotherapy for cancer disease
- ▶ L2: Innovation in treatment of colorectal cancer.
- ▶ L3: Innovation in treatment of gastric cancer.
- ▶ L4: Innovation in treatment of lung cancer.
- ▶ L5: Innovation in treatment of genitourinary tumours.
- ▶ L6: Innovation in systemic treatment of brain tumours.
- ▶ L7: Innovation in systemic treatment of melanoma.
- ▶ L8: Innovation in the diagnosis of patients with stage I-III breast cancer.
- ▶ L9: (Neo) adjuvant breast cancer chemotherapy.

The generic objective of research in the Oncology Area is to generate reliable and scientifically relevant information on individualised cancer treatment, through translational research, that may allow the selection of the anti-tumour treatment that provides more curative options and fewer sequelae for each patient. Therapy selection will essentially be based on the genetic/molecular profile of the patient and the tumour. The appropriate selection of cancer patients who are candidates for sophisticated anti-tumour therapies (target medical treatments, high-definition radiotherapy, cell therapy, haemopoietic progenitor transplantation) available in our centre will allow the most suitable choice for each patient. In addition, the Area will study hereditary-familial cancer syndromes and other high-risk cancer situations, in which various interventions can be very effective in reducing the likelihood of developing the disease.



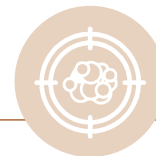
## Group members

- Aguado Orihuela, Gema.
- Aguilar Caballero, Iker.
- Alameda García, Irene: R1. First Stage Researcher.
- Alva Bianchi, Manuel.
- Álvarez Álvarez, Rosa María: R3. Established Researcher.
- Álvarez Castillo, Enrique Luis.
- Arias García, Ainhoa: R1. First Stage Researcher.
- Arranz Arija, Jose Ángel: R3. Established Researcher.
- Arregui Valles, Marta: R1. First Stage Researcher.
- Ayllón García, Carolina: R1. First Stage Researcher.
- Blanco Velilla, Alba.
- Bueno Zamora, Óscar.
- Calles Blanco, Antonio.
- Calvo Ferrándiz, Pilar Aitana.
- Cantero Martín, Marta.
- Cañete Gamez, María Isabel.
- Carpeño Martín-Caro, Laura.
- Cebollero Presmanes, María.
- Ciudad Babiano, Francisco.
- De Tomás Palacios, Jorge.
- Del Monte Millán, María.
- Delgado Salas, Guadalupe.
- Echavarría Díaz-Guardamino, Isabel.
- Escobar Álvarez, Yolanda.
- Esteban Arranz, Magdalena.

- Fernández González, Sara.
- Flores Sánchez, Carmen.
- Florez Peñasco, Sandra.
- Fox Anzorena, Bárbara.
- Galera López, María del Mar.
- Galindo Barreales, Fernando.
- García Laborda, Elsa.
- García Hidalgo, María Elena.
- García Maldonado, Ana.
- García Pardo de Santayana, Miguel Ángel.
- García Alfonso, María Pilar.
- González Blázquez, María Victoria.
- González del Val Subirats, Ricardo.
- Gras Peral, Inmaculada Concepción.
- Gutiérrez Alonso, Natalia.
- Gutiérrez Ortiz de la Tabla, Ana.
- Herrero López, Blanca.
- Ilas Claudia, Renata.
- Iruela de Pedro, María Encarnación.
- Jerez Gilarranz, Yolanda.
- Jiménez Vicente, Mercedes.
- Juliao Camaño, David Salomón.
- Khosravi Shahi, Parham.
- Llorca Escriba, Mireia.
- Lobato Vidal, Nerea.

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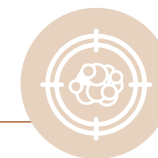
### Group members (Cont.)

- López Juárez, Estela.
- López López, Cristina.
- López Jiménez, Carlos.
- López-Tarruella Cobo, Sara.
- Luque Molina, María Soledad.
- Márquez Rodas, Ivan.
- Martín Alonso, Alhelies.
- Martín Jiménez, Miguel: R4. Leading Researcher.
- Martínez Delfrade, Íñigo.
- Martínez Pérez, Mónica.
- Massarrah Sánchez, Tatiana.
- Moron García, Blanca Isabel.
- Muñana Villar, Alberto.
- Muñiz Frutos, Sara.
- Muñoz Martín, Andrés.
- Ocaña Torres, Inmaculada.
- Olcoz Monreal, Francisco Javier.
- Ortega Morán, Laura.
- Palomero Plaza, María Isabel.
- Parra Hernández, Irene.
- Pérez Ramírez, Sara.
- Pérez de la Fuente, Inés.

- Pérez Montijano, Marta.
- Picornell Company, Antonio Clemente.
- Puente Vázquez, Beatriz.
- Ramos Medina, Rocío.
- Ranz Herranz, María Isabel.
- Rincón Olbés, Patricia.
- Roche Molina, Marta.
- Rodríguez Villar, Cristina.
- Romero Picazo, Paula.
- Ruiz Bolaños, Ana Belén.
- Sabin Domínguez, María Pilar.
- Sánchez Herrero, Rosa María.
- Sandoval García, Carmen.
- Soto Alsar, Javier.
- Talegón García, María del Pilar.
- Tirado Anula, Victoria Clara: R1. First Stage Researcher.
- De Toro Carmena, María: R1. First Stage Researcher.
- Torres Pérez-Solero, Gabriela: R1. First Stage Researcher.
- Torvisco Najarro, José María.
- Vargas Sánchez, Aroa: R1. First Stage Researcher.
- Villarejo López Lucía: R1. First Stage Researcher.
- Zazo León, María Teresa: R1. First Stage Researcher.







### Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	1			
National	2			
Regional				

- Title: **FAITH: Federated Artificial Intelligence solution for monitoring mental Health status after cancer treatment.** H2020 FAITH 875358  
 Director: Martín Jiménez, Miguel  
 Project type: Research project  
 Funding body: UE  
 Start date: 01/01/2020  
 End date: 30/06/2023
- Title: **Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo.** PI18/01775  
 Director: Martín Jiménez, Miguel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Detección de neoantígenos en exosomas tumorales obtenidos de sangre periférica de pacientes con cáncer microcítico de pulmón metastásico.** GOM-HGUGM-2020-01  
 Director: Calles Blanco, Antonio  
 Project type: Research project  
 Funding body: Asociación Española de Investigación sobre el Cáncer Aseica  
 Start date: 20/05/2020  
 End date: 20/05/2022

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Cancer associated venous thromboembolic events	EP3631016	FIBHGM IIB Sant Pau	Andrés Muñoz, Eduardo Salas, José Manuel Soria

■ Transferred Industrial Property.

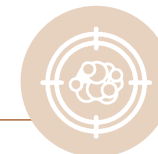
\* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).

#### Copyright

Title	Reference	Owner	Inventors
SMART, application for cancer genetic counseling	N° Asiento Registral: 16/2015/5724	FIBHGM, UNED, URJC	Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo

■ Transferred Intellectual Property.





## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBERONC CB16/12/00471	Associated group
Others	GEICAM. Grupo Español de Cáncer de mama	Coordinating group
Others	ESMO. European Society for Medical Oncology	Other
Others	TRIO. Translational Research In Oncology	Coordinating group
Others	GEIS. Grupo Español de Investigación en Sarcomas	Other
Others	TTD. Grupo de Tratamiento de los Tumores Digestivos	Other
Others	SOGUG. Grupo Español de Oncología Genitourinaria	Other
Others	SEOM. Sociedad Española de Oncología Médica	Other
Others	GEM. Grupo Español Multidisciplinar de Melanoma	Other
Others	EUROPACOLON España. Asociación cáncer colorrectal	Other
Others	Grupo ECO para la calidad en la Oncología	Other
Others	SOMA. Sociedad Oncológica Madrileña	Other
Others	BCIRG. Breast Cancer Internacional Research Group	Other
Others	CIBOMA. Coalición Iberoamericana de Oncología Mamaria	Other
Others	ASCO. American Society of Clinical Oncology	Other
Others	CECOG. Central European Cooperative Oncology Group	Other
Others	EBCTCG. Early Breast Cancer Trialist Cooperative Group	Other

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Y. Escobar Álvarez <sup>1</sup> ; R. de las Peñas Bataller <sup>2</sup> ; J. Pérez Altozano <sup>3</sup> ; S. Ros Martínez <sup>4</sup> ; A. Sabino Álvarez <sup>5</sup> ; A. Blasco Cordellat <sup>6</sup> ; E. Brozos Vázquez <sup>7</sup> ; J. Corral Jaime <sup>8</sup> ; I. García Escobar <sup>9</sup> ; C. Beato Zambrano <sup>1</sup>	SEOM clinical guidelines for anaemia treatment in cancer patients (2020)	Clinical and Translational Oncology volume 23, pages931–939 (2021)
Majem M, Manzano JL, Márquez-Rodas I, Mujika K, Muñoz-Couselo E, Pérez-Ruiz E, de la Cruz-Merino L, Espinosa E, González-Cao M, Berrocal A	SEOM clinical guideline for the management of cutaneous melanoma (2020).	Clin Transl Oncol. 2021 Mar 2. doi: 10.1007/s12094-020-02539-9. Epub ahead of print. PMID: 33651321.
de Juan Ferré A, Álvarez Álvarez R, Casado Herráez A, et al.	SEOM Clinical Guideline of management of soft-tissue sarcoma (2020)	Clin Transl Oncol. 2021;23(5):922-930. doi:10.1007/s12094-020-02534-0
García-Alfonso P, Saiz-Rodríguez M, Mondéjar R, et al.	Consensus of experts from the Spanish Pharmacogenetics and Pharmacogenomics Society and the Spanish Society of Medical Oncology for the genotyping of DPYD in cancer patients who are candidates for treatment with fluoropyrimidines.	Clin Transl Oncol. 2022;24(3):483-494. doi:10.1007/s12094-021-02708-4. Epub 2021 Nov 13
Navarro, Samuel; Cuatrecasas, Miriam; Hernández-Losa, Javier; Landolfi, Stefania; Musulen, Eva; Ramon y Cajal, Santiago; García-Carbonero, Rocio; García-Foncillas, Jesus; Pérez-Segura, Pedro; Salazar, Ramon; Vera, Ruth; García-Alfonso, Pilar	Actualización de la recomendación para la determinación de biomarcadores en el carcinoma colorrectal. Consenso Nacional de la Sociedad Española de Oncología Médica y de la Sociedad Española de Anatomía Patológica.	"Revista española de patología: publicación oficial de la Sociedad Española de Anatomía Patológica y de la Sociedad Española de Citología, Volume54, Issue1, Page41-54, DOI10.1016/j.patol.2020.07.004. Published2021 Jan-Mar. Indexed 2021-01-19. Document TypeJournal Article; Practice Guideline; Review"

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## Clinical Practice Guidelines (cont.)

Authors	Title	Journal/Reference
María González-Cao ,1 Teresa Puertolas,2 Mar Riveiro,3 Eva Muñoz-Couselo,4 Carolina Ortiz,4 Roger Paredes,5,6 Daniel Podzamczar,7 Jose Luis Manzano,8 Jose Molto,5,6 Boris Revollo,5,6 Cristina Carrera,9 Lourdes Mateu,5,6 Sara Fancelli,1,10 Enrique Espinosa,11 Bonaventura Clotet,5,6 Javier Martínez-Picado,5,12 Pablo Cerezuela,13 Ainara Soria,14 Ivan Márquez-Rodas ,15 Mario Mandala ,16 Alfonso Berrocal,17 for the Spanish Melanoma Group (GEM)	Cancer immunotherapy in special challenging populations: recommendations of the Advisory Committee of Spanish Melanoma Group (GEM)	J Immunother Cancer. 2021;9(3): e001664. doi:10.1136/jitc-2020-001664. [published correction appears in J Immunother Cancer. 2022 Feb;10(2)].
González Del Alba, A., Méndez-Vidal, M. J., Vázquez, S., Castro, E., Climent, M. A., Gallardo, E., González-Billalabeitia, E., Lorente, D., Maroto, J. P., & Arranz, J. A.	SEOM clinical guidelines for the treatment of advanced prostate cancer (2020).	Clin Transl Oncol. 2021;23(5):969-979. doi:10.1007/s12094-021-02561-5
Margarita Majem, Ramon de Las Peñas, Juan Antonio Virizuela, Luís Cabezón-Gutiérrez, Patricia Cruz, Rafael López-Castro, Miriam Méndez, Rebeca Mondéjar, María Del Mar Muñoz, YOLANDA ESCOBAR	SEOM clinical guideline emesis (2021)	Majem M, de Las Peñas R, Virizuela JA, et al. SEOM clinical guideline emesis (2021) [published correction appears in Clin Transl Oncol. 2022 Jul;24(7):1442]. Clin Transl Oncol. 2022;24(4):712-723. doi:10.1007/s12094-022-02802-1
Valderrama BP, González-Del-Alba A, Morales-Barrera R, Peláez Fernández I, Vázquez S, Caballero Díaz C, Domènech M, Fernández Calvo O, Gómez de Liaño Lista A, ARRANZ ARIJA JÁ	SEOM-SOGUG clinical guideline for localized muscle invasive and advanced bladder cancer (2021)	Valderrama BP, González-Del-Alba A, Morales-Barrera R, Peláez Fernández I, Vázquez S, Caballero Díaz C, Domènech M, Fernández Calvo O, Gómez de Liaño Lista A, Arranz Arijá JÁ. SEOM-SOGUG clinical guideline for localized muscle invasive and advanced bladder cancer (2021). Clin Transl Oncol. 2022 Apr;24(4):613-624. doi: 10.1007/s12094-022-02815-w. Epub 2022 Mar 26. PMID: 35347572; PMCID: PMC8986688.

Authors	Title	Journal/Reference
Ana Fernández Montes, Vicente Alonso, Enrique Aranda, Elena Élez, PILAR García ALFONSO, Cristina Grávalos, Joan Maurel, Ruth Vera, Rosario Vidal & Jorge Aparicio	SEOM-GEMCAD-TTD clinical guidelines for the systemic treatment of metastatic colorectal cancer (2022)	Fernández Montes, A., Alonso, V., Aranda, E. et al. SEOM-GEMCAD-TTD clinical guidelines for the systemic treatment of metastatic colorectal cancer (2022). Clin Transl Oncol (2023). <a href="https://doi.org/10.1007/s12094-023-03199-1">https://doi.org/10.1007/s12094-023-03199-1</a>
Lope V, Guerrero-Zotano A, Ruiz-Moreno E, Bermejo B, Antolín S, Montaña Á, Baena-Cañada JM, Ramos Vázquez M, Fernández de Larrea-Baz N, Chacón JI, García-Sáenz JA, Olier C, Muñoz M, Antón A, Sánchez Rovira P, Arcusa Lanza A, González S, Oltra A, Brunet J, Gaviá Gregori J, Martínez MT, Calvo L, Rosell L, Bezares S, Pastor-Barriuso R, Pérez-Gómez B, MARTÍN M, Pollán M.	Clinical and Sociodemographic Determinants of Adherence to World Cancer Research Fund/American Institute for Cancer Research (WCRF/AICR) Recommendations in Breast Cancer Survivors-Health-EpiGEICAM Study	Lope V, Guerrero-Zotano A, Ruiz-Moreno E, Bermejo B, Antolín S, Montaña Á, Baena-Cañada JM, Ramos Vázquez M, Fernández de Larrea-Baz N, Chacón JI, García-Sáenz JA, Olier C, Muñoz M, Antón A, Sánchez Rovira P, Arcusa Lanza A, González S, Oltra A, Brunet J, Gaviá Gregori J, Martínez MT, Calvo L, Rosell L, Bezares S, Pastor-Barriuso R, Pérez-Gómez B, Martín M, Pollán M. Clinical and Sociodemographic Determinants of Adherence to World Cancer Research Fund/American Institute for Cancer Research (WCRF/AICR) Recommendations in Breast Cancer Survivors-Health-EpiGEICAM Study. Cancers (Basel). 2022 Sep 27;14(19):4705. doi: 10.3390/cancers14194705. PMID: 36230628; PMCID: PMC9561971.

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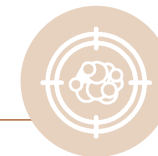


## Clinical Practice Guidelines (cont.)

Authors	Title	Journal/Reference
Earl J, Calabuig-Fariñas S, Sarasquete ME, Muinelo Romay L, López-Tarruella S, Bellosillo Paricio B, Rodríguez M, Valencia Leoz K, Dueñas Porto M, Tarazona N, Hernández Losa J, Toledo RA	A Standardized Liquid Biopsy Preanalytical Protocol for Downstream Circulating-Free DNA Applications	Earl J, Calabuig-Fariñas S, Sarasquete ME, Muinelo Romay L, López-Tarruella S, Bellosillo Paricio B, Rodríguez M, Valencia Leoz K, Dueñas Porto M, Tarazona N, Hernández Losa J, Toledo RA. A Standardized Liquid Biopsy Preanalytical Protocol for Downstream Circulating-Free DNA Applications. <i>J Vis Exp</i> . 2022 Sep 16;(187). doi: 10.3791/64123. PMID: 36190291.
Vera R, Ibarrola-de-Andrés C, Adeva J, Pérez-Rojas J, García-Alfonso P, Rodríguez-Gil Y, Macarulla T, Serrano-Piñol T, Mondéjar R, Madrigal-Rubiales B.	Expert consensus of the Spanish Society of Pathology and the Spanish Society of Medical Oncology on the determination of biomarkers in pancreatic and biliary tract cancer.	Vera R, Ibarrola-de-Andrés C, Adeva J, Pérez-Rojas J, García-Alfonso P, Rodríguez-Gil Y, Macarulla T, Serrano-Piñol T, Mondéjar R, Madrigal-Rubiales B. Expert consensus of the Spanish Society of Pathology and the Spanish Society of Medical Oncology on the determination of biomarkers in pancreatic and biliary tract cancer. <i>Clin Transl Oncol</i> . 2022 Nov;24(11):2107-2119. doi: 10.1007/s12094-022-02873-0. Epub 2022 Aug 25. PMID: 36008616; PMID: PMC9522813.

Authors	Title	Journal/Reference
Majem M, de Las Peñas R, Virizuela JA, Cabezón-Gutiérrez L, Cruz P, López-Castro R, Méndez M, Mondéjar R, Muñoz MDM, Escobar Y.	Correction to: SEOM Clinical Guideline update for the prevention of chemotherapy-induced nausea and vomiting (2021)	Majem M, de Las Peñas R, Virizuela JA, Cabezón-Gutiérrez L, Cruz P, López-Castro R, Méndez M, Mondéjar R, Muñoz MDM, Escobar Y. Correction to: SEOM Clinical Guideline update for the prevention of chemotherapy-induced nausea and vomiting (2021). <i>Clin Transl Oncol</i> . 2022 Jul;24(7):1442. doi: 10.1007/s12094-022-02846-3. Erratum for: <i>Clin Transl Oncol</i> . 2022 Apr;24(4):712-723. PMID: 35567734; PMID: PMC9192372.
Escobar Y, Margarit C, Pérez-Hernández C, Quintanar T, Virizuela JA.	Good practice recommendations to better coordinate the management of oncological pain: a Delphi survey	Escobar Y, Margarit C, Pérez-Hernández C, Quintanar T, Virizuela JA. Good practice recommendations to better coordinate the management of oncological pain: a Delphi survey. <i>Sci Rep</i> . 2022 Dec 28;12(1):22459. doi: 10.1038/s41598-022-26753-3. PMID: 36577791; PMID: PMC9797552.
Miguel Angel Seguí Palmer, Miguel Gil Gil, Isabel Álvarez López, Sonia Servitja Tormo, Jose Angel García Saenz, Begoña Bermejo De las Heras, Silvia Antolí Novoa, Carmen Esteban Esteban, Manuel Ruiz Borrego, Juan Lao Romera, Antonio Pinero Madrona, Manuel Algara López, Francisco Javier De Castro García, Jose Palacios Calvo, Jorge Contreras Martínez, Pedro Sánchez Rovira, Ivan Solà Arnau, Juan Carlos Vázquez Niebla, Emilio Alba, Agustí Barnadas, Miguel Martín, Ana Lluch, Álvaro Rodríguez Lescurre, Ángel Montero, Federico Rojo, Julia Giménez, Ana María Rodríguez Arana	"Guía GEICAM de Práctica Clínica Tratamiento Neoadyuvante del Cáncer de Mama"	<a href="https://guia-cancerdemama-neoadyuvancia.geicam.org/home">https://guia-cancerdemama-neoadyuvancia.geicam.org/home</a>





Publications	Total Impact Factor: 678,7	
	Nº	IF
Own publications	21	116,4
Joint publications	51	562,3
First decile publications	13	388,5
First quartile publications	35	541,3
Second quartile publications	18	85,4
Third quartile publications	16	48,1
Fourth quartile publications	3	3,9
Nonindexed publications/No IF	9	–
<b>Total publications (including those without IF)</b>	<b>81</b>	<b>678,7</b>

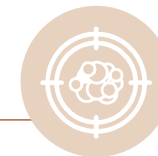
#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports with impact factor**

- Alsar, JS; de la Tabla, AGO; Moran, LO; Martín, AJM. *Treatment modalities in cancer-associated venous thromboembolism (VTE)*. BEST PRACTICE & RESEARCH CLINICAL HAEMATOLOGY. 2022; 35(1). FI: 2.1. Cuartil: 4. (Article).
- Lemos, R; Areias-Marques, S; Ferreira, P; O'Brien, P; Beltran-Jaunsaras, ME; Ribeiro, G; Martín, M; Del Monte-Millan, M; López-Tarruella, S; Massarrah, T; Luis-Ferreira, F; Frau, G; Venios, S; McManus, G; Oliveira-Maia, AJ. *A prospective observational study for a Federated Artificial Intelligence solution for monitoring mental health status after cancer treatment (FAITH): study protocol*. BMC PSYCHIATRY. 2022; 22(1). FI: 4.4. Cuartil: 2. (Article).
- Cottu, P; Ring, A; Abdel-Razek, H; Marchetti, P; Cardoso, F; Bofill, JS; Martín, M; Menon-Singh, L; Wu, JW; De Laurentiis, M. *Ribociclib plus letrozole in subgroups of special clinical interest with hormone receptor-positive, human epidermal growth factor receptor 2-negative advanced*

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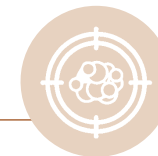




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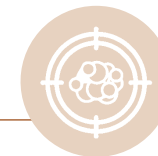
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Group Directors: **JOSÉ LUIS DÍEZ-MARTÍN AND ISMAEL BUÑO BORDE**

Organisms involved: **HGUGM-UCM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Hematology-oncology in adults

- ▶ L1: Transplantation of hematopoietic progenitor cells.
  - 1.1. Transplantation of nonconventional hematopoietic progenitor cells (haploidentical, dual).
  - 1.2. Transplantation of hematopoietic progenitor cells in patients with AIDS.
  - 1.3. Cell therapy (mesenchymal, NK cells, etc.)
  - 1.4. Follow-up of transplantation of hematopoietic progenitors (genetics and flow cytometry).
  - 1.5. Biomarkers for prediction of post-transplant complications (genetic polymorphism, proteins, etc.).
  - 1.6. Gene/cell therapy with CAR-T cells
- ▶ L2: Myeloid neoplasms: Acute myeloid leukemia and myelodysplastic syndrome.
  - 2.1. Treatment with next-generation drugs.
  - 2.2. Genomics of the tumour cell.
  - 2.3. *In vitro* drug resistance studies.
  - 2.4. Cytotoxicity studies with NK.
- ▶ L3: High-grade lymphomas.
  - 3.1. Liquid biopsy (free DNA in plasma) in high-grade lymphomas.

- ▶ L4: Chronic myeloid leukemia.
  - 4.1. Studies on discontinuation of tyrosine kinase inhibitors in chronic myeloid leukemia.
- ▶ L5: Genetics of hematologic neoplasms.
  - 5.1. Genetic markers for diagnosis, prognosis and targeted treatment.
  - 5.2. Genomics of hematologic neoplasms: next-generation sequencing.
  - 5.3. Leukemogenesis models.
  - 5.4. Germ genomic alterations
- ▶ L6: Clinical research (clinical trials).
  - 6.1. Molecular targets in the treatment of hemato-oncology patients.
  - 6.2. Monoclonal antibodies in the treatment of hematology-oncology patients.
  - 6.3. Cell therapy (mesenchymal, NK cells, etc.)
  - 6.4. Gene/cell therapy with CAR-T cells
- ▶ L7: Electronic management of clinical information.

### Axis 2: Paediatric hematology-oncology

- ▶ L1: Hemoglobinopathies. (CSUR de Eritropatología Hereditaria)
  - 1.1. Transplantation of hematopoietic progenitors in hemoglobinopathies
  - 1.2. Clinical monitoring of sickle cell disease from neonatal screening
  - 1.3. Erythrocytapheresis in the Paediatric Sickle Cell Patient
- ▶ L2: Adjuvant therapy in paediatric hematology-oncology.
- ▶ L3: Fanconi anemia.
  - L3.1. Multidisciplinary follow-up in Fanconi's Anemia
- ▶ L4: Solid tumours in children.
- ▶ L5: Leukemia in children.





## Group members

- **Andrés Zayas, Cristina:** R1. First Stage Researcher.
- **Anguita Velasco, Javier:** R3. Established Researcher.
- **Bailén Almorox, Rebeca:** R1. First Stage Researcher.
- **Bastos Oreiro, Mariana Beatriz:** R3. Established Researcher.
- **Bardón Cancho, Eduardo Jesús:** R1. First Stage Researcher.
- **Beléndez Bieler, Cristina:** R3. Established Researcher.
- **Beliz Mendiola, Cristina.**
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- **Buño Borde, Ismael:** R4. Leading Researcher.
- **Carbonell Muñoz, Diego:** R2. Recognised Researcher.
- **Catalá Bardisa, Eva:** R1. First Stage Researcher.
- **Cela de Julián, Elena:** R3. Established Researcher.
- **Chicano Lavilla, María:** R2. Recognised Researcher.
- **De la Iglesia San Sebastián, Ismael:** R1. First Stage Researcher.
- **Díez Martín, José Luis:** R4. Leading Researcher.
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- **Fernández de Córdoba Oñate, Sara:** R1. First Stage Researcher.
- **Font López, Patricia:** R1. First Stage Researcher.
- **García García, Ana María:** Other.
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- **Marco Sánchez, José Manuel:** R1. First Stage Researcher.
- **Martínez García, María:** R1. First Stage Researcher.
- **Martínez Laperche, Carolina:** R3. Established Researcher.
- **Mata Fernández, Cristina:** R3. Established Researcher.
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- **Moreno Carbonell, Marta:** R1. First Stage Researcher.
- **Muñiz Sevilla, Paula:** R1. First Stage Researcher.
- **Muñoz Martínez, Cristina:** Other. Clinical Trial Manager.
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- **Osorio Prendes, Santiago:** R3. Established Researcher.
- **Pascual Izquierdo, Cristina:** R2. Recognised Researcher.
- **Prieto Medina, María del Mar:** R1. First Stage Researcher.
- **Sanz Villanueva, Laura:** R1. First Stage Researcher.
- **Suárez González, Julia:** R2. Recognised Researcher.





### Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European	1			
National	3			
Regional				

- Title: Remote Ischemic Conditioning in Lymphoma Patients Receiving Anthracyclines.’ – ‘RESILIENCE’.** H2020-RESILIENCE-945118  
 Director: Bastos Oreiro, Mariana Beatriz  
 Project type: Research project  
 Funding body: European Commission  
 Start date: 01/06/2021  
 End date: 31/05/2026
- Title: Desarrollo de un sistema de suicidio celular, usando un par toxina-antitoxina, para controlar el síndrome de liberación de citoquinas inducido por células CAR-T in vivo.** PID2019-107545RB-I00  
 Director: Díez Martín, José Luis  
 Project type: Research project  
 Funding body: Ministerio de Economía y Hacienda  
 Start date: 01/06/2020  
 End date: 31/05/2023
- Title: Búsqueda de biomarcadores relacionados con genes del sistema inmune para predecir la eficacia y la toxicidad en pacientes con neoplasias hematológicas tratadas con inmunoterapia basada en el receptor de células T antigénicas quiméricas (CA).** PI20/00521  
 Director: Buño Borde, Ismael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023

- Title: Becas de Investigación de la FEHH.** FEHH01/2021  
 Director: Muñiz Sevilla, Paula  
 Project type: Human resources  
 Funding body: Fundación Española Hematología y Hemoterapia (F.E.H.H.)  
 Start date: 01/01/2022  
 End date: 31/12/2022

### Industrial and intellectual property registrations

#### Copyright

Title	Reference	Owner	Inventors
Herramienta informática para la Gestión Electrónica de la Agenda de Transplante Hematopoyético «gesThrónica»	Nº Asiento Registral: 16/2008/7735	FIBHGM	Pascual Balsalobre, Ismael Buño, José Luis Díez
Panel alloGENOMICS v1.13 – Panel de genes y regiones de interés para su aplicación en el estudio de la influencia de los polimorfismos genéticos en el desarrollo de complicaciones post-trasplante alogénico de progenitores hematopoyéticos (alo-TPH)	Nº Asiento Registral: 16/2014/7306	FIBHGM	Ismael Buño, Milagros González, José Luis Díez, Jorge Gayoso, Carolina Martínez, Elena Bucés, David Serrano, Pascual Balsalobre, Mi Kwon

■ Transferred Intellectual Property.

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
PLATFORM	Plataforma ISCIII de dinamización e innovación de las capacidades industriales del SNS y su transferencia efectiva al sector productivo	Collaborating group





Publications		Total Impact Factor: 362,2
	Nº	IF
Own publications	20	95,9
Joint publications	43	266,3
First decile publications	9	105,8
First quartile publications	28	246,1
Second quartile publications	18	73,7
Third quartile publications	12	31,4
Fourth quartile publications	5	11,0
Nonindexed publications/No IF	5	–
<b>Total publications (including those without IF)</b>	<b>68</b>	<b>362,2</b>

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- Martín-Rojas, RM; Gómez-Centurion, I; Bailén, R; Bastos, M; Díaz-Crespo, F; Carbonell, D; Correa-Rocha, R; Pion, M; Muñoz, C; Sancho, M; Fernández, IG; Oarbeascoa, G; Pérez-Corral, A; Martínez-Laperche, C; Anguita, J; Buno, I; Menárguez, J; Diez-Martín, JL; Kwon, M. *Hemophagocytic lymphohistiocytosis/macrophage activation syndrome (HLH/MAS) following treatment with tisagenlecleucel*. CLINICAL CASE REPORTS. 2022; 10(1). (Article).

### **Other publications**

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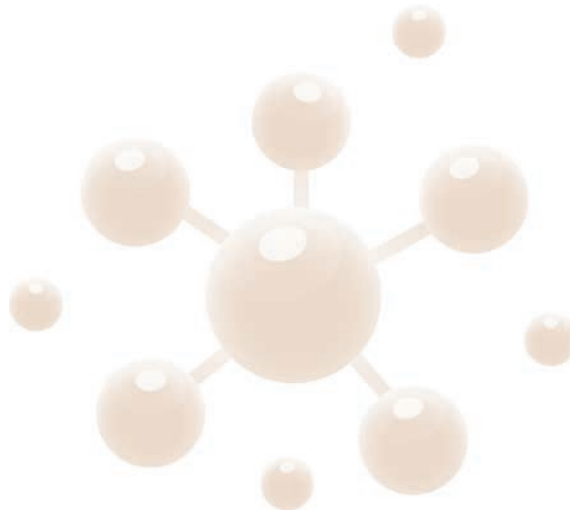


C; Muñoz P; García de Viedma D. *First importations of SARS-CoV-2 P.1 and P.2 variants from Brazil to Spain and early community transmission.* ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(5) 262-265. (Article).

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L; Viedma E; García de Viedma D. *First confirmation of importation and transmission in Spain of the newly identified SARS-CoV-2 B.1.1.7 variant.* ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(10) 546-549. (Article).

- Escobar Castellanos M; de la Mata Navazo S; Carrón Bermejo M; García Morín M; Ruiz Martín Y; Saavedra Lozano J; Miranda Herrero MC; Barredo Valderrama E; Castro de Castro P; Vázquez López M. *Association between neuroimaging findings and neurological sequelae in patients with congenital cytomegalovirus infection.* NEUROLOGIA (BARCELONA, SPAIN). 2022; 37(2) 122-129. (Article).







Group Director: **LUIS GONZÁLEZ-BAYÓN**

Organisms involved: **HGUGM**

Type: **Emerging group**

## Research lines

### Axis 1: Treatment of malignant peritoneal disease (MPD)

- ▶ L1: Natural history of MPD and palliative treatment
- ▶ L2: Imaging study of MPD (funded study)
- ▶ L3: Pharmacokinetics of peritoneally administered drugs and delivery of systemic drugs to the peritoneum

### Axis 2: Treatment of MPD for cure: cytoreduction + hyperthermic intraoperative intraperitoneal chemotherapy (HIPEC)

- ▶ L1: Morbidity and mortality of the procedure
- ▶ L2: Overall and disease-free survival in different tumor types

### Axis 3: Treatment of gastric cancer with carcinomatosis using preoperative bidirectional chemotherapy and cytoreduction + HIPEC

- ▶ L1: Morbidity and mortality of the procedure
- ▶ L2: Overall and disease-free survival

## Group members

- **González Bayón, Luis:** R4. Leading Researcher.
- **Lozano Lominchar, Pablo.**
- **Palencia García, Natividad.**
- **Vasquez Jiménez, Wenceslao:** R3. Established Researcher.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 18,8

	Nº	IF
Own publications	3	11,1
Joint publications	3	7,7
First decile publications	0	-
First quartile publications	4	14,5
Second quartile publications	1	3,8
Third quartile publications	0	0,0
Fourth quartile publications	1	0,5
Nonindexed publications/No IF	3	–
<b>Total publications (including those without IF)</b>	<b>9</b>	<b>18,8</b>







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

- Román, LM; Lominchar, PL; Baratti, D; Vasquez, W; Bayon, LG. *ASO Author Reflections: Predicting Prognosis in Patients with Pseudomyxoma*. ANNALS OF SURGICAL ONCOLOGY. 2022; 29(12) 7553-7563. FI: 3.7. Cuartil: 1. (Article).
- Román, LM; Lozano, P; Baratti, D; Kusamura, S; Deraco, M; Vasquez, W; Bayon, LG. *Validation of a Nomogram to Predict Recurrence in Patients with Mucinous Neoplasms of the Appendix with Peritoneal Dissemination After Cytoreductive Surgery and HIPEC*. ANNALS OF SURGICAL ONCOLOGY. 2022; 29(12) 7566-7567. FI: 3.7. Cuartil: 1. (Editorial Material).
- Román, LM; Lozano, P; Baratti, D; Kusamura, S; Deraco, M; Vasquez, W; Bayon, LG. *ASO Visual Abstract: Validation of a Nomogram to Predict Recurrence in Patients with Mucinous Neoplasms of the Appendix with Peritoneal Dissemination after Cytoreductive Surgery and HIPEC*. ANNALS OF SURGICAL ONCOLOGY. 2022; 29(12) 7564-7565. FI: 3.7. Cuartil: 1. (Editorial Material).
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### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Román, LM; Martínez, MF; Prosperi, A; Lozano, P; Vasquez, W; Palencia, N; Bayon, LG. *Multimodal approach of leiomyosarcoma of the inferior vena cava: case report and literature review of main points of controversy*. CHIRURGIA-ITALY. 2022; 35(5) 291-298. (Review).
- Ruiz-Minaya, M; Mendizabal-Vicente, E; Vasquez-Jiménez, W; Pérez-Burrel, L; Aracil-Moreno, I; Agra-Pujol, C; Bernal-Claverol, M; Martínez-Bernal, BL; Muñoz-Fernández, M; Morote-González, M; Ortega, MA; Lizarraga-Bonelli, S; De León-Luis, JA. *Retrospective Analysis of Patients with Gynaecological Uterine Sarcomas in a Tertiary Hospital*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Article).

### **Other publications**

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# AREA 7

## SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

Area coordinator:

**Rafael Bañares Cañizares**

The Area of Systemic Diseases comprises a broad spectrum of mainly clinical research groups. Its most fruitful research lines range from acute and chronic kidney failure to the biology of aging, covering fields such as the pathophysiology of liver and digestive diseases and abdominal organ transplantation. In addition, some of the groups in the Area participate in cooperative research structures funded by the ISCIII, such as the Centro de Investigación Biomédica en Red: Enfermedades Hepáticas y Digestivas (CIBEREHD [*Networked Center for Biomedical Research in Liver and Digestive Diseases*]) and have made a relevant contribution to the development and implementation of clinical practice guidelines or participate in and lead international cooperative academic projects, especially in South America. Similarly, some groups in the Area support European technology projects investigating home application of diagnostic tools and treatment for elderly patients.

The Area of Systemic Diseases is clearly heterogeneous, although several specific axes of activity can be defined.

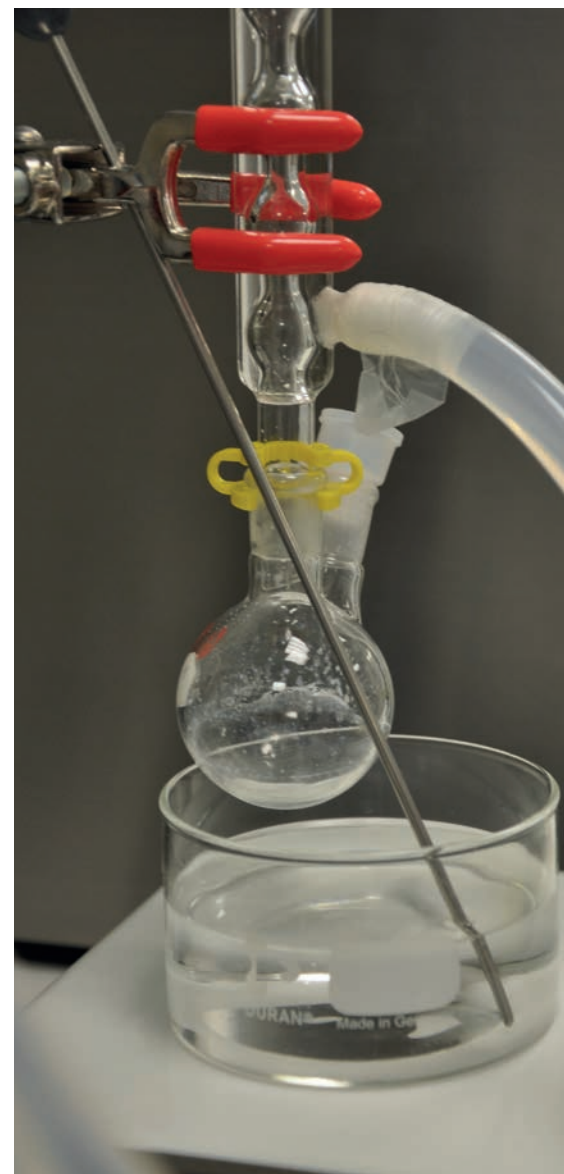
The first is the clear increase in scientific output and its quality, with preference for emerging groups. The second involves promotion of translational research, by bringing research support platforms and services to clinical groups. Rapid solutions to research problems can only be found through a gradual process of addressing clinical issues in the laboratory. In the third axis, appropriate support and advice enable scaled application of researchers and groups for competitive funding calls, with the aim not only of obtaining financial support but also of addressing evaluations in an enriching competitive environment. Lastly, the Area aims to develop objectives in undergraduate and post-graduate training with the implementation of predoctoral programs in the various groups.

Of note, two new groups joined this Research Area in 2022, Group 7.16B. Pathophysiology of the cardiovascular system and circulatory support, directed by M<sup>a</sup> Begoña Quintana and Juan Francisco del Cañizo and Group 7.35 Translational dermatology: Research and innovation, directed by Ana Pulido Pérez and Marta Bergón Sendín.

# Groups in AREA 7

## SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

- ▶ 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. Perianesthetic 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 diseases and health services. Primary Care
- ▶ 7.35. Translational dermatology: Research and innovation



Photography: María Guembe



Group Director: **MARÍA DE LOS ÁNGELES GOICOECHEA DIEZHANDINO**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Research in Acute Renal Failure

- ▶ L1: Searching 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 HI-PEC-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

### Axis 2: CKD progression

- ▶ L1: Role of colchicine in CKD progression
- ▶ L2: RAAS blockers in elderly CKD patients without albuminuria
- ▶ L3: CKD aetiology and progression
- ▶ L4: Chronic kidney disease prevention and risk stratification

### Axis 3: Haemodialysis and complications

- ▶ L1: Clearance of protein-bound uremic toxins of medium molecular weight: HFR
- ▶ 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: Vascular access

- ▶ L1: Impact of isometric physical exercise in radiocephalic AVFs

### Axis 5: Peritoneal dialysis and home haemodialysis

- ▶ L1: Implementation of new modalities of home dialysis
- ▶ L2: Efficacy of peritoneal dialysis in refractory heart failure patients

### Axis 6: Covid-19

- ▶ L1: Short- and long-term efficacy of vaccination against SARS-COV2 in patients with CKD, dialysis and renal transplantation: SENCOVAC study.

### Axis 7: Acute renal failure

- ▶ L1: Acute renal failure code in hospitalisation
- ▶ L2: Protective role of rasburicase in acute renal failure after heart surgery
- ▶ L3: Acute renal failure in hypertensive disorders of pregnancy
- ▶ L4: Mortality and prognosis of patients presenting with acute renal failure in hospitalisation

### Axis 8: Glomerular Pathology

- ▶ L1: FSGMAC-02: Identification of mutations in the MAFB gene in patients with podocytopathies. Analysis of the effect of these mutations in functional and transcriptional polarization human macrophages.
- ▶ L2: TUBULO01 – Markers of tubular damage in protein nephropathies, historical correlation and progression of chronic renal disease.

### Axis 9: ERC Genetics

- ▶ L1: GENSEN study: Identification of genetic mutations in patients with CKD of non-inherited aetiology





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: RD21/0005/0029. 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, 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.

## Group members

- **Abad Estébanez, Soraya:** R2. Recognised Researcher.
- **Anaya Fernández-Lomana, Fernando:** R3. Established Researcher.
- **Arroyo Rueda, David:** R2. Recognised Researcher.
- **Barraca Núñez, Daniel:** R1. First Stage Researcher.
- **Blanco Collado, David:** R1. First Stage Researcher.
- **Carbayo López de Pablos, Javier:** R1. First Stage Researcher.
- **García Prieto, Ana María:** R2. Recognised Researcher.
- **Goicoechea Diezhandino, María de los Ángeles:** R3. Established Researcher.
- **González-Nicolás González, María Ángeles:** R1. First Stage Researcher.
- **Lázaro Fernández, Alberto:** R3. Established Researcher.
- **Macías Carmona, Nicolás:** R2. Recognised Researcher.
- **Martín Sánchez, Beatriz:** R2. Recognised Researcher.
- **Melero Martín, Rosa:** R1. First Stage Researcher.
- **Pérez de José, Ana María:** R2. Recognised Researcher.
- **Rengel Aranda, Manuel Antonio:** R3. Established Researcher.
- **Rodríguez Benítez, Patrocinio:** R3. Established Researcher.
- **Rodríguez Ferrero, María Luisa:** R2. Recognised Researcher.
- **Sánchez Cámara, Luis Alberto:** R1. First Stage Researcher.
- **Tejedor Bravo, Marta:** R1. First Stage Researcher.
- **Vega Martínez, María Almudena:** R2. Recognised Researcher.
- **Verdalles Guzmán, Úrsula:** R2. Recognised Researcher.
- **Verde Moreno, Eduardo:** R2. Recognised Researcher.



## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	4			
Regional			1	

- Title: **El control de la apoptosis renal bloquea el inflamasoma y evita el daño orgánico a distancia.** PI20/01577  
 Director: Lázaro Fernández, Alberto  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Intervenciones sobre las balsas de colesterol epiteliales derivadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/00276  
 Director: Lázaro Fernández, Alberto  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022
- Title: **Proteccion renal en el paciente politraumatizado.** FMM20/03  
 Director: Lázaro Fernández, Alberto  
 Project type: Research project  
 Funding body: Fundación Mutua Madrileña  
 Start date: 05/08/2020  
 End date: 31/12/2022

- Title: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatías pigmentosas. paludismo y rabdomiolisis** SENEFRO18/01  
 Director: Lázaro Fernández, Alberto  
 Project type: Research project  
 Funding body: Fundación Senefro  
 Start date: 01/01/2019  
 End date: 31/12/2022
- Title: **Predoctoral contract.** PEJD-2019-PRE/BMD-16978  
 Director: Lázaro Fernández, Alberto  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid.  
 Start date: 01/02/2020  
 End date: 11/03/2022

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos	PCT/ES 2008 070137 (8 patents)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas
Cilastatin for use in the treatment of sepsis	EP 16382299.2 (12 patents)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Blanca Humanes, M <sup>a</sup> Ángeles González-Nicolás

■ Transferred Industrial Property.

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







## Copyright

Title	Reference	Owner	Inventors
NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal	Nº Asiento Registral: 16/2016/989	FIBHGM	Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, M <sup>a</sup> Luisa Martín, M <sup>a</sup> Ángeles Goicoechea, Eduardo Verde, José Luño

■ Transferred Intellectual Property.

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RICORS	Red de Investigación Cooperativa Orientada a resultados en salud: RICORS2040 KIDNEY DISEASE	Associated group
Others	Consorcio para la Investigación del Fracaso Renal Agudo: Fisiopatología, Nuevas Terapias, Biomarcadores y Modelos Experimentales.	Associated group

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Alba Santos García	Optimizar la hemodiálisis: anticoagulación del circuito extracorpóreo y elección del dializador	Almudena Vega Martínez/Juan Manuel López-Gómez/Manuel Praga Terente	UCM	28/11/2022
Ph Thesis	María Ángeles González-Nicolás González	Cilastatina en la prevención y tratamiento del fracaso renal agudo parenquimatoso de origen endotóxico: sepsis y rhabdomiolisis	Alberto Lázaro Fernández	UCM	27/04/2022

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Rafael García-Maseta, Jordi Bovera, Julián Segura de la Morenab, Marian Goicoechea Diezhandinoa, Jesús Cebollada del Hoyoc, Javier Escalada San Martínd, Lorenzo Fácila Rubioe, Javier Gamarra Ortizf, Jose A. García-Donaireb, Lisardo García-Mataríng, Sílvia Gràcia Garcia, María Isabel Gutiérrez Pérezi, Julio Hernández Morenof, Pilar Mazón Ramose, Rosario Montañés Bermudezh, Manuel Muñoz Torresd, Pedro de Pablos-Velascoj, Manuel Pérez-Maraverj, Carmen Suárez Fernándezc, Salvador Tranche Iparraguirreij, José Luis Górriza	Documento de información y consenso para la detección de la ERC	Nefrología 2022; 42:233-264

## Publications

Total Impact Factor: 130,3

	Nº	IF
Own publications	5	17,3
Joint publications	21	113,0
First decile publications	3	37,4
First quartile publications	13	91,9
Second quartile publications	4	17,5
Third quartile publications	7	17,8
Fourth quartile publications	2	3,1
Nonindexed publications/No IF	6	-
<b>Total publications (including those without IF)</b>	<b>32</b>	<b>130,3</b>

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

- Boada, M; López, OL; Olazarán, J; Nunez, L; Pfeffer, M; Puente, O; Pinol-Ripoll, G; Gamez, JE; Anaya, F; Kiprov, D; Alegret, M; Grifols, C; Barcelo, M; Bozzo, J; Szczepiorkowski, ZM; Paez, A; AMBAR Trial Grp. *Neuropsychological, neuropsychiatric, and quality-of-life assessments in Alzheimer's disease patients treated with plasma exchange with albumin replacement from the randomized AMBAR study.* ALZHEIMERS & DEMENTIA. 2022; 18(7) 1314-1324. FI: 14. Cuartil: 1. (Article).





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- González-Fernández, R; González-Nicolas, MA; Morales, M; Avila, J; Lazaro, A; Martín-Vasallo, P. *FKBP51, AmotL2 and IQGAP1 Involvement in Cilastatin Prevention of Cisplatin-Induced Tubular Nephrotoxicity in Rats*. CELLS. 2022; 11(9). FI: 6. Cuartil: 2. (Article).
- Quiroga, B; Soler, MJ; Ortiz, A; Orero, E; Tejedor, S; Mantecon, CJJ; Pérez, VOG; Franco, AJM; Sánchez, CA; Carretero, MP; Rodríguez, MTJ; Di Riso, MAC; Martínez, S; González, CC; Cervienka, M; Carmona, NM; Arroyo, D; del Valle, KMP; de Arriba, G; Mazuecos, A; Cazorla, JM; Pereira, M; Parra, EG; Márquez, MGS; Novillo, CL; Ruiz, CT; Cervera, MCA; Ramos, PM; Horrillo, AS; Martín, IJ; Toapanta, N; Guldreis, SC; López, MF; San Cecilio, R; Linaza, BV; Pesquera, IM; Estupinan, RS; Zamora, R; Soriano, S; de Bustillo, EM; Sánchez, MSP; Puerto, AIM; Yugueros, A; Pacios, LM; Leyva, A; Rojas, J; Gansevoort, RT; de Sequera, P. *Humoral Response to Third Dose of SARS-CoV-2 Vaccines in the CKD Spectrum*. CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY. 2022; 17(6) 872-876. FI: 9.8. Cuartil: 1. (Letter).
- Tantisattamo, E; Imhof, C; Jager, KJ; Hilbrands, LB; Guidotti, R; Islam, M; Katicic, D; Konings, C; Molenaar, FM; Nistor, I; Noordzij, M; Ferrero, MLR; Verhoeven, MAM; de Vries, APJ; Kalantar-Zadeh, K; Gansevoort, RT; Vart, P. *Association of obesity with 3-month mortality in kidney failure patients with COVID-19*. CLINICAL KIDNEY JOURNAL. 2022; 15(6) 1196-1201. FI: 4.6. Cuartil: 1. (Article).
- Toapanta, N; Jiménez, S; Molina-Gómez, M; Maruri-Kareaga, N; Llinas-Mallol, L; Villanego, F; Facundo, C; Rodríguez-Ferrero, M; Montero, N; Vázquez-Sánchez, T; Gutiérrez-Dalmau, A; Beneyto, I; Franco, A; Hernández-Vicente, A; Pérez-Tamajon, ML; Martín, P; Ramos-Verde, AM; Castañeda, Z; Bestard, O; Moreso, F. *Induction immunosuppression and outcome in kidney transplant recipients with early COVID-19 after transplantation*. CLINICAL KIDNEY JOURNAL. 2022; 15(11) 2039-2045. FI: 4.6. Cuartil: 1. (Article).
- Caravaca-Fontan, F; Rivero, M; Cavero, T; Díaz-Encarnacion, M; Cabello, V; Ariceta, G; Quintana, LF; Marco, H; Barros, X; Ramos, N; Rodríguez-Mendiola, N; Cruz, S; Fernández-Juarez, G; Rodríguez, A; de Jose, AP; Rabasco, C; Rodado, R; Fernández, L; Pérez-Gómez, V; Avila, A; Bravo, L; Espinosa, N; Allende, N; de la Nieta, MDS; Rodríguez, E; Olea, T; Melgosa, M; Huerta, A; Miquel, R; Mon, C; Fraga, G; de Lorenzo, A; Draibe, J; González, F; Shabaka, A; López-Rubio, ME; Fenollosa, MA; Martín-Penagos, L; Da Silva, I; Titos, JA; de Córdoba, SR; de Jorge, EG; Praga, M. *Development and validation of a nomogram to predict kidney survival at baseline in patients with C3 glomerulopathy*. CLINICAL KIDNEY JOURNAL. 2022; 15(7) 1348-1360. FI: 4.6. Cuartil: 1. (Article).
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- Moreno-Ruperez, A; Priego, T; González-Nicolas, MA; López-Calderon, A; Lazaro, A; Martín, AI. *Role of Glucocorticoid Signaling and HDAC4 Activation in Diaphragm and Gastrocnemius Proteolytic Activity in Septic Rats*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2022; 23(7). FI: 5.6. Cuartil: 1. (Article).
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- Bolufer, M; García-Carro, C; Blasco, M; Quintana, LF; Shabaka, A; Rabasco, C; Draibe, J; Merino, A; Melero, MR; Alonso, F; Buxeda, A; Batalha, P; Visus, MT; Soler, MJ. *Kidney Biopsy in Patients with Cancer along the Last Decade: A Multicenter Study*. JOURNAL OF CLINICAL MEDICINE. 2022; 11(10). FI: 3.9. Cuartil: 2. (Article).





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Virgala, JM; González, MG; Barreiro, JML; Fontan, MP; González, AO; Barja, LMC; Barreiro, AS; Arias, BP; Hernández, AA; Pérez, MP; Varela, JC; Lechuga, JA; Rodríguez, CD; Murias, MG; de la Iglesia, AMB; Pineiro, PB; Eijo, AC; Cachaza, NC; González, MV; Blanch, NL; Martínez, AMS; Val, MH; Draibe, JB; Melilli, E; Montero, AM; Pérez, NM; Oliveras, XF; Barrio, MC; Santos, JP; Barrera, CB; Saez, MJP; Pachon, MDR; Cabrales, CA; Porras, AB; García, ER; González, VP; Mallol, LL; Oliva, MR; Puyol, DR; Torres, MPR; Ongil, SL; Basilio, LC; Centenera, GO; de Miguel, PM; Rodríguez, LF; Nadah, HB; Fernández, MP; Chamond, MRR; Ortiz, PS; Fernández, NG; Boillos, AB; Cenarruzabeitia, NV; Seara, MAF; Dorronsoro, ID; Moreno, PM; Lavilla, FJ; Torres, A; Miranda, DM; Hernández, APR; Redondo, ED; Porrini, E; Caso, MDC; Tamajon, MLP; Hernández, MR; Rebollo, MSG; Mallen, PD; González, AA; Rinne, AMG; Rodríguez, RM; Torres, SE; Sosa, DA; Cabrera, BE; Rodríguez, NZ; Hernández, AF; Gamboa, MJR; de los Angeles, CCM; Lourdes, PTM; Margarita, RH; Sagrario, GRM; Patricia, DM; Alejandra, AG; María, GRA; Rosa, MR; Sara, ET; Diego, AS; Beatriz, EC; Nayara, ZR; Arminda, FH; Jose, RGM; Bermejo, MLG; Lucas, MF; Moreno, EC; Muñoz, LS; Huertas, SS; Serrano, EMR; Muñoz, MER; Toro, LC; Agudo, CPB; Álvarez, CG; Portoles, J; Marques, M; Rubio, E; Sánchez-Sobrinó, B; García-Menéndez, E; Fernández, AL; Benitez, PR; González, MAGN; Gallardo, ML; Juárez, GMF; Martínez, EG; Terente, MP; Ribera, AT; Escribano, TC; Fontan, FC; Fernández, AS; Pérez-Monteoliva, NRR; Huerta, EL; Rodríguez, GG; Hernández, SB; Zamorano, SM; Gómez, JML; González, AG; AIRG-E; EKPF; ALCER; FRIAT; REDINREN; ONT; RICORS2040; SENEPRO; SET. *CKD: The burden of disease invisible to research funders*. NEFROLOGIA. 2022; 42(3) 223-232. FI: 2.6. Cuartil: 3. (Editorial Material).

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- Duivenvoorden, R; Vart, P; Noordzij, M; dos Santos, ACS; Zulkarnaev, AB; Franssen, CFM; Kuypers, D; Demir, E; Rahimzadeh, H; Kerschbaum, J; Jager, KJ; Turkmen, K; Hemmelder, MH; Schouten, M; Rodríguez-Ferrero, ML; Crespo, M; Gansevoort, RT; Hilbrands, LB. *Clinical, Functional, and Mental Health Outcomes in Kidney Transplant Recipients 3 Months After a Diagnosis of COVID-19*. TRANSPLANTATION. 2022; 106(5) 1012-1023. FI: 6.2. Cuartil: 1. (Article).

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- Grossi, MSM; Saucó, IA; Strub, AA; Morales, EM; Diezhandino, MG; Ramos, JML. *Vascular access management during the COVID-19 pandemic period*. ANGIOLOGIA. 2022; 74(1) 5-12. (Article).

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- Melero R; Mijaylova A; Rodríguez-Benítez P; García-Prieto A; Cedeño J; Goicochea M. *Mortality and renal long-term outcome of critically*

*ill COVID-19 patients with acute kidney failure, continuous renal replacement therapy and invasive mechanical ventilation*. MEDICINA CLINICA (ENGLISH ED.). 2022; 159(11) 529-535. (Article).

- Goicochea M; Álvarez V; Segarra A; Polaina M; Martín-Reyes G; Robles NR; Escudero V; Orellana C; Bea Granell S; de Juan-Ribera J; Fernández Lucas M; Graña JM; Reque J; Sánchez Hernández R; Villamayor S; Górriz JL. *Lipid profile of patients treated with evolocumab in Spanish hospital nephrology units (RETOSS NEFRO)*. NEFROLOGIA. 2022; 42(3) 223-232. (Editorial Material).
- Martínez-Villaescusa M; Aguado-García Á; López-Montes A; Martínez-Díaz M; Gonzalvo-Díaz C; Pérez-Rodríguez A; Pedrón-Megías A; García-Arce L; Sánchez-Sáez P; García-Martínez C; Azaña-Rodríguez A; García-Martínez AB; Andrés-Pretel F; Botella-Romero F; Vega-Martínez A; Giménez Bachs JM; León-Sanz M. *New approaches in the nutritional treatment of advanced chronic kidney disease*. NEFROLOGIA. 2022; 42(4) 448-459. (Article).
- Bover J; Bosch R; Luis Górriz J; Ureña P; Ortiz A; daSilva I; García-Trabanino RA; Hueso M; Trinidad P; Jara A; Furlano M; Gelpi R; Vila-Santandreu A; Restrepo CA; Sánchez-Baya M; Arana C; Goicochea M; Coll V; Segura J; Gutiérrez O; Kalantar-Zadeh K; Sánchez E; Ferreiro A; García-Maset R. *Kidneys also speak Spanish: Initiatives towards standardisation of our nephrology nomenclature*. NEFROLOGIA. 2022; 42(1) 85-93. (Article).
- de la Oliva Valentín M; Hernández D; Crespo M; Mahillo B; Beneyto I; Martínez I; Kanter J; Calderari E; Gil-Vernet S; Sánchez S; Agüera ML; Bernal G; de Santiago C; Díaz-Corte C; Díaz C; Espinosa L; Facundo C; Fernández-Lucas M; Ferreiro T; García-Erauzkin G; García-Álvarez T; Fraile P; González-Rinne A; González-Soriano MJ; González E; Gutiérrez-Dalmau A; Jiménez C; Lauzurica R; Lorenzo I; Martín-Moreno PL; Moreso F; de Gracia MC; Pérez-Flores I; Ramos-Verde A; Revuelta I; Rodríguez-Ferrero ML; Ruiz JC; Sánchez-Sobrinó B; Domínguez-Gil B. *Live donor kidney transplantation. Situation analysis and roadmap*. NEFROLOGIA. 2022; 42(3) 301-310. (Article).



Group Director: **RAFAEL BAÑARES CAÑIZARES**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

### Research lines

- ▶ L1: Complications of cirrhosis: natural history of liver cirrhosis
- ▶ L2: Pathophysiology of the intestinal barrier and mucosal inflammation
- ▶ L3: Hepatocellular carcinoma
- ▶ L4: Viral hepatitis
- ▶ L5: Liver regeneration
- ▶ L6: Liver transplantation
- ▶ L7: Digestive endoscopy

This is a translational, multidisciplinary research group with clinical and basic research lines aimed globally at understanding the natural history and physiopathology of liver and digestive diseases.

Specifically, the research lines focus, in the case of liver diseases in cirrhosis and its complications, especially those derived from portal hypertension, artificial liver support, liver transplantation and liver cancer. In the field of gastroenterology, the group focuses on inflammatory bowel disease and the study of intestinal permeability and its regulatory mechanisms.

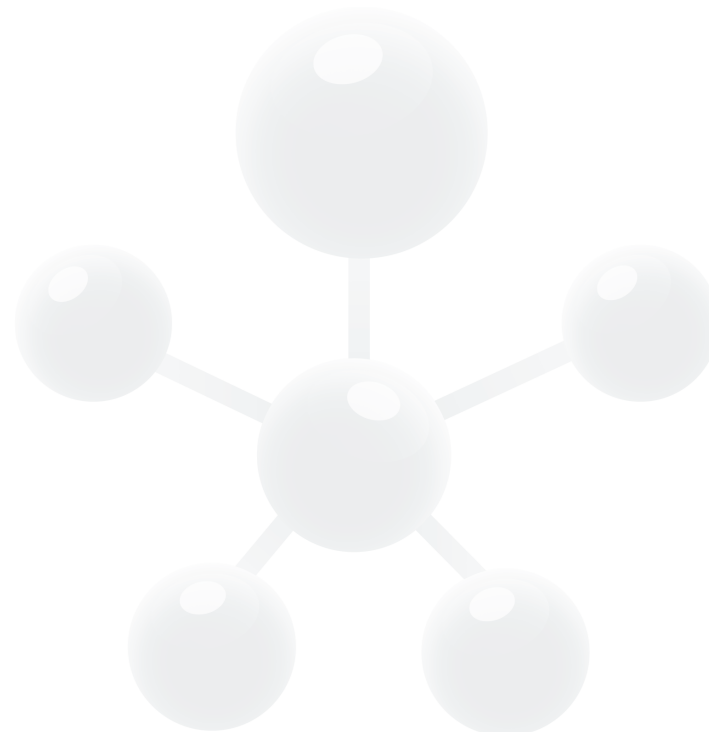
The group includes several principal investigators with overlapping funding in competitive public and private calls, and also carries out a considerable number of phase II-III clinical trials. Among the latest projects, it is worth mentioning the inclusion of the first patients in a project H2020 (ALIVER Project) aimed at the clinical assessment of a new artificial liver support device.

The group also acts as the coordinating group for the EXOHEP-CM program, aimed at studying cellular communication by exosomes and other extracellular vesicles, granted for the creation of networks between

Research Groups in Technology and Biomedicine of the Community of Madrid, and as the group responsible for the NanoLiver-CM program aimed at the application of nanotechnology and biomedical imaging in liver disease granted in the call for synergetic R&D projects of the Community of Madrid, both co-financed with FEDER and European Social Fund funds.

The group is part of the CIBER of hepatic and digestive diseases since its inception.

It also stands out for its marked teaching vocation, both undergraduate and graduate.







## Group members

- **Ahumada Jiménez, Adriana María:** R1. First Stage Researcher.
- **Alonso López, Sonia:** R2. Recognised Researcher.
- **Aranda Hernández, Javier:** R1. First Stage Researcher.
- **Asensio García, Iris:** R1. First Stage Researcher.
- **Balarezo Saldivar, Alejandra Estefanía:** Other. Lab Technician.
- **Bañares Cañizares, Rafael:** R4. Leading Researcher.
- **Blázquez López, Elena:** R1. First Stage Researcher.
- **Borobia Sánchez, Rodrigo:** R1. First Stage Researcher.
- **Caballero Marcos, Arantxa:** R1. First Stage Researcher.
- **Carbonell Blanco, Carlos:** R1. First Stage Researcher.
- **Carrión Martín, Laura:** R1. First Stage Researcher.
- **Catalina Rodríguez, María de la Vega:** R1. First Stage Researcher.
- **Clemente Sánchez, Ana:** R1. First Stage Researcher.
- **Conthe Alonso, Andrés:** R1. First Stage Researcher.
- **Cubero Palacio, Francisco Javier:** R3. Established Researcher.
- **De Gracia Fernández, Celia:** R1. First Stage Researcher.
- **Díaz Fontenla, Fernando:** R1. First Stage Researcher.
- **Díaz Gómez, Arantxa:** R1. First Stage Researcher.
- **Díaz Ruiz, Raquel:** R1. First Stage Researcher.
- **Fernández Yunquera, Ainhoa:** R1. First Stage Researcher.
- **Flores García, Virginia:** R1. First Stage Researcher.
- **Franco Herrera, Carolina:** R1. First Stage Researcher.
- **García Martínez, Rita:** R2. Recognised Researcher.
- **García Lledó, Javier:** R1. First Stage Researcher.
- **Hernando Alonso, Ana Isabel:** R2. Recognised Researcher.

- **Ibáñez Samaniego, Luis:** R1. First Stage Researcher.
- **López Ibáñez, María:** R1. First Stage Researcher.
- **López Cauce, Beatriz:** R1. First Stage Researcher.
- **Marín Jiménez, Ignacio:** R1. First Stage Researcher.
- **Márquez Pérez, Laura:** R1. First Stage Researcher.
- **Martín Guerra, María Rocío:** R1. First Stage Researcher.
- **Martínez Lozano, Helena:** R1. First Stage Researcher.
- **Martos Vizcaino, Esperanza:** R1. First Stage Researcher.
- **Matilla Peña, Ana María:** R2. Recognised Researcher.
- **Menchen Viso, Luis Alberto:** R3. Established Researcher.
- **Merino Rodríguez, Beatriz:** R1. First Stage Researcher.
- **Miranda Bautista, José:** R1. First Stage Researcher.
- **Nevzorova Yulia, Alexandrovna:** R3. Established Researcher.
- **Nogales Rincón, Óscar:** R1. First Stage Researcher.
- **Pajares Díaz, José Antonio:** R1. First Stage Researcher.
- **Pérez Carazo, Leticia:** R1. First Stage Researcher.
- **Puerto Cantero, Marta:** R2. Recognised Researcher.
- **Rincón Rodríguez, Diego:** R2. Recognised Researcher.
- **Romero Cristobal, Mario:** R1. First Stage Researcher.
- **Rubio Caballero, Carmen:** R1. First Stage Researcher.
- **Ruiz Martín, Christian:** Other. Research Support Technician.
- **Salcedo Plaza, Magdalena:** R2. Recognised Researcher.
- **Secadas Rincón, Laura:** Other. Research Nurse.
- **Sierra Rojas, Johanna:** Other. Management.
- **Vaquero Martín, Javier:** R3. Established Researcher.
- **Vázquez Ogando, Elena:** R1. First Stage Researcher.





### Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	6		2	
Regional	2		1	

- 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 Martín, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2022  
End date: 31/12/2024
- Title: **Evaluación de la capacidad diagnóstica y pronóstica de la biopsia hepática en la insuficiencia hepática crónica agudizada (ACLF): un abordaje 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: 31/12/2024
- Title: **Proliferación fibroadiposa del mesenterio en la enfermedad de Crohn: relevancia clínica y patogénica.** PI19/01746  
Director: Menchén Viso, Luis Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria sistémica.** PI18/01901

Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 30/06/2023

- Title: **Fusión celular y comunicación celular por exomas en la enfermedad y regeneración hepática.** PI18/01833  
Director: Vaquero Martín, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2023
- Title: **Nuevas aplicaciones de la nanotecnología en la enfermedad hepática crónica.** Y2018/NMT-4949-1  
Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Consejería de Educación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 30/06/2022
- Title: **Comunicación por exomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727  
Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Consejería de Educación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 30/06/2022
- 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: 16/06/2024





- Title: Young employment contract. PEJ2018-003826-A**  
 Director: Bañares Cañizares, Rafael  
 Project type: Human Resources  
 Funding body: Ministerio de Economía y Hacienda  
 Start date: 01/11/2019  
 End date: 31/03/2022
- Title: Río Hortega contract. CM19/00247**  
 Director: Caballero Marcos, Aránzazu  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/12/2019  
 End date: 23/06/2022
- Title: Young employment contract. Laboratory Technician. PEJ-2020-TL/BMD-18995**  
 Director: Vaquero Martín, Javier  
 Project type: Human Resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/03/2021  
 End date: 28/02/2023

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Method for predicting response to beta blockers	EP 19382971.0	FIBHGM, IDIBAPS, CIBIOGUNE, FIBloHRC, UAH, CIBERHED	Rafael Bañares, Jorge Gracia, Juan Manuel Falcón, Agustín Albillos

■ Transferred Industrial Property.

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

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	CIBER Enfermedades Hepáticas y Digestivas. CIBEREHD	Collaborating group

Publications	Total Impact Factor: 443,4	
	Nº	IF
Own publications	19	93,6
Joint publications	40	349,8
First decile publications	18	258,2
First quartile publications	34	361,6
Second quartile publications	13	58,1
Third quartile publications	3	8,1
Fourth quartile publications	9	15,6
Nonindexed publications/No IF	2	-
<b>Total publications (including those without IF)</b>	<b>61</b>	<b>443,4</b>

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

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- Tellez, L; Rodríguez, ES; de Santiago, ER; Llovet, L; Gómez-Outomuro, A; Díaz-Fontenla, F; López, PA; García-Eliz, M; Amaral, C; Sánchez-Torrijos, Y; Fortea, JI; Ferre-Aracil, C; Rodríguez-Peralvarez, M; Abadia, M; Gómez-Camarero, J; Oliveira, A; Calleja, JL; Crespo, J; Romero, M; Hernández-Guerra, M; Berenguer, M; Riveiro-Braciela, M; Salcedo, M; Rodríguez, M; Londono, MC; Albillos, A. *Early predictors of corticosteroid response in acute severe autoimmune hepatitis: A nationwide multicenter study*. *ALIMENTARY PHARMACOLOGY & THERAPEUTICS*. 2022; 56(1) 131-143. FI: 7.6. Cuartil: 1. (Article).





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Group Director: **JESÚS LÓPEZ-HERCE CID**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Pathology of the critically ill child

- ▶ L1: Cardio-respiratory arrest and cardiopulmonary resuscitation in childhood
- ▶ L2: Treatment of acute renal failure in the critically ill child
- ▶ L3: Haemodynamic monitoring and tissue perfusion and treatment of shock
- ▶ 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: Advanced medical simulation
- ▶ L8: Anaemia and transfusions in the critically ill child

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.

## Group members

- **Alcón Nájera, Sara:** R1. First Stage Researcher.
- **Butragueño Laiseca, Laura:** R1. First Stage Researcher.
- **Cieza Asenjo, Raquel:** R1. First Stage Researcher.
- **Cordero Martínez, Marta:** R1. First Stage Researcher.
- **De la Mata Navazo, Sara:** R1. First Stage Researcher.
- **Del Castillo Peral, Jimena:** R3. Established Researcher.
- **Fernández Lafever, Sarah Nicole:** R2. Recognised Researcher.
- **García San Prudencio, Myriam:** R1. First Stage Researcher.
- **Garrido Gaspar, Beatriz:** R1. First Stage Researcher.
- **González Cortés, Rafael:** R3. Established Researcher.
- **Herrera Castillo, Laura Ximena:** R1. First Stage Researcher.
- **López González, Jorge:** R3. Established Researcher.
- **López-Herce Cid, Jesús:** R4. Leading Researcher.
- **Manrique Martín, Gema:** R1. First Stage Researcher.
- **Mencía Bartolomé, Santiago:** R3. Established Researcher.
- **Moreno Leira, Daniel:** R1. First Stage Researcher.
- **Rodríguez Martínez, Alicia:** R1. First Stage Researcher.
- **Sánchez Sánchez, César:** R3. Established Researcher.
- **Sánchez Galindo, Amelia:** R1. First Stage Researcher.
- **Santiago Lozano, María José:** R3. Established Researcher.
- **Sanz Álvarez, Debora:** R1. First Stage Researcher.
- **Slocker Barrio, María:** R1. First Stage Researcher.
- **Solana García, María José:** R3. Established Researcher.
- **Urbano Villaescusa, Javier:** R3. Established Researcher.
- **Vilchez, Rodríguez, Beatriz:** R1. First Stage Researcher.







## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	1			
European				
National	7		4	
Regional				

- Title: **ASCEND (ARDS in Children and ECMO initiation strategies impa.** NIH-2020/PAF01099  
 Director: Butragueño Laiseca, Laura  
 Project type: Research project  
 Funding body: National Institutes of Health (NIH)  
 Start date: 05/09/2020  
 End date: 30/06/2023
- Title: **Influencia de la modalidad de ventilación y la inflamación sobre el pronóstico en un modelo de experimental animal pediátrico de parada cardíaca.** 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: 31/12/2024
- Title: **Ensayo clínico controlado aleatorizado sobre el tratamiento profiláctico del estreñimiento con polietilenglicol con electrolitos en el niño crítico.** PI20/01339  
 Director: López González, Jorge  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023
- 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: 31/12/2023
- 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: 31/12/2023
- Title: **Efectos de la resucitación con albumina hipertónica y nuevas drogas vasoactivas en un modelo animal infantil de shock hemorrágico.** PI20/01706  
 Director: Urbano Villaescusa, Javier  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023
- Title: **Estudio clínico y experimental de parada cardíaca y reanimación cardiopulmonar en pediatría.** PI18/01632  
 Director: López-Herce Cid, Jesús  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 30/06/2023
- Title: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248  
 Director: Santiago Lozano, María José





Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022

- Title: **Río Hortega contract.** CM19/00203  
 Director: López-Herce Cid, Jesús (Manrique Martín, Gema)  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/12/2019  
 End date: 23/09/2022
- Title: **Río Hortega contract.** CM21/00223  
 Director: López-Herce Cid, Jesús (Butragueño Laiseca, Laura)  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2022  
 End date: 31/12/2023
- Title: **Juan Rodés contract.** JR19/00023  
 Director: González Cortés, Rafael  
 Funding body: Instituto de Salud Carlos III  
 Type of Project: Human resources  
 Start date: 29/01/2020  
 End date: 28/01/2024
- Title: **Juan Rodés contract.** JR21/00023  
 Director: Fernández Lafever, Sarah Nicole  
 Funding body: Instituto de Salud Carlos III  
 Type of Project: Human resources  
 Start date: 01/01/2022  
 End date: 31/12/2025

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua	P 2013 30340	FIBHGM - Universidad de Santiago de Compostela - SERGAS	Jesús López-Herce, Santiago Mencía, Antonio Rodríguez

■ Transferred Industrial Property.  
 \* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).

### Copyright

Title	Reference	Owner	Inventors
Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos	Nº Asiento Registral: 16/2011/7360	FIBHGM	Amelia Caridad Sánchez y Silvia Manrique Rodríguez

■ Transferred Intellectual Property.

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RICORS	Primary Care Interventions to Prevent Maternal and child Chronic Diseases of Perinatal and Developmental Origin	Collaborating group





## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Gema Manrique Martín	Efectos de la ventilación y la calidad de las compresiones torácicas durante la reanimación cardiopulmonar en un modelo animal pediátrico de parada cardiorrespiratoria asfíctica	Jesús López-Herce Cid/ Javier Urbano Villaescusa	UCM	23/05/2022
Ph Thesis	María Slocker Barrio	Estudio sobre la sepsis pediátrica en el marco del registro ENVIN-HELICS. utilidad de los paquetes de medidas terapéuticas en el manejo de la sepsis grave y el shock séptico pediátrico.	Jesús López-Herce Cid/ Santiago Mencía Bartolomé	UCM	08/09/2022

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Brossier DW, Tume LN, Briant AR, Jotterand Chaparro C, Moulet C, Rooze S, Verbruggen SCAT, Marino LV, Alsohime F, Beldjilali S, Chiusolo F, Costa L, Didier C, Iliá S, Joram NL, Kneyber MCJ, Kühlwein E, López J, López-Herce J, Mayberry HF, Mehmeti F, Mierzewska-Schmidt M, Miñambres Rodríguez M, Morice C, Pappachan JV, Porcheret F, Reis Boto L, Schlapbach LJ, Tekguc H, Tziouvas K, Parienti JJ, Goyer I, Valla FV; Metabolism Endocrinology and Nutrition section of the European Society of Pediatric and Neonatal Intensive Care (ESPNIC).	ESPNIC clinical practice guidelines: intravenous maintenance fluid therapy in acute and critically ill children- a systematic review and meta-analysis.	Intensive Care Med. 2022 Dec;48(12):1691-1708. doi: 10.1007/s00134-022-06882-z.
Fernández-Sarmiento J, De Souza DC, Martínez A, Nieto V, López-Herce J, Soares Lanzotti V, Arias López MDP, De Carvalho WB, Oliveira CF, Jaramillo- Bustamante JC, Díaz F, Yock-Corrales A, Ruvinsky S, Munaico M, Pavlicich V, Iramain R, Márquez MP, González G, Yunge M, Tonial C, Cruces P, Palacio G, Grela C, Slöcker-Barrio M, Campos-Miño S, González-Dambrasas S, Sánchez-Pinto NL, Celiny García P, Jabornisky R.	Latin American Consensus on the Management of Sepsis in Children: Sociedad Latinoamericana de Cuidados Intensivos Pediátricos [Latin American Pediatric Intensive Care Society] (SLACIP) Task Force: Executive Summary	J Intensive Care Med. 2022 Jun; 37(6):753-763. doi:10.1177/08850666211054444.
Argudo E, Hernández-Tejedor A, Belda Hofheinz S, Fuset MP, Sánchez Galindo A, Burgueño P, Ballcells J, Duerto J, Morales Martínez A, Martínez-Martínez M, Morteruel Arizcuren E, Pérez F, Díaz Vico A, Rubio Mateo-Sidrón JA.	Spanish Society of Intensive and Critical Care Medicine and Coronary Units (SEMICYUC) and the Spanish Society of Pediatric Intensive Care (SECIP) consensus recommendations for ECMO transport.	Med Intensiva (Engl Ed). 2022 Aug;46(8):446-454. doi: 10.1016/j.medine.2022.06.005.



Publications	Total Impact Factor: 118,9	
	Nº	IF
Own publications	13	47,6
Joint publications	10	71,3
First decile publications	3	59,6
First quartile publications	6	72,3
Second quartile publications	10	29,2
Third quartile publications	7	17,4
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	4	–
<b>Total publications (including those without IF)</b>	<b>27</b>	<b>118,9</b>

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

- Rodríguez-Fernández, R; González-Martínez, F; Pérez-Moreno, J; González-Sánchez, MI; Navazo, SD; del Castillo, BT; Lozano, JS; Espinosa, LV; Pérez, SM; Berlanga, MM; Mejias, A; Ramilo, O. *Clinical Phenotype of Respiratory Syncytial Virus Bronchiolitis before and during the Coronavirus Disease 2019 Pandemic*. AMERICAN JOURNAL OF PERINATOLOGY. 2022;. FI: 2. Cuartil: 3. (Article).
- Pena-López, Y; Campins-Martí, M; Slocker-Barrio, M; Bustinza, A; Alexandre, C; Jordan-García, I; Ortiz-Álvarez, A; López-Castilla, JD; Pérez, E; Schuffelmann, C; García-Besteiro, M; Sánchez-Pérez, S; Arjona, D; Coca-Pérez, A; De Carlos, JC; Flores-González, JC; Mendizabal, M; Sánchez-Granados, JM; Martínez-Padilla, MC; Pérez, R; Abril-Molina, A; Tejada, S; Roca, D; Serrano-Megias, M; Rello, J. *Ventilator-associated events in children: A multicentre prospective cohort study*. ANAESTHESIA CRITICAL CARE & PAIN MEDICINE. 2022; 41(3). FI: 5.5. Cuartil: 1. (Article).
- López-Herce, J; Manrique, I; Calvo, C; Rodríguez, A; Carrillo, A; Sebastián, V; del Castillo, J; Grp Espanol Reanimation Cardiopulm. *Novelties in the*

*paediatric cardiopulmonary resuscitation recommendations and lines of development in Spain*. ANALES DE PEDIATRIA. 2022; 96(2) 175-176. FI: 2.1. Cuartil: 3. (Letter).

- López-Herce, J; Manrique, I. *Novelties in pediatric cardiopulmonary resuscitation recommendations. Authors reply*. ANALES DE PEDIATRIA. 2022; 96(2). FI: 2.1. Cuartil: 3. (Article).
- Cieza-Asenjo, R; García-Morin, M; Escobar-Fernández, L; Cela-de Julian, E; Slocker-Barrio, M; Herrera-Castillo, L. *Sickle cell disease in pediatric intensive care*. ANALES DE PEDIATRIA. 2022; 97(1) 61-62. FI: 2.1. Cuartil: 3. (Letter).
- Fresan-Ruiz, E; Izurieta-Pacheco, AC; Girona-Alarcón, M; de Carlos-Vicente, JC; Bustinza-Arriortua, A; Slocker-Barrio, M; Belda-Hofheinz, S; Nieto-Moro, M; Uriona-Tuma, SM; Pinos-Tella, L; Morteruel-Arizcuren, E; Schuffelmann, C; Pena-López, Y; Bobillo-Pérez, S; Jordan, I. *Antimicrobial Stewardship Improvement in Pediatric Intensive Care Units in Spain-What Have We Learned?*. CHILDREN-BASEL. 2022; 9(2). FI: 2.4. Cuartil: 2. (Article).
- Manrique, I; Calvo, C; Carrillo, A; Sebastián, V; Manrique, G; López-Herce, J. *Evaluation of Pediatric Immediate Life Support Courses by the Students*. CHILDREN-BASEL. 2022; 9(6). FI: 2.4. Cuartil: 2. (Article).
- Fresan-Ruiz, E; Pons-Tomas, G; De Carlos-Vicente, JC; Bustinza-Arriortua, A; Slocker-Barrio, M; Belda-Hofheinz, S; Nieto-Moro, M; Uriona-Tuma, SM; Pinos-Tella, L; Morteruel-Arizcuren, E; Schuffelmann, C; Pena-López, Y; Bobillo-Pérez, S; Jordan, I. *Device Exposure and Patient Risk Factors' Impact on the Healthcare-Associated Infection Rates in PICUs*. CHILDREN-BASEL. 2022; 9(11). FI: 2.4. Cuartil: 2. (Review).
- Mencia, S; Alonso, C; Pallas-Alonso, C; López-Herce, J. *Evaluation and Treatment of Pain in Fetuses, Neonates and Children*. CHILDREN-BASEL. 2022; 9(11). FI: 2.4. Cuartil: 2. (Article).
- Butragueno-Laiseica, L; Marco-Arino, N; Troconiz, IF; Grau, S; Campillo, N; García, X; Padilla, B; Fernández, SN; Slocker, M; Santiago, MJ. *Population pharmacokinetics of piperacillin in critically ill children including those undergoing continuous kidney replacement therapy*. CLINICAL MICROBIOLOGY AND INFECTION. 2022; 28(9). FI: 14.2. Cuartil: 1. (Article).





- Wang, ZJ; Zhao, SY; Tang, YY; Wang, ZL; Shi, QL; Dang, XY; Gan, LD; Peng, S; Li, WG; Zhou, Q; Li, QY; Mafiana, JJ; Cortes, RG; Luo, ZX; Liu, EM; Chen, YL. *Potentially effective drugs for the treatment of COVID-19 or MIS-C in children: a systematic review*. EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(5) 2135-2146. FI: 3.6. Cuartil: 1. (Review).
- Navazo, SD; Barrio, MS; García-Morin, M; Belendez, C; Fernández, LE; Rincon-López, EM; Alonso, DA; Guinea, J; Marin, M; Butragueno-Laiseca, L; Cid, JLH. *Case Report: Severe ARDS in a Pediatric Hematopoietic Stem-Cell Transplantation Recipient Caused by Disseminated Toxoplasmosis*. FRONTIERS IN PEDIATRICS. 2022; 9 795487-795487. FI: 2.6. Cuartil: 2. (Article).
- Tapia, R; López-Herce, J; Arias, A; del Castillo, J; Mencia, S. *Validity and Reliability of the Richmond Agitation-Sedation Scale in Pediatric Intensive Care Patients: A Multicenter Study*. FRONTIERS IN PEDIATRICS. 2022; 9. FI: 2.6. Cuartil: 2. (Article).
- Brossier, DW; Tume, LN; Briant, AR; Chaparro, CJ; Moullet, C; Rooze, S; Verbruggen, SCAT; Marino, LV; Alsohime, F; Beldjilali, S; Chiusolo, F; Costa, L; Didier, C; Illia, S; Joram, NL; Kneyber, MCJ; Kuhlwein, E; López, J; López-Herce, J; Mayberry, HF; Mehmeti, F; Mierzewska-Schmidt, M; Rodríguez, MM; Morice, C; Pappachan, JV; Porcheret, F; Boto, LR; Schlapbach, LJ; Tekguc, H; Tziouvas, K; Parienti, JJ; Goyer, I; Valla, FV. *ESPNIC clinical practice guidelines: intravenous maintenance fluid therapy in acute and critically ill children- a systematic review and meta-analysis*. INTENSIVE CARE MEDICINE. 2022; 48(12) 1691-1708. FI: 38.9. Cuartil: 1. (Review).
- Fernández-Sarmiento, J; De Souza, DC; Martínez, A; Nieto, V; López-Herce, J; Lanziotti, VS; López, MDA; De Carvalho, WB; Oliveira, CF; Jaramillo-Bustamante, JC; Díaz, F; Yock-Corrales, A; Ruvinsky, S; Munaico, M; Pavlicich, V; Iramain, R; Márquez, MP; González, G; Yunge, M; Tonial, C; Cruces, P; Palacio, G; Grela, C; Slocker-Barrio, M; Campos-Mino, S; González-Dambrauskas, S; Sánchez-Pinto, NL; García, PC; Jabornisky, R. *Latin American Consensus on the Management of Sepsis in Children: Sociedad Latinoamericana de Cuidados Intensivos Pediátricos [Latin American Pediatric Intensive Care Society] (SLACIP) Task Force: Executive Summary*. JOURNAL OF INTENSIVE CARE MEDICINE. 2022; 37(6) 753-763. FI: 3.1. Cuartil: 3. (Article).
- Pérez, G; González, E; Zamora, L; Fernández, SN; Sánchez, A; Bellon, JM; Santiago, MJ; Solana, MJ. *Early Enteral Nutrition and Gastrointestinal Complications in Pediatric Patients on Extracorporeal Membrane Oxygenation*. JOURNAL OF PEDIATRIC GASTROENTEROLOGY AND NUTRITION. 2022; 74(1) 110-115. FI: 2.9. Cuartil: 2. (Article).
- Argudo, E; Hernández-Tejedor, A; Hofheinz, SB; Fuset, MP; Galindo, AS; Burgueno, P; Ballcels, J; Duerto, J; Martínez, AM; Martínez-Martínez, M; Arizcuren, EM; Pérez, F; Vico, AD; Mateo-Sidron, JAR. *Spanish Society of Intensive and Critical Care Medicine and Coronary Units (SEMICYUC) and the Spanish Society of Pediatric Intensive Care (SECIP) consensus recommendations for ECMO transport Abstract*. MEDICINA INTENSIVA. 2022; 46(11) 650-651. FI: 3. Cuartil: 3. (Letter).
- Solana, MJ; Manrique, G; López, J; Slocker, M; López-Herce, J. *Gastric residual volume management in pediatric intensive care units in Spain and Latin America*. MEDICINA INTENSIVA. 2022; 46(8) 446-454. FI: 3. Cuartil: 3. (Article).
- Castellanos, ME; Navazo, SM; Bermejo, MC; Morin, MG; Martín, YR; Lozano, JS; Herrero, MCM; Valderrama, EB; de Castro, PC; López, MV. *Association between neuroimaging findings and neurological sequelae in patients with congenital cytomegalovirus infection*. NEUROLOGIA. 2022; 37(2) 122-129. FI: 3.9. Cuartil: 2. (Article).
- Pena-Moreno, A; Torres-Soblechero, L; López-Blázquez, M; Butragueno-Laiseca, L. *Fatal Staphylococcus Aureus Endocarditis Misdiagnosed as Multisystem Inflammatory Syndrome in Children*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(2) 58-59. FI: 3.6. Cuartil: 1. (Article).
- Fernández, SN; López, J; González, R; Solana, MJ; Urbano, J; Aguado, A; Lancharro, A; López-Herce, J; Santiago, MJ. *Doppler ultrasound in the assessment of renal perfusion before and during continuous kidney replacement therapy in the pediatric intensive care unit*. PEDIATRIC NEPHROLOGY. 2022; 37(12) 3205-3213. FI: 3. Cuartil: 2. (Article).
- Lauridsen KG; Lasa JJ; Raymond TT; Yu P; Niles D; Sutton RM; Morgan RW; Fran Hazinski M; Griffis H; Hanna R; Zhang X; Berg RA; Nadkarni VM. *Association of chest compression pause duration prior to E-CPR cannulation with cardiac arrest survival outcomes*. RESUSCITATION. 2022; 177 85-92. FI: 6.5. Cuartil: 1. (Article).



- Butragueno-Laiseca, L; Martín, GM; Cortes, RG; Galán, CR; de Marigorta, ZMDM; Anton, JG; Nunez, AR; Fernández-Llamazares, CM; Manrique-Rodríguez, S; Cid, JLH. *Multicenter randomized clinical trial comparing dexamethasone versus placebo in preventing upper airway obstruction after extubation in critically ill children*. SCIENTIFIC REPORTS. 2022; 12(1). FI: 4.6. Cuartil: 2. (Article).

### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Fernández, SN; Toledo, B; Cebrian, J; Pérez-Caballero, R; López-Herce, J; Mencia, S. *Continuous Incisional Lidocaine in Pediatric Patients following Open Heart Surgery*. BIOMED RESEARCH INTERNATIONAL. 2022; 2022. (Article).

### **Other publications**

- López-Herce J; Manrique I; Calvo C; Rodríguez A; Carrillo A; Sebastián V; Del Castillo J. *Novelties in the pediatric cardiopulmonary resuscitation recommendations and lines of development in Spain*. ANALES DE PEDIATRIA. 2022; 96(2). (Article).
- Escobar Castellanos M; de la Mata Navazo S; Carrón Bermejo M; García Morín M; Ruiz Martín Y; Saavedra Lozano J; Miranda Herrero MC; Barredo Valderrama E; Castro de Castro P; Vázquez López M. *Association between neuroimaging findings and neurological sequelae in patients with congenital cytomegalovirus infection*. NEUROLOGIA (BARCELONA, SPAIN). 2022; 37(2) 122-129. (Article).
- ALCON, S. *Reflections on sensitive research: research and care in populations in a situation of extreme vulnerability*. REVISTA METAS DE ENFERMERÍA. 2022; 25/8 5-6. (Article).





*Group Directors:* **LUIS PUENTE MAESTU  
AND IGNACIO GARUTTI MARTÍNEZ**

*Organisms involved:* **HGUGM**

*Type:* **Consolidated Group**

## Research lines

### Axis 1: Prevention of respiratory complications of Surgery

- ▶ L1: Pharmacological measures for the prevention of acute lung injury after lung resection surgery.
- ▶ L2: Optimisation of one-lung ventilation
- ▶ L3: Prevention of postoperative complications after mechanical ventilation in non-cardiothoracic surgery.

### Axis 2: Epidemiology of respiratory diseases

- ▶ L1: Historical evolution of hospital admissions due to respiratory diseases analysis of the CMBD
- ▶ L2: predictive model of obesity in OSAHS (GENOBIA)

### Axis 3: Sleep Respiratory Disturbances

- ▶ 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 cough treatment Gepixant (MK-7264-042 and 043) and Eliapixant.
- ▶ L3: Development of antifibrotic medication for IPF
- ▶ L4: Development of biological medication for eosinophilic asthma
- ▶ L5: Development of anti-inflammatory drugs for the treatment of bronchiectasis.

### Axis 5: Experimental model of lung transplantation

- ▶ L1: Organ preservation.

### Axis 6: Treatment of COPD patients with cardiopathy

- ▶ L1: Impact of respiratory drugs on cardiac function in COPD patients with low ejection fraction

### Axis 7: Monitoring of patients with sleep-disordered breathing and chronic respiratory failure

- ▶ L1: Mechanical simulation of respiratory therapies and their effect on lung dynamics

### Axis 8: Neuroanatomics of the larynx

- ▶ L1: Laryngeal anatomical variability
- ▶ L2: Laryngeal reinnervation

It is a multidisciplinary group consisting of anaesthesiologists, thoracic surgeons and pulmonologists, with interests in furthering 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.







## Group members

- **Benedetti, Paola Antonella:** R2. Recognised Researcher.
- **Caballero Segura, Francisco José:** R1. First Stage Researcher.
- **Casanova Barea, Javier.**
- **Cerezo Lajas, Alicia:** R1. First Stage Researcher.
- **Cruz Pardos, Patricia.**
- **De la Gala García, Francisco Andrés.**
- **De Miguel Díez, Javier:** R4. Leading Researcher.
- **Fuentes Alonso, Marta:** R2. Recognised Researcher.
- **Gallo González, Virginia:** R1. First Stage Researcher.
- **García de Pedro, Julia:** R3. Established Researcher.
- **García López, José Javier:** R3. Established Researcher.
- **Garutti Martínez, Ignacio:** R4. Leading Researcher.
- **Girón, Matute, Walther Iván:** R3. Established Researcher.
- **Gómez García, María Teresa:** R3. Established Researcher.
- **Gómez Sacristán, Ángela:** R3. Established Researcher.
- **González Moraga, Francisco José.**
- **González Casaurrán, Guillermo.**
- **Hernández Yañez, Margarita.**
- **Huerta Martínez, Luis Javier.**
- **López Padilla, Daniel Eduardo:** R4. Leading Researcher.
- **López Martín, Soledad:** R4. Leading Researcher.
- **López Gil, Elena.**
- **Maranillo Alcaide, Eva.**
- **Martínez Gascueña, David.**
- **Ojeda Castillejo, Elena:** R2. Recognised Researcher.
- **Oliva Ramos, Alicia:** R2. Recognised Researcher.
- **Paredes Royano, Sergio.**

- **Pedraza Serrano, Fernando:** R2. Recognised Researcher.
- **Piñeiro Otero, Patricia.**
- **Puente Maestu, Luis:** R4. Leading Researcher.
- **Puig Ramos, Ángela:** Other.
- **Rancan, Lisa.**
- **Reyes Fierro, Almudena.**
- **Rojas, Moreno-Tomé, Rosa María:** R1. First Stage Researcher.
- **Sánchez Muñoz, Gema:** R2. Recognised Researcher.
- **Sánchez Pedrosa, Guillermo.**
- **Sanz Sanz, María del Pilar:** R1. First Stage Researcher.
- **Sañudo Tejedo, Jose Ramón.**
- **Simón Adiego, Carlos María.**
- **Terán Marcos, Raquel:** R1. First Stage Researcher.
- **Vara Ameigeiras, Elena.**
- **Vázquez Osorio, María Teresa.**
- **Zichen, Ji:** R3. Established Researcher.

## Research Projects – Competitive Calls

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





- Title: Impacto de la administración de lidocaina intravenosa o paraver-tebral durante el intraoperatorio de la cirugía de resección pulmonar.**  
PI18/01305  
Director: GARUTTI MARTÍNEZ, IGNACIO  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/ obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM) S2017/BMD-3773**  
Director: PUENTE MAESTU, LUIS  
Project type: Research project  
Funding body: Consejería de Educación d Investigación. Comunidad de Madrid  
Start date: 30/01/2018  
End date: 01/07/2023

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Dispositivo protector bucal con depresor lingual	P 2015 31508 (2 patents)	FIBHGM	Guillermo Juan Rodríguez, Javier Casanova

■ Transferred Industrial Property.

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

## Copyright

Title	Reference	Owner	Inventors
PK-GUIDE: Guía para monitorización clínica de fármacos	Nº Asiento Registral: 16/2017/6956	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, M <sup>a</sup> Luisa Galiano, Margarita Ganzo, María Sanjurjo, M <sup>a</sup> Teresa Vidán
PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética	Nº Asiento Registral: 16/2017/6957	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, M <sup>a</sup> Luisa Galiano, Margarita Ganzo, María Sanjurjo, M <sup>a</sup> Teresa Vidán

■ Transferred Intellectual Property.

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
Others	Red GENOBIA-CM: Diseño, mediante inteligencia artificial, de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas. Aportación del análisis genético.	Associated group





### Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Christian Reynaldo Castro Riera	Correlación entre los valores de FEV1 y DLCO con el V02max como predictores de morbimortalidad en pacientes sometidos a resección pulmonar debido a cáncer de pulmón	Luis Puente Maestu/Javier de Miguel	UCM	15/02/2022
Ph Thesis	Celia Pinedo Sierra	Estudio de la relación entre el síndrome de apneas-hipopneas del sueño y el síndrome del párpado laxo*	Javier de Miguel/José Manuel Fernández Sánchez-Alarcos	UCM	17/02/2022
Ph Thesis	Marta Fuentes Alonso	Estudio de la epidemiología de la EPOC en España a través de encuestas poblacionales de salud*	Javier de Miguel/María Isabel Jiménez Trujillo		20/06/2022

### Publications

Total Impact Factor: 241,2

	Nº	IF
Own publications	11	52,8
Joint publications	25	188,4
First decile publications	1	76,2
First quartile publications	10	142,2
Second quartile publications	23	93,3
Third quartile publications	1	2,8
Fourth quartile publications	2	2,9
Nonindexed publications/No IF	4	–
<b>Total publications (including those without IF)</b>	<b>40</b>	<b>241,2</b>

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

- González, VG; López-Padilla, D; Maestu, LP. *Pulmonary Calcifications as COVID-19 Pneumonia Sequelae*. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(3) 228-236. FI: 8. Cuartil: 1. (Article).
- De la Rosa Carrillo D; Martínez-García MÁ; Barreiro E; Tabernero Huguet E; Costa Sola R; García-Clemente MM; Celorrio Jiménez N; Rodríguez Pons L; Calero Acuña C; Rodríguez Hermosa JL; Golpe R; Dacal Quintas R; Sánchez-Cuellar S; Torres Arroyo I; Blanco Aparicio M; Almadana Pacheco V; Miravittles M. *Effectiveness and Safety of Inhaled Antibiotics in Patients With Chronic Obstructive Pulmonary Disease. A Multicentre Observational Study*. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(3) 256-256. FI: 8. Cuartil: 1. (Editorial Material).
- de Antonio, DG; Carrasco, SC; Román, AR; Royuela, A; Calle, AS; Fornell, CO; Caja, SC; Embun, R; Royo, I; Recuero, JL; Cabanero, A; Moreno, N; Bolufer, S; Congregado, M; Jiménez, MF; Aguinagalde, B; Amor-Alonso, S; Arraras, MJ; Orozco, AIB; Boada, M; Cal, I; Ramos, AC; Fernández-Martín, E; García-Barajas, S; García-Jiménez, MD; García-Prim, JM; García-Salcedo, JA; Gelbenzu-Zazpe, JJ; Giraldo-Ospina, CF; Hernández, MTG; Hernández, J; Wolf, JDI; Abularach, AJ; Jiménez, U; Sanz, IL; Martínez-Hernández, NJ; Martínez-Tellez, E; Collado, LM; Poce, RM; Moradiellos-Diez, FJ; Moreno-Basalobre, R; Merino, SBM; Quero-Valenzuela, F; Ramirez-Gil, ME; Ramos-Izquierdo, R; Rivo, E; Rodríguez-Fuster, A; Rojo-Marcos, R; Sánchez-Lorente, D; Moreno, LS; Simon, C; Trujillo-Reyes, JC; García, CL; Alfara, JF; Romero, JS; Trancho, FH. *Surgical Risk Following Anatomic Lung Resection in Thoracic Surgery: A Prediction Model Derived From a Spanish Multicenter Database*. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(1) 11-21. FI: 8. Cuartil: 1. (Article).
- Masa, JF; Benitez, ID; Sánchez-Quiroga, MA; de Terreros, FJG; Corral, J; Romero, A; Caballero-Eraso, C; Ordax-Carbajo, E; Troncoso, MF; González, M; López-Martín, S; Marin, JM; Marti, S; Díaz-Cambriles, T; Chiner, E; Egea, C; Barca, J; Vázquez-Polo, FJ; Negrin, MA; Martel-Escobar, M; Barbe, F; Mokhlesi, B. *Effectiveness of CPAP vs. Noninvasive Ventilation Based on Disease Severity in Obesity Hypoventilation Syndrome and Concomitant*





- Severe Obstructive Sleep Apnea. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(5) 398-405. FI: 8. Cuartil: 1. (Article).
- López-de-Andrés, A; Jiménez-García, R; Hernández-Barrera, V; de Miguel-Diez, J; De-Miguel-Yanes, JM; Omana-Palanco, R; Carabantes-Alarcón, D. *Time trends (2001-2019) and sex differences in incidence and in-hospital mortality after lower extremity amputations among patients with type 1 diabetes in Spain.* CARDIOVASCULAR DIABETOLOGY. 2022; 21(1). FI: 9.3. Cuartil: 1. (Article).
  - López-de-Andrés, A; Jiménez-García, R; Hernández-Barrera, V; de-Miguel-Diez, J; De-Miguel-Yanes, JM; Martínez-Hernández, D; Carabantes-Alarcón, D; Zamorano-León, JJ; Noriega, C. *Sex-related disparities in the incidence and outcomes of infective endocarditis according to type 2 diabetes mellitus status in Spain, 2016-2020.* CARDIOVASCULAR DIABETOLOGY. 2022; 21(1). FI: 9.3. Cuartil: 1. (Article).
  - Casaburi, R; Merrill, D; Dolmage, T; García-Aymerich, J; Fageras, M; Goldstein, R; Harding, G; Leidy, NK; Maltais, F; O'Donnell, D; Porszasz, J; Puente-Maestu, L; Rennard, S; Sciurba, F; Spruit, MA; Tal-Singer, R; Tetzlaff, K; Van't Hul, A; Yu, R; Hamilton, A. *Endurance Time During Constant Work Rate Cycle Ergometry in COPD: Development of an Integrated Database From Interventional Studies.* CHRONIC OBSTRUCTIVE PULMONARY DISEASES-JOURNAL OF THE COPD FOUNDATION. 2022; 9(4) 520-537. FI: 2.4. Cuartil: 4. (Article).
  - Orue-Echebarria, MI; Vaquero, J; Vara, E; Rancan, L; Lozano, P; Lisbona, CJ; Laso, J; Fernández-Mena, C; Olmedilla, L; Peligros, I; García-Sabrido, JL; Asencio, JM. *Mechanisms of regenerative preconditioning in pigs with subtotal hepatectomies Mecanismos del acondicionamiento regenerativo en hepatectomías subtotales en modelo porcino.* CIRUGIA Y CIRUJANOS. 2022; 90 61-69. FI: 0.5. Cuartil: 4. (Article).
  - Cabañero Sánchez A; Muñoz Molina GM; Fra Fernández S; Muriel García A; Cilleruelo Ramos A; Martínez Hernández N; Hernando Trancho F; Moreno Mata N. *Impact of neoadjuvant therapy on postoperative complications in non-small-cell lung cancer patients subjected to anatomic lung resection.* EJSO. 2022; 48(9) 1947-1953. FI: 3.8. Cuartil: 1. (Article).
  - Kharat, A; Ribeiro, C; Er, B; Fisser, C; López-Padilla, D; Chatzivasiloglou, F; Heunks, LMA; Patout, M; D'Cruz, RF. *ERS International Congress 2021: highlights from the Respiratory Intensive Care Assembly.* ERJ OPEN RESEARCH. 2022; 8(2). FI: 4.6. Cuartil: 2. (Article).
  - de Miguel-Diez, J; Jiménez-García, R; Hernández-Barrera, V; De Miguel-Yanes, JM; Carabantes-Alarcón, D; Zamorano-León, JJ; López-de-Andrés, A. *Obesity survival paradox in patients hospitalized with community-acquired pneumonia. Assessing sex-differences in a population-based cohort study.* EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2022; 98 98-104. FI: 8. Cuartil: 1. (Article).
  - de-Miguel-Diez, J; López-de-Andrés, A; Hernández-Barrera, V; De-Miguel-Yanes, JM; Carabantes-Alarcón, D; Ji, ZC; Zamorano-León, JJ; Jiménez-García, R. *Sex-differences in incidence of hospitalizations and in hospital mortality of community-acquired pneumonia among children in Spain: a population-based study.* EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(7) 2705-2713. FI: 3.6. Cuartil: 1. (Article).
  - Somoza-Fernández, B; Ribed-Sánchez, A; Martín-Lozano, S; de Vega-San Vicente, FM; Menéndez-Tarin, R; Giménez-Manzorro, A; Sanz-Ruiz, P; Garutti-Martínez, I; Herranz-Alonso, A; Vaquero-Martín, J; Sanjurjo-Saez, M. *Implementation of an enhanced recovery after surgery program including a patient school: Impact on quality of life results.* INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2022; 53(12) 3987-3992. FI: 2.5. Cuartil: 2. (Article).
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  - Soler-Cataluna, JJ; Maestu, LP; Rodríguez, MR; Esteban, C; Gea, J; Mora, RB; Cobo, EP; Ancochea, J; García-Rio, F. *Validation of the Spanish Activity Questionnaire in COPD (SAQ-COPD) in Patients with Chronic Obstructive Pulmonary Disease.* INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2022; 17 2835-2846. FI: 2.8. Cuartil: 3. (Article).
  - Mendez-Bailon, M; Lorenzo-Villalba, N; Jiménez-García, R; Hernández-Barrera, V; de Miguel-Yanes, JM; de Miguel-Diez, J; Muñoz-Rivas, N; Andrés, E; López-de-Andrés, A. *Clinical Characteristics, Management,*





and In-Hospital Mortality in Patients with Heart Failure with Reduced Ejection Fraction According to Sex and the Presence of Type 2 Diabetes Mellitus. JOURNAL OF CLINICAL MEDICINE. 2022; 11(9). FI: 3.9. Cuartil: 2. (Article).

- Fuentes-Alonso, M; Jiménez-García, R; López-de-Andrés, A; Zamorano-León, JJ; Carabantes-Alarcón, D; Jiménez-Trujillo, I; Sanz-Rojo, S; de Miguel-Diez, J. *Time Trends (2012-2020), Sex Differences and Predictors for Influenza Vaccination Uptake among Individuals with Chronic Obstructive Pulmonary Disease in Spain.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(13). FI: 3.9. Cuartil: 2. (Article).
- de Miguel-Yanes, JM; Jiménez-García, R; de Miguel-Diez, J; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; Omana-Palanco, R; López-de-Andrés, A. *Impact of Type 2 Diabetes Mellitus on the Incidence and Outcomes of COVID-19 Needing Hospital Admission According to Sex: Retrospective Cohort Study Using Hospital Discharge Data in Spain, Year 2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(5). FI: 3.9. Cuartil: 2. (Article).
- Zamorano-León, JJ; Jiménez-García, R; López-de-Andrés, A; de-Miguel-Diez, J; Carabantes-Alarcón, D; Albaladejo-Vicente, R; Villanueva-Orbaiz, R; Zekri-Nechar, K; Sanz-Rojo, S. *Low Levels of Influenza Vaccine Uptake among the Diabetic Population in Spain: A Time Trend Study from 2011 to 2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(1). FI: 3.9. Cuartil: 2. (Article).
- López-de-Andrés, A; Jiménez-García, R; Hernández-Barrera, V; de Miguel-Diez, J; De Miguel-Yanes, JM; Omana-Palanco, R; Carabantes-Alarcón, D. *Trends of Non-Traumatic Lower-Extremity Amputation and Type 2 Diabetes: Spain, 2001-2019.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(21). FI: 3.9. Cuartil: 2. (Article).
- de Miguel-Diez, J; Jiménez-García, R; de Miguel-Yanes, JM; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; Noriega, C; López-de-Andrés, A. *Impact of the COVID-19 Pandemic on the Use and Outcomes of Cardiac Procedures in COPD Patients.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(4). FI: 3.9. Cuartil: 2. (Article).
- De Miguel-Yanes, JM; Jiménez-García, R; de Miguel-Diez, J; Hernández-Barrera, V; Mendez-Bailon, M; Zamorano-León, JJ; López-de-Andrés, A. *The Influence of Atrial Fibrillation on In-Hospital Mortality in People with Hospital-Acquired Pneumonia: An Observational, Sex-Stratified Study.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(5). FI: 3.9. Cuartil: 2. (Article).
- de Miguel-Diez, J; López-de-Andrés, A; Jiménez-García, R; De Miguel-Yanes, JM; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; Noriega, C. *National Trends in Prevalence of Depression in Men and Women with Chronic Obstructive Pulmonary Disease Hospitalized in Spain, 2016-2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(5). FI: 3.9. Cuartil: 2. (Article).
- Jiménez-García, R; López-de-Andrés, A; de Miguel-Diez, J; Zamorano-León, JJ; Carabantes-Alarcón, D; Noriega, C; Cuadrado-Corrales, N; Pérez-Farinos, N. *Time Trends and Sex Differences in the Association between Diabetes and Chronic Neck Pain, Chronic Low Back Pain, and Migraine. Analysis of Population-Based National Surveys in Spain (2014-2020).* JOURNAL OF CLINICAL MEDICINE. 2022; 11(23). FI: 3.9. Cuartil: 2. (Article).
- Ballesteros, BLM; Noriega, C; López-de-Andrés, A; Jiménez-García, R; Zamorano-León, JJ; Carabantes-Alarcón, D; de Miguel-Diez, J. *Sex Differences in Temporal Trends in Hospitalizations and In-Hospital Mortality in Patients with Sarcoidosis in Spain from 2001 to 2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(22). FI: 3.9. Cuartil: 2. (Article).
- López-de-Andrés, A; Jiménez-García, R; de Miguel-Diez, J; Hernández-Barrera, V; del Barrio, JL; Carabantes-Alarcón, D; Zamorano-León, JJ; Noriega, C. *Sex-Related Disparities in the Prevalence of Depression among Patients Hospitalized with Type 2 Diabetes Mellitus in Spain, 2011-2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(18). FI: 3.9. Cuartil: 2. (Article).
- De Miguel-Yanes, JM; Jiménez-García, R; De Miguel-Diez, J; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; Noriega, C; López-de-Andrés, A. *Differences in Sex and the Incidence and In-Hospital Mortality among People Admitted for Infective Endocarditis in Spain, 2016-2020.* JOURNAL OF CLINICAL MEDICINE. 2022; 11(21). FI: 3.9. Cuartil: 2. (Article).







- Masa, JF; Benitez, ID; Javaheri, S; Mogollon, MV; Sánchez-Quiroga, MA; de Terreros, FJG; Corral, J; Gallego, R; Romero, A; Caballero-Eraso, C; Ordax-Carbajo, E; Troncoso, MF; González, M; López-Martín, S; Marin, JM; Marti, S; Díaz-Cambriles, T; Chiner, E; Egea, C; Barca, J; Barbe, F; Mokhlesi, B. *Risk factors associated with pulmonary hypertension in obesity hypoventilation syndrome*. JOURNAL OF CLINICAL SLEEP MEDICINE. 2022; 18(2) 553-561. FI: 4.3. Cuartil: 2. (Article).
- López-Padilla, D; Teran-Tinedo, J; Cerezo-Lajas, A; García, LR; Ojeda-Castillejo, E; López-Martín, S; Díaz-Cambriles, T; Virseda, SG; Melgar, BA; Pizarro, AC; Alcocer, HL; Troncoso-Acevedo, MF; García, TG; Yeste, PL; Cano-Pumarega, I; García-Sánchez, A; Arcos, BA; García, EZ; Rodríguez, PL; Iturricastillo, G; Gutiérrez, VL; Alonso, CR; Ortola, MV; López-Riolobos, C; García-Prieto, F; Abad-Fernández, A; Baena, EM. *Moderate obstructive sleep apnea and cardiovascular outcomes in older adults: a propensity score-matched multicenter study (CPAGE-MODE study)*. JOURNAL OF CLINICAL SLEEP MEDICINE. 2022; 18(4) 983-992. FI: 4.3. Cuartil: 2. (Article).
- Medrano-Martínez, P; Gómez-Sacristán, A; Peraita-Adrados, R. *Is memory impaired in narcolepsy type 1?*. JOURNAL OF SLEEP RESEARCH. 2022; 31(5). FI: 4.4. Cuartil: 2. (Article).
- Andreas, S; Testa, M; Boyer, L; Brusselle, G; Janssens, W; Kerwin, E; Papi, A; Pek, B; Puente-Maestu, L; Saralaya, D; Watz, H; Wilkinson, TMA; Casula, D; Di Maro, G; Lattanzi, M; Moraschini, L; Schoonbroodt, S; Tasciotti, A; Arora, AK; Maltais, F. *Non-typeable Haemophilus influenzae-Moraxella catarrhalis vaccine for the prevention of exacerbations in chronic obstructive pulmonary disease: a multicentre, randomised, placebo-controlled, observer-blinded, proof-of-concept, phase 2b trial*. LANCET RESPIRATORY MEDICINE. 2022; 10(5) 435-446. FI: 76.2. Cuartil: 1. (Article).
- Romeu-Prieto, JM; Casado, MS; Blanco, MLR; Ciampi-Dopazo, JJ; Sánchez-Carretero, MJ; García-López, JJ; Lanciego-Pérez, C. *Aspiration thrombectomy for acute pulmonary embolism with an intermediate-high risk*. MEDICINA CLINICA. 2022; 158(9) 401-405. FI: 3.9. Cuartil: 2. (Article).
- Ji, ZC; López-de-Andrés, A; Jiménez-García, R; Maestre-Miquel, C; Zamorano-León, JJ; Scarano-Pereira, JP; Fuentes-Alonso, M; Giron-Matute, WI; de Miguel-Diez, J. *Mental health in patients with asthma: a population-based case-control study*. RESPIRATORY MEDICINE. 2022; 193. FI: 4.3. Cuartil: 2. (Article).
- Caballero-Segura, FJ; López-de-Andrés, A; Jiménez-García, R; de Miguel-Yanes, JM; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; de Miguel-Diez, J. *Trends in asthma hospitalizations among adults in Spain: Analysis of hospital discharge data from 2011 to 2020*. RESPIRATORY MEDICINE. 2022; 204. FI: 4.3. Cuartil: 2. (Article).
- De-Miguel-Yañes, JM; Jiménez-García, R; Hernández-Barrera, V; de Miguel-Diez, J; Méndez-Bailón, M; López-de-Andrés, A. *Analysis of the association between atrial fibrillation with in-hospital mortality in people admitted for community-acquired pneumonia through an observational, nation-wide, sex-stratified study*. SCIENTIFIC REPORTS. 2022; 12(1). FI: 4.6. Cuartil: 2. (Article).
- de Miguel-Diez, J; López-de-Andrés, A; Jiménez-García, R; de Miguel-Yanes, JM; Hernández-Barrera, V; Carabantes-Alarcón, D; Zamorano-León, JJ; López-Herranz, M; Omana-Palanco, R. *Sex Differences in COVID-19 Hospitalization and Hospital Mortality among Patients with COPD in Spain: A Retrospective Cohort Study*. VIRUSES-BASEL. 2022; 14(6). FI: 4.7. Cuartil: 2. (Article).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Garutti, I; Cabanero, A; Vicente, R; Sánchez, D; Granell, M; Fraile, CA; Navacerrada, MR; Novoa, N; Sánchez-Pedrosa, G; Congregado, M; Gómez, A; Minana, E; Pineiro, P; Cruz, P; De la Gala, F; Quero, F; Huerta, LJ; Rodríguez, M; Jiménez, E; Puente-Maestu, L; Aragon, S; Osorio-Salazar, E; Sitges, M; Maldonado, MDL; Ríos, FT; Morales, JE; Callejas, R; González-Bardancas, S; Botella, S; Cortes, M; Yepes, MJ; Iranzo, R; Sayas, J. *Recommendations of the Society of Thoracic Surgery and the Section of Cardiothoracic and Vascular Surgery of the Spanish Society of Anesthesia, Resuscitation and Pain Therapy, for patients undergoing lung surgery included in an intensified recovery progra*. REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(5) 266-301. (Article).
- Granell-Gil, M; Murcia-Anaya, M; Sevilla, S; Martínez-Plumed, R; Biosca-Pérez, E; Cozar-Bernal, F; Garutti, I; Gallart, L; Ubierna-Ferrerías, B; Sukia-







Zilbeti, I; Gálvez-Muñoz, C; Delgado-Roel, M; Minguez, L; Bermejo, S; Valencia, O; Real, M; Unzueta, C; Ferrando, C; Sánchez, F; González, S; Ruiz-Villén, C; Lluch, A; Hernández, A; Hernández-Beslmeisl, J; Vives, M; Vicente, R. *Clinical guide to perioperative management for videothoracoscopy lung resection (Section of Cardiac, Vascular and Thoracic Anesthesia, SEDAR; Spanish Society of Thoracic Surgery, SECT; Spanish Society of Physiotherapy)*. REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(4) 208-241. (Review).

#### Other publications

- Gómez de Antonio D; Crowley Carrasco S; Romero Román A; Royuela A; Sánchez Calle Á; Obiols Fornell C; Call S; Embún R; Royo Í; Recuero JL; Cabañero A; Moreno N; Bolufer S; Congregado M; Jiménez MF; Aguinagalde B; Amor-Alonso S; Arrarás MJ; Blanco Orozco AI; Boada M; Cal I; Cilleruelo Ramos Á; Fernández-Martín E; García-Barajas S; García-Jiménez MD; García-Prim JM; García-Salcedo JA; Gelbenzu-Zazpe JJ; Giraldo-Ospina CF; Gómez Hernández MT; Hernández J; Illana Wolf JD; Jáuregui Abularach A; Jiménez U; López Sanz I; Martínez-Hernández NJ; Martínez-Téllez E; Milla Collado L; Mongil Poce R; Moradiellos-Díez FJ; Moreno-Basalobre R; Moreno Merino SB; Quero-Valenzuela F; Ramírez-Gil ME; Ramos-Izquierdo R; Rivo E; Rodríguez-Fuster A; Rojo-Marcos R; Sánchez-Lorente D; Moreno LS; Simón C; Trujillo-Reyes JC; López García C; Fibla Alfara JJ; Sesma Romero J; Hernando Trancho F. *Surgical Risk Following Anatomic Lung Resection in Thoracic Surgery: A Prediction Model Derived from a Spanish Multicenter Database*. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(5) 398-405. (Article).
- Garutti I; Cabañero A; Vicente R; Sánchez D; Granell M; Fraile CA; Real Navacerrada M; Novoa N; Sánchez-Pedrosa G; Congregado M; Gómez A; Miñana E; Piñeiro P; Cruz P; de la Gala F; Quero F; Huerta LJ; Rodríguez M; Jiménez E; Puente-Maestu L; Aragon S; Osorio-Salazar E; Sitges M; López Maldonado MD; Ríos FT; Morales JE; Callejas R; González-Bardancas S; Botella S; Cortés M; Yepes MJ; Iranzo R; Sayas J. *Recommendations of the Society of Thoracic Surgery and the Section of Cardiothoracic and Vascular Surgery of the Spanish Society of Anesthesia, Resuscitation and Pain Therapy, for patients undergoing lung surgery included in an intensified recovery pro*. REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(4) 208-241. (Article).





Group Directors: **JOSÉ MARÍA LASSO VÁZQUEZ**

Organisms involved: **HGUGM**

Type: **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

- **Arenas Domingo, Luis Javier:** R1. First Stage Researcher.
- **Cortina Acevedo, Edgar Alfonso:** R1. First Stage Researcher.
- **Lasso Vázquez, Jose María:** R4. Leading Researcher.
- **Nava Pérez, Paola.**
- **Pérez Cano, Rosa:** R4. Leading 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

### Industrial property

Title	Reference*	Owner	Inventors
Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos	P 2005 01182	FIBHGM	José María Lasso, Paola Nava

■ Transferred Industrial Property.

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

## Publications

Total Impact Factor: 20,7

	Nº	IF
Own publications	2	4,2
Joint publications	3	16,5
First decile publications	0	-
First quartile publications	1	8,6
Second quartile publications	3	10,6
Third quartile publications	1	1,5
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	0	-
<b>Total publications (including those without IF)</b>	<b>5</b>	<b>20,7</b>

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

- Ibarra, G; Lasso, JM. *Salvage Procedures for Facial Reanimation With Neurovascular Flaps When Previous Surgeries Failed Is Homolateral Vessel or Nerve Depletion a Contraindication?*. ANNALS OF PLASTIC SURGERY. 2022; 89(2) 196-200. FI: 1.5. Cuartil: 3. (Article).





- Fernández-Ibarburu, B; Díaz-Navarro, M; Ibarra, G; Rivera, A; Hafian, R; Irigoyen, A; Carrillo, R; Pérez-Cano, R; Muñoz, P; García-Ruano, A; Lasso, JM; Guembe, M. *Efficacy of Povidone Iodine Against Microbial Biofilms in Breast Implants With Different Textures: Results From an in vitro Study*. FRONTIERS IN MICROBIOLOGY. 2022; 13. FI: 5.2. Cuartil: 2. (Article).
- Castellano M; Marín M; Alcalá L; Cunnas I; Rodríguez B; Ruíz MJ; Lasso J; Pérez-Cano R; Bouza E; Muñoz P; Guembe M. *Exhaustive diagnosis of breast implants with capsular contracture: The microbiology laboratory as a major support*. JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY. 2022; 75(9) 3085-3093. FI: 2.7. Cuartil: 2. (Article).
- Lasso, JM; Alonso-Farto, JC. *Indocyanine green-guided liposuction for patients presenting with residual nonpitting edema after lymphovenous anastomosis*. JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY. 2022; 75(8) 2482-2492. FI: 2.7. Cuartil: 2. (Article).
- Rodríguez-Izquierdo, I; Sepúlveda-Crespo, D; Lasso, JM; Resino, S; Muñoz-Fernández, MA. *Baseline and time-updated factors in preclinical development of anionic dendrimers as successful anti-HIV-1 vaginal microbicides*. WILEY INTERDISCIPLINARY REVIEWS-NANOMEDICINE AND NANOBIOLOGY. 2022; 14(3). FI: 8.6. Cuartil: 1. (Review).





Group Director: **ENRIQUE LLEDÓ GARCÍA**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## 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

Urological surgical group with 2 fields of dedication: experimental renal preservation and complex urethral and genital reconstructive surgery, peyronie's disease.

## Group members

- **Aragón Chamizo, Juan.**
- **Cancho Gil, María José.**
- **Caño Velasco, Jorge.**
- **González García, Francisco Javier.**
- **Hernández Fernández, Carlos:** R4. Leading Researcher.
- **Herranz Amo, Felipe Bernardo:** R2. Recognised Researcher.
- **Jara Rascón, José:** R2. Recognised Researcher.
- **Lledo García, Enrique:** R4. Leading Researcher.
- **Rodríguez Fernández, María Elena.**
- **Subira Ríos, David:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Molde 3D Hemostático	EP22382407.9	FIBHGM	David Subirá

■ Transferred Industrial Property.

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

## Publications

Total Impact Factor: 19,3

	N°	IF
Own publications	7	6,8
Joint publications	3	12,5
First decile publications	0	–
First quartile publications	0	0,0
Second quartile publications	2	9,9
Third quartile publications	1	2,6
Fourth quartile publications	7	6,8
Nonindexed publications/No IF	1	–
<b>Total publications (including those without IF)</b>	<b>11</b>	<b>19,3</b>





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

- Subira-Ríos, D; Cano-Velasco, J; Moncada-Iribarren, I; González-García, J; Polanco-Pujol, L; Subira-Ríos, J; Hernández-Fernández, C. *Pelvic and inguinal single-site approach: PISA technique. New minimally invasive technique for lymph node dissection in penile cancer.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(2) 63-69. FI: 1.1. Cuartil: 4. (Article).
- Luis-Cardo, A; Herranz-Amo, F; Rodríguez-Cabero, M; Quintana-Álvarez, R; Esteban-Labrador, L; Rodríguez-Fernández, E; Mayor-de Castro, J; Barbas-Bernardos, G; Ramirez-Martín, D; Hernández-Fernández, C. *Laparoscopic nephron sparing surgery and radical nephrectomy in cT1 renal tumors. Comparative analysis of complications and survival.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(4) 252-258. FI: 1.1. Cuartil: 4. (Article).
- Cardo, AL; Amo, FH; Cabero, MR; Cavieres, JH; Ríos, DS; Gárate, MM; Chamizo, JA; Bernardos, GB; Martín, DR; Fernández, CH. *Evolution of renal function in patients with cT1 renal tumors after laparoscopic partial and radical nephrectomy. Predictive factors for renal function impairment.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(3) 150-158. FI: 1.1. Cuartil: 4. (Article).
- Álvarez, RQ; Amo, FH; Labrador, LE; Chomon, GB; Ríos, DS; Fernández, CH. *Influence of double J stent in the complications of ureterovesical anastomosis during kidney transplantation.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(8) 481-486. FI: 1.1. Cuartil: 4. (Article).
- Fernández, ER; Cardo, AL; Ríos, DS; Gil, MJC; García, FJG; Amo, FH; Fernández, CH. *Peritoneal carcinomatosis after partial nephrectomy for renal cell carcinoma: Our experience and literature review.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(6) 340-347. FI: 1.1. Cuartil: 4. (Article).
- Mayor-de-Castro, J; Aragon-Chamizo, J; Cano-Velasco, J; Hernández-Fernández, C. *BIOMARKERS IN TESTICULAR CANCER.* ARCHIVOS ESPANOLESD E UROLOGIA. 2022; 75(2) 113-117. FI: 0.5. Cuartil: 4. (Article).
- Fernández-Pascual, E; Manfredi, C; Martín, C; Martínez-Ballesteros, C; Balmori, C; Lledo-García, E; Quintana, LM; Curvo, R; Carballido-Rodríguez, J; Bianco, FJ; Martínez-Salamanca, JI. *mpMRI-US Fusion-Guided Targeted Cryotherapy in Patients with Primary Localized Prostate Cancer: A Prospective Analysis of Oncological and Functional Outcomes.* CANCERS. 2022; 14(12). FI: 5.2. Cuartil: 2. (Article).
- Horodyski, L; González, J; Tabbara, MM; Gaynor, JJ; Rodríguez-Cabero, M; Herranz-Amo, F; Hernández, C; Shah, RS; Ciancio, G. *En Bloc Resection of Right Renal Cell Carcinoma and Inferior Vena Cava Tumor Thrombus Without Caval Reconstruction: Is It Safe to Divide the Left Renal Vein?.* FRONTIERS IN ONCOLOGY. 2022; 12. FI: 4.7. Cuartil: 2. (Article).
- van Renterghem, K; Jacobs, B; Yafi, F; Osmonov, D; Ralph, D; Venturino, L; Barnard, JT; Ziegelmann, M; Wang, R; Kannady, C; Lentz, A; García, EL; Andrienne, R; Bettocchi, C; Hatzichristodoulou, G; Gross, M; Faix, A; Otero, JR; Salamanca, JIM; Sedigh, O; Albersen, M; Dinkelman-Smit, M; Mykoniatis, I. *Current practices regarding corporotomy localization during penoscrotal inflatable penile implant surgery: a multicenter cohort study.* INTERNATIONAL JOURNAL OF IMPOTENCE RESEARCH. 2022; 34(3) 302-307. FI: 2.6. Cuartil: 3. (Article).
- Velez-Fraga, O; Jara-Rascón, J. *Research on the design and evaluation of sexual health prevention campaigns aimed at young people in Spain from 1987 to 2016.* REVISTA INTERNACIONAL DE ANDROLOGIA. 2022; 20(2) 102-109. FI: 0.8. Cuartil: 4. (Article).

**Other publications**

- Luis Cardo A; Herranz Amo F; Rodríguez Cabero M; Hernández Cavieres J; Subirá Ríos D; Moralejo Gárate M; Aragón Chamizo J; Barbas Bernardos G; Ramirez Martín D; Hernández Fernández C. *Evolution of renal function in patients with cT1 renal tumors after laparoscopic partial and radical nephrectomy. Predictive factors for renal function impairment.* ACTAS UROLOGICAS ESPANOLAS. 2022; 46(2) 63-69. (Article).





Group Director: **MARINA MORA SITJA  
AND MARÍA SANZ FERNÁNDEZ**

Organisms involved: **HGUGM**

Type: **Associated Group**

## 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.

Main research group of Congenital Adrenal Hyperplasia and Congenital Hypothyroidism, congenital pathologies for which HGUGM is a reference centre in the Community of Madrid.

## Group members

- **Manzano Rodríguez, Gema:** R2. Recognised Researcher.
- **Mora Sitja, Marina:** R2. Recognised Researcher.
- **Rodríguez Sánchez, Amparo:** R2. Recognised Researcher.
- **Sanz Fernández, María:** R2. Recognised Researcher

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–





Group Director: **FRANCISCO JAVIER VAQUERO MARTÍN**

Organisms involved: **HGUGM-UCM**

Type: **Emerging Group**

## 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.

The group is composed mainly (although not exclusively) of specialists in Orthopedic Surgery and Traumatology from our and other national and foreign hospitals with the support of at least three universities in various projects (San Pablo CEU, Universidad Juan Carlos I, and ICAI, all of which are in Madrid). In some of the mentioned lines of research (below), work had already begun, thus confirming the group's viability and its role in promoting projects and doctoral theses.

There are currently 14 active members participating in some of these lines.

## Group members

- **Aburto Bernardo, Mikel:** R1. First Stage Researcher.
- **Arnal Burro, Juan Manuel:** R2. Recognised Researcher.
- **Calvo Haro, José Antonio:** R3. Established Researcher.
- **Carbo Laso, Esther:** R3. Established Researcher.
- **Chana Rodríguez, Francisco:** R3. Established Researcher.
- **Forriol Campos, Francisco:** R3. Established Researcher.
- **Matas Díaz, José Antonio:** R2. Recognised Researcher.
- **Narbona Cárceles, Francisco Javier:** R3. Established Researcher.
- **Oteo Álvaro, Ángel:** R3. Recognised Researcher.
- **Pérez Mañanes, Rubén:** R3. Established Researcher.
- **Rojo Manaute, José Manuel:** R3. Recognised Researcher.
- **Sanz Ruiz, Pablo:** R3. Established Researcher.
- **Vaquero Martín, Francisco Javier:** 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: **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, José Antonio

Project type: Research project

Funding body: Ministerio de Ciencia e Innovación

Start date: 01/12/2022

End date: 30/11/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	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.

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

### Copyright

Title	Reference	Owner	Inventors
Calculadora AMBAS: Calculadora para el manejo pre y postoperatorio del tratamiento antibiótico	16/2022/7149	FIBHGM	Almudena Ribed, Álvaro Giménez, Ana de Lorenzo, María Cristina Pascual, Francisco Chana, Ana María Herranz, María Sanjurjo

■ Transferred Intellectual Property.

## Publications Total Impact Factor: 36,8

	Nº	IF
Own publications	5	12,4
Joint publications	7	24,4
First decile publications	0	-
First quartile publications	1	4,8
Second quartile publications	10	30,2
Third quartile publications	1	1,8
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	7	-
<b>Total publications (including those without IF)</b>	<b>19</b>	<b>36,8</b>





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

- Sánchez-Somolinos, M; Díaz-Navarro, M; Benjumea, A; Tormo, M; Matas, J; Vaquero, J; Muñoz, P; Sanz-Ruiz, P; Guembe, M. *Determination of the Elution Capacity of Dalbavancin in Bone Cements: New Alternative for the Treatment of Biofilm-Related Peri-Prosthetic Joint Infections Based on an In Vitro Study*. ANTIBIOTICS-BASEL. 2022; 11(10). FI: 4.8. Cuartil: 1. (Article).
- Martínez-Ayora, A; Cuervas-Mons, M; Fajardo-Ruiz, A; Rodríguez-López, T; Vaquero, J; Sanz-Ferrando, L. *Ultrasound-guided distal minimally invasive metatarsal osteotomies (US-DMMO): A cadaveric study about its safety and accuracy*. FOOT AND ANKLE SURGERY. 2022; 28(3) 371-377. FI: 2.5. Cuartil: 2. (Article).
- Sobron, FB; Dos Santos-Vaquinhas, A; Alonso, B; Parra, G; Pérez-Mananes, R; Vaquero, J. *Technique tip: 3D printing surgical guide for pes cavus midfoot osteotomy*. FOOT AND ANKLE SURGERY. 2022; 28(4) 445-449. FI: 2.5. Cuartil: 2. (Article).
- Benjumea, A; Díaz-Navarro, M; Hafian, R; Cercenado, E; Sánchez-Somolinos, M; Vaquero, J; Chana, F; Muñoz, P; Guembe, M. *Tranexamic Acid in Combination With Vancomycin or Gentamicin Has a Synergistic Effect Against Staphylococci*. FRONTIERS IN MICROBIOLOGY. 2022; 13. FI: 5.2. Cuartil: 2. (Article).
- Somoza-Fernández, B; Ribed-Sánchez, A; Martín-Lozano, S; de Vega-San Vicente, FM; Menéndez-Tarin, R; Giménez-Manzorro, A; Sanz-Ruiz, P; Garutti-Martínez, I; Herranz-Alonso, A; Vaquero-Martín, J; Sanjurjo-Saez, M. *Implementation of an enhanced recovery after surgery program including a patient school: Impact on quality of life results*. INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2022; 53(12) 3987-3992. FI: 2.5. Cuartil: 2. (Article).
- López-Torres, II; Vaquero-Martín, J; Torres-Suárez, AI; Navarro-García, F; Fraguas-Sánchez, AI; León-Román, VE; Sanz-Ruiz, P. *The tale of microencapsulated rifampicin: is it useful for the treatment of periprosthetic joint infection?*. INTERNATIONAL ORTHOPAEDICS. 2022; 46(4) 677-685. FI: 2.7. Cuartil: 2. (Article).
- Villanueva, M; Iborra, A; Fahandezh-Saddi, H; Sanz-Ruiz, P; Noriega, C. *Ultrasound-guided aponeurotomy and interphalangeal joint capsular*

*release for treatment of Dupuytren's disease*. JOURNAL OF HAND SURGERY-EUROPEAN VOLUME. 2022; 47(7) 742-749. FI: 1.8. Cuartil: 3. (Article).

- Sanz-Ruiz, P; León-Román, VE; Matas-Diez, JA; Villanueva-Martínez, M; Vaquero, J. *Long-term outcomes of one single-design varus valgus constrained versus one single-design rotating hinge in revision knee arthroplasty after over 10-year follow-up*. JOURNAL OF ORTHOPAEDIC SURGERY AND RESEARCH. 2022; 17(1). FI: 2.6. Cuartil: 2. (Article).
- Rodríguez-Maruri, G; Rojo-Manaute, JM; Capa-Grasa, A; Rodríguez, FC; López, EC; Martín, JV. *Ultrasound-Guided A1 Pulley Release Versus Classic Open Surgery for Trigger Digit A Randomized Clinical Trial*. JOURNAL OF ULTRASOUND IN MEDICINE. 2022; FI: 2.3. Cuartil: 2. (Article).
- Benjumea, A; Díaz-Navarro, M; Hafian, R; Sánchez-Somolinos, M; Vaquero, J; Chana, F; Muñoz, P; Guembe, M. *Effect of Tranexamic Acid against Staphylococcus spp. and Cutibacterium acnes Associated with Peri-Implant Infection: Results from an In Vitro Study*. MICROBIOLOGY SPECTRUM. 2022; 10(1). FI: 3.7. Cuartil: 2. (Article).
- Dos Santos-Vaquinhas, A; López-Torres, II; Matas-Diez, JA; Calvo-Haro, JA; Vaquero, J; Sanz-Ruiz, P. *Improvement of surgical time and functional results after do-it-yourself 3D-printed model preoperative planning in acetabular defects Paprosky IIA-III B*. ORTHOPAEDICS & TRAUMATOLOGY-SURGERY & RESEARCH. 2022; 108(6). FI: 2.3. Cuartil: 2. (Article).
- Pose-Diez-de-la-Lastra, A; Moreta-Martínez, R; García-Sevilla, M; García-Mato, D; Calvo-Haro, JA; Mediavilla-Santos, L; Pérez-Mananes, R; von Haxthausen, F; Pascau, J. *HoloLens 1 vs. HoloLens 2: Improvements in the New Model for Orthopedic Oncological Interventions*. SENSORS. 2022; 22(13). FI: 3.9. Cuartil: 2. (Article).

**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Berberich, C; Josse, J; Ruiz, PS. *Patients at a high risk of PJI: Can we reduce the incidence of infection using dual antibiotic-loaded bone cement?*. ARTHROPLASTY. 2022; 4(1). (Review).





- Escobar-Mendiola, D; Mediavilla-Santos, L; Pérez-Mananes, R; Cuervo-Dehesa, M; Vaquero-Martín, J; Calvo-Haro, J. *Extremity high-grade sarcomas in elderly patients, are they candidates for surgery? Experience in a sarcoma referral center.* INDIAN JOURNAL OF SURGICAL ONCOLOGY. 2022;. (Article).
- Cuervas-Mons, M; Espinosa, JM; Pérez-Mananes, R; Calvo, J; Trapero, D; Parra, G. *3D Printing Surgical Guide for Nonunion: Technique Tip.* TECHNIQUES IN ORTHOPAEDICS. 2022; 37(2) 128-130. (Editorial Material).
- Rodríguez-Maruri G; Rojo-Manaute JM; Capa-Grasa A; Rodríguez FC; Del Cerro Gutiérrez M; Martín JV. *Ultra-minimally Invasive Sonographically-guided Trigger Digit Release: An External Pilot Study.* OMAN MEDICAL JOURNAL. 2022; 37(2). (Article).
- Mediavilla-Santos L; García-Sevilla M; Calvo-Haro JA; Ruiz Alba MT; Pérez-Mañanes R; Pascau González J; Cuervo Dehesa M; Vaquero Martín FJ. *[Translated article] Validation of patient-specific 3D impression models for pelvic oncological orthopedic surgery.* REVISTA ESPAÑOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2022; 66(5). (Article).
- Mediavilla-Santos L; García-Sevilla M; Calvo-Haro JA; Ruiz Alba MT; Pérez-Mañanes R; Pascau González J; Cuervo Dehesa M; Vaquero Martín FJ. *Validation of patient-specific 3D impression models for pelvic oncological orthopedic surgery.* REVISTA ESPAÑOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2022; 66(5) 403-409. (Article).

### **Other publications**

- López-Fernández J; Aburto-Bernardo M; López-Mombiela F; Pérez-Martín A; Álvarez-González JC. *Resultados a mediano plazo de la prótesis invertida en la artropatía de manguito.* ACTA ORTOPÉDICA MEXICANA. 2022; 36(3) 159-165. (Article).





Group Director: **JAVIER MUÑOZ GONZÁLEZ**

Organisms involved: **HGUGM**

Type: **Associated Group**

## Research lines

Axis 1: ECMO in adults with acute respiratory insufficiency.

Axis 2: Meta-analysis of care provided to patients with critical neurological conditions.

Axis 3: Analysis of the national minimum basic dataset in patients undergoing mechanical ventilation.

Axis 4: Analysis of the national minimum basic dataset in the ICU.

Axis 5: Antifungal therapy. New approaches.

Axis 6: Multimodality neuromonitoring in the ICU.

Axis 7: Humanization of intensive care.

Axis 8: Mechanical ventilation.

Axis 9: Infections and sepsis in the ICU.

Axis 10: Intestinal failure in the critically ill patient.

Axis 11: Inhalation sedation in the ICU.

## Group members

- **De la Calle Reviriego, Braulio:** R1. First Stage Researcher I.
- **García Olivares, Pablo:** R1. First Stage Researcher I.
- **Guerrero Sanz, José Eugenio:** R2. Recognised Researcher.
- **Muñoz González, Javier:** R4. Leading Researcher.
- **Sánchez Fernández, Guiomar.**
- **Santa Teresa Zamarro, Patricia:** R2. Recognised Researcher.
- **Sotillo Díaz, Juan Carlos:** R2. Recognised Researcher.
- **Tomey Soria, María Jesús:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–


**Publications** Total Impact Factor: 35,4

	Nº	IF
Own publications	0	0,0
Joint publications	2	35,4
First decile publications	2	35,4
First quartile publications	2	35,4
Second quartile publications	0	0,0
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>2</b>	<b>35,4</b>

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

- Zhu, L; Retana, D; García-Gómez, P; Álvaro-Espinosa, L; Priego, N; Masmudi-Martín, M; Yebra, N; Miarka, L; Hernández-Encinas, E; Blanco-Aparicio, C; Martínez, S; Sobrino, C; Ajenjo, N; Artiga, MJ; Ortega-Paino,

E; Torres-Ruiz, R; Rodríguez-Perales, S; Soffiatti, R; Bertero, L; Cassoni, P; Weiss, T; Muñoz, J; Sepúlveda, JM; González-León, P; Jiménez-Roldan, L; Moreno, LM; Esteban, O; Pérez-Nunez, A; Hernández-Lain, A; Toldos, O; Ruano, Y; Alcazar, L; Blasco, G; Fernández-Alen, J; Caleiras, E; Lafarga, M; Megias, D; Grana-Castro, O; Nor, C; Taylor, MD; Young, LS; Vareslija, D; Cosgrove, N; Couch, FJ; Cusso, L; Desco, M; Mouron, S; Quintela-Fandino, M; Weller, M; Pastor, J; Valiente, M; RENACER. *A clinically compatible drug-screening platform based on organotypic cultures identifies vulnerabilities to prevent and treat brain metastasis*. EMBO MOLECULAR MEDICINE. 2022; 14(3). FI: 11.1. Cuartil: 1. (Article).

- Riera, J; Alcantara, S; Bonilla, C; Fortuna, P; Ortiz, AB; Vaz, A; Albacete, C; Millan, P; Ricart, P; Boado, MV; de Gopegui, PR; Teresa, PS; Sandoval, E; Pérez-Chomon, H; González-Pérez, A; Duerto, J; Gimeno, R; Colomina, J; Gómez, V; Renedo, G; Naranjo, J; García, MA; Rodríguez-Ruiz, E; Silva, PE; Pérez, D; Veganzones, J; Voces, R; Martínez, S; Blanco-Schweizer, P; García, M; Villanueva-Fernández, H; Fuset, MP; Luna, SM; Martínez-Martínez, M; Argudo, E; Chiscano, L; Roncon-Albuquerque, R. *Risk factors for mortality in patients with COVID-19 needing extracorporeal respiratory support*. EUROPEAN RESPIRATORY JOURNAL. 2022; 59(2). FI: 24.3. Cuartil: 1. (Letter).







Group Director: **M<sup>a</sup> BEGOÑA QUINTANA VILLAMANDOS AND JUAN FRANCISCO DEL CAÑIZO**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1: Ventricular remodelling

- ▶ L1: Immunohistopathology and ultrastructure of ventricular remodelling
- ▶ L2: Pathophysiology of ventricular remodelling
- ▶ L3: Serum biomarkers of cardiac pathology
- ▶ L4: New therapies in the regression of ventricular remodelling

### Axis 2: Vascular remodelling

- ▶ L1: Foetal origin of cardiovascular disease and nutrition
- ▶ L2: Structure and function in vascular remodelling
- ▶ L3: Serum biomarkers of vascular pathology
- ▶ L4: New therapies in the regression of vascular remodelling

### Axis 3: Mechanical circulatory support

- ▶ L1: Anaesthetic drugs and organ perfusion in mechanical circulatory support (MCA)
- ▶ L2: Advances in haemodynamic monitoring in MCA
- ▶ L3: Cardiovascular physiopathology and MCA
- ▶ L4: Pulsatile vs. continuous flow in MCA

### Axis 4: Hepatic physiopathology

- ▶ L1: Decellularisation of the liver
- ▶ L2: Normothermic perfusion of isolated liver

### Axis 5: 3D printing

- ▶ L1: 3D skin printing

**M**ultidisciplinary group (various institutions, various specialties, clinicians and basic) focused on the physiopathology of the cardiovascular system and circulatory support.

## Group members

- **Arnalich Montiel, Ana**: R2. Recognised Researcher.
- **Arribas Rodríguez, Silvia Magdalena**: R3. Established Researcher.
- **Barrio Gutiérrez, José María**: R2. Recognised Researcher.
- **Beneyto Cruz, Rosario**: Other.
- **Cuerpo Caballero, Gregorio Pablo**: R2. Recognised Researcher.
- **Del Cañizo López, Juan Francisco**: R4. Leading Researcher.
- **Delgado Baeza, Emilio**: R3. Established Researcher.
- **Delgado Martos, María Jesús**: R2. Recognised Researcher.
- **Fernández López, Ignacio**: R1. First Stage Researcher.
- **Herrero de la Parte, Borja**: R2. Recognised Researcher.
- **Iglesias de la Vega, Mario**: R2. Recognised Researcher.
- **Martín Oropesa, Raquel**: R2. Recognised Researcher.
- **Morillas Sendín, Paloma**: R2. Recognised Researcher.
- **Pazo Sayos, Laia**: R2. Recognised Researcher.
- **Quintana Villamandos, María Begoña**: R4. Leading Researcher.
- **Ruiz Fernández, Manuel**: R2. Recognised Researcher.
- **Vega Sánchez, Victoria Eugenia**: R1. First Stage Researcher.

## Research Projects – Competitive Calls

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





- Title: Efectos del tipo de flujo sanguíneo (continuo o pulsátil) sobre la microcirculación en un modelo animal de asistencia ventricular.**  
PI17/01319  
Director: Ruiz Fernández, Manuel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022
- Title: Nuevas Tecnologías de Fabricación y Optimización de Tejidos : La Piel como sistema Modelo S2018/BAA-4480**  
Director: Quintana Villamandos, María Begoña/Del Cañizo López, Juan Francisco  
Project type: Research project  
Funding body: Consejería de Educación de Investigación. Comunidad de Madrid  
Start date: 06/03/2019  
End date: 06/03/2023
- Title: Young employment contract.** PEJ2018-004026-A  
Director: Del Cañizo López, Juan Francisco  
Project type: Human Resources  
Funding body: Ministerio De Economía Y Hacienda  
Start date: 01/11/2019  
End date: 31/03/2022

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Equipo y simulación para control de hemorragias	P 2017 30568	FIBHGM – Medical Simulator	Manuel Desco, Juan Francisco del Cañizo
Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U 2014 30814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, M <sup>a</sup> Jesús Pérez

■ Transferred Industrial Property.

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

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Karen Francisca Flores Urra	Factores de riesgo cardiometabólico y alteraciones cardiopulmonares por exposición a hipoxia intermitente de altura: papel de la AMPK.	Silvia Magdalena Arribas	UAM	21/07/2022

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Zarragoikoetxea I, Pajares A, Moreno I, Porta J, Koller T, Cegarra V, González AI, Eiras M, Sandoval E, Aurelio Sarralde J, Quintana-Villamandos B, Vicente Guillén R	SEDAR/SECCE ECMO management consensus document	Rev Esp Anesthesiol Reanim 2021;68:443-471





Publications	Total Impact Factor: 46,2	
	Nº	IF
Own publications	2	11,0
Joint publications	9	35,2
First decile publications	2	11,3
First quartile publications	5	25,8
Second quartile publications	4	16,2
Third quartile publications	1	2,4
Fourth quartile publications	1	1,8
Nonindexed publications/No IF	6	-
<b>Total publications (including those without IF)</b>	<b>17</b>	<b>46,2</b>

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

- Olivencia, MA; Esquivel-Ruiz, S; Callejo, M; Mondejar-Parreno, G; Quintana-Villamandos, B; Barreira, B; Sacedon, R; Cogolludo, A; Perros, F; Mendes-Ferreira, P; Vizcaino, FP. *Cardiac and Pulmonary Vascular Dysfunction in Vitamin D-Deficient Bmpr2-Mutant Rats*. AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. 2022; 67(3) 402-405. FI: 6.4. Cuartil: 1. (Letter).
- Martín-Oropesa, R; Rodríguez-Rodríguez, P; Pazo-Sayos, L; Arnalich-Montiel, A; Arribas, SM; González, MC; Quintana-Villamandos, B. *Maintenance over Time of the Effect Produced by Esmolol on the Structure and Function of Coronary Arteries in Hypertensive Heart Diseases*. ANTIOXIDANTS. 2022; 11(10). FI: 7. Cuartil: 1. (Article).
- Rodríguez-Rodríguez, P; Monedero-Cobeta, I; Ramiro-Cortijo, D; Puthong, S; Quintana-Villamandos, B; Gil-Ramirez, A; Canas, S; Ruvira, S; Arribas, SM. *Slower Growth during Lactation Rescues Early Cardiovascular and Adipose Tissue Hypertrophy Induced by Fetal Undernutrition in Rats*. BIOMEDICINES. 2022; 10(10). FI: 4.7. Cuartil: 1. (Article).
- Zaballos, M; Fernández, I; Rodríguez, L; García, S; Varela, O; Quintela, O; Anadon, MJ; Almendral, J. *Effects of intravenous lipid emulsions*

*on the reversal of pacing-induced ventricular arrhythmias and electrophysiological alterations in an animal model of ropivacaine toxicity*. CLINICAL TOXICOLOGY. 2022; 60(8) 902-911. FI: 3.3. Cuartil: 2. (Article).

- Caliskan, E; Misfeld, M; Sandner, S; Boning, A; Aramendi, J; Salzberg, SP; Choi, YH; Perrault, LP; Tekin, I; Cuerpo, GP; López-Menéndez, J; Weltert, LP; Bohm, J; Krane, M; González-Santos, JM; Tellez, JC; Holubec, T; Ferrari, E; Emmert, MY. *Clinical event rate in patients with and without left main disease undergoing isolated coronary artery bypass grafting: results from the European DuraGraft Registry*. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY. 2022; 62(4). FI: 3.4. Cuartil: 1. (Article).
- Fernández-Ibarburu, B; Díaz-Navarro, M; Ibarra, G; Rivera, A; Hafian, R; Irigoyen, A; Carrillo, R; Pérez-Cano, R; Muñoz, P; García-Ruano, A; Lasso, JM; Guembe, M. *Efficacy of Povidone Iodine Against Microbial Biofilms in Breast Implants With Different Textures: Results From an in vitro Study*. FRONTIERS IN MICROBIOLOGY. 2022; 13. FI: 5.2. Cuartil: 2. (Article).
- Quintana-Villamandos, B; Barranco, M; Fernández, I; Ruiz, M; Del Cañizo, JF. *Cardiac output monitoring with pulmonary versus transcardiopulmonary thermodilution in left ventricular assist devices: Interchangeable methods?*. FRONTIERS IN PHYSIOLOGY. 2022; 13. FI: 4. Cuartil: 2. (Article).
- Valero, MJ; Muñoz-Blanco, JL; Sánchez, AG; Cuerpo, G; Castrodeza, J; Navas, P; Sousa, I; Villa, A; Fernández-Aviles, F; Martínez-Selles, M. *Should Advanced Friedreich's Ataxia Be a Contraindication for Heart Transplantation? A Case Report of a Successful Procedure in a 58-Year-Old Patient*. JOURNAL OF CARDIOVASCULAR DEVELOPMENT AND DISEASE. 2022; 9(3). FI: 2.4. Cuartil: 3. (Article).
- Acosta, F; Martínez-Lirola, M; Sola-Campoy, PJ; Sicilia, J; Guerra-Galán, T; Maus, SR; Muñoz, P; Pérez-Lago, L; de Viedma, DG. *Insights into the Complexity of a Dormant Mycobacterium tuberculosis Cluster Once Transmission Is Resumed*. MICROBIOLOGY SPECTRUM. 2022; 10(1). FI: 3.7. Cuartil: 2. (Article).
- Herrera, C; Bruna, V; Barrio, JM; Cuerpo, G; Fernández-Aviles, F; de Luna, AB; Martínez-Selles, M. *Atrial myxoma surgery and P-wave remodeling*. PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY. 2022; 45(9) 1160-1164. FI: 1.8. Cuartil: 4. (Article).





**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- López, LP; Hernández, TC; Caballero, GC; Menéndez, JL; Alcazar, MC; Fuster, RG; García-Verdugo, PG; Aroca, JMB. *Spanish Society of Cardio & Endovascular Surgery registry of interventions in patients with congenital heart disease: 2020, and retrospective of the previous 9 years*. CIRUGIA CARDIOVASCULAR. 2022; 29(4) 221-230. (Article).
- Caballero, GC; Alcazar, MC; Menéndez, JL; Hernández, TC; López, LP; Fuster, RG; García-Verdugo, PG; Aroca, JMB. *Spanish Society of Cardio & Endovascular Surgery registry of interventions in 2020*. CIRUGIA CARDIOVASCULAR. 2022; 29(4) 207-220. (Article).
- Monzon, D; Cuerpo, G; Pedraz, A; Castillo, J; Pinto, AG. *Surgical treatment of the rheumatic mitral regurgitation*. CIRUGIA CARDIOVASCULAR. 2022; 29 82-88. (Review).
- Gascon, D; Rivera, A; Agea, M; Antunez-Conde, R; Sada, A; Navarro-Cuellar, C; Tousidonis-Rial, M; Salmeron-Escobar, JI. *An Uncommon*

*Great Pretender in Oral Cavity Lesions: The Masson's Tumor*. HEAD & NECK PATHOLOGY. 2022; 16(3) 814-817. (Article).

- Calderon, AGP; Sayos, LP; Tome, ML. *Always on the alert: medication errors*. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(3) 187-188. (Letter).
- García-Ramos, S; Fernández, I; Zaballos, M. *Lipid emulsions in the treatment of intoxications by local anesthetics and other drugs. Review of mechanisms of action and recommendations for use*. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(7) 421-432. (Review).

**Other publications**

- Acosta F; Martínez-Lirola M; Sola-Campoy PJ; Sicilia J; Guerra-Galán T; R Maus S; Muñoz P; Pérez-Lago L; García de Viedma D. *Insights into the Complexity of a Dormant Mycobacterium tuberculosis Cluster Once Transmission Is Resumed (vol 10, e01381-21, 2022)*. MICROBIOLOGY SPECTRUM. 2022; FI: 3.7. Cuartil: 2. (Correction).





Group Director: **JOSÉ MARÍA PÉREZ PEÑA**

Organisms involved: **HGUGM**

Type: **Associated Group**

## Research lines

- ▶ L1: Evaluation of early graft function in human liver transplantation.
- ▶ L2: Usefulness of cardiac biomarkers in liver transplantation.

The members of the research group are part of the Anesthesiology and Recovery Department of Hospital Gregorio Marañón. Their care activity is aimed at the field of anesthesia and postoperative recovery in major abdominal surgery. Since 1990, when we started the liver transplant (LT) program in HGU Gregorio Marañón, we have formed part of the anesthesia team responsible for LT and have developed various research lines in this field and in major liver surgery in close collaboration with the Hepatology and Surgery Services.

During the last few years, we have been developing the following research lines:

1. Methods for the rapid diagnosis of early graft failure in LT. One of the challenges of LT is that of early diagnosis of graft failure in order to review potential factors involved (especially arterial thrombosis, which can be addressed using surgery) in order to treat them before they become irreversible. One of the methods proposed is indocyanine green clearance, which involves elimination of a dye from vascular circulation exclusively via hepatic uptake and biliary clearance. Our group has developed a research line on the predictive ability of hepatic clearance of indocyanine green in liver graft failure, morbidity and mortality, and early lesions of the biliary tract after LT.
2. Use of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients undergoing LT. Our group has previously studied the preoperative assessment of cardiomyopathy in cirrhotic patients

and its influence on the intraoperative course during HT. We are currently investigating the usefulness of cardiac biomarkers and intraoperative monitoring of different haemodynamic parameters during HT in relation to perioperative morbidity and mortality and transplant outcome. We have studied the prognostic value of intraoperative high-sensitivity troponin T (Tp) elevation in HT, the intraoperative evolution of Tp levels and their relationship with changes in haemodynamic variables during surgery. Based on these findings, we are investigating the origin of Tp elevation in HT and the possible relationship with the transplanted liver and liver function.

3. Our group is part of a multidisciplinary clinical and experimental research team in which hepatologists, surgeons, pathologists, biochemists and anaesthesiologists from the HGU Gregorio Marañón participate. In recent years, this team has developed a line of research in a porcine experimental model on the pathophysiological mechanisms involved in the development of acute liver failure after extended liver resection and small for size syndrome, as well as the effects of normothermic perfusion on marginal donor liver graft recovery and liver regeneration.
4. In 2021 we started the programme for the recovery of organs initially discarded for liver transplantation. 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.

## Group members

- **Duque González, Patricia:** R2. Recognised Researcher.
- **Lisbona Saez, Cristina Julia:** R2. Recognised Researcher.
- **Pérez Peña, José María:** R4. Leading Researcher.
- **Vílchez Monge, Almudena Lucía:** R1. First Stage Researcher.





## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications Total Impact Factor: 8,1

	N°	IF
Own publications	1	6,7
Joint publications	2	1,4
First decile publications	0	–
First quartile publications	1	6,7
Second quartile publications	0	0,0
Third quartile publications	0	0,0
Fourth quartile publications	2	1,4
Nonindexed publications/No IF	0	–
<b>Total publications (including those without IF)</b>	<b>3</b>	<b>8,1</b>

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

- Orue-Echebarria, MI; Vaquero, J; Vara, E; Rancan, L; Lozano, P; Lisbona, CJ; Laso, J; Fernández-Mena, C; Olmedilla, L; Peligros, I; García-Sabrido, JL; Asencio, JM. *Mechanisms of regenerative preconditioning in pigs with subtotal hepatectomies Mecanismos del acondicionamiento regenerativo en hepatectomías subtotales en modelo porcino*. CIRUGIA Y CIRUJANOS. 2022; 90 61-69. FI: 0.5. Cuartil: 4. (Article).
- Duque, P; Chasco-Ganuza, M; Ortuzar, A; Almaraz, C; Terradillos, E; Pérez-Rus, G; Pascual, C. *Acquired FXIII Deficiency is Associated with High Morbidity*. THROMBOSIS AND HAEMOSTASIS. 2022; 122(1) 48-56. FI: 6.7. Cuartil: 1. (Article).
- Cortese, S; López Baena JÁ; Pérez Peña JM; Matilla, AM; Olmedilla, L; Morales Taboada Á; Fernández Vázquez ML; Fernández Martínez M; Asencio, JM. *Imaging pearls and differential diagnosis of encapsulating peritoneal sclerosis: Emphasis on computed tomography*. TRANSPLANTATION PROCEEDINGS. 2022; 54(9) 2545-2548. FI: 0.9. Cuartil: 4. (Article).





Group Director: **CARMEN FERNÁNDEZ RIVEIRA**

Organisms involved: **HGUGM**

Type: **Associated Group**

## Group members

- **Del Castillo Fernández de Betoño, Teresa:** R1. First Stage Researcher.
- **Díaz Ruano, Susana:** R1. First Stage Researcher.
- **Fernández Fernández, Alejandro:** R1. First Stage Researcher.
- **Fernández Riveira, María del Carmen:** R4. Leading Researcher.
- **Membrillo Rubalcaba, María José:** R1. First Stage Researcher.
- **Miguel Guijarro, María Ángeles:** R1. First Stage Researcher.
- **Orozco Galeano, Hugo David:** R1. First Stage Researcher.
- **Palencia, Jorge María:** R1. First Stage Researcher.
- **Reyes Osorio, Fidel Eduardo:** R1. First Stage Researcher.
- **Riaño Méndez, Bibiana:** R1. First Stage Researcher.
- **San Juan López, Erika:** R1. First Stage Researcher.
- **Sanz Fernández, Javier:** R2. Recognised Researcher.
- **Torre Oñate, María Teresa:** R1. First Stage Researcher.
- **Valera Cabo, Jesús Alberto:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–





Group Director: **MATILDE ZABALLOS GARCÍA**

Organisms involved: **HGUGM**

Type: **Associated Group**

## Research lines

### Axis 1: Anesthetic agents and cardiac electrophysiology

- ▶ L1: Study of anesthetic agents in the electrical properties of the heart.
- ▶ L2: Study of the cardiac toxicity of local anesthetics and reversion with antidotes.
- ▶ L3: Study of the pharmacokinetics of local anesthetics in peripheral block in animal models and electrophysiological effects

### Axis 2. Anaesthesia in major outpatient surgery

- ▶ L1: Supraglottic Devices in Major Outpatient Surgery.
  - ▶ L2: Pain in outpatient surgery
- Group members

## Group members

- **Almendral Garrote, Jesús:** R3. Established Researcher.
- **Anadón Baselga, María José:** R3. Established Researcher.
- **Callejo Crespo, David:** R2. Recognised Researcher.
- **García Ramos, Sergio:** R2. Recognised Researcher.
- **Quintela, Jorge, Óscar:** R3. Established Researcher.
- **Sevilla Bayón, Raúl:** R2. Recognised Researcher.
- **Varela García, Olalla:** R2. Recognised Researcher.
- **Zaballos García, Matilde:** R3. Established Researcher.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 3,3

	N°	IF
Own publications	1	3,3
Joint publications	0	0,0
First decile publications	0	-
First quartile publications	0	0,0
Second quartile publications	1	3,3
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	2	-
<b>Total publications (including those without IF)</b>	<b>3</b>	<b>3,3</b>





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

- Zaballos, M; Fernández, I; Rodríguez, L; García, S; Varela, O; Quintela, O; Anadon, MJ; Almendral, J. *Effects of intravenous lipid emulsions on the reversal of pacing-induced ventricular arrhythmias and electrophysiological alterations in an animal model of ropivacaine toxicity.* CLINICAL TOXICOLOGY. 2022; 60(8) 902-911. FI: 3.3. Cuartil: 2. (Article).
- Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor:
- García-Ramos, S; Fernández, I; Zaballos, M. *Lipid emulsions in the treatment of intoxications by local anesthetics and other drugs. Review of mechanisms of action and recommendations for use.* REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(7) 421-432. (Review).

**Other publications**

- García-Ramos S; Fernández I; Zaballos M. *Lipid emulsions in the treatment of intoxications by local anesthetics and other drugs. Review of mechanisms of action and recommendations for use.* REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(7) 421-432. (Article).





Group Director: **JOSÉ ANTONIO SERRA REXACH**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## 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 information and communication technologies (ICTs) to support frail patients with disability

### Axis 2: Disability associated with hospitalisation

- ▶ L1: Physical exercise to prevent hospitalization associated with disability

### Axis 3: Geriatric oncology

- ▶ L1: Relevance of comprehensive geriatric assessment in older patients with colorectal cancer
- ▶ L2: Physical exercise for older people with colorectal cancer

Our group develops its research activity in the clinical setting 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 enhance knowledge and innovation in this area.

## Group members

- **González Senac, Nicolás María:** R1. First Stage Researcher.
- **Montero Fernández, Nuria:** R2. Recognised Researcher.
- **Ortíz Alonso, Javier:** R3. Established Researcher.
- **Rodríguez López, Carlos:** R2. Recognised Researcher.
- **Romero Estarlich, Vicente:** R1. First Stage Researcher.
- **Serra Rexach, José Antonio:** R4. Leading Researcher.
- **Vidan Astiz, María Teresa:** R3. Established Researcher.
- **Zarralanga Lasobras Teresa:** R1. First Stage Researcher.





### Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	2			
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: 31/12/2024
- Title: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021  
Director: Serra Rexach, José Antonio  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 30/06/2022

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
CIBER	Centro de Investigación Biomédica en Red Fragilidad y Envejecimiento Saludable (CIBERFES)	Collaborating group
Others	Registro Nacional de Fractura de Cadera (RNFC)	Collaborating group

### Publications

Total Impact Factor: 22,3

	N°	IF
Own publications	1	4,0
Joint publications	5	18,3
First decile publications	0	–
First quartile publications	1	5,9
Second quartile publications	2	7,9
Third quartile publications	2	6,6
Fourth quartile publications	1	1,9
Nonindexed publications/No IF	1	–
<b>Total publications (including those without IF)</b>	<b>7</b>	<b>22,3</b>

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

- Pazan, F; Petrovic, M; Cherubini, A; Cruz-Jentoft, AJ; Denking, M; van der Cammen, TJM; Stevenson, JM; Ibrahim, K; Rajkumar, C; Bakken, MS; Crome, P; Gudmundsson, A; Knol, W; Sijnders, BMG; O'Mahony, D; Serra-Rexach, JA; Soulis, G; van Marum, RJ; Ziere, G; Mair, A; Burkhardt, H; Neumann-Podczaska, A; Wieczorowska-Tobis, K; Fernandes, MA; Gruner, H; van der Velde, N; Wehling, M. *A Systematic Review of the Current Evidence from Randomised Controlled Trials on the Impact of Medication Optimisation or Pharmacological Interventions on Quantitative Measures of Cognitive Function in Geriatric Patients.* DRUGS & AGING. 2022; 39(11) 863-874. FI: 2.8. Cuartil: 3. (Review).
- Boyano, I; Nieto, S; Serra, JA; Alcaide, M; Caparros, M; Varela, M. *An intergenerational programme delays health impairment in nursing home residents: the Duplo project.* EUROPEAN GERIATRIC MEDICINE. 2022; 13(6) 1365-1375. FI: 3.8. Cuartil: 3. (Article).
- Baltasar-Fernández, I; Ara, I; Rodríguez-López, C; García-García, FJ; Alegre, LM; Alcazar, J. *Response to commentary on "The sit-to-stand muscle power test: An easy, inexpensive and portable procedure to*



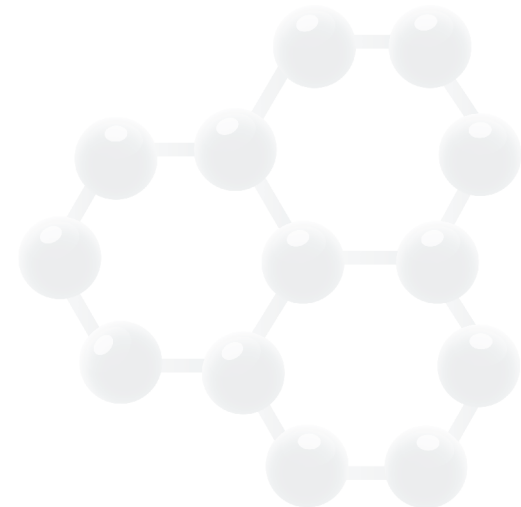


assess muscle power in older people". EXPERIMENTAL GERONTOLOGY. 2022; 162. FI: 3.9. Cuartil: 2. (Letter).

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- Jiménez-Méndez C; Díez-Villanueva P; Bonanad C; Ortiz-Cortés C; Barge-Caballero E; Goirigolzarri J; Esteban-Fernández A; Pérez-Rivera Á; Cobo M; López J; Sanz-García A; Guerrero C; Pardo HG; Robles C; Iglesias D; Pinilla JMG; Rodríguez LL; Formiga F; Martín-Sánchez FJ; Vidán MT; Ariza A; Martínez-Sellés M; Alfonso F. *Frailty and prognosis of older patients with chronic heart failure*. REVISTA ESPANOLA DE CARDIOLOGIA. 2022; 75(12) 1011-1019. FI: 5.9. Cuartil: 1. (Article).
- Escribano, P; Pérez-Granda, MJ; Alonso, R; Catalan, P; Alcalá, L; Serra-Rexarch, JA; Osuna, L; Fernández, A; Conti, A; Castellanos, A; Guinea, J; Muñoz P; Bouza, E. *High incidence of COVID-19 at nursing homes in Madrid, Spain, despite preventive measures*. REVISTA ESPANOLA DE QUIMIOTERAPIA. 2022; 35(3) 288-292. FI: 1.9. Cuartil: 4. (Article).

### Other publications

- Carrasco Paniagua C; Mayordomo Cava J; Zarralanga Lasobras T; González Chávez S; Ortiz Alonso J; Serra Rexach JA. *Recuperación funcional al alta y a tres meses tras una intervención multicomponente de ejercicio físico en ancianos hospitalizados en una unidad de agudos de geriatría*. REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2022; 57(3) 156-160. (Article).







Group Director: **MANUEL SÁNCHEZ-LUNA**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1: Pulmonary protection of preterm infants

- ▶ L1: Prevention and treatment of bronchopulmonary dysplasia.
- ▶ L2: Non-invasive respiratory support.
- ▶ L3: High-frequency oscillatory ventilation with very low volumes.
- ▶ L4: Non-invasive administration of pulmonary surfactants.
- ▶ L5: Aerosolised surfactant in an animal model.

### Axis 2: Neonatal Brain Pathology

- ▶ L1: Epigenetic mechanisms involved in neurodevelopmental disorders.
- ▶ L2: Biomarkers of oxidative stress and inflammation.
- ▶ L3: Study of the incidence of post-hemorrhagic hydrocephalus and associated risk factors.
- ▶ L4: Evaluation of an ultrasound prognostic score in preterm infants with gestational age less than or equal to 28 weeks with periventricular venous infarction.
- ▶ L5: Study of cerebral and somatic oxygenation during percutaneous closure of patent ductus arteriosus.
- ▶ L6: Renal damage in patients with hypoxic-ischemic encephalopathy.

### Axis 3: Neonatal imaging

- ▶ L1: Lung ultrasound as a diagnostic and prognostic tool in the pulmonary pathology of the premature patient.
- ▶ L2: Pulmonary ultrasound as a prognostic tool in the patient with heart disease.
- ▶ L3: Lung ultrasound and establishment of CFR at birth in preterm infants.

### Axis 4: Personalised Neonatal Nutrition

- ▶ L1: Evaluation of additional individualised protein supplementation to preterm infants fed standard fortified human milk.
- ▶ L2: Evaluation of the implementation of a personalised nutrition unit in a high complexity neonatal service.

### Axis 5: Neonatal pain research.

- ▶ L1: Prospective observational study to assess normal values of NIPE (parasympathetic tone) in preterm infants under 32 weeks at various times of development
- ▶ L2: Study of the prevalence of prolonged pain in newborns during neonatal intensive care.
- ▶ L3: Study of the efficacy of implementation of neonatal pain assessment tools.

### Axis 6: COVID 19 during gestation and in newborns

- ▶ L1: Clinical and immunovirological aspects of SARSCoV-2 infection in a cohort of pregnant women and newborns.

### Axis 7: Congenital heart disease

- ▶ L1: Management of chylothorax in cardiac surgery.
- ▶ L2: Perinatal management of the newborn with complete congenital atrioventricular block. Prospective study.
- ▶ L3: Study of renal damage in patients with heart disease.

### Axis 8: Morbimortality in the premature patient

- ▶ L1: Evolution of Mortality and Morbidity in preterm infants born before 32 weeks of gestation. Impact of changes in perinatal and neonatal management.
- ▶ L2: Prospective validation by means of a statewide multicentre study (RED-SAMID) of predictive models of prenatal mortality in premature infants.
- ▶ L3: Magnesium sulphate: relationship with meconium ileus in newborns under 32 weeks of gestational age.
- ▶ L4: Magnesium sulphate as neuroprotection.

### Axis 9: Optimisation of blood product administration

- ▶ L1: Value of oximetry as an indicator of the need for red cell concentrate transfusion.

### Axis 10: Technological innovation

- ▶ L1: Development of non-ionising neonatal imaging incubator.

### Axis 11: Neonatal resuscitation training

- ▶ L1: Study of the impact of periodic assessment on the retention of skills and knowledge acquired in neonatal resuscitation courses.





Group with established lines of research in animal and clinical experimental respiratory physiology, neonatal neurobiology, pain and personalised nutrition.

## Group members

- **Arriaga Redondo, María:** R2. Recognised Researcher.
- **Bernardo Atienza, Ana Belén.**
- **Blanco Bravo, Dorotea.**
- **Caballero Martín, Sylvia.**
- **Chimenti Camacho, Paz.**
- **González Pacheco, Noelia.**
- **Gregorio Hernández, Rebeca.**
- **Maderuelo Rodríguez, Elena.**
- **Marsinyach Ros, María Itziar.**
- **Pérez Pérez, Alba.**
- **Pescador Chamorro, María Isabel.**
- **Ramos Navarro, María Cristina.**
- **Rodríguez Sánchez de la Blanca, Ana.**
- **Sánchez Gómez de Orgaz, María del Carmen.**
- **Sánchez Luna, Manuel.**
- **Sanz López, Esther.**
- **Vigil Vázquez, Sara:** R1. First Stage Researcher.
- **Villar Castro, Sonia:** R1. First Stage Researcher.
- **Zamora Flores, Elena:** R1. First Stage Researcher.
- **Zeballos Sarrato, Gonzalo.**
- **Zeballos Sarrato, Susana Elena:** 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: **Ventilación de alta frecuencia oscilatoria con volumen garantizado en la prevención del daño pulmonar inducido por ventilación en un modelo animal neonatal.** PI17/00838  
 Director: Sánchez LUNA, MANUEL  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 30/06/2022
- 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: Sánchez LUNA, MANUEL  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2021  
 End date: 31/12/2023





Publications	Total Impact Factor: 80,5	
	Nº	IF
Own publications	13	33,6
Joint publications	15	46,9
First decile publications	1	4,4
First quartile publications	8	35,8
Second quartile publications	6	15,7
Third quartile publications	11	22,9
Fourth quartile publications	3	6,1
Nonindexed publications/No IF	10	–
<b>Total publications (including those without IF)</b>	<b>38</b>	<b>80,5</b>

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

- Solis-García, G; Maderuelo-Rodríguez, E; Pérez-Pérez, T; Torres-Soblechero, L; Gutiérrez-Velez, A; Ramos-Navarro, C; López-Martínez, R; Sánchez-Luna, M. *Longitudinal Analysis of Continuous Pulse Oximetry as Prognostic Factor in Neonatal Respiratory Distress*. AMERICAN JOURNAL OF PERINATOLOGY. 2022; 39(06) 677-682. FI: 2. Cuartil: 3. (Article).
- Manzoni, P; Baraldi, E; Luna, MS; Tziialla, C. *Real-World Studies of Respiratory Syncytial Virus Hospitalizations among Moderate/Late Preterm Infants Exposed to Passive Immunoprophylaxis with Palivizumab*. AMERICAN JOURNAL OF PERINATOLOGY. 2022; 39 7-13. FI: 2. Cuartil: 3. (Review).
- Sarrato, GZ; Avila-Álvarez, A; Fernández, RE; Renau, MI; Campillo, CWR; Robles, CG; Sanz, MI. *Spanish guide for neonatal stabilization and resuscitation 2021: Analysis, adaptation and consensus on international recommendations*. ANALES DE PEDIATRIA. 2022; 97(1). FI: 2.1. Cuartil: 3. (Article).
- Fernández, LR; Hernández, RG; Guerediaga, IS; Gato, JM; Fanjul, JR; Bilbao, VA; Quintela, PA; Ojembarrena, AA. *Usefulness of lung ultrasound in the diagnosis and follow-up of respiratory diseases in neonates*.

- ANALES DE PEDIATRIA. 2022; 96(2) 122-129. FI: 2.1. Cuartil: 3. (Article).
- Boix, H; Sánchez-Redondo, MD; Cernada, M; Fernández, MGE; González-Pacheco, N; Martín, A; Pérez-Munuzuri, A; Couce, ML. *Recommendations for transfusion of blood products in neonatology*. ANALES DE PEDIATRIA. 2022; 96(2). FI: 2.1. Cuartil: 3. (Article).
- Chamorro, MIP; Sarrato, SEZ; Ros, MIM; Sarrato, GZ; Isidro, EMM; Luna, MS. *Training, experience and need of booster courses in neonatal cardiopulmonary resuscitation. Survey to pediatricians*. ANALES DE PEDIATRIA. 2022; 96(4) 374-375. FI: 2.1. Cuartil: 3. (Editorial Material).
- Martín-Ancel, A; Pérez-Munuzuri, A; González-Pacheco, N; Boix, H; Fernández, MGE; Sánchez-Redondo, MD; Cernada, M; Couce, ML. *Perinatal palliative care*. ANALES DE PEDIATRIA. 2022; 96(3). FI: 2.1. Cuartil: 3. (Article).
- Barriopedro, LS; Pérez, AP; Atienza, BB; Martín, YR. *Diastematomyelia: "Hidden" spinal dysraphism?*. ANALES DE PEDIATRIA. 2022; 96(2) 138-144. FI: 2.1. Cuartil: 3. (Article).
- Valdovinos, AG; Arriaga-Redondo, M; Bitria, ED; Rodríguez, IP; Isidro, EM; Bravo, DB. *Prenatal therapy with magnesium sulphate and intestinal obstruction due to meconium in preterm newborns*. ANALES DE PEDIATRIA. 2022; 96(1). FI: 2.1. Cuartil: 3. (Article).
- Gutiérrez-Velez, A; Merino-Hernández, A; Chamorro, IP; Luna, MS; Huerta-Aragones, J. *Necrotizing enterocolitis after intravenous immunoglobulin administration and exchange transfusion in a newborn with hemolytic disease due to anti-c*. ANALES DE PEDIATRIA. 2022; 97(6) 427-429. FI: 2.1. Cuartil: 3. (Letter).
- del Castillo, YM; del Castillo, BT; Marchena, LN; Carmona, ML; Carretero, LM; Navarro, MCM; Ros, IM. *Challenges and current status of children pain management in Spain*. ANALES DE PEDIATRIA. 2022; 97(3). FI: 2.1. Cuartil: 3. (Article).
- Avila-Álvarez, A; Zozaya, C; Pertega-Díaz, S; Sánchez-Luna, M; Iriondo-Sanz, M; Elorza, MD; Rodrigo, FGM; Spanish Neonatal Network SEN1500. *Temporal trends in respiratory care and bronchopulmonary dysplasia in very preterm infants over a 10-year period in Spain*. ARCHIVES OF DISEASE IN CHILDHOOD-FETAL AND NEONATAL EDITION. 2022; 107(2) 143-149. FI: 4.4. Cuartil: 1. (Article).





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- Gregorio-Hernández, R; Pérez-Pérez, A; Alonso-Ojembarrena, A; Arriaga-Redondo, M; Ramos-Navarro, C; Sánchez-Luna, M. *Neonatal pneumothoraces with atypical location: the role of lung ultrasound*. EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(4) 1609-1618. FI: 3.6. Cuartil: 1. (Article).
- Arriaga-Redondo, M; Bravo, DB; del Hoyo, AA; Arrondo, AP; Martín, YR; Sánchez-Luna, M. *Prognostic value of somatosensory-evoked potentials in the newborn with hypoxic-ischemic encephalopathy after the introduction of therapeutic hypothermia*. EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(4) 1751-1756. FI: 3.6. Cuartil: 1. (Article).
- Ramos-Navarro, C; Maderuelo-Rodríguez, E; Concheiro-Guisan, A; Pérez-Tarazona, S; Rueda-Esteban, S; Sánchez-Torres, A; Sánchez-Solis, M; Sanz-López, E; Sánchez-Luna, M; GEIDIS Res Network. *Risk factors and bronchopulmonary dysplasia severity: data from the Spanish Bronchopulmonary Dysplasia Research Network*. EUROPEAN JOURNAL OF PEDIATRICS. 2022; 181(2) 789-799. FI: 3.6. Cuartil: 1. (Article).
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- Avila-Álvarez, A; Rodrigo, FGM; Solis-García, G; Pertega-Díaz, S; Luna, MS; Iriondo-Sanz, M; Fernández, DE; Zozaya, C. *Nasal Intermittent Positive Pressure Ventilation and Bronchopulmonary Dysplasia Among Very Preterm Infants Never Intubated During the First Neonatal Admission: A Multicenter Cohort Study*. FRONTIERS IN PEDIATRICS. 2022; 10. FI: 2.6. Cuartil: 2. (Article).
- Lehtonen, L; Lillieskold, S; De Coen, K; Toome, L; Gimeno, A; Caballero, S; Tameliene, R; Laroche, S; Retpap, J; Grundt, H; Van Hoestenbergh, MR; Skene, C; Pape, B; Axelin, A. *Parent-infant closeness after preterm birth and depressive symptoms: A longitudinal study*. FRONTIERS IN PSYCHOLOGY. 2022; 13. FI: 3.8. Cuartil: 1. (Article).
- Ramos-Navarro, C; Sánchez-Luna, M; Zeballos-Sarrato, S; Pescador-Chamorro, I. *Antenatal corticosteroids and the influence of sex on morbidity and mortality of preterm infants*. JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE. 2022; 35(18) 3438-3445. FI: 1.8. Cuartil: 4. (Article).
- Solis-García, G; Ramos-Navarro, C; González-Pacheco, N; Sánchez-Luna, M. *Lung protection strategy with high-frequency oscillatory ventilation improves respiratory outcomes at two years in preterm respiratory distress syndrome: a before and after, quality improvement study*. JOURNAL OF MATERNAL-FETAL & NEONATAL MEDICINE. 2022; 35(26) 10698-10705. FI: 1.8. Cuartil: 4. (Article).
- Dagklis, T; Sen, C; Tsakiridis, I; Villalain, C; Allegaert, K; Wellmann, S; Kusuda, S; Serra, B; Luna, MS; Huertas, E; Volpe, N; Ayala, R; Jekova, N; Grunebaum, A; Stanojevic, M. *The use of antenatal corticosteroids for fetal maturation: clinical practice guideline by the WAPM-World Association of Perinatal Medicine and the PMF-Perinatal Medicine foundation*. JOURNAL OF PERINATAL MEDICINE. 2022; 50(4) 375-385. FI: 2.4. Cuartil: 2. (Article).
- Avila-Álvarez, A; Campillo, CWR; Zeballos-Sarrato, G; Iriondo-Sanz, M; Thio, M. *Time to improve documentation of neonatal resuscitation: a narrative review*. MINERVA PEDIATRICS. 2022; 74(6) 766-773. FI: 2.6. Cuartil: 2. (Review).
- Trevisanuto, D; Gizzi, C; Gagliardi, L; Ghirardello, S; Di Fabio, S; Beke, A; Buonocore, G; Charitou, A; Cucerea, M; Degtyareva, MV; Filipovic-Grcic, B; Jekova, NG; Koc, E; Saldanha, J; Luna, MS; Stoniene, D; Varendi, H; Vertecchi, G; Mosca, F; Moretti, C; Comm. *Neonatal Resuscitation Practices in Europe: A Survey of the Union of European Neonatal and Perinatal Societies*. NEONATOLOGY. 2022; 119(2) 184-192. FI: 2.5. Cuartil: 2. (Article).
- Alonso-Ojembarrena, A; Montero-Gato, J; Gregorio-Hernández, R; Aldecoa-Bilbao, V; Alonso-Quintela, P; Rodríguez-Fanjul, J; Concheiro-Guisan, A; Trujillo-Fagundo, A; García-Ojanguren, AM; de las Heras-Martín, M; Pérez-Pérez, A; Teresa-Palacio, M; Duran-Fernández-Feijoo, C; Morales-Arandojo, P; Pumarada-Prieto, M; Oulego-Erroz, I. *Lung Ultrasound Scores Progress Differently in Extreme and Very Preterm*





*Infants after Birth: A Multicentre Prospective Study.* NEONATOLOGY. 2022; 558-566. FI: 2.5. Cuartil: 2. (Article).

- Vandenplas, Y; Ksiazzyk, J; Luna, MS; Migacheva, N; Picaud, JC; Ramenghi, LA; Singhal, A; Wabitsch, M. *Partial Hydrolyzed Protein as a Protein Source for Infant Feeding: Do or Don't?*. NUTRIENTS. 2022; 14(9). FI: 5.9. Cuartil: 1. (Article).
- Vigil-Vázquez, S; Carrasco-García, I; Hernanz-Lobo, A; Manzanares, A; Pérez-Pérez, A; Toledano-Revenga, J; Muñoz-Chapulí, M; Mesones-Guerra, L; Martínez-Lozano, A; Pérez-Seoane, B; Márquez-Isidro, E; Sanz-Asin, O; Caro-Chinchilla, G; Sarda-Sánchez, M; Solaz-García, A; López-Carnero, J; Pareja-León, M; Rianza-Gómez, M; Ortiz-Barquero, MC; León-Luis, JA; Fernández-Acenero, MJ; Muñoz-Fernández, MA; Catalan-Alonso, P; Muñoz-García, P; Sánchez-Luna, M; Navarro-Gómez, ML. *Impact of Gestational COVID-19 on Neonatal Outcomes Is Vertical Infection Possible?*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(6) 466-472. FI: 3.6. Cuartil: 1. (Article).
- Solís-García, G; González-Pacheco, N; Ramos-Navarro, C; Vigil-Vázquez, S; Gutiérrez-Velez, A; Merino-Hernández, A; de la Blanca, ARS; Sánchez-Luna, M. *Lung recruitment in neonatal high-frequency oscillatory ventilation with volume-guarantee.* PEDIATRIC PULMONOLOGY. 2022; 57(12) 3000-3008. FI: 3.1. Cuartil: 2. (Article).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Luna, MS; Unnebrink, K; Martínez-Tristani, M; Navarro, CR. *Less Invasive Surfactant Administration: A Review of Current Evidence of Clinical Outcomes With Beractant.* CUREUS JOURNAL OF MEDICAL SCIENCE. 2022; 14(10). (Review).
- Martín, BC; Pulido, MA; Pulido, RA; Chamorro, IP; Pensado, AP; González, LB. *Use of intraoperative high frequency oscillatory ventilation in neonates with pulmonary hypoplasia.* REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2022; 69(9) 602-605. (Article).
- Bragado, S; Zeballos, SE; Luna, C; Sánchez-Luna, M. *Review of arterial ischemia in newborns: two case reports.* REVISTA MEDICA CLINICA LAS CONDES. 2022; 33(6) 627-631. (Review).

#### **Other publications**

- Pescador Chamorro MI; Zeballos Sarrato SE; Marsinyach Ros MI; Zeballos Sarrato G; Márquez Isidro EM; Sánchez Luna M. *Training, experience and need of booster courses in neonatal cardiopulmonary resuscitation. Survey to pediatricians.* ANALES DE PEDIATRIA. 2022; 96(4) 294-299. (Article).
- Caballero Martín S; Sánchez Gómez de Orgaz MDC; Sánchez Luna M. *Quality study of Holder pasteurization of donor human milk in a neonatal personalized nutrition unit.* ANALES DE PEDIATRIA. 2022; 96(2) 122-129. (Article).
- Gochi Valdovinos A; Arriaga-Redondo M; Dejuan Bitriá E; Pérez Rodríguez I; Márquez Isidro E; Blanco Bravo D. *Prenatal therapy with magnesium sulphate and intestinal obstruction due to meconium in preterm newborns.* ANALES DE PEDIATRIA. 2022; 96(3) 280-281. (Article).
- Gutiérrez-Vélez A; Solís-García G; Zamora-Flores E; Sánchez-Luna M. *COVID-19: HUMANIZACIÓN EN LAS UNIDADES NEONATALES. RESPUESTA DE LOS AUTORES.* ANALES DE PEDIATRIA. 2022; 96(2) 138-144. (Article).
- Zeballos Sarrato G; Ávila-Álvarez A; Escrig Fernández R; Izquierdo Renau M; Ruiz Campillo CW; Gómez Robles C; Iriondo Sanz M. *Spanish guide for neonatal stabilization and resuscitation 2021: Analysis, adaptation and consensus on international recommendations.* ANALES DE PEDIATRIA. 2022; 97(6) 383-389. (Article).
- Toledano Revenga J; Peña-Moreno A; Arriaga-Redondo M; Márquez Isidro EM; Gochi Valdovinos A; Blanco Bravo D; Sánchez Luna M. *Antenatal magnesium sulphate and delayed passage of meconium: A multicentre study.* ANALES DE PEDIATRIA. 2022; 96(2). (Article).
- Villanueva-Bueno C; Montecatine-Alonso E; Jiménez-Parrilla F; Fernández-Llamazares CM; Manrique-Rodríguez S; Zamora-Flores E; Dolz E; Fernández-Polo A; Catillo-Salinas F; Comuñas J; Gallego-Fernández C; González-López M; Gómez-Trevecido Calvo MT; Gázquez-Pérez R; Álvarez Del Vayo-Benito C; Gil-Navarro MV. *Antimicrobial defined daily dose in neonatal population.* ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(2) 59-65. (Article).





Group Director: **NIEVES LÓPEZ FRESNEÑA**

Organisms involved: **HGUGM**

Type: Emerging Group

## Research lines

### Axis 1: Precision medicine, innovation, regenerative medicine and big data

- ▶ L1: Evaluation of health services and public health programs.
- ▶ L2: Patient safety and management of risks resulting from clinical practice.
- ▶ L3: Prevention of health care-related infections.

### Axis 2: Boosting research in primary care and nursing

- ▶ L1: Evaluation of health services and public health services.

## Group members

- **Díaz Redondo, Alicia.**
- **Fernán Pérez, Patricia.**
- **Funes Molina, Carmen.**
- **García Expósito, Esther.**
- **Garzón Sánchez, Ana.**
- **González Verdu, Gemma.**
- **Grande Arnesto, Marta Beatriz.**
- **Izquierdo Membrilla, María Isabel.**
- **López Fresneña, Nieves.**
- **Martín García, Paula.**
- **Martínez de Albéniz Arriarán, María Elena.**
- **Molina Villaverde, Diana.**
- **Morano Vázquez, Aitana.**
- **Moreno Ortega, Elena.**
- **Nieto Pereda, Beatriz.**
- **Pla Mestre, Rosa.**
- **Puente González, Dolores.**
- **Rapela Freire, Alba.**
- **Rodríguez Campelo, Dan.**
- **Ruano Santa Engracia, María Jesús.**
- **Ruiz Tornero, Ana.**
- **Vigil Escribano, María Dolores.**

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–





Publications	Total Impact Factor: 30,7	
	Nº	IF
Own publications	1	1,1
Joint publications	4	29,6
First decile publications	1	19,0
First quartile publications	1	19,0
Second quartile publications	2	8,5
Third quartile publications	1	2,1
Fourth quartile publications	1	1,1
Nonindexed publications/No IF	1	–
<b>Total publications (including those without IF)</b>	<b>6</b>	<b>30,7</b>

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

- Mora-Capin, A; Ignacio-Cerro, C; Díaz-Redondo, A; Vázquez-López, P; Marañón-Pardillo, R. *Impact of risk mapping as a strategy for monitoring and improving patient safety in paediatric emergency care*. ANALES DE PEDIATRIA. 2022; 97(4) 229-236. FI: 2.1. Cuartil: 3. (Article).
- Vallejo-Plaza, A; Rodríguez-Cabrera, F; Sebastián, VH; Herrador, BRG; Balader, PS; Rodríguez-Alarcón, LGS; Franco, AD; Sánchez, AG; Moros, MJS; Soria, FS; Rodríguez, BS. *Mpox (formerly monkeypox) in women: epidemiological features and clinical characteristics of mpox cases in*

*Spain, April to November 2022*. EUROSURVEILLANCE. 2022; 27(48) 6-10. FI: 19. Cuartil: 1. (Article).

- Mortier P; Vilagut G; Alayo I; Ferrer M; Amigo F; Aragonès E; Aragón-Peña A; Asúnsolo Del Barco A; Campos M; Espuga M; González-Pinto A; Haro JM; López Fresneña N; Martínez de Salázar A; Molina JD; Ortí-Lucas RM; Parellada M; Pelayo-Terán JM; Pérez-Gómez B; Pérez-Zapata A; Pijoan JI; Plana N; Polentinos-Castro E; Portillo-Van Diest A; Puig MT; Rius C; Sanz F; Serra C; Urreta-Barallobre I; Kessler RC; Bruffaerts R; Vieta E; Pérez-Solá V; Alonso J. *Four-month incidence of suicidal thoughts and behaviors among healthcare workers after the first wave of the Spain COVID-19 pandemic*. JOURNAL OF PSYCHIATRIC RESEARCH. 2022; 149 10-17. FI: 4.8. Cuartil: 2. (Article).
- Pérez-Lago, L; Machado, M; Gómez-Ruiz, MD; Sola-Campoy, PJ; Buenestado-Serrano, S; De La Cueva-García, VM; Herranz, M; Zayas, CA; Sánchez-Arcilla, I; Flores-García, RF; López-Fresnena, N; Jose, SGD; Catalan, P; Muñoz, P; de Viedma, DG; Gregorio Marañón Microbiol-ID COVI. *Nosocomial Transmission of SARS-CoV-2 Involving Vaccinated Health Care Workers*. MICROBIOLOGY SPECTRUM. 2022; 10(1). FI: 3.7. Cuartil: 2. (Article).
- Ruiz-Tornero, AM; Sánchez-Recio, R. *Tuberculosis and socioeconomic factors in spanish population: a systematic review*. REVISTA ESPANOLA DE SALUD PUBLICA. 2022; 96. FI: 1.1. Cuartil: 4. (Article).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Maroto, MM; González, GG; Royo, CN; Martín, AN; Redondo, AD; Saez, AS; Hernández, AP. *Impact of the COVID-19 pandemic on patient safety incident and medication error reporting systems*. JOURNAL OF HEALTHCARE QUALITY RESEARCH. 2022; 37(6) 397-407. (Article).



Group Director: **MARÍA SANJURJO SÁEZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Pharmacotherapy and Safety

- ▶ L1: Pharmaceutical care and quality in pharmacotherapy
- ▶ L2: Safety in the process of drug use
- ▶ L3: New models in drug development

### Axis 2. Pharmacogenetics and Pharmacogenomics

- ▶ L1: Pharmacogenetics and Pharmacogenomics

The Hospital Pharmacy and Pharmacogenomics research group is included in the Research Area called 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 clinical research of a high scientific-technical level with quality basic research in order to improve the health and quality of life of people by contributing to scientific progress.

## Group members

- **Ais Larisgoitia, María Aránzazu:** R1. First Stage Researcher.
- **Alba Risquet, Fe:** R1. First Stage Researcher.
- **Bustelo Paz, Fernando:** R2. Recognised Researcher.
- **Carrillo Burdallo, Anais:** R2. Recognised Researcher.
- **Cavada Carranza, Irene:** R2. Recognised Researcher.

- **Chamorro de Vega, Esther:** R2. Recognised Researcher.
- **Collado Borrell, Roberto:** R2. Recognised Researcher.
- **De Lorenzo Pinto, Ana:** R2. Recognised Researcher.
- **Durán García, María Esther:** R2. Recognised Researcher.
- **Escudero Vilaplana, Vicente:** R2. Recognised Researcher.
- **Ferris Villanueva, María:** R1. First Stage Researcher.
- **García González, Xandra:** R2. Recognised Researcher.
- **García Moreno, Félix Jesús:** R1. First Stage Researcher.
- **Giménez Manzorro, Álvaro:** R2. Recognised Researcher.
- **Gómez Costas, Daniel:** R1. First Stage Researcher.
- **Gómez Martínez-Sagrera, Patricia:** R2. Recognised Researcher.
- **González-Haba Peña, Eva:** R2. Recognised Researcher.
- **Herranz Alonso, Ana:** R2. Recognised Researcher.
- **Herrero Bermejo, Sergio:** R1. First Stage Researcher.
- **Ibáñez García, Sara:** R2. Recognised Researcher.
- **Lobato Matilla, María Elena:** R1. First Stage Researcher.
- **López Fernández, Luis Andrés:** R3. Established Researcher.
- **López Santiago, Marta:** R1. First Stage Researcher.
- **Manrique Rodríguez, Silvia:** R2. Recognised Researcher.
- **Martín, Barbero, María Luisa:** R1. First Stage Researcher.
- **Martínez Fernández-Llamazares, Cecilia:** R2. Recognised Researcher.
- **Montero Antón, María Pilar:** R1. First Stage Researcher.
- **Mur Mur, Ana:** R1. First Stage Researcher.
- **Narrillos Moraza, Álvaro:** R1. First Stage Researcher.
- **Ortega Navarro, María Cristina:** R1. First Stage Researcher.
- **Pernia López, María Sagrario:** R1. First Stage Researcher.
- **Pizarro Gómez, Carolina:** R1. First Stage Researcher.
- **Prieto Romero, Antonio:** R2. Recognised Researcher.

Continued on next page





Group members (cont.)

- **Redondo Galán, Carmen:** R1. First Stage Researcher.
- **Reuelta Herrero, Jose Luis:** R1. First Stage Researcher.
- **Ribed Sánchez, Almudena:** R2. Recognised Researcher.
- **Rioja Díez, Yeray:** R1. First Stage Researcher.
- **Rodríguez González, Carmen Guadalupe:** R2. Recognised Researcher.
- **Romero Jiménez, Rosa María:** R2. Recognised Researcher.
- **Ruiz Briones, Paula:** R1. First Stage Researcher.
- **Salvador Martín, Sara:** R2. Recognised Researcher.
- **Sánchez Fresneda, María Norberta:** R1. First Stage Researcher.
- **Sanjurjo Saez, María:** R4. Leading Researcher.
- **Sarobe González, Camino:** R1. First Stage Researcher.
- **Somoza Fernández, Beatriz:** R1. First Stage Researcher.
- **Taladriz Sender, Irene:** R1. First Stage Researcher.
- **Torroba Sanz, Beatriz:** R1. First Stage Researcher.
- **Vicente Valor, Juan:** R1. First Stage Researcher.
- **Villanueva Bueno, Cristina:** R1. First Stage Researcher.
- **Zapata Cobo, Paula:** R1. First Stage Researcher.

Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	7			
Regional			1	

- Title: **Proyecto DOLMEN. Identificación de variantes genéticas asociadas a Trastorno por dolor, Trastorno por Uso de Opioides y otros Trastornos mentales (patología dual) y Evaluación de la implantación de un programa de atención integral.** DRO2021/057  
 Director: López Fernández, Luis Andrés  
 Project type: Research project  
 Funding body: Ministerio de Sanidad, SS Sociales e Igualdad  
 Start date: 01/01/2022  
 End date: 31/12/2024
- Title: **Desarrollo de hidrogeles e implantes personalizados mediante impresión 3D para el tratamiento de infecciones de prótesis articulares y válvulas cardiacas.** PID2021-1263100A-I00  
 Director: Ribed Sánchez, Almudena  
 Project type: Research project  
 Funding body: Ministerio de Sanidad, SS Sociales e Igualdad  
 Start date: 01/01/2022  
 End date: 31/12/2025
- 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, Mª José  
 Funding body: Instituto de Salud Carlos III  
 Type of Project: Research project  
 Start date: 01/01/2022  
 End date: 31/12/2025
- 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: 31/12/2024





- 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: 31/12/2023
- 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: 31/12/2023
- Title: Marcadores genéticos, transcriptómicos y celulares de respuesta a terapia biológica en enfermedad inflamatoria intestinal pediátrica.** PI19/00792  
 Director: López Fernández, Luis Andrés  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: Young employment contract. Research Assistant.** PEJ-2021-AI/BMD-21866  
 Director: López Fernández, Luis Andrés (Zapata Cobo, Paula)  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/10/2022  
 End date: 30/09/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	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.

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

### Copyright

Title	Reference	Owner	Inventors
Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas	Nº Asiento Registral: 16/2013/5179	FIBHGM	Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez
Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos	Nº Asiento Registral: 16/2011/7360	FIBHGM	Amelia Caridad Sánchez y Silvia Manrique Rodríguez
Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal de enfermería de planta y evaluación de su competencia	Nº Asiento Registral: 16/2015/503	FIBHGM	Elena Lobato, María Sanjurjo, Ana Herranz, Carmen Rodríguez
E-OncoSalud: Programa de Telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico	Nº Asiento Registral: 16/2016/987	FIBHGM	María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez

Continued on next page





### Copyright (Cont.)

Title	Reference	Owner	Inventors
NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal	Nº Asiento Registral: 16/2016/989	FIBHGM	Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, M <sup>a</sup> Luisa Martín, M <sup>a</sup> Ángeles Goicoechea, Eduardo Verde, José Luño
Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes o/ antiagregados	Nº Asiento Registral: 16/2017/507	FIBHGM	Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez
Control- Sugar24: calculadora para la insulinización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria	Nº Asiento Registral: 16/2017/6705	FIBHGM	Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García
PK-GUIDE: Guía para monitorización clínica de fármacos	Nº Asiento Registral: 16/2017/6956	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, M <sup>a</sup> Luisa Galiano, Margarita Ganzo, María Sanjurjo, M <sup>a</sup> Teresa Vidán
PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética	Nº Asiento Registral: 16/2017/6957	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, M <sup>a</sup> Luisa Galiano, Margarita Ganzo, María Sanjurjo, M <sup>a</sup> Teresa Vidán
Calculadora AMBAS: Calculadora para el manejo pre y postoperatorio del tratamiento antibiótico	16/2022/7149	FIBHGM	Almudena Ribed, Álvaro Giménez, Ana de Lorenzo, María Cristina Pascual, Francisco Chana, Ana María Herranz, María Sanjurjo
Rentaensayos: Herramientas para analizar los costes evitados en medicamentos con los ensayos clínicos oncológicos	16/2022/2482	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
Manual de Atención farmacéutica al paciente oncohematológico	Nº Asiento Registral: 16/2021/7894	FIBHGM	José Luis Revuelta, Belén Marzal, Irene Taladriz, Eva González-Haba, Roberto Collado, Vicente Escudero, María Norberta Sánchez, Ana Herranz, María Sanjurjo

Title	Reference	Owner	Inventors
e-MIDCARE: aplicación de la e-Salud en la comunicación y seguimiento de los pacientes diagnosticados de enfermedades inflamatorias inmunomediadas (IMID)	16/2022/660	FIBHGM	Vicente Damián Escudero, Rosa María Romero, Eshter Chamorro, María Aranzazu Ais, María Elena Lobato, Ana María Herranz, María Sanjurjo
Programa de Humanización 2020 - 2023 del Servicio de Farmacia del Hospital General Universitario Gregorio Marañón	16/2022/7358	FIBHGM	María Sanjurjo, Ana Herranz, Camino Sarobe, Carmen Guadalupe Rodríguez, Belén Marzal, Eva González-Haba, Nuria García

■ Transferred Intellectual Property.

### Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
Platform	Unidades de las Plataformas ISCIII de apoyo a la I+D+i en Biomedicina y Ciencias de la Salud	Collaborating group





## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Jesús López-Herce Cid, Custodio Calvo Macías, Gonzalo Zeballos Sarrato, Cecilia Martínez Fernández-Llamazares	Material y carros de reanimación cardiopulmonar pediátrica y neonatal	Manual de RCP pediátrica y neonatal. 978-84-945715-4-1
Enrique Contreras Macías, Ramón Morillo Verdugo, María de las Aguas Robustillo Cortés, Pilar Taberner Bonastre, José Manuel Vinuesa Hernando, Ismael Escobar Rodríguez, Carlos Folguera Ollás, Rosa Fuster Ruíz de Apodaca, Mercedes Gimeno Gracia, Aitziber Illaro	Guía práctica de atención farmacéutica multidisciplinar y multidimensional para Pacientes con infección por VIH en tratamiento con fármacos long-acting	<a href="https://www.sefh.es/bibliotecavirtual/sefh_vih/guiapract_VIH.pdf?ts=20221201091642">https://www.sefh.es/bibliotecavirtual/sefh_vih/guiapract_VIH.pdf?ts=20221201091642</a>
Roberto Collado Borrell, Anna de Dios López, Vicente Escudero Vilaplana, Mar Gomis Pastor, Ana Herranz Alonso, María Antònia Mangues Bafalluy	Guía práctica para la implantación de apps de salud en los Servicios de Farmacia. Proyecto Salud Móvil SEFH	978-84-09-40911-2
Cristina Villanueva-Bueno, Vicente Escudero-Vilaplana, Roberto Collado-Borrell, Álvaro Giménez-Manzorro, Almudena Ribed, Belén Marzal-Alfaro, José Luis Revuelta-Herrero, Eva González-Haba, Ana Herranz, María Sanjurjo.	Medication Guide for the perioperative management of oral antineoplastic agents in cancer patients	2022 Jan;21(1):107-119. doi: 10.1080/14740338.2021.1965990
Escudero-Vilaplana V, Bernal E, Casado G, Collado-Borrell R, Diez-Fernández R, Fernández Román AB, Folguera C, González-Cortijo L, Herrero-Fernández M, Marquina G, Martínez Nieto C, Rodríguez MA, Rubio AR, Sanmartin-Fenollera P, Vázquez Castillo MJ, Comellas	Defining a Standard Set of Patient-Reported Outcomes for Patients With Advanced Ovarian Cancer	Front Oncol. 2022 May 18; 12: 885910. doi: 10.3389/fonc.2022.885910
Álvaro Giménez Manzorro y colaboradores	Criterios para el uso racional de inmunoglobulinas humanas. Madrid: Consejería de Sanidad, Servicio Madrileño de Salud	"Criterios para el uso racional de inmunoglobulinas humanas. Madrid: Consejería de Sanidad, Servicio Madrileño de Salud; noviembre 2021. p. 23 (Criterios; no. 11). Disponible en: <a href="https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx">https://saludanv.salud.madrid.org/farmacia/Paginas/Publicaciones/GuíasProtocolos.aspx</a> "

Authors	Title	Journal/Reference
Silvia Valero-García, Eva González-Haba, María Queralto Gorgas-Torner, José María Alonso-Herreros, Ana Cristina Cercós Lletí, José Luis Poveda-Andrés, Miguel Ángel Calleja-Hernández, Olga Delgado-Sánchez	Monitoring contamination of hazardous drug compounding surfaces at hospital pharmacy departments. A consensus Statement. Practice guidelines of the Spanish Society of Hospital Pharmacists (SEFH)	Practice Guideline Farm Hosp. 2021 Mar 11;45(2):96-107. PMID: 33709894 DOI: 10.7399/fh.11655
Cecilia Martínez, Silvia Manrique, Elena Lobato, Arantza Ais, Roberto Collado	Atención Farmacéutica en pediatría	Guía de Prácticas Tuteladas en Farmacia Hospitalaria. 2ª Edición - Septiembre 2021, 2ª Ed. Valencia: Reproexpres SL; 2021. p. 105-110. 978-84-123162-8-5
Álvaro Giménez, Ana de Lorenzo, Vicente Escudero	Evaluación y selección de medicamentos	Guía de Prácticas Tuteladas en Farmacia Hospitalaria. 2ª Edición - Septiembre 2021, 2ª Ed. Valencia: Reproexpres SL; 2021. p. 29-35. 978-84-123162-8-5
Ana de Lorenzo	Infección del tracto urinario. Pielonefritis aguda y cólico nefrítico	Guía de actuación de médico de Urgencias nefrítico
Pilar García-Alfonso, Miriam Saiz-Rodríguez, Rebeca Mondéjar, Juliana Salazar Blanco, David Páez, Alberto Borobia Pérez, María José Safont Aguilera, Irene García García, Ramon Colomer, Xandra García-González, María José Herrero, Luis A. López Fernández, Francisco Abad-Santos.	Consensus of experts from the Spanish Pharmacogenetics and Pharmacogenomics Society and the Spanish Society of Medical Oncology for the genotyping of DPYD in cancer patients who are candidates for treatment with fluoropyrimidines	Clinical and Translational Oncology. 2022;24(3):483-494; doi: 10.1007/s12094-021-02708-4

Continued on next page







## Clinical Practice Guidelines (Cont.)

Authors	Title	Journal/Reference
Ramón Morillo; Amaya Arrondo; Roberto Collado; Marcelo Domínguez; Aurora Fernández; Mar Gomis; Elena González; Esperanza Gutiérrez; Aránzazu Linares; María Ángeles Parro; Miguel Ángel	Guía de Telefarmacia para profesionales	SEFH- ESTRATEGIA DE DESARROLLO Y EXPANSIÓN DE LA TELEFARMACIA EN ESPAÑA Documentos de apoyo metodológico. 978-84-09-38412-9
Ramón Morillo; Amaya Arrondo; Roberto Collado; Marcelo Domínguez; Aurora Fernández; Mar Gomis; Elena González; Esperanza Gutiérrez; Aránzazu Linares; María Ángeles Parro; Miguel Ángel	Guía de Telefarmacia para pacientes	SEFH- ESTRATEGIA DE DESARROLLO Y EXPANSIÓN DE LA TELEFARMACIA EN ESPAÑA Documentos de apoyo metodológico. 978-84-09-37543-1

## Publications

Total Impact Factor: 143,2

	Nº	IF
Own publications	20	86,2
Joint publications	13	57,0
First decile publications	4	36,5
First quartile publications	11	76,0
Second quartile publications	8	35,2
Third quartile publications	6	17,3
Fourth quartile publications	8	14,7
Nonindexed publications/No IF	11	–
<b>Total publications (including those without IF)</b>	<b>44</b>	<b>143,2</b>

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

- García-Moreno, FJ; Escobar-Castellanos, M; Marañón, R; Rivas-García, A; Manrique-Rodríguez, S; Mora-Capin, A; Fernández-Llamazares, CM. *Adequacy of pediatric antimicrobial prescribing in the Emergency*

*Department at discharge.* ANALES DE PEDIATRIA. 2022; 96(2) 157. FI: 2.1. Cuartil: 3. (Letter).

- Aguilera-Alonso, D; Campos, LM; Llamazares, CMF; Calvo, C; Baquero-Artigao, F; Grp Trabajo PROA SEIP. *New antibiotic susceptibility testing definitions: "I" no longer means intermediate susceptibility.* ANALES DE PEDIATRIA. 2022; 96(3) 179-189. FI: 2.1. Cuartil: 3. (Article).
- Amor-García, MA; Rodríguez-González, CG; Chamorro-de-Vega, E; Herranz-Alonso, A; Sanjurjo-Saez, M. *Dolutegravir-Based Dual Therapies in HIV Pretreated Patients: A Real-Life Study in Madrid.* ANNALS OF PHARMACOTHERAPY. 2022; 56(4) 401-411. FI: 2.9. Cuartil: 3. (Article).
- Vicente-Valor, J; García-González, X; Ibanez-García, S; Duran-García, ME; de Lorenzo-Pinto, A; Rodríguez-González, C; Mendez-Fernández, I; Percovich-Hualpa, JC; Herranz-Alonso, A; Sanjurjo-Saez, M. *PCSK9 inhibitors revisited: Effectiveness and safety of PCSK9 inhibitors in a real-life Spanish cohort.* BIOMEDICINE & PHARMACOTHERAPY. 2022; 146 112519-112519. FI: 7.5. Cuartil: 1. (Article).
- Tejerina, F; Catalan, P; Rodríguez-Grande, C; Adan, J; Rodríguez-González, C; Muñoz, P; Aldamiz, T; Diez, C; Pérez, L; Fanciulli, C; de Viedma, DG; Gregorio Marañón Microbiol ID COVI. *Post-COVID-19 syndrome. SARS-CoV-2 RNA detection in plasma, stool, and urine in patients with persistent symptoms after COVID-19.* BMC INFECTIOUS DISEASES. 2022; 22(1). FI: 3.7. Cuartil: 3. (Article).
- Enriquez-Gómez, A; Ortega-Navarro, C; Fernández-Cordon, C; Diez-Villanueva, P; Martínez-Selles, M; de Lorenzo-Pinto, A; de Miguel-Yanes, JM. *Comparison of a polypharmacy-based scale with Charlson comorbidity index to predict 6-month mortality in chronic complex patients after an ED visit.* BRITISH JOURNAL OF CLINICAL PHARMACOLOGY. 2022; 88(4) 1795-1803. FI: 3.4. Cuartil: 2. (Article).
- García-Alfonso, P; Saiz-Rodríguez, M; Mondejar, R; Salazar, J; Paez, D; Borobia, AM; Safont, MJ; García-García, I; Colomer, R; García-González, X; Herrero, MJ; López-Fernández, LA; Abad-Santos, F. *Consensus of experts from the Spanish Pharmacogenetics and Pharmacogenomics Society and the Spanish Society of Medical Oncology for the genotyping of DPYD in cancer patients who are candidates for treatment with fluoropyrimidines.* CLINICAL & TRANSLATIONAL ONCOLOGY. 2022; 24(3) 483-494. FI: 3.4. Cuartil: 3. (Article).



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- Gil-Manso, S; Blanco, IM; Motyka, B; Halpin, A; López-Esteban, R; Pérez-Fernández, VA; Carbonell, D; López-Fernández, LA; West, L; Correa-Rocha, R; Pion, M. *ABO blood group is involved in the quality of the specific immune response anti-SARS-CoV-2*. VIRULENCE. 2022; 13(1) 30-45. FI: 5.2. Cuartil: 2. (Article).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Collado-Borrell, R; Escudero-Vilaplana, V; Narrillos-Moraza, A; Villanueva-Bueno, C; Herranz-Alonso, A; Sanjurjo-Saez, M. *Patient-reported outcomes and mobile applications. A review of their impact on patients' health outcomes*. FARMACIA HOSPITALARIA. 2022; 46(3) 121-132. (Article).
- Herranz-Alonso, A; Delgado-Sánchez, O; Santamartina-Conde, A; de la Rica-Manjavacas, AL. *Start-up first electronic leaflet (ePIL) project for medicines used in hospital environment in Spain*. FARMACIA HOSPITALARIA. 2022; 265-269. (Article).
- Villanueva-Bueno, C; Collado-Borrell, R; Revuelta-Herrero, JL; Fernández-Román, AB; Casado-Abad, G; Escudero-Vilaplana, V. *Implementation of a methodology to assess patient reported outcomes in lung cancer patients: The PeOpLe (Patient-reported Outcomes in Lung cancer) study protocol*. FARMACIA HOSPITALARIA. 2022; 46(3) 173-181. (Review).
- Moreno-Martínez, E; de la Serna-Torroba, J; Escudero-Vilaplana, V; Hernández-Rivas, JA; Sánchez-Cuervos, M; Sánchez-Hernández, R. *Cost-utility analysis of venetoclax in combination with obinutuzumab as first-line treatment of chronic lymphocytic leukaemia in Spain*. FARMACIA HOSPITALARIA. 2022; 46(2) 49-50. (Editorial Material).
- López-Fernández, LA. *Pharmacogenetics to Avoid Adverse Drug Reactions*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Editorial Material).
- Martínez-Barrio, J; López, JAM; Galindo, M; Ais, A; Sánchez, NM; Cano, L. *Importance of family planning in patients with immune-mediated inflammatory diseases: A multidisciplinary approach*. REUMATOLOGIA CLINICA. 2022; 18(4) 200-206. (Article).

#### **Other publications**

- García-Moreno FJ; Escobar-Castellanos M; Marañón R; Rivas-García A; Manrique-Rodríguez S; Mora-Capín A; Fernández-Llamazares CM. *Adequacy of pediatric antimicrobial prescribing in the Emergency Department at discharge*. ANALES DE PEDIATRIA. 2022; 96(3) 179-189. (Article).
- Villanueva-Bueno C; Montecatine-Alonso E; Jiménez-Parrilla F; Fernández-Llamazares CM; Manrique-Rodríguez S; Zamora-Flores E; Dolz E; Fernández-Polo A; Catillo-Salinas F; Comuñas J; Gallego-Fernández C; González-López M; Gómez-Trevecado Calvo MT; Gázquez-Pérez R; Álvarez Del Vayo-Benito C; Gil-Navarro MV. *Antimicrobial defined daily dose in neonatal population*. ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA (ENGLISH ED.). 2022; 40(2) 59-65. (Article).
- Morillo-Verdugo R; Collado-Borell R; Arrondo-Velasco A; Domínguez-Cantero M; Fernández-Polo A; González-Corominas E; Gutiérrez E; Linares-Alarcón A; Parro-Martín MLÁ; Rodríguez-Cabezas MÁ; Gomis-Pastor M. *Implementation of pharmaceutical care through Telepharmacy: A guide for professionals and patients*. FARMACIA HOSPITALARIA. 2022; 46(7) 36-46. (Article).
- Villanueva-Bueno C; Collado-Borrell R; Rodríguez-González CG; Escudero-Vilaplana V; Chamorro-de-Vega E; Ais-Larisoitia A; Herranz-Alonso A; Sanjurjo-Sáez M. *Implementation and evaluation of a home pharmaceutical care model through Telepharmacy*. FARMACIA HOSPITALARIA. 2022; 46(7) 69-85. (Article).
- Mercadal-Orfila G; Lizeaga G; Fernández-Llamazares CM; Tortajada-Goitia B; García Cabrera E; Morillo-Verdugo R; Negro-Vega E. *Outpatient pharmaceutical care satisfaction survey through Telepharmacy during COVID-19 pandemic in Spain*. FARMACIA HOSPITALARIA. 2022; 46(7) 115-122. (Article).





Group Director: **MARÍA CRISTINA DE LA CUERDA COMPÉS**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1: Assessment of nutritional status

- ▶ L1: Translation into Spanish and validation VGS-GP QUESTIONNAIRE
- ▶ L2: NUTRITIONAL SCREENING at hospital admission
- ▶ L3: Role of vitamin D deficiency in key events in cirrhosis of the liver and impact of supplements
- ▶ L4: Evolution of Energy Expenditure and blood levels of amino acids and Acylcarnitines in patients in the hematopoietic precursor transplantation program
- ▶ L5: Nutritional assessment for patients on biological treatments
- ▶ L6: Assessment of nutritional status and body composition in patients with PC undergoing cytoreduction and QUIOH
- ▶ L7: Prevalence of malnutrition in gastrointestinal surgical oncology patients
- ▶ L8: Ultrasound assessment of body composition in hip fracture patients: prognostic implications
- ▶ L9: Application of phase angle in the assessment of nutritional status and prognosis of patients with peritoneal surface cancer undergoing cytoreduction and QUIOH
- ▶ L10: Evaluation of body composition in patients with head and neck cancer using bioimpedance bioimpedance bioimpedanciometry during radiotherapeutic treatment

### Axis 2: Home artificial nutrition

- ▶ L1: Quality of care in NPD
- ▶ L2: Economic evaluation of home parenteral nutrition at the Hospital General Universitario Gregorio Marañón

- ▶ L3: Virtual reality for the management and care of central venous accesses for NPD
- ▶ L4: Design and evaluation of a comprehensive programme of domiciliary care in parenteral nutrition
- ▶ L5: Study of Quality of Life of Nutrihome Patients
- ▶ L6: Retrospective study of cost in patients with NPD and CIS

### Axis 3: COVID 19

- ▶ L1: Effect of nutritional treatment on mortality and outcome in critically ill patients COVID-19
- ▶ L2: Nutritional care in critically ill patients hospitalized for the COVID-19: an observational study 1-year follow-up study
- ▶ L3: Effect of leucine- and vitamin D-enriched supplementation on the nutritional status of patients with COVID-19 pneumonia undergoing high-flow nasal oxygen therapy.
- ▶ L4: Observational study on body composition in post-ICU patients with COVID or other respiratory distress syndromes undergoing nutritional intervention and motor rehabilitation.

The mission of the Clinical Nutrition research group is to contribute to research in the area of nutrition, in order to improve the quality of life of patients with nutritional pathologies, through a multidisciplinary approach.







## Group members

- **Arhip, Loredana:** R2. Recognised Researcher.
- **Bielza González, Atocha:** R1. First Stage Researcher.
- **Bretón Lesmes, Irene:** R3. Established Researcher.
- **Camblor Álvarez, Miguel:** R1. First Stage Researcher.
- **CarrascalFabián, María Luisa:** Other
- **De la Cuerda Compés, María Cristina:** R4. Leading Researcher.
- **Frias Soriano, Laura:** R1. First Stage Researcher.
- **Motilla de la Cámara, Marta Luisa:** R1. First Stage Researcher.
- **Serrano Moreno, Clara:** R1. First Stage Researcher.
- **Velasco Gimeno, Cristina:** R1. First Stage Researcher.

- Title: **Utilidad de la realidad virtual y uso de una app para la enseñanza y monitorización de los cuidados de catéter en pacientes con nutrición parenteral domiciliaria.** PI19/01275  
 Director: De la Cuerda Compés, M<sup>a</sup> Cristina  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 30/06/2024

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Loredana Arhip	Evaluación económica de la nutrición parenteral domiciliaria en el Hospital General Universitario Gregorio Marañón	Cristina Cuerda Compés	UCM	31/01/2022

## Research Projects – Competitive Calls

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







## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Bischoff, SC; Barazzoni, R; Busetto, L; Campmans-Kuijpers, M; Cardinale, V; Chermesh, I; Eshraghian, A; Kani, HT; Khannoussi, W; Lacaze, L; León-Sanz, M; Mendive, JM; Muller, MW; Ockenga, J; Tacke, F; Thorell, A; Bender, DV; Weimann, A; Cuerda, C	European guideline on obesity care in patients with gastrointestinal and liver diseases- Joint ESPEN/UEG guideline	Clin Nutr. 10.1016/j.clnu.2022.07.003
Bischoff, SC; Barazzoni, R; Busetto, L; Campmans-Kuijpers, M; Cardinale, V; Chermesh, I; Eshraghian, A; Kani, HT; Khannoussi, W; Lacaze, L; León-Sanz, M; Mendive, JM; Muller, MW; Ockenga, J; Tacke, F; Thorell, A; Bender, DV; Weimann, A; Cuerda, C	European guideline on obesity care in patients with gastrointestinal and liver diseases - Joint European Society for Clinical Nutrition and Metabolism/United European Gastroenterology guideline	United European gastro Journal. 10.1002/ueg2.12280
García, MDDO; Villares, JMM; Hernández, JA; López, IF; Lesmes, IB; Casas, NV; Enguidanos, RA; Fuster, FML; Wanden-Berghe, C; Rocamora, JAI; Soria, JBM; González, JCM; Blanco, AC	Nutrition in palliative care: guidelines from the Working Group on Bioethics, Spanish Society of Clinical Nutrition and Metabolism (SENPE)	Nutr Hosp. 10.20960/nh.04268
Berger, MM; Shenkin, A; Schweinlin, A; Amrein, K; Augsburger, M; Biesalski, HK; Bischoff, SC; Casaer, MP; Gundogan, K; Lepp, HL; de Man, AME; Muscogiuri, G; Pietka, M; Pironi, L; Rezzi, S; Cuerda, C	ESPEN micronutrient guideline	Clin Nutr. 10.1016/j.clnu.2022.02.015
Berger, MM; Shenkin, A; Schweinlin, A; Amrein, K; Augsburger, M; Biesalski, HK; Bischoff, SC; Casaer, MP; Gundogan, K; Lepp, HL; de Man, AME; Muscogiuri, G; Pietka, M; Pironi, L; Rezzi, S; Cuerda, C	ESPEN practical guideline: Home enteral nutrition	Clin Nutr. 10.1016/j.clnu.2021.10.018
Bischoff, SC; Austin, P; Boeykens, K; Chourdakis, M; Cuerda, C; Jonkers-Schuitema, C; Lichota, M; Nyulasi, I; Schneider, SM; Stanga, Z; Pironi, L	ESPEN practical guideline: Home enteral nutrition	Clin Nutr. 10.1016/j.clnu.2021.10.018
Bretón, MJO; Guerrero, MJT; Rodríguez, JMR; Miranda, CP; Pomar, MDB; Romero, FB; Olmos, MAM; Pérez, LML; Minchot, EC; Malpartida, KG; Gómez, JLL; Murillo, AZ; Hernández, JA; Lesmes, IB; SEEN; GERM	Multidisciplinary consensus on nutritional and metabolic therapy in enhanced recovery after abdominal surgery programs: NutRICA Project	Endocrinol Diabetes Nutr. 10.1016/j.endinu.2021.02.005

## Publications

Total Impact Factor: 105,2

	Nº	IF
Own publications	10	46,5
Joint publications	20	58,7
First decile publications	1	8,2
First quartile publications	11	70,9
Second quartile publications	1	4,7
Third quartile publications	2	6,2
Fourth quartile publications	16	23,4
Nonindexed publications/No IF	6	–
<b>Total publications (including those without IF)</b>	<b>36</b>	<b>105,2</b>

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

- Berger, MM; Shenkin, A; Schweinlin, A; Amrein, K; Augsburger, M; Biesalski, HK; Bischoff, SC; Casaer, MP; Gundogan, K; Lepp, HL; de Man, AME; Muscogiuri, G; Pietka, M; Pironi, L; Rezzi, S; Cuerda, C. *ESPEN micronutrient guideline*. CLINICAL NUTRITION. 2022; 41(2) 468-488. FI: 6.3. Cuartil: 1. (Article).
- Cardenas, D; Correia, MITD; Hardy, G; Ochoa, JB; Barrocas, A; Hankard, R; Hannequart, I; Schneider, S; Bermudez, C; Papapietro, K; Pounds, T; Cuerda, C; Ungpinpong, W; du Toit, AL; Barazzoni, R. *Nutritional care is a human right: Translating principles to clinical practice*. CLINICAL NUTRITION. 2022; 41(7) 1613-1618. FI: 6.3. Cuartil: 1. (Article).
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A; Calañas Continente A; García Malpartida K; González-Sánchez, V; Laínez López M; Martínez Ortega AJ; Oliva Roldán J; Serrano-Moreno C; Suárez Llanos JP; González-Díaz Faes Á. *Malnutrition management of hospitalized patients with diabetes/hyperglycemia and heart failure*. NUTRICION HOSPITALARIA. 2022; 39 23-30. FI: 1.2. Cuartil: 4. (Review).

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- Cardenas, D; Correia, MITD; Hardy, G; Ochoa, JB; Barrocas, A; Hankard, R; Hannequart, I; Schneider, S; Bermudez, C; Papapietro, K; Pounds, T; Cuerda, C; Ungpinitpong, W; du Toit, AL; Barazzoni, R. *Nutritional care is a human right: Translating principles to clinical practice*. NUTRITION IN CLINICAL PRACTICE. 2022; 37(4) 966-967. FI: 3.1. Cuartil: 3. (Letter).
- Burgos, R; García-Almeida, JM; Matia-Martín, P; Palma, S; Sanz-Paris, A; Zugasti, A; Alfaro, JJ; Fullana, AA; Continente, AC; Chicetru, MJ; Malpartida, KG; Faes, AG; Sánchez, VG; López, ML; Ortega, AJM; Roldan, JO; Moreno, CS; Llanos, PS. *Malnutrition management of hospitalized patients with diabetes/hyperglycemia and COVID-19 infection*. REVIEWS IN ENDOCRINE & METABOLIC DISORDERS. 2022; 23(2) 205-213. FI: 8.2. Cuartil: 1. (Article).
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**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Naghibi, M; Skinner, C; Burden, ST; Bozzetti, F; Cuerda, C; Joly, F; Jeppesen, P; Lamprecht, G; Mundi, M; Szczepanek, K; Van Gossum, A; Wanten, G; Pironi, L; Lal, S. *A multi-national survey of experience and attitudes towards commencing home parenteral nutrition for patients*

*with advanced cancer*. CLINICAL NUTRITION ESPEN. 2022; 47 246-251. (Article).

**Other publications**

- Ortolá Buigues A; Gómez-Hoyos E; Ballesteros Pomar MD; Vidal Casariego A; García Delgado Y; Ocón Bretón MJ; Abad González ÁL; Luengo Pérez LM; Matía Martín P; Tapia Guerrero MJ; Del Olmo García MD; Herrero Ruiz A; Álvarez Hernández J; Tejera Pérez C; Herranz Antolín S; Tenorio Jiménez C; García Zafra MV; Botella Romero F; Argente Pla M; Martínez Olmos MÁ; Bretón Lemes I; Runkle De la Vega I; De Luis Román D. *Aetiological diagnosis of hyponatraemia in non-critical patients on total parenteral nutrition: A prospective multicentre study*. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2022; 69(3) 160-167. (Article).
- Ocón Bretón MJ; Tapia Guerrero MJ; Ramírez Rodríguez JM; Peteiro Miranda C; Ballesteros Pomar MD; Botella Romero F; Martínez Olmos MÁ; Luengo Pérez LM; Cancer Minchot E; García Malpartida K; López Gómez JJ; Zugasti Murillo A; Álvarez Hernández J; Bretón Lesmes I. *Multidisciplinary consensus on nutritional and metabolic therapy in enhanced recovery after abdominal surgery programs: NutRICA Project*. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2022; 69(3) 219-226. (Article).
- Zugasti-Murillo A; Tejera-Pérez C; Rubio-Herrera MÁ; Escalada San Martín FJ; Ballesteros-Pomar MD; Bretón-Lesmes I; Dios-Fuentes E; Pinés-Corrales PJ; Hanzu FA. *How the COVID-19 pandemic has affected the training of Endocrinology and Nutrition Residents. Results of a survey by the Spanish Society of Endocrinology and Nutrition*. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2022; 69(2) 98-111. (Article).
- Oliveira Fuster G; Clavé Civit P; Álvarez Hernández J; de la Cuerda Compés C; García Almeida JM; Joaquín Ortiz C. *Investigación en nutrición clínica y generación de nuevas evidencias: el programa NutriCOVER*. NUTRICION HOSPITALARIA. 2022; 38(Spec No1) 37-45. (Article).
- Burgos Peláez R; García Almeida JM; Matía Martín P; Palma Milla S; Sanz Paris A; Zugasti Murillo A; Alfaro Martínez JJ; Artero-Fullana A; Calañas Continente A; Chinchetru M<sup>a</sup>J; González-Díaz Faes Á; González-Sánchez V; Laínez López M; Martínez Ortega AJ; Oliva Roldán J; Serrano-Moreno C; Suárez Llanos JP. *GLUCECONTROL 2.0. Anexo 1*. NUTRICION HOSPITALARIA. 2022; 39(Spec No4) 55-66. (Article).





Group Director: **FRANCISCO PÉREZ-VIZCAÍNO**

Organisms involved: **UCM**

Type: **Consolidated Group**

## 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).

Pulmonary hypertension is a condition characterized by increased pulmonary vascular resistance whose pathophysiology is complex and not yet well characterized. Our interest is primarily focused on the mechanisms involved in pulmonary vasodilation and inhibition of cell proliferation in order to identify and design new drugs that may be potentially useful in the treatment of pulmonary hypertension.

Acute lung injury (ALI) or its more severe form, acute respiratory distress syndrome (ARDS), is characterized by pulmonary edema and alveolar collapse leading to severe arterial hypoxemia. Although protective ventilatory support strategies have improved patient prognosis, associated

mortality remains intolerably high. Our interest is focused on characterizing the pulmonary vascular inflammatory response associated with acute lung injury and identifying therapeutic targets to improve prognosis in these patients.

Our work focuses on analyzing the pathophysiological and therapeutic role of different signaling pathways in these pathologies:

- 1) Vitamin D and VDR signaling.
- 2) K<sup>+</sup> channels.
- 3) Endothelial progenitor cells

## Group members

- **Barreira Barba, Bianca:** Other.
- **Callejo Arranz, María:** R1. First Stage Researcher.
- **Cogolludo Torralba, Ángel:** R3. Established Researcher.
- **Da Costa Adao, Rui Miguel:** R2. Recognised Researcher.
- **Esquivel Ruiz, Sergio Antonio:** R1. First Stage Researcher.
- **Gimeno Longas, María José:** R2. Recognised Researcher.
- **Jerónimo Albaladejo, Marta:** Other.
- **Macías Montero, Miguel:** R1. First Stage Researcher.
- **Moreno Gutiérrez, Laura:** R3. Established Researcher.
- **Olivencia Plaza, Miguel Ángel:** R1. First Stage Researcher.
- **Pérez Vizcaino, Francisco:** R4. Leading Researcher.
- **Sánchez Sánchez, Cristina:** Other.
- **Sancho González, María:** R2. Recognised Researcher.
- **Vera Zambrano, Alba:** R1. First Stage Researcher.
- **Villegas Esguevillas, Marta:** R1. First Stage Researcher.







### Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International				
European				
National	1	4		
Regional			2	1

- Title: **Papel de la hipoxia y la inflamación en la disfunción de células endoteliales progenitoras en hipertensión pulmonar pediátrica.** PI19/01616  
Director: Moreno Gutiérrez, Laura  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Research Assistant.** PEJ-2020-AI/BMD-19249  
Director: Moreno Gutiérrez, Laura (Jerónimo Albaladejo, Marta)  
Project type: Human resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 03/01/2021
- Title: **Research Assistant.** PEJ-2019-AI/BMD-13475  
Director: Pérez Vizcaíno, Francisco (Sánchez Sánchez, Cristina)  
Project type: Human resources  
Funding body: Comunidad Autónoma de Madrid  
Start date: 14/02/2020  
End date: 15/02/2022  
Not managed by the FIBHGM
- Title: **Coinfection of HIV and schistosomiasis on the pulmonary vascular bed.** FIBHGM-CCA028-2017

Director: Cogolludo Torralba, Ángel

Project type: Research project

Funding body: Cardiovascular Medical Research and Education Fund.

Start date: 01/01/2017

- Title: **Canales Kv como dianas farmacológicas en la hipertensión arterial pulmonar y la disfunción eréctil.** PID2020-117939RB-I00  
Director: Cogolludo Torralba, Ángel  
Project type: Research project  
Funding body: Plan Nacional de I+D (CICYT)  
Start date: 01/09/2021  
End date:
- Title: **Papel fisiopatológico de la vitamina D y la microbiota en la hipertensión pulmonar y en la disfunción eréctil VIMIPHED.** PID2019-107363RB-I00  
Director: Pérez Vizcaino, Francisco  
Project type: Research project  
Funding body: Plan Nacional de I+D (CICYT)  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Ensayo clínico de Fase IIb-III para evaluar la eficacia de las MSCs en recién nacidos prematuros como estrategia preventiva para reducir la incidencia y severidad de la Displasia Broncopulmonar.** ICI19/00092  
Director: Del Cerro, M<sup>a</sup> Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2020  
End date: 31/12/2023
- Title: **Contratos predoctorales de personal investigador en formación.** CT63/19-CT64/19  
Director: Pérez Vizcaíno, Francisco (Olivencia Plaza, Miguel Ángel)  
Project type: Human resources  
Funding body: UCM  
Start date: 16/11/2020







### Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Alba Vera Zambrano	Pathophysiological modulation of Kv 1,5 in the cardiovascular system. Role of Sigma-1 receptor.	Cogolludo Torralba/Ángel / Teresa González	UAM	21/03/2022
Ph Thesis	María Callejo Arranz	Vitamina D en la hipertensión pulmonar	Francisco Pérez Vizcaino/Ángel Cogolludo/Daniel Morales Cano	UCM	01/04/2022
Ph Thesis	Sergio Esquivel Ruiz	Vesículas extracelulares derivadas de células madre mesenquimales: potencial terapéutico en el daño pulmonar agudo.	Laura Moreno Gutiérrez/ Francisco Pérez Vizcaino	UCM	04/05/2022

### Publications

Total Impact Factor: 28,2

	Nº	IF
Own publications	3	21,2
Joint publications	1	7,0
First decile publications	1	7,0
First quartile publications	3	22,2
Second quartile publications	1	6,0
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	0	-
<b>Total publications (including those without IF)</b>	<b>4</b>	<b>28,2</b>

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

- Olivencia, MA; Esquivel-Ruiz, S; Callejo, M; Mondejar-Parreno, G; Quintana-Villamandos, B; Barreira, B; Sacedon, R; Cogolludo, A; Perros, F; Mendes-Ferreira, P; Vizcaino, FP. *Cardiac and Pulmonary Vascular Dysfunction in Vitamin D-Deficient Bmpr2-Mutant Rats*. AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY. 2022; 67(3) 402-405. FI: 6.4. Cuartil: 1. (Letter).
- García-Diez, E; López-Oliva, ME; Caro-Vadillo, A; Pérez-Vizcaino, F; Pérez-Jiménez, J; Ramos, S; Martín, MA. *Supplementation with a Cocoa-Carob Blend, Alone or in Combination with Metformin, Attenuates Diabetic Cardiomyopathy, Cardiac Oxidative Stress and Inflammation in Zucker Diabetic Rats*. ANTIOXIDANTS. 2022; 11(2). FI: 7. Cuartil: 1. (Article).
- Medrano-García, S; Morales-Cano, D; Barreira, B; Vera-Zambrano, A; Kumar, R; Kosanovic, D; Schermuly, RT; Graham, BB; Pérez-Vizcaino, F; Mathie, A; Savai, R; Pullamseti, S; Butrous, G; Fernández-Malave, E; Cogolludo, A. *HIV and Schistosoma Co-Exposure Leads to Exacerbated Pulmonary Endothelial Remodeling and Dysfunction Associated with Altered Cytokine Landscape*. CELLS. 2022; 11(15). FI: 6. Cuartil: 2. (Article).
- Pérez-Vizcaino, F; Mondejar-Parreno, G. *Antiproliferative miR-212-5p: Promising RNA therapy for pulmonary hypertension Comment*. MOLECULAR THERAPY-NUCLEIC ACIDS. 2022; 29 689-690. FI: 8.8. Cuartil: 1. (Editorial Material).





Group Director: **SANTIAGO LIZÁRRAGA BONELLI  
AND JUAN ANTONIO DE LEÓN LUIS**

Organisms involved: **HGUGM**

Type: **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 morbidity 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

- **Caballero Campo, Miguel:** R2. Recognised Researcher.
- **Campos Fernández, Raúl.**
- **Ceballos García, Elena:** R2. Recognised Researcher.
- **Collazos Blanco, Ana:** R1. First Stage Researcher.
- **De León Luis, Juan Antonio:** R4. Leading Researcher.
- **Gamez Alderete, Francisco:** R2. Recognised Researcher.
- **García-Tizón Larroca, Santiago:** R2. Recognised Researcher.
- **Lizarraga Bonelli, Santiago:** R4. Leading Researcher.
- **Llamas Santos, Leticia:** R1. First Stage Researcher I.
- **Mendizábal Vicente, Elsa:** R2. Recognised Researcher.
- **Mercader Cidoncha, Enrique:** R2. Recognised Researcher.
- **Moreno Molinero, Verónica:** R1. First Stage Researcher.
- **Muñoz-Chapulí Gutiérrez, María Mar:** R1. First Stage Researcher.
- **Navarro González, Teresa:** R1. First Stage Researcher.
- **Pereira Sánchez, Augusto:** R2. Recognised Researcher.
- **Pérez Fernández-Pacheco, Ricardo:** R2. Recognised Researcher A.
- **Pérez Milán, Federico:** R3. Established Researcher.
- **Pintado Recarte, Pilar:** R2. Recognised Researcher.
- **Relloso Cereceda, Miguel:** R3. Established Researcher.
- **Rodríguez Gómez-Hidalgo, Natalia:** R1. First Stage Researcher.
- **Ruiz Labarta, Javier:** R1. First Stage Researcher.
- **Trobo Marina, Duna:** R1. First Stage Researcher.
- **Veiga Fernández, Amanda:** R1. First Stage Researcher.
- **Viñuela Beneitez, M<sup>a</sup> del Carmen:** R1. First Stage Researcher.



## Research Projects – Competitive Calls

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

- Title: **La respuesta inflamatoria anti-espermatozoide para evitar la diseminación de infecciones de transmisión sexual como causa de infertilidad.** P119/00078  
 Director: Relloso Cereceda, Miguel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2020  
 End date: 31/12/2023
- Title: **Estudio del impacto del factor género en el pronóstico del melanoma cutáneo: Análisis epidemiológico y búsqueda de patrones pronósticos.** FMM20/04  
 Director: Mercader Cidoncha, Enrique  
 Project type: Research project  
 Funding body: Fundación Mutua Madrileña  
 Start date: 19/10/2020  
 End date: 18/10/2023
- Title: **Young employment contract.** PEJ2018-003326-A  
 Director: Pérez Milán, Federico  
 Project type: Human resources  
 Funding body: MICINN  
 Start date: 01/10/2019  
 End date: 28/02/2022

- Title: **Young employment contract. Laboratory technician.** PEJ-2021-TL/BMD-22394  
 Director: Herrero Rufo, Alicia  
 Project type: Human resources  
 Funding body: Comunidad Autónoma de Madrid  
 Start date: 01/10/2022  
 End date: 30/09/2024

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Maqueta didáctica armable	U 2015 30218	FIBHGM	Juan Antonio León

■ Transferred Industrial Property.  
 \* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).

### Copyright

Title	Reference	Owner	Inventors
Parto vaginal en 3d	Nº Asiento Registral: 16/2019/2823	FIBHGM	Juan Antonio de León
Pelvitainer anatómico	16/2022/3186	FIBHGM	Juan Antonio León, Coral Bravo

■ Transferred Intellectual Property.





Publications	Total Impact Factor: 107,6	
	Nº	IF
Own publications	10	41,4
Joint publications	15	66,2
First decile publications	1	7,0
First quartile publications	10	56,1
Second quartile publications	10	37,5
Third quartile publications	5	14,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	8	–
<b>Total publications (including those without IF)</b>	<b>33</b>	<b>107,6</b>

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

- García-Montero, C; Fraile-Martínez, O; Rodríguez-Martín, S; Monux, RMF; Saz, JV; Bravo, C; De León-Luis, JA; Ruiz-Minaya, M; Pekarek, L; Saez, MA; García-Lledo, A; Álvarez-Mon, M; Bujan, J; García-Honduvilla, N; Ortega, MA. *Irregular Expression of Cellular Stress Response Markers in the Placenta of Women with Chronic Venous Disease*. ANTIOXIDANTS. 2022; 11(11). FI: 7. Cuartil: 1. (Article).
- Bartolome, AA; Kassab, NAA; Melguizo, SC; Conty, MLD; Acebal, LF; Saiz, AA; Recarte, PP; Varea, AM; González, LC; Fernández, JG; Pérez, OM. *Critical Care in SARS-CoV-2 Infected Pregnant Women: A Prospective Multicenter Study*. BIOMEDICINES. 2022; 10(2). FI: 4.7. Cuartil: 1. (Article).
- Larroca, SGT; Arevalo-Serrano, J; Minaya, MR; Martínez, PP; Pacheco, RPF; Bonelli, SL; Luis, JD. *Maternal mortality trends in Spain during the 2000-2018 period: the role of maternal origin*. BMC PUBLIC HEALTH. 2022; 22(1). FI: 4.5. Cuartil: 2. (Article).
- Ortega, MA; Fraile-Martínez, O; García-Montero, C; Saez, MA; Álvarez-Mon, MA; Torres-Carranza, D; Álvarez-Mon, M; Bujan, J; García-Honduvilla, N; Bravo, C; Guijarro, LG; De León-Luis, JA. *The Pivotal Role of the Placenta in Normal and Pathological Pregnancies: A Focus on*

*Preeclampsia, Fetal Growth Restriction, and Maternal Chronic Venous Disease*. CELLS. 2022; 11(3). FI: 6. Cuartil: 2. (Review).

- Santaballa, A; Márquez-Vega, C; Rodríguez-Lescure, A; Rovirosa, A; Vázquez, L; Zeberio-Etxetxia, I; Andrés, M; Bassas, L; Ceballos-García, E; Domingo, J; Manau-Trullas, D. *Multidisciplinary consensus on the criteria for fertility preservation in cancer patients*. CLINICAL & TRANSLATIONAL ONCOLOGY. 2022; 24(2) 227-243. FI: 3.4. Cuartil: 3. (Article).
- Cuello, JP; Gines, MLM; Domínguez, JMG; Tejeda-Velarde, A; Ros, AL; Higuera, Y; Rivera, AM; Briceno, HG; García-Tizón, S; De León-Luis, J; Heras, SM; Velasco, JIF; Pérez-Pérez, S; García-Martínez, MA; Pardo-Rodríguez, B; Domínguez-Mozo, MI; García-Calvo, E; Estevez, H; Luque-García, JL; Villar, LM; Álvarez-Lafuente, R. *Short-chain fatty acids during pregnancy in multiple sclerosis: A prospective cohort study*. EUROPEAN JOURNAL OF NEUROLOGY. 2022; 29(3) 895-900. FI: 5.1. Cuartil: 1. (Article).
- Ortega, MA; Fraile-Martínez, O; García-Montero, C; Paradela, A; Sánchez-Gil, MA; Rodríguez-Martín, S; De León-Luis, JA; Pereda-Cerquella, C; Bujan, J; Guijarro, LG; Álvarez-Mon, M; García-Honduvilla, N. *Unfolding the role of placental-derived Extracellular Vesicles in Pregnancy: From homeostasis to pathophysiology*. FRONTIERS IN CELL AND DEVELOPMENTAL BIOLOGY. 2022; 10. FI: 5.5. Cuartil: 1. (Review).
- TARANCON, L. *SARS-CoV2 Infection During Pregnancy Causes Persistent Immune Abnormalities in Women Without Affecting the Newborns*. FRONTIERS IN IMMUNOLOGY. 2022; 13 947549. FI: 7.3. Cuartil: 1. (Article).
- Latorre, MC; Gómez-Oro, C; Olivera-Valle, I; Blázquez-López, E; Gallego-Valle, J; Ibanez-Escribano, A; Casesnoves, P; González-Cucharero, C; Muñoz-Fernández, MA; Sanz, L; Vaquero, J; Martín-Rabadan, P; Pérez-Milan, F; Relloso, M. *Vaginal neutrophil infiltration is contingent on ovarian cycle phase and independent of pathogen infection*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).
- Prieto, LJ; Ruiz, Y; Pérez, L; Bravo, C; Aguado, A; Álvarez-Mon, M; Ortega, MA; Marin, C; De León-Luis, J. *The Brainstem-Vermis and Brainstem-Tentorium Angles in the Fetus: A Study of Their Reproducibility by Fetal Magnetic Resonance Imaging and Their Evolution Along the Gestation*. FRONTIERS IN MEDICINE. 2022; 9. FI: 3.9. Cuartil: 2. (Article).





- Ruiz-Labarta J; Martínez Martín A; Pintado Recarte P; González Garzón B; Pina Moreno JM; Sánchez Rodríguez M; Vallejo Gea Á; Sordo L; Álvarez-Mon M; Ortega MA; Arribas CB; De León-Luis JA. *Workshop on Blood Loss Quantification in Obstetrics: Improving Medical Student Learning through Clinical Simulation*. HEALTHCARE. 2022; 10(2). FI: 2.8. Cuartil: 3. (Article).
- Alfano, F; Cordero-Grande, L; Ortuno, JE; García, KF; García-Sevilla, M; Zamora, OB; Conde, MH; Lizarraga, S; Santos, A; Pascau, J; Ledesma-Carbayo, MJ. *Breast Tumor Localization by Prone to Supine Landmark Driven Registration for Surgical Planning*. IEEE ACCESS. 2022; 10 122901-122911. FI: 3.9. Cuartil: 2. (Article).
- Ortega, MA; Saez, MA; Fraile-Martínez, O; Álvarez-Mon, MA; García-Montero, C; Guijarro, LG; Asunsolo, A; Álvarez-Mon, M; Bujan, J; García-Honduvilla, N; De León-Luis, JA; Bravo, C. *Overexpression of glycolysis markers in placental tissue of pregnant women with chronic venous disease: a histological study*. INTERNATIONAL JOURNAL OF MEDICAL SCIENCES. 2022; 19(1) 186-194. FI: 3.6. Cuartil: 2. (Article).
- Ortega, MA; Gómez-Lahoz, AM; Sánchez-Trujillo, L; Fraile-Martínez, O; García-Montero, C; Guijarro, LG; Bravo, C; De León-Luis, JA; Saz, JV; Bujan, J; García-Honduvilla, N; Monserrat, J; Álvarez-Mon, M. *Chronic Venous Disease during Pregnancy Causes a Systematic Increase in Maternal and Fetal Proinflammatory Markers*. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2022; 23(16). FI: 5.6. Cuartil: 1. (Article).
- García, DS; del Hoyo, AA; Pérez, MS; Larroca, SGT; Martín, YR; Gutiérrez, IG; Arribas, CB; Álvarez-Mon, M; Ortega, MA; De León-Luis, J. *Effects of Sex, Age and Height on Symphysis-Ischial Spine Distance Measured on a Pelvic CT*. JOURNAL OF CLINICAL MEDICINE. 2022; 11(9). FI: 3.9. Cuartil: 2. (Article).
- Claverol, MB; Minaya, MR; Moreno, IA; Tizón, SG; Recarte, PP; Álvarez-Mon, M; Arribas, CB; Ortega, MA; De León-Luis, JA. *Maternal, Perinatal and Neonatal Outcomes of Triplet Pregnancies According to Chorionicity: A Systematic Review of the Literature and Meta-Analysis*. JOURNAL OF CLINICAL MEDICINE. 2022; 11(7). FI: 3.9. Cuartil: 2. (Review).
- Carrera, M; Milan, FP; Alcazar, JL; Alonso, L; Caballero, M; Carugno, J; Domínguez, JA; Moratalla, E. *Effect of Hysteroscopic Metroplasty on Reproductive Outcomes in Women with Septate Uterus: Systematic Review and Meta-Analysis*. JOURNAL OF MINIMALLY INVASIVE GYNECOLOGY. 2022; 29(4) 465-475. FI: 4.1. Cuartil: 1. (Review).
- Ríos, A; Rodríguez, MA; Punal, JA; Moreno, P; Mercader, E; Ferrero, E; Ruiz-Pardo, J; Morlan, MA; Martín, J; Duran-Poveda, M; Bravo, JM; Casanova, D; Egea, MPS; Torregrosa, NM; Exposito-Rodríguez, A; Martínez-Fernández, G; Carrion, AM; Vidal, O; Herrera, F; Ruiz-Merino, G; Rodríguez, JM. *Biological behavior of familial papillary thyroid microcarcinoma: Spanish multicenter study*. LANGENBECKS ARCHIVES OF SURGERY. 2022; 407(8) 3631-3642. FI: 2.3. Cuartil: 2. (Article).
- Ortega, MA; Fraile-Martínez, O; García-Montero, C; Borja-Vergel, S; Torres-Carranza, D; Pekarek, L; Arribas, CB; De León-Luis, JA; Sánchez-Rojo, C; Álvarez-Mon, MA; García-Honduvilla, N; Bujan, J; Coca, S; Álvarez-Mon, M; Saez, MA; Guijarro, LG. *Patients with Invasive Lobular Carcinoma Show a Significant Increase in IRS-4 Expression Compared to Infiltrative Ductal Carcinoma-A Histopathological Study*. MEDICINA-LITHUANIA. 2022; 58(2). FI: 2.6. Cuartil: 3. (Article).
- Pascual-Mancho, J; Pintado-Recarte, P; Morales-Camino, JC; Romero-Román, C; Hernández-Martín, C; Bravo, C; Bujan, J; Álvarez-Mon, M; Ortega, MA; De León-Luis, J. *Brain-Derived Neurotrophic Factor Levels in Cord Blood from Growth Restricted Fetuses with Doppler Alteration Compared to Adequate for Gestational Age Fetuses*. MEDICINA-LITHUANIA. 2022; 58(12). FI: 2.6. Cuartil: 3. (Review).
- Sánchez-Trujillo, L; García-Montero, C; Fraile-Martínez, O; Guijarro, LG; Bravo, C; De León-Luis, JA; Saez, JV; Bujan, J; Álvarez-Mon, M; García-Honduvilla, N; Saez, MA; Ortega, MA. *Considering the Effects and Maternofoetal Implications of Vascular Disorders and the Umbilical Cord*. MEDICINA-LITHUANIA. 2022; 58(6). FI: 2.6. Cuartil: 3. (Article).
- González, NLG; Davila, EG; Bugatto, F; Vega-Guedes, B; Pintado, P; Tascon, L; Martín, NV; Plasencia, W; Megia, A. *Fasting Glucose for the Diagnosis of Gestational Diabetes Mellitus (GDM) during the COVID-19 Pandemic*. NUTRIENTS. 2022; 14(16). FI: 5.9. Cuartil: 1. (Article).
- Vigil-Vázquez, S; Carrasco-García, I; Hernanz-Lobo, A; Manzanares, A; Pérez-Pérez, A; Toledano-Revenga, J; Muñoz-Chapulí, M; Mesones-Guerra, L; Martínez-Lozano, A; Pérez-Seoane, B; Márquez-Isidro, E;



- Sanz-Asin, O; Caro-Chinchilla, G; Sarda-Sánchez, M; Solaz-García, A; López-Carnero, J; Pareja-León, M; Rianza-Gómez, M; Ortiz-Barquero, MC; León-Luis, JA; Fernández-Acenero, MJ; Muñoz-Fernández, MA; Catalan-Alonso, P; Muñoz-García, P; Sánchez-Luna, M; Navarro-Gómez, ML. *Impact of Gestational COVID-19 on Neonatal Outcomes Is Vertical Infection Possible?*. PEDIATRIC INFECTIOUS DISEASE JOURNAL. 2022; 41(6) 466-472. FI: 3.6. Cuartil: 1. (Article).
- Trobo, D; García, C; Martínez, M; Rodríguez, I; Rojo, M; Moreno, S; Nozaleda, G; Solis, A; Pérez, L; Caballero, M; Ceballos, E; Navarro, MT; Pérez-Milan, FM. *Impact of Embryo Cryopreservation on Large for Gestational Age Babies Born by Embryo Transfer: Cohort Retrospective Study*. REPRODUCTIVE SCIENCES. 2022; 1257-1265. FI: 2.9. Cuartil: 2. (Article).
  - Juez, LD; Mercader, E; Amunategui, I; Febrero, B; Rodríguez, JM; Gómez-Ramirez, J. *Extension of Prophylactic Surgery in Medullary Thyroid Carcinoma. Differences Between Sporadic and Hereditary Tumours According to Calcitonin Levels and Lymph Node Involvement*. WORLD JOURNAL OF SURGERY. 2022; 46(4) 820-828. FI: 2.6. Cuartil: 2. (Article).
- Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**
- Moreno, JP; Abad, VO; Corral, AP; Larroca, SGT. *Maternal mirror syndrome with foetal hydrops due to isoimmunization by anti-KPa antibodies: A case report and narrative literature review*. CLINICAL CASE REPORTS. 2022; 10(2). (Review).
  - Barca, JA; Bravo, C; Tizón, SG; Aracil-Rodríguez, R; Pina-Moreno, JM; Cueto-Hernández, I; Pintado-Recarte, MP; Álvarez-Mon, M; Ortega, MA; De León-Luis, JA. *3D Ultrasound in Pelvic Floor: Is It Useful as a Prognostic Tool in Type of Labor Development and Subsequent Pelvic Floor Diseases?*. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2022; 19(18). (Article).
  - Muñoz, MF; Angullo, ZRR; Recarte, PP; Soto, LC; Labarta, JR; Hernández, IC; Ortega, MA; De León-Luis, JA. *Checklist: A Useful and Safe Tool for the Initiation of Care for Eutocical Vaginal Delivery*. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2022; 19(20). (Article).
  - Labarta, FJR; Recarte, MPP; Leyte, MG; Arribas, CB; Luque, AA; López, YC; García-Montero, C; Fraile-Martínez, O; Ortega, MA; De León-Luis, JA. *Uterine Artery Embolization of Uterine Arteriovenous Malformation: A Systematic Review of Success Rate, Complications, and Posterior Pregnancy Outcomes*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Article).
  - Ruiz-Minaya, M; Mendizabal-Vicente, E; Vasquez-Jiménez, W; Pérez-Burrel, L; Aracil-Moreno, I; Agra-Pujol, C; Bernal-Claverol, M; Martínez-Bernal, BL; Muñoz-Fernández, M; Morote-González, M; Ortega, MA; Lizarraga-Bonelli, S; De León-Luis, JA. *Retrospective Analysis of Patients with Gynaecological Uterine Sarcomas in a Tertiary Hospital*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Article).
  - Ortega, MA; Chaowen, C; Fraile-Martínez, O; García-Montero, C; Saez, MA; Cruza, I; Pereda-Cerquella, C; Álvarez-Mon, MA; Guijarro, LG; Fatych, Y; Menor-Salvan, C; Álvarez-Mon, M; De León-Luis, J; Bujan, J; García-Honduvilla, N; Bravo, C; Asunsolo-del-Barco, A. *Chronic Venous Disease in Pregnant Women Causes an Increase in ILK in the Placental Villi Associated with a Decrease in E-Cadherin*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(9). (Article).
  - Pereira, A; Siegrist, J; Lizarraga, S; Pérez-Medina, T. *Clustering Molecular Subtypes in Breast Cancer, Immunohistochemical Parameters and Risk of Axillary Nodal Involvement*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(7). (Review).
  - Martín-Román, L; Colombari, R; Fernández-Martínez, M; Amunategui-Prats, I; Escat-Cortes, JL; Zarain-Obrador, L; Mercader-Cidoncha, E. *Vitamin D Deficiency Reduces Postthyroidectomy Protracted Hypoparathyroidism Risk. Is Gland Preconditioning Possible?*. JOURNAL OF THE ENDOCRINE SOCIETY. 2022; 7(1). (Article).







Group Director: **MARTA SUPERVÍA POLA AND SONIA ESTEBAN**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

- ▶ L1: Evolution of body composition in cardiac rehabilitation.

## Group members

- **Arroyo Riaño, Olga:** R2. Recognised Researcher.
- **Carrascosa Salcedo, Francisco.**
- **Crespo Cobo, Pilar:** R2. Recognised Researcher.
- **Echevarría Ulloa, Mirley:** R2. Recognised Researcher.
- **Esteban Román, Sonia:** R4. Leading Researcher.
- **García Delgado, Isabel.**
- **López Chicharro, José:** R2. Recognised Researcher.
- **Moreno Palacios, Juan Antonio:** R2. Recognised Researcher.
- **Pérez Ruiz, Margarita:** R2. Recognised Researcher.
- **Reboredo Redondas, María Dolores.**
- **Supervia Pola, Marta:** R4. Leading Researcher.
- **Ubeda Tikkanen, Ana Aletha:** R3. Established 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	Marta Supervía Pola	Estudio de adherencia en rehabilitación cardiaca: prevalencia, barreras, factores predictivos y soluciones potenciales con especial referencia a los condicionantes laborales y de género	María Begoña Martínez Jarreta/Aurelio Luna Maldonado	Universidad de Murcia	01/06/2022





Publications	Total Impact Factor: 10,4	
	Nº	IF
Own publications	2	7,4
Joint publications	1	3,0
First decile publications	0	–
First quartile publications	0	0,0
Second quartile publications	3	10,4
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	4	–
<b>Total publications (including those without IF)</b>	<b>7</b>	<b>10,4</b>

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

- Agne, A; Quesnel, DA; Larumbe-Zabala, E; Olmedillas, H; Graell-Berna, M; Pérez-Ruiz, M; Fernández-del-Valle, M. *Progressive resistance exercise as complementary therapy improves quality of life and body composition in anorexia nervosa: A randomized controlled trial.* COMPLEMENTARY THERAPIES IN CLINICAL PRACTICE. 2022; 48. FI: 3. Cuartil: 2. (Article).
- González, LG; Supervía, M; Medina-Inojosa, JR; Smith, JR; Blanco, MEL; Vivas, MTM; López-Jiménez, F; Arroyo-Riano, MO. *Predictors of Rehabilitation Referral Among Cardiovascular Surgical Patients.* FRONTIERS IN CARDIOVASCULAR MEDICINE. 2022; 9. FI: 3.6. Cuartil: 2. (Article).

FRONTIERS IN CARDIOVASCULAR MEDICINE. 2022; 9. FI: 3.6. Cuartil: 2. (Article).

- Supervía, M; Medina-Inojosa, J; Martínez-Jarreta, B; López-Jiménez, F; Vickers, K; Terzic, CM; Thomas, RJ. *Cardiac Rehabilitation Completion Study: Barriers and Potential Solutions.* JOURNAL OF CARDIOPULMONARY REHABILITATION AND PREVENTION. 2022; 42(5) 375-377. FI: 3.8. Cuartil: 2. (Letter).

### Other publications

- Arrieta-Bartolomé G; Supervía M; Velasquez ABC; Delgado-Montero A; Méndez I; Orduñez MÁO; Arroyo-Riaño O; Aultman C; Oh P; Ghisi GLM. *Evaluating the effectiveness of a comprehensive patient education intervention in a hybrid model of cardiac rehabilitation: A pilot study.* PEC INNOVATION. 2022; 1 100054-100054. (Article).
- Esteban Román S; Hijazi Vega S; Arroyo Riaño MO. *Claves para la puesta en marcha de una Unidad de Rehabilitación de Suelo Pélvico.* REHABILITACION. 2022; 56(4) 251-254. (Editorial Material).
- Rico Hernansanz G; Supervía M; López Sánchez A; Peña Peña D; Arroyo Riaño MO. *Satisfacción y utilidad del tratamiento rehabilitador a través de material educativo en pacientes con COVID-19.* REHABILITACION. 2022; 56(3) 188-194. (Article).
- Moreno Palacios JA; Moreno Martínez I; Casallo Cerezo M; Maitín Noguera V; Cid Bassaletti C; Vidal Millet C. *Factores relacionados con el éxito en la protetización de amputados de extremidad inferior de etiología vascular.* REHABILITACION. 2022; 56(4) 320-327. (Article).



Group Director: **JAVIER MENÁRGUEZ PALANCA**

Organisms involved: **HGUGM**

Type: **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

- **Agra Pujol, Carolina:** R1. First Stage Researcher.
- **Alijo Serrano, Francisco:** R1. First Stage Researcher.
- **De la Peña Navarro, Itziar:** R1. First Stage Researcher.
- **Díaz Crespo, Francisco Javier:** R1. First Stage Researcher.
- **García Martos, María:** R1. First Stage Researcher.
- **López Martínez-Bernal, Beatriz:** R1. First Stage Researcher.
- **López Vacas, Rocío:** R1. First Stage Researcher.
- **López Varela, Carmen:** R1. First Stage Researcher.
- **Menárguez Palanca, Francisco Javier.**
- **Parra Blanco, Verónica.**
- **Sola Vendrell, Emma:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

	N° Competitive projects		N° Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Publications

Total Impact Factor: 31,6

	N°	IF
Own publications	0	0,0
Joint publications	10	31,6
First decile publications	2	12,9
First quartile publications	3	17,0
Second quartile publications	3	8,7
Third quartile publications	2	4,6
Fourth quartile publications	2	1,3
Nonindexed publications/No IF	2	–
<b>Total publications (including those without IF)</b>	<b>12</b>	<b>31,6</b>

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

- Martínez-Laperche, C; Sanz-Villanueva, L; Crespo, FJD; Muniz, P; Rojas, RM; Carbonell, D; Chicano, M; Suárez-González, J; Menárguez, J; Kwon, M; Martín, JLD; Buno, I; Oreiro, MB. *EZH2 mutations at diagnosis in follicular lymphoma: a promising biomarker to guide frontline treatment.* BMC CANCER. 2022; 22(1). FI: 3.8. Cuartil: 2. (Article).





- Cortese, S; Peligros, MI; Sola, E; García-Alfonso, P; Tellado, JM. *Indocyanine green clearance test as a predictor of chemotherapy liver toxicity and post-operative complications in patients with colorectal liver metastases*. CIRUGIA Y CIRUJANOS. 2022; 90(3) 310-318. FI: 0.5. Cuartil: 4. (Article).
- Rodríguez-Lomba, E; García-Piqueras, P; Lozano-Masdemont, B; Nieto-Benito, LM; de la Torre, EH; Parra-Blanco, V; Suárez-Fernández, R; Lazaro-Ochaita, P; Aviles-Izquierdo, JA. *'Rainbow pattern': a dermoscopic sign of invasive melanoma*. CLINICAL AND EXPERIMENTAL DERMATOLOGY. 2022; 47(3) 529-533. FI: 4.1. Cuartil: 1. (Article).
- García-Rayó, MC; Aviles-Izquierdo, JA; García-Piqueras, P; Parra-Blanco, V; Rodríguez Lomba E. *Clues on dermoscopy. Seborrheic keratoses: when the good ones look bad*. EUROPEAN JOURNAL OF DERMATOLOGY. 2022; 32(6) 814-815. FI: 2.5. Cuartil: 2. (Editorial Material).
- Baptista, MJ; Tapia, G; Muñoz-Marmol, AM; Muncunill, J; García, O; Montoto, S; Gribben, JG; Calaminici, M; Martínez, A; Veloza, L; Martínez-Trillos, A; Aldamiz, T; Menárguez, J; Terol, MJ; Ferrandez, A; Alcoceba, M; Briones, J; González-Barca, E; Climent, F; Muntanola, A; Moraleda, JM; Provencio, M; Abrisqueta, P; Abella, E; Colomo, L; García-Ballesteros, C; García-Caro, M; Sancho, JM; Ribera, JM; Mate, JL; Navarro, JT. *Genetic and phenotypic characterisation of HIV-associated aggressive B-cell non-Hodgkin lymphomas, which do not occur specifically in this population: diagnostic and prognostic implications*. HISTOPATHOLOGY. 2022; 81(6) 826-840. FI: 6.4. Cuartil: 1. (Article).
- Martínez, MA; Cuelar, IN; Urmeneta, AS; Serrano, FA; Cuelar, CN. *Large cell neuroendocrine carcinoma on the floor of the mouth: a rare entity in an unusual location*. INTERNATIONAL JOURNAL OF ORAL AND MAXILLOFACIAL SURGERY. 2022; 51(6) 742-745. FI: 2.4. Cuartil: 2. (Article).
- Acosta, A; Arroyo, D; Díaz-Crespo, FJ; Goicoechea, M. *Lupus nephritis and thin glomerular basement membrane coexistence: case report and review of the literature*. INTERNATIONAL UROLOGY AND NEPHROLOGY. 2022; 54(5) 1163-1165. FI: 2. Cuartil: 3. (Letter).
- Gutiérrez-Seijo A; García-Martínez E; Barrio-Alonso C; Parra-Blanco V; Avilés-Izquierdo JA; Sánchez-Mateos P; Samaniego R. *Activin A Sustains the Metastatic Phenotype of Tumor-Associated Macrophages and Is a Prognostic Marker in Human Cutaneous Melanoma*. JOURNAL OF INVESTIGATIVE DERMATOLOGY. 2022; 142(3 PT A) 653. FI: 6.5. Cuartil: 1. (Article).
- de Villambrosia, SG; Bastos, M; Palanca, JM; Cruz, JG; Navarro, JT; Tapia, G; Alonso, SA; Martín, A; Blanco, O; Abrisqueta, P; Castellvi, J; García-Noblejas, A; Arranz, R; Adrados, M; López, A; Montes-Moreno, S; Grp Espanol linfomas Trasplante GE. *BCL2 translocation in high grade B cell lymphoma (NOS, DH/TH) is associated with reduced progression free survival*. LEUKEMIA & LYMPHOMA. 2022; 63(1) 101-108. FI: 2.6. Cuartil: 3. (Article).
- Valera-Mele, M; Alles, JVD; Juretschke, FR; Vendrell, ES; Poveda, JMH; Afonso, AM; Hernando, VC; Leal, RG. *Primary central nervous system angiosarcoma with recurrent acute subdural hematoma*. NEUROCIRUGIA. 2022; 33(4) 199-203. FI: 0.8. Cuartil: 4. (Article).

#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Martín-Rojas, RM; Gómez-Centurion, I; Bailén, R; Bastos, M; Díaz-Crespo, F; Carbonell, D; Correa-Rocha, R; Pion, M; Muñoz, C; Sancho, M; Fernández, IG; Oarbeascoa, G; Pérez-Corral, A; Martínez-Laperche, C; Anguita, J; Buno, I; Menárguez, J; Díez-Martín, JL; Kwon, M. *Hemophagocytic lymphohistiocytosis/macrophage activation syndrome (HLH/MAS) following treatment with tisagenlecleucel*. CLINICAL CASE REPORTS. 2022; 10(1). (Article).
- Ruiz-Minaya, M; Mendizabal-Vicente, E; Vasquez-Jiménez, W; Pérez-Burrel, L; Aracil-Moreno, I; Agra-Pujol, C; Bernal-Claverol, M; Martínez-Bernal, BL; Muñoz-Fernández, M; Morote-González, M; Ortega, MA; Lizarraga-Bonelli, S; De León-Luis, JA. *Retrospective Analysis of Patients with Gynaecological Uterine Sarcomas in a Tertiary Hospital*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(2). (Article).





Group Director: **ISABEL DEL CURA GONZÁLEZ  
AND JESÚS MARTÍN FERNÁNDEZ**

Organisms involved: **HGUGM**

Type: **Consolidated in process of integration group**

## Research lines

### Axis 1. Characterization of chronicity and evaluation of performance and health policies in the care of chronic patients.

- ▶ L1: Characterization of chronic diseases, multimorbidity and frailty.
- ▶ L2: Assessment and monitoring of health status, use of services and costs of illness in highly prevalent chronic pathologies.
- ▶ L3: Identification and evaluation of risk determinants with impact on health outcomes and service utilization
- ▶ L4: Characterization of health status from the patient's perspective, obtaining self-perceived health and associated utilities, preferences and factors related to empowerment.
- ▶ L5: Continuity of care and continuity of care

### Axis 2. Effectiveness and cost-effectiveness of community-based interventions aimed at patients, caregivers and professionals

- ▶ L1: Comparative effectiveness studies with RCTs and RWD on interventions on patients, professionals or policies implemented in primary care, both from the perspective of effectiveness and efficiency
- ▶ L2: Comparative studies on interventions or policies implemented across different levels of care, both from the perspective of effectiveness and efficiency.
- ▶ L3: Evaluation of care interventions

### Axis 3. Inequities in health and urban health

- ▶ L1: Comparative evaluation in accessibility and received attention.
- ▶ L2: Health services and population in situations of vulnerability

### Axis 4. Prevention and health promotion

### Axis 5. Impact of Covid 19 at the community level

- ▶ L1: Impact on missed diagnoses and follow up of chronic diseases
- ▶ L2: Impact on mental health of professionals
- ▶ L3: Impact on professional performance
- ▶ L4: Impact of mental health of patients and general population
- ▶ L5: Impact of the pandemic on the health status of persons aged 75 years and older
- ▶ L6: Caregiving Experience of Family Caregivers in the Context of the COVID-19 Pandemic

Research group that brings together researchers who develop their research mainly in the community and in primary care.



## Group members

- **Álvarez Villalba, María del Mar:** R2. Recognised Researcher.
- **Angulo Ardo, María:** R1. First Stage Researcher.
- **Ares Blanco, Sara:** R1. First Stage Researcher.
- **Ariza Cardiel, Gloria:** R2. Recognised Researcher.
- **Azcoaga Lorenzo, Amaya:** R3. Established Researcher.
- **Barrio Cortés, Jaime:** R2. Recognised Researcher.
- **Del Cura González, Isabel:** R4. Leading Researcher.
- **Estevan Burdeus, Patricia:** R2. Recognised Researcher.
- **Folguera Álvarez, María del Carmen:** R3. Established Researcher.
- **García Olmos, Luis Miguel:** R3. Established Researcher.
- **Garrido Elustondo, Sofía:** R3. Established Researcher.
- **González González, Ana Isabel:** R3. Established Researcher.
- **Herraiz Ahijado, Borja Jesús:** R1. First Stage Researcher.
- **López Rodríguez, Juan Antonio:** R2. Recognised Researcher.
- **Lozano Hernández, Cristina:** R1. First Stage Researcher.
- **Martín Fernández, Jesús:** R4. Leading Researcher.
- **Medina García, Rodrigo:** R1. First Stage Researcher.
- **Minue Estirado, María:** R1. First Stage Researcher.
- **Morey Montalvo, Mariel:** R1. First Stage Researcher.
- **Nuevo Coello, Lucía:** R1. First Stage Researcher.
- **Olmedo Galindo, Jorge:** R2. Recognised Researcher.
- **Polentinos Castro, Elena:** R3. Established Researcher.
- **Rico Blázquez, Milagros:** R1. First Stage Researcher.
- **Rodríguez Barrientos, Ricardo:** R2. Recognised Researcher.
- **Rogero Blanco, María Eloisa:** R2. Recognised Researcher.
- **Saldaña Alonso, Irmira:** R1. First Stage Researcher.
- **Sánchez Celaya del Pozo, Marta:** R3. Established Researcher.
- **Sanz Cuesta, Teresa:** R3. Established Researcher.

## Research Projects – Competitive Calls

	Nº Competitive projects		Nº Human Resources	
	FIBHGM	Not FIBHGM	FIBHGM	Not FIBHGM
International	–	–	–	–
European	–	–	–	–
National	–	–	–	–
Regional	–	–	–	–

## Cooperative Research Structures

Type (RICORS, CIBER, Platform, Others)	Name of Network	Role
RICORS	Red de Investigación Cooperativa Orientadas a Resultados en Salud (RICORS). Red de Investigación en cronicidad, atención primaria y promoción de la salud (RICAPPS).	Collaborating group

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis		Caracterización de la calidad de vida relacionada con la salud en pacientes con artrosis de miembro inferior y validación de nuevas herramientas para su evaluación.	Jesús Martín Fernández/ Fernando Marco	UCM	25/04/2022







Publications	Total Impact Factor: 35,0	
	Nº	IF
Own publications	6	18,2
Joint publications	4	16,8
First decile publications	1	5,9
First quartile publications	4	16,4
Second quartile publications	4	14,2
Third quartile publications	2	4,4
Fourth quartile publications	0	0,0
Nonindexed publications/No IF	2	–
<b>Total publications (including those without IF)</b>	<b>12</b>	<b>35,0</b>

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

- del Cura-González, I; Ariza-Cardiel, G; Polentinos-Castro, E; López-Rodríguez, JA; Sanz-Cuesta, T; Barrio-Cortes, J; Andreu-Ivorra, B; Rodríguez-Barrientos, R; Avila-Tomas, JF; Gallego-Ruiz-de-Elvira, E; Lozano-Hernández, C; Martín-Fernández, J. *Effectiveness of a game-based educational strategy e-EDUCAGUIA for implementing antimicrobial clinical practice guidelines in family medicine residents in Spain: a randomized clinical trial by cluster*. BMC MEDICAL EDUCATION. 2022; 22(1). FI: 3.6. Cuartil: 1. (Article).
- Rico-Blázquez, M; Quesada-Cubo, V; Polentinos-Castro, E; Sánchez-Ruano, R; Rayo-Gómez, MA; del Cura-González, I; CuidaCare Grp. *Health-related quality of life in caregivers of community-dwelling individuals with disabilities or chronic conditions. A gender-differentiated analysis in a cross-sectional study*. BMC NURSING. 2022; 21(1). FI: 3.2. Cuartil: 1. (Article).
- Santamaria-Martín, MJ; Martín-Iglesias, S; Schwarz, C; Rico-Blázquez, M; Portocarrero-Nunez, JA; Díez-Izquierdo, L; Llamosas-Falcon, L; Rodríguez-Barrientos, R; del-Cura-González, I; Grp PROLACT. *Effectiveness of a group educational intervention - prolact - in primary care to promote exclusive breastfeeding: a cluster randomized clinical trial*. BMC PREGNANCY AND CHILDBIRTH. 2022; 22(1). FI: 3.1. Cuartil: 2. (Article).
- Aragones, E; del Cura-González, I; Hernández-Rivas, L; Polentinos-Castro, E; Fernández-San-Martín, MI; López-Rodríguez, JA; Molina-Aragones, JM; Amigo, F; Alayo, I; Mortier, P; Ferrer, M; Pérez-Sola, V; Vilagut, G; Alonso, J. *Psychological impact of the COVID-19 pandemic on primary care workers: a cross-sectional study*. BRITISH JOURNAL OF GENERAL PRACTICE. 2022;. FI: 5.9. Cuartil: 1. (Article).
- Castell-Alcala, MV; Rodríguez-Barrientos, R; Polentinos-Castro, E; Caballero, BM; Tejera, DM; Beriso, EP; Gutiérrez-Misis, A. *Evolution of physical function, cognition, depressive mood, and quality of life during the Covid-19 pandemic in prefrail elderly people: A longitudinal cohort study (Covid-Mefap)*. EXPERIMENTAL GERONTOLOGY. 2022; 168. FI: 3.9. Cuartil: 2. (Review).
- Ares-Blanco, S; Polentinos-Castro, E; Rodríguez-Cabrera, F; Gullon, P; Franco, M; Del Cura-González, I. *Inequalities in glycemc and multifactorial cardiovascular control of type 2 diabetes: The Heart Healthy Hoods study*. FRONTIERS IN MEDICINE. 2022; 9. FI: 3.9. Cuartil: 2. (Article).
- del Cura-González, I; Polentinos-Castro, E; Fontan-Vela, M; López-Rodríguez, JA; Martín-Fernández, J. *What have we missed because of COVID-19? Missed diagnoses and delayed follow-ups*. SESPAS Report 2022. GACETA SANITARIA. 2022; 36 36-43. FI: 1.9. Cuartil: 3. (Review).
- Jansana, A; Domingo, L; Ibanez, B; Prados, A; Del Cura, I; Padilla-Ruiz, M; Sanz, T; Poblador, B; Tamayo, I; Gimeno, A; Alberquilla, A; Abizanda, M; Comas, M; Lanzuela, M; Burgui, R; Holgado, AD; Duarte-Salles, T; Moreno, C; Louro, J; Baquedano, J; Molina, C; Martínez, MD; Gorricho, J; Redondo, M; Castells, X; Sala, M. *Use of health services among long-term breast cancer survivors in Spain: longitudinal study based on real-world data*. JOURNAL OF CANCER SURVIVORSHIP. 2022; 16(1) 132-141. FI: 3.7. Cuartil: 1. (Article).
- Bilbao, A; Martín-Fernández, J; García-Pérez, L; Mendezona, JI; Arrasate, M; Candela, R; Acosta, FJ; Estebanez, S; Retolaza, A. *Psychometric properties of the EQ-5D-5L in patients with major depression: factor analysis and Rasch analysis*. JOURNAL OF MENTAL HEALTH. 2022; 31(4) 506-516. FI: 3.3. Cuartil: 2. (Article).

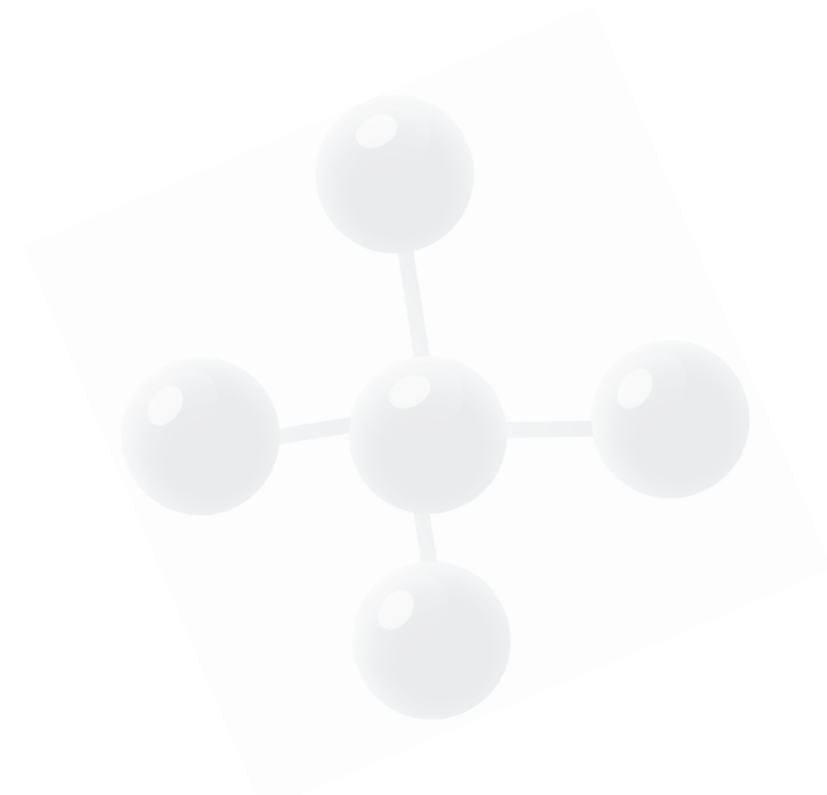




- del Cura-González, I; López-Rodríguez, JA; Leiva-Fernández, F; Gimeno-Feliu, LA; Pico-Soler, V; Bujalance-Zafra, MJ; Domínguez-Santaella, M; Polentinos-Castro, E; Poblador-Plou, B; Ara-Bardaji, P; Aza-Pascual-Salcedo, M; Rogero-Blanco, M; Castillo-Jiménez, M; Lozano-Hernández, C; Gimeno-Miguel, A; González-Rubio, F; Medina-García, R; González-Hevilla, A; Gil-Conesa, M; Martín-Fernández, J; Valderas, JM; Marengoni, A; Muth, C; Prados-Torres, JD; Prados-Torres, A. *Effectiveness of the MULTIPAP Plus intervention in youngest-old patients with multimorbidity and polypharmacy aimed at improving prescribing practices in primary care: study protocol of a cluster randomized trial*. TRIALS. 2022; 23(1). FI: 2.5. Cuartil: 3. (Article).

**Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

- Betancourt, MA; Duarte-Díaz, A; Vall-Roque, H; Seils, L; Orrego, C; Perestelo-Pérez, L; Barrio-Cortes, J; Beca-Martínez, MT; Serrano, AM; Bermejo-Caja, CJ; González-González, AI. *Global Healthcare Needs Related to COVID-19: An Evidence Map of the First Year of the Pandemic*. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2022; 19(16). (Review).
- Del Cura-González, I; López-Rodríguez, JA; Leiva-Fernández, F; Gimeno-Miguel, A; Poblador-Plou, B; López-Verde, F; Lozano-Hernández, C; Pico-Soler, V; Bujalance-Zafra, MJ; Gimeno-Feliu, LA; Aza-Pascual-Salcedo, M; Rogero-Blanco, M; González-Rubio, F; García-de-Blas, F; Polentinos-Castro, E; Sanz-Cuesta, T; Castillo-Jimena, M; Alonso-García, M; Calderon-Larranaga, A; Valderas, JM; Marengoni, A; Muth, C; Prados-Torres, JD; Prados-Torres, A. *How to Improve Healthcare for Patients with Multimorbidity and Polypharmacy in Primary Care: A Pragmatic Cluster-Randomized Clinical Trial of the MULTIPAP Intervention*. JOURNAL OF PERSONALIZED MEDICINE. 2022; 12(5). (Article).





Group Director: **ANA PULIDO PÉREZ AND MARTA BERGÓN SENDÍN**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1. Oncodermatology

- ▶ L1: Non-melanoma skin cancer
- ▶ L2: Melanoma and pigmentary tumors
- ▶ L3: Cutaneous lymphoproliferative syndromes
- ▶ L4: Cutaneous toxicity associated with oncologic therapies
- ▶ L5: Surgical oncology

### Axis 2. Infectious Dermatology

- ▶ L1: Dermatological manifestations of systemic infections
- ▶ L2: Emerging skin infections
- ▶ L3: Sexually transmitted infections

### 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: Blistering diseases
- ▶ L2: Chronic urticaria

## Group members

- **Almodóvar Real, Ana María Gema:** R1. First Stage Researcher.
- **Avilés Izquierdo, José Antonio:** R2. Recognised Researcher.
- **Baniandrés Rodríguez, Ofelia:** R2. Recognised Researcher.
- **Barchino Ortíz, Lucía:** R1. First Stage Researcher.
- **Bergón Sendín, Marta:** R3. Established Researcher.
- **Campos Domínguez, Minia:** R3. Established Researcher.
- **Ciudad Blanco, Cristina:** R2. Recognised Researcher.
- **Espada Regalado, Jesús:** R3. Established Researcher.
- **Molina López, Irene:** R1. First Stage Researcher.
- **Nieto Benito, Lula María:** R2. Recognised Researcher.
- **Pulido Pérez, Ana:** R3. Established Researcher.
- **Rodríguez Lomba, Enrique:** R2. Recognised Researcher.
- **Suárez Fernández, Ricardo:** R3. Established 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	Lula María Nieto Benito	Estudio retrospectivo observacional de una serie de casos de penfigoide ampoloso (2000-2020). Análisis de las características clínicas, histopatológicas e inmunológicas de 257 pacientes	Ricardo Suárez Fernández/Jesús Millán Núñez-Cortes	UCM	16/11/2022
Ph Thesis	Ana Pulido Pérez	Características clínico-microbiológicas de las lesiones cutáneas en el paciente séptico	Emilio Bouza/Patricia Muñoz/Ricardo Suárez Fernández	UCM	08/03/2022

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
	Antibióticos – PROA. Guías pediatría. Protocolo lesiones bacterianas cutáneas.	Protocolo HGUGM

### Publications

Total Impact Factor: 126,6

	Nº	IF
Own publications	9	38,2
Joint publications	18	88,4
First decile publications	7	64,5
First quartile publications	13	91,4
Second quartile publications	11	29,9
Third quartile publications	2	3,8
Fourth quartile publications	1	1,5
Nonindexed publications/No IF	8	–
<b>Total publications (including those without IF)</b>	<b>35</b>	<b>126,6</b>

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

- Rodríguez-Lomba, E; Lozano-Masdemont, B; Nieto-Benito, LM; de la Torre, EH; Suárez-Fernández, R; Aviles-Izquierdo, JA. *Concordance analysis of dermoscopic features between five observers in a sample of 200 dermoscopic images*. ANAIS BRASILEIROS DE DERMATOLOGIA. 2022; 97(3) 382-384. FI: 1.7. Cuartil: 3. (Letter).
- Barriopedro, LS; Pérez, AP; Atienza, BB; Martín, YR. *Diastematomyelia: "Hidden" spinal dysraphism?*. ANALES DE PEDIATRIA. 2022; 96(4) 374-375. FI: 2.1. Cuartil: 3. (Editorial Material).
- Pereyra-Rodríguez, JJ; Herranz, P; Figuras-Nart, I; Pérez, B; Elosua, M; Munera-Campos, M; Melgosa-Ramos, J; Ninet, VZ; Silvestre, JF; Campos-Domínguez, M; Guilabert, A; Miquel, J; Alcantara-Luna, S; de la Cueva, P; Serra-Baldrich, E; Armario-Hita, JC. *Upadacitinib for the Treatment of Atopic Dermatitis in a Spanish Cohort-Real Life: Fifty-Two-Week Follow-up Results*. DERMATITIS. 2022; 33(6S) 124-127. FI: 5.2. Cuartil: 1. (Letter).
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*Marker in Human Cutaneous Melanoma.* JOURNAL OF INVESTIGATIVE DERMATOLOGY. 2022; 142(3 PT A) 653. FI: 6.5. Cuartil: 1. (Article).

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#### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor:**

- Nieto-Benito, LM; Rosell-Díaz, AM; Aviles-Izquierdo, JA. *Pigmented Papule With a Starburst Pattern on Dermoscopy.* ACTAS DERMOSIFILIOGRAFICAS. 2022; 113(3) 301-302. (Editorial Material).
- Medrano, RM; Estebaranz, JLL; Sanmartin-Jiménez, O; Garces, JR; Rodríguez-Prieto, MA; Vilarrasa-Rull, E; De Eusebio-Murillo, E; Escutia-Muñoz, B; Florez-Menéndez, A; Artola-Igarza, JL; Alfaro-Rubio, A; Redondo, P; Delgado-Jiménez, Y; Sánchez-Schmidt, JM; Allende-Markixana, I; Alonso-Pacheco, ML; García-Bracamonte, B; De la Cueva-Dobao, P; Navarro-Tejedor, R; Ciudad-Blanco, C; Carnero-González, L; Vázquez-Veiga, H; Cano-Martínez, N; Ruiz-Salas, V; Sánchez-Sambucety, P; Botella-Estrada, R; González-Sixto, B; Martorell-Calatayud, A; Gil, P; Morales-Gordillo, V; Toll-Abello, A; Ocerin-Guerra, I; Mayor-Arenal, M; Suárez-Fernández, R; Sainz-Gaspar, L; Descalzo, MA; García-Doval, I. *Risk of a Second Skin Cancer in a Cohort of Patients With Nonmelanoma Skin Cancer - Basal Cell Carcinoma or Squamous Cell Carcinoma - Treated With Mohs Micrographic Surgery: A National Prospective Cohort Study.* ACTAS DERMOSIFILIOGRAFICAS. 2022; 113(4) 432-434. (Letter).
- Rodríguez-Lomba, E; Lozano-Masdemont, B; Campos-Domínguez, M. *Infantile Digital Fibromatosis: Primum Non Nocere.* ACTAS DERMOSIFILIOGRAFICAS. 2022; 113(5) 451-458. (Article).
- Benito, LMN; Carretero, G; Rivera-Díaz, R; Carrascosa, JM; Dauden, E; de la Cueva, P; Sahuquillo-Torralla, A; Herrera-Acosta, E; Baniandres-Rodríguez, O; López-Estebaranz, JL; Belinchon, I; Riera-Monroig, J; Ferran, M; Gómez-García, FJ; Mateu, A; Rodríguez, L; Vilar-Alejo, J; García-Donoso,







C; Balleca, F; Velasco, LM; Botella-Estrada, R; Herrera-Ceballos, E; Ruiz-Genao, DP; Descalzo, MA; García-Doval, I. *Moderate to Severe Psoriasis in Pediatric and Young Patients: The BIOBADADERM Registry Experience*. ACTAS DERMO-SIFILIOGRAFICAS. 2022; 113(4) 401-406. (Article).

- Bosch, IB; del Cañizo, A; Campos-Domínguez, M; Ordóñez, J; Verdu, MDB; Fanjul, M; Pérez-Egido, L; de Agustin, JC. *Juvenile Xanthogranuloma as Differential Diagnosis of a Vulvar Mass: A Case Report*. EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS. 2022; 10(01) 25-29. (Article).
- Pluma A; Alsina L; Baniandres O; Caliz R; Casellas M; Grados D; Martínez López JA; Pérez EP; Polo A; Pego Reigosa JM; Trujillo E; Vela P. *Multidisciplinary models for pregnancy care in patients with rheumatic diseases: Clinical experiences and experts opinion*. EUROPEAN JOURNAL OF RHEUMATOLOGY. 2022; 9(4) 191-196. (Article).
- Nieto-Benito, LM. *Hemorrhagic plantar blisters in a healthy 15-year-old patient*. MEDICINA DE FAMILIA-SEMERGEN. 2022; 48(1) 7-8. (Editorial Material).

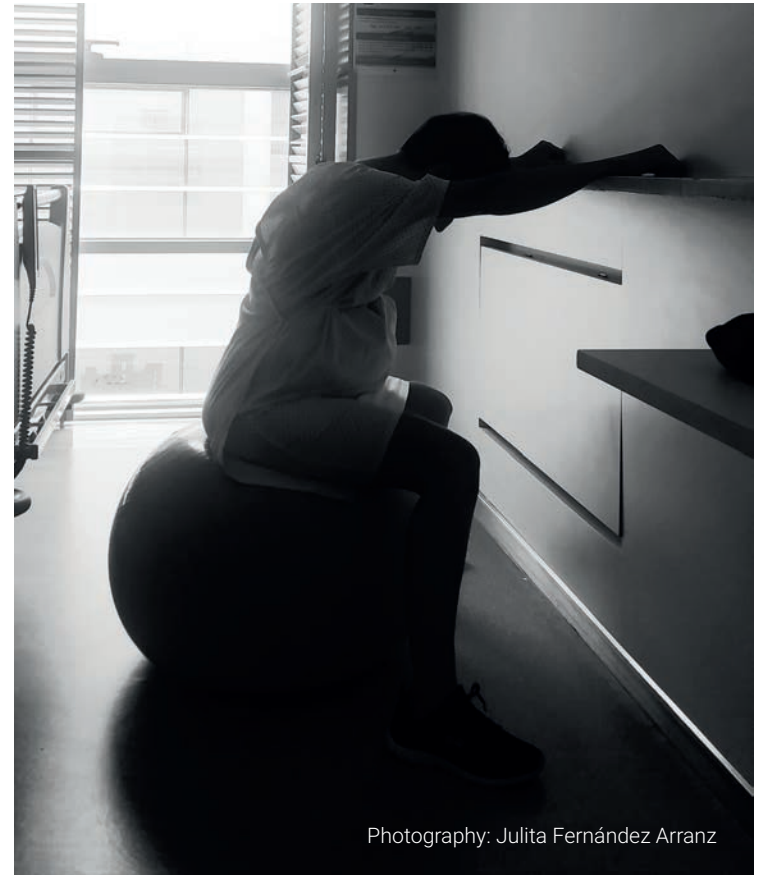
#### Other publications

- Miñano Medrano R; López Estebanz JL; Sanmartin-Jiménez O; Garcés JR; Rodríguez-Prieto MA; Vilarrasa-Rull E; de Eusebio-Murillo E; Escutia-Muñoz B; Flórez-Menéndez Á; Artola-Igarza JL; Alfaro-Rubio A; Redondo P; Delgado-Jiménez Y; Sánchez-Schmidt JM; Allende-Markixana I; Alonso-Pacheco ML; García-Bracamonte B; de la Cueva-Dobao P; Navarro-Tejedor R; Ciudad-Blanco C; Carnero-González L; Vázquez-Veiga H; Cano-Martínez N; Ruiz-Salas V; Sánchez-Sambucety P; Botella-Estrada R; González-Sixto B; Martorell-Calatayud A; Gil P; Morales-Gordillo V; Toll-Abelló A; Ocerin-Guerra I; Mayor-Arenal M; Suárez-Fernández R; Sainz-Gaspar L; Descalzo MA; García-Doval I. *Risk of a Second Skin Cancer in a Cohort of Patients With Nonmelanoma Skin Cancer -Basal Cell Carcinoma or Squamous Cell Carcinoma-Treated With Mohs Micrographic Surgery: A National Prospective Cohort Study*. ACTAS DERMO-SIFILIOGRAFICAS. 2022; 113(5) 451-458. (Article).

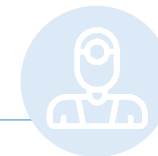


# NURSING RESEARCH GROUP

*Coordinator:*  
Ana María García Pozo



Photography: Julita Fernández Arranz



Group Director: **ANA MARÍA GARCÍA POZO**

Organisms involved: **HGUGM**

Type: **Associated Group**

## Research lines

### Axis 1: Nursing care

- ▶ L1: Chronic patient care
- ▶ L2: Critical patient care
- ▶ L3: Care for mental health patients
- ▶ 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 skills and competence

### Axis 4: Qualitative approach to research in care

- L1: Care and rehabilitation for vulnerable populations

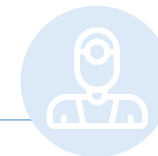
It is an independent research group that aims to increase evidence in nursing care and encourage group research.

## Group members

- **Arrogante Maroto, Óscar:** R2. Recognised Researcher.
- **Bretón Santos, Álvaro:** R1. First Stage Researcher.
- **Calderari Fernández, Elena:** R2. Recognised Researcher.
- **Cid Expósito, Gema:** R2. Recognised Researcher.
- **Corral Liria, Inmaculada:** R2. Recognised Researcher.
- **Durango Limárquez, María Isabel:** R1. First Stage Researcher.

- **Fernández Arranz, Julita:** R2. Recognised Researcher.
- **Fernández Alonso, Víctor:** R2. Recognised Researcher.
- **Flores García, Rubén:** R2. Recognised Researcher.
- **García Pozo, Ana María:** R4. Leading Researcher.
- **González Baz, María Dolores:** R1. First Stage Researcher.
- **González Lluva, Concepción:** R1. First Stage Researcher.
- **Guerra Sánchez, Luis:** R2. Recognised Researcher.
- **Guerrero Márquez, Gloria:** R1. First Stage Researcher.
- **Guijarro Jiménez, Esther:** R1. First Stage Researcher.
- **Leñero Cirujano, Miriam:** R2. Recognised Researcher.
- **Lobo Rodríguez, Carmen:** R2. Recognised Researcher.
- **López Sánchez, Raquel:** R2. Recognised Researcher.
- **López Calleja, Ana María:** R1. First Stage Researcher.
- **López Esteban, Amparo:** R1. First Stage Researcher.
- **Lorente del Río, Natalia:** R1. First Stage Researcher.
- **Luengo González, Raquel:** R2. Recognised Researcher.
- **Martín Fernández, Milagros:** R1, First Stage Researcher.
- **Medina Torres, Margarita:** R1. First Stage Researcher.
- **Moro Tejedor, María Nieves:** R2. Recognised Researcher.
- **Palacios Ceña, Domingo:** R3. Established Researcher.
- **Pastor Cordero, Ana María:** R1. First Stage Researcher.
- **Ponce Figuereo, María Ángeles:** R1. First Stage Researcher.
- **Recio Vivas, Ana María:** R2. Recognised Researcher.
- **Robledo Martín, Juana:** R2. Recognised Researcher.
- **Soto Lucía, María Consuelo:** R1. First Stage Researcher.
- **Suárez Bustamante, Rosa:** R1. First Stage Researcher.
- **Toraño Olivera, María José:** R1, First Stage Researcher.
- **Trujillo Gallego, Fernando:** R1. First Stage Researcher.
- **Vaquero Lozano, María Paz:** R1. First Stage Researcher.
- **Velarde García, Juan Francisco:** R2. Recognised Researcher.
- **Visiers Jiménez, Laura:** R2. Recognised 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	Owner	Inventors
Nos vamos de excursión a las Urgencias del Gregorio Marañón	Nº Asiento Registral: 16/2016/3799	FIBHGM	Laura Cervantes, Paula Vázquez, David García
App para la gestión eficiente del gasto sanitario	Nº Asiento Registral: 16/2021 /1641	FIBHGM	Mª del Pilar Álvaro, Mª de las Nieves Moro

■ Transferred Intellectual Property.

## Doctoral theses. Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	María Dolores González Baz	Nivel de confort en enfermos ingresados en unidades de cuidados críticos (UCC)	Enrique Pacheco del Cerro	UCM	20/01/2022
Ph Thesis	Miriam Leñero Cirujano	Diseño y validación de un cuestionario de evaluación de la actitud hacia el humor en los profesionales sanitarios	Jacinto Gómez Higuera / Juan Ignacio Torres González / Héctor González Ordi	UCM	17/03/2022

## Clinical Practice Guidelines

Authors	Title	Journal / Reference
	Procedimientos de Enfermería en Urgencias de Pediatría	Sociedad Española de Urgencias de Pediatría (SEUP), 1º Edición, 2022. ISBN 978-84-18576-97-3

## Publications

Total Impact Factor: 61,3

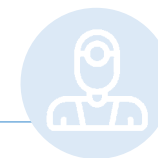
	Nº	IF
Own publications	7	21,9
Joint publications	8	39,4
First decile publications	3	15,2
First quartile publications	8	45,3
Second quartile publications	4	12,0
Third quartile publications	2	3,3
Fourth quartile publications	1	0,7
Nonindexed publications / No IF	7	-
Total publications (including those without IF)	22	61,3





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

- Fernández-Alonso, V; Palacios-Cena, D; Silva-Martín, C; García-Pozo, A. *Deceased donor's family experience during the organ donation process: a qualitative study Experiencia de familias de donantes fallecidos durante el proceso de donacion de organos: un estudio cualitativo*. ACTA PAULISTA DE ENFERMAGEM. 2022; 35. FI: 0.7. Cuartil: 4. (Article).
- López-Campos, JL; Jiménez-Ruiz, CA; Petersen, EDM; Castedo, CR; Sánchez, SA; Lozano, PV; Espinosa, SF; Soriano, MDP; Martínez, ED; de Llanos, CG; Espla, EP; Cesar, EC; Mogrovejo, S; Miranda, JAR; Ferrero, MB; González, FJC; Contreras, RS; Miguel, TP; Cardells, RP; Dou, MVG; Aguilar, JMG; Amado, CA; Unzueta, MIG; Seijas, PR; Muniz, MAM; Sendra, EN; de Granda-Orive, JI; Signes-Costa, J. *Smoking Cessation Units as a Source of COPD Diagnoses: Project 1000-200*. ARCHIVOS DE BRONCONEUMOLOGIA. 2022; 58(3) 264-267. FI: 8. Cuartil: 1. (Letter).
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Photography: Ana Isabel González González

# 6

## OTHER RESEARCH ACTIVITIES

Publications generated by clinical researchers associated with the liSGM

Publications generated with the participation of the Research Support Services (RSSs)



### Clinical researchers associated

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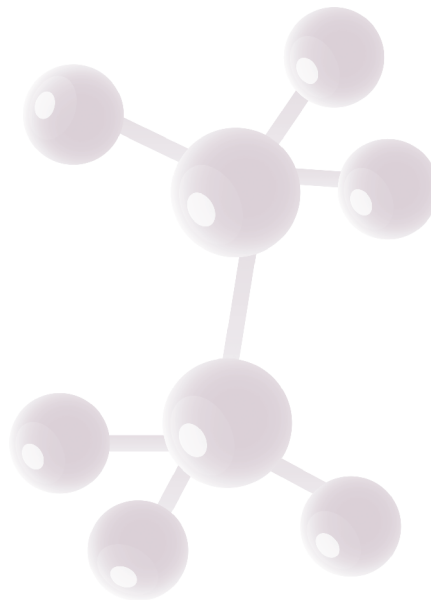


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### Cardiac Imagin Unit

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- Sánchez de la Nava AM; Gómez-Cid L; Ríos-Muñoz GR; Fernández-Santos ME; Fernández AI; Arenal Á; Sanz-Ruiz R; Grigorian-Shamagian L; Atienza F; Fernández-Avilés F. *Cardiovascular Diseases in the Digital Health Era: A Translational Approach from the Lab to the Clinic*. BIOTECH. 2022; 11(3). (Review).
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#### Experimental Operating Room

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*Interchangeable methods?* FRONTIERS IN PHYSIOLOGY. 2022; 13. FI: 4. Cuartil: 2. (Article).

### Medical Imaging laboratory

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

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- Casquero-Veiga, M; Lamanna-Rama, N; Romero-Miguel, D; Desco, M; Soto-Montenegro, ML. *In vivo Positron Emission Tomography to Reveal Activity Patterns Induced by Deep Brain Stimulation in Rats*. JOVE-JOURNAL OF VISUALIZED EXPERIMENTS. 2022; (181). FI: 1.2. Cuartil: 3. (Article).
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#### Flow Cytometry and cell sorter Unit

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

- Sainz, T; Díaz, L; Rojo, D; Clemente, MI; Barbas, C; Gosalbes, MJ; Jiménez-Hernández, N; Escosa, L; Guillén, S; Ramos, JT; Muñoz-Fernández, MA; Navarro, ML; Mellado, MJ; Serrano-Villar, S. *Targeting the Gut Microbiota of Vertically HIV-Infected Children to Decrease Inflammation and Immunoactivation: A Pilot Clinical Trial*. NUTRIENTS. 2022; 14(5). FI: 5.9. Cuartil: 1. (Article).

#### Cell Culture Unit

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

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Fernández-Santos, ME; Suárez, S; Pion, M; Martínez-Bonet, M; Correa-Rocha, R. *A Novel GMP Protocol to Produce High-Quality Treg Cells From the Pediatric Thymic Tissue to Be Employed as Cellular Therapy*. FRONTIERS IN IMMUNOLOGY. 2022; 13. FI: 7.3. Cuartil: 1. (Article).

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- Sainz, T; Díaz, L; Rojo, D; Clemente, M; Barbas, C; Gosalbes, MJ; Jiménez-Hernández, N; Escosa, L; Guillén, S; Ramos, JT; Muñoz-Fernández, MA; Navarro, ML; Mellado, MJ; Serrano-Villar, S. *Targeting the Gut Microbiota of Vertically HIV-Infected Children to Decrease Inflammation and Immunoactivation: A Pilot Clinical Trial*. NUTRIENTS. 2022; 14(5). FI: 5.9. Cuartil: 1. (Article).

### Confocal Microscopy Unit

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

- Santos-Coquillat, A; Herreros-Pérez, D; Samaniego, R; González, M; Cusso, L; Desco, M; Salinas, B. *Dual-labeled nanoparticles based on small extracellular vesicles for tumor detection*. BIOLOGY DIRECT. 2022; 17(1). FI: 5.5. Cuartil: 1. (Article).
- Llorente, V; Sanderson, D; Martín-Gorgojo, A; Samaniego, R; Desco, M; Gómez-Gaviro, MV. *A 3D Analysis of Cleared Human Melanoma*. BIOMEDICINES. 2022; 10(7). FI: 4.7. Cuartil: 1. (Article).
- Cuevas, VD; Simon-Fuentes, M; Orta-Zavalza, E; Samaniego, R; Sánchez-Mateos, P; Escribese, M; Cimas, FJ; Bustos, M; Pérez-Diego, M; Ocana, A; Domínguez-Soto, A; Vega, MA; Corbi, AL. *The Gene Signature of Activated M-CSF-Primed Human Monocyte-Derived Macrophages Is IL-10-Dependent*. JOURNAL OF INNATE IMMUNITY. 2022; 14(3) 243-256. FI: 5.3. Cuartil: 2. (Article).
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### Genomics Unit

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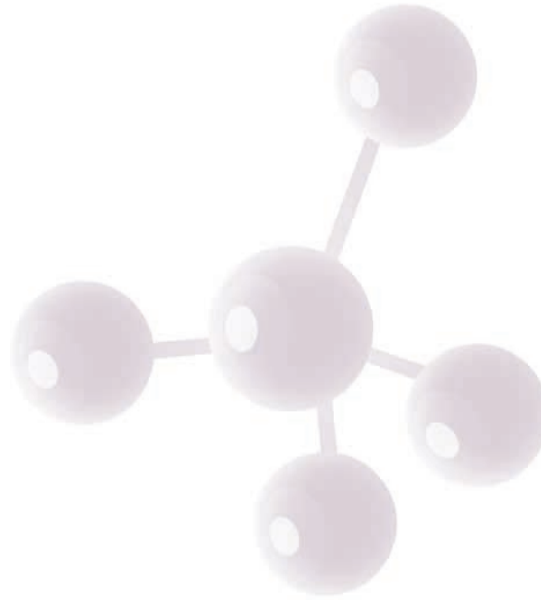


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### **Publications of the main WOS collection in journals indexed in the Journal Citation Reports without impact factor**

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## PARTNER COMPANIES 2022

ABBVIE SPAIN SLU  
ALMIRALL, S.A.  
ASOCIACIÓN INFANTIL ONCOLÓGICA DE MADRID (ASION)  
ASOCIACIÓN LA VIDA CON HERNIA DIAFRAGMÁTICA CONGENITA  
ASOCIACIÓN MADRILEÑA DE NEUROLOGÍA (AMN)  
ASOCIACIÓN RIS RED DE INVESTIGACION EN SIDA  
ASPANION  
C.D.E. BRAZADAS POR SONRISAS  
CHIESI ESPAÑA, S.A.  
CLINICALSOFT SL  
DOCTAFORUM SERVICIOS, S.L.  
ESPECIALIDADES FARMACÉUTICAS CENTRUM, S.A.  
EUROPEAN SOCIETY OF ANAESTHESIOLOGY AND INTENSIVE CARE (ESAIC)  
FEDERACIÓN ESPAÑOLA DE PADRES DE NIÑOS CON CÁNCER  
FONDAZIONE PENTA ONLUS

FRESENIUS KABI ESPAÑA, S.A.  
FUNDACIÓN ALADINA  
FUNDACIÓN ALICIA KOPLOWITZ  
FUNDACIÓN DE LA SOCIEDAD ESPAÑOLA DE HEMATOLOGÍA Y ONCOLOGÍA PEDIÁTRICAS (FSEHOP)  
FUNDACION EPIC  
FUNDACIÓN FAMILIA ALONSO  
FUNDACIÓN JOSÉ LUIS CASTAÑO-SEQC  
FUNDACIÓN MUTUA MADRILEÑA  
FUNDACION MUTUAL MEDICA  
FUNDACION PARA LA INNOVACION EN BIOMEDICINA  
FUNDACIÓN SEIMC-GESIDA  
FUNDACIÓN SIGNO  
GALAPAGOS BIOPHARMA SPAIN S.L.U.  
GILEAD SCIENCE, S.L.U.  
GLAXOSMITHKLINE INV. Y DESARROLLO, S.L.  
GLOBAL MEETINGS, S.L.  
JANSSEN CILAG, S.A.  
KERN PHARMA, S.L.  
LABORATORIOS VIIV HEALTHCARE SL

MARTINCO IMPRESION, S.L.  
MEDTRONIC IBÉRICA, S.A.  
MERCK SHARP & DOHME ESPAÑA, S.A.  
MERCK, S.L.U.  
NESTLE ESPAÑA S.A.  
NOVARTIS FARMACEUTICA, S.A.  
NUTRICIA, S.R.L.  
PIERRE FABRE IBERICA,S .A.  
PRODUCTOS MEDICINALES MEDELA, S.L.  
RAIZ PUBLICIDAD, S.L.  
REINER MEDICAL, S.L.  
ROCHE FARMA, S.A.  
SANDOZ FARMACÉUTICA, SA  
SANITARIA 2000 SL  
SANOFI - AVENTIS, S.A.  
SOCIEDAD ESPAÑOLA DE DIRECTIVOS DE LA SALUD  
SOCIEDAD ESPAÑOLA DE FARMACIA HOSPITALARIA  
TERUMO BCT ESPAÑA, S.L.U.  
VEGENAT HEALTHCARE, S.L.  
VIFOR PHARMA ESPAÑA, S.L.

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