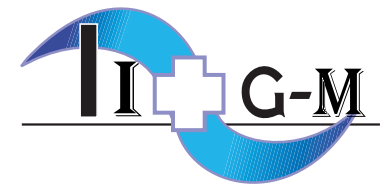


Annual Scientific Report

**2019**



Instituto de Investigación Sanitaria  
**Gregorio Marañón**

# Annual Scientific Report 2019



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,  
Formación e Infraestructuras Sanitarias





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



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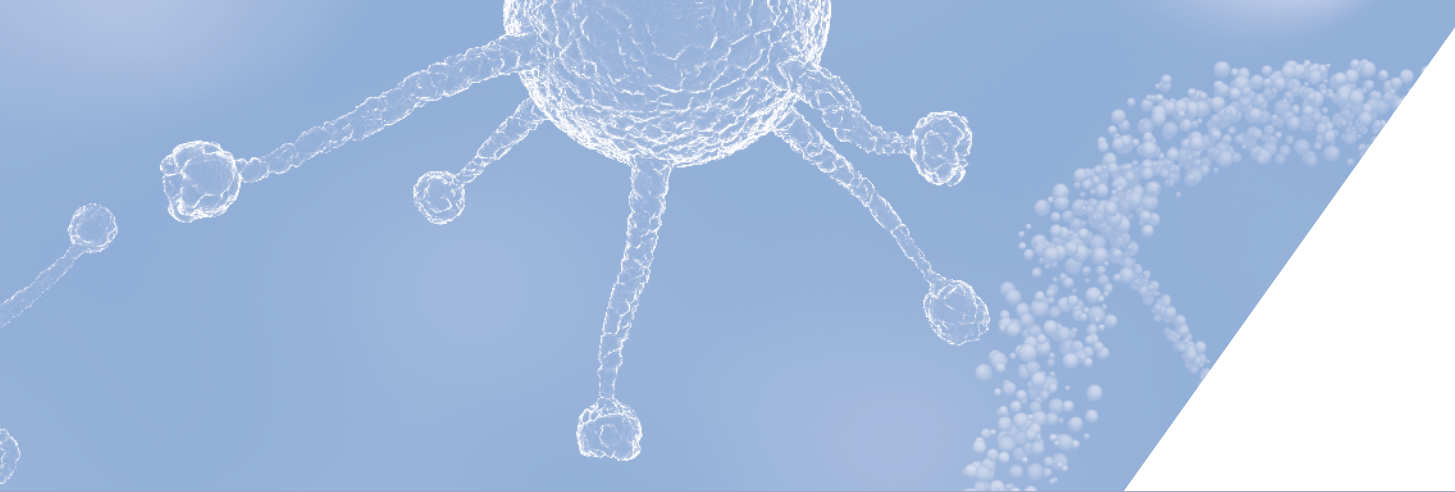
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# 1.

## Presentation



It is with great satisfaction that we present the 2019 Scientific Report of the **Health Research Institute of the Hospital General Universitario Gregorio Marañón (liSGM)** in an exercise of dissemination of the activity carried out with the aim of, on the one hand, exposing before institutions and social agents the research and innovative capacity of the liSGM and, on the other hand, and in a particularly relevant way, to recognize the **extraordinary effort made by the researchers** of each Research Group. This year it is especially important to highlight and thank the dedication of all the members of our institution in the extraordinarily adverse and complex circumstances that have resulted from the COVID pandemic.

The important research activity developed has allowed a significant growth (close to 20% with respect to the previous year) of the scientific production of the Institute, which has meant in the year 2019 to reach **4750 points of impact factor**. It is important to highlight the extreme rigor with which the awarding of publications to the liSGM is analyzed, which clearly determines the robustness of the indicator. Additionally, of note are the significant number of publications (46%) led by liSGM researchers, the degree of international collaboration in different publications and the proportion of originals in journals of first decile and quartile (46%).

In a similar way, the **innovation activity of the liSGM** should be highlighted, which allows it to boast a portfolio of innovation assets, including a brand new «spin-off», adapted to the current needs of the health system and, above all, with great potential for future growth and highly attractive to the productive and industrial sector.

All this activity is possible thanks to the excellent capacity of the researchers to **compete effectively in competitive calls** for projects and human resources. This last aspect is especially noteworthy, since it is the basis for ensuring the generational replacement of the center's researchers. In this context, it is important to highlight the commitment of the liSGM groups with the **training of researchers**, which has resulted in a significant number of doctoral theses defended throughout 2019 and the ambitious Researcher Training Plan (with 13

accredited courses) that is being developed under the coordination of the liSGM Training Commission.

The liSGM, through its managing body, the **Foundation for Biomedical Research Hospital Gregorio Marañón (FIBHGM)**, makes a continuous effort to improve its internal **management processes** and is committed to a **continuous quality improvement**, as a result of which it has recently achieved the European seal of excellence in human resources management «**Human Resources Strategy For Researchers**» (HRS4R), as well as becoming the **first Health Research Institute to be fully certified under ISO9001:2015** in the country.

Once again, we take the opportunity offered by this platform to express our sincere thanks to all the **liSGM researchers** for their efforts in a context as sensitive as that represented by scientific research in hospitals. Only a cohesive collective effort, duly aligned with a strategy around the improvement of patient health, provides the excellent results that are collected in this report. In the same way, it is important to thank all the **Area Coordinators, Group Leaders, Research Groups, Research Support Services (RSS), Clinical Services and especially the young researchers**, who are the basis of the development and activity of the liSGM.

The situation reflected in this report shows that our Institution maintains its evolution and growth, generating excellent expectations for the future and placing it in a privileged position to face the enormous future challenges that are in sight, to ensure not only compliance with the requirements of the new **Technical Guidelines for the Evaluation of Accreditation of Health Research Institutes** of the Carlos III Institute of Health, but especially to illuminate the foundations of biomedical research: observation, which generates questions, in clinical practice followed by a multidisciplinary cooperative research to answer them.

Thank you very much.

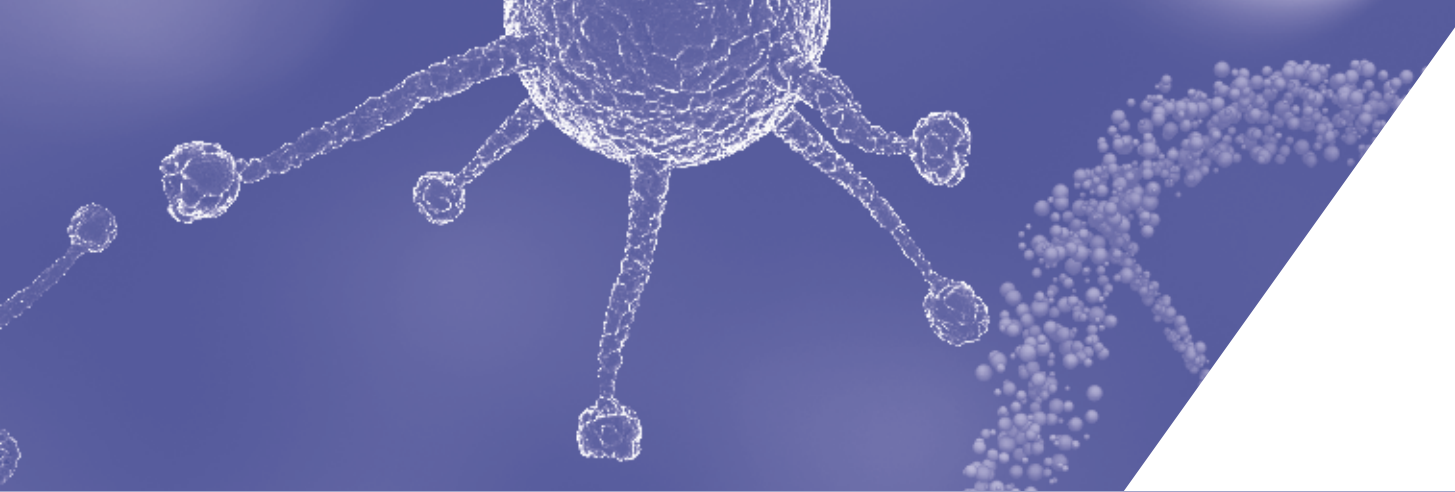
**Dr. Ismael Buño Borde**

*Scientific Director Managing Director*

**Dr. Joseba Barroeta Urquiza**

*liSGM Hospital General Universitario Gregorio Marañón*





# 2:

## Introduction



# Introduction

## MISSION

IISGM is an institution that aims to carry out the highest quality cooperative translational research for generation of knowledge and fast application of advances in care practice and that contributes to the training of researchers.

All in all, to favor the efficiency of the National Health System by providing added value.

## VISION

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

## VALUES

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

The **Health Research Institute of the Hospital General Universitario Gregorio Marañón (IISGM)** is made up of the following bodies:

- Servicio Madrileño de Salud (SERMAS [Madrid Health Service]) through Hospital Universitario Gregorio Marañón, which is the basic core of the Institute, and groups from primary care in the hospital's catchment area.
- Universidad Complutense de Madrid (UCM).

- Universidad Carlos III de Madrid (UCIII MADRID).
- Fundación para la investigación biomédica del Hospital Gregorio Marañón (FIBHGM [Foundation for Biomedical Research Hospital Gregorio Marañón]) as the management body.
- Dirección General de Investigación, Formación e Infraestructuras Sanitarias (General Directorate for Research, Training, and Health Infrastructure) of the Consejería de Sanidad de la Comunidad de Madrid (Health Council of the Autonomous Community of Madrid).

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



# 3:

## Executive summary



# Global analysis

Analysis of the scientific production of IISGM and its bibliometric impact is an essential element in the evaluation of the Institute's research activity, given that both factors reflect the competitiveness of its researchers

In order to prepare this Scientific Report, we analyzed journals indexed in the **Web of Science** and in **PubMed**, an open-access database specialized in health sciences.

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

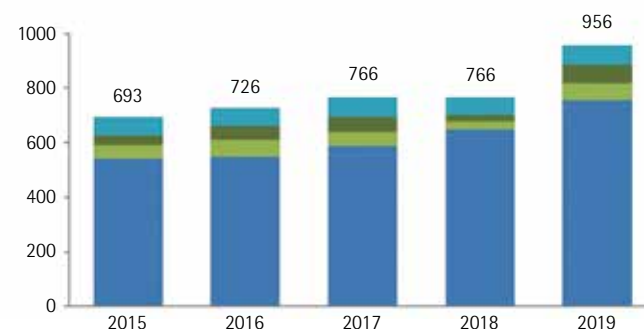
Publications involving different groups or areas of the IISGM are counted individually in each group and area, although only once for the calculation of the total impact factor.

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 Scientific Report.

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

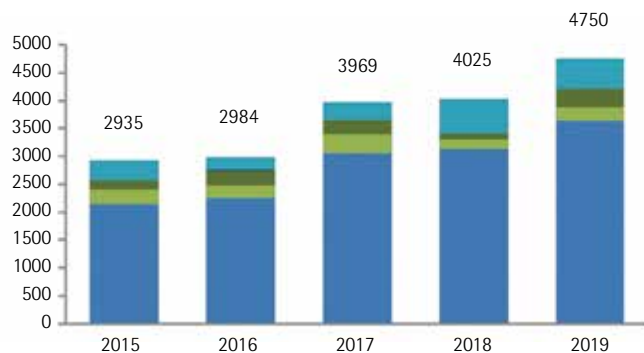
The graphs show strong consolidation of the growth trend observed in recent years, with a total of **956 indexed publications** (884 excluding letters), which represent a **global impact factor over 4750 points** [4210 excluding letters], that is, an **increase of 1815 points** since 2015, as well as an **increase of 725 points with respect to the previous year** and **61.8% in the last 5 years**.

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



■ Letter	65	63	71	66	72
■ Proceedings Paper		2			
■ Review	36	52	55	22	67
■ Editorial Material	50	61	53	30	62
■ Article	542	548	587	648	755
<b>Total general</b>	<b>693</b>	<b>726</b>	<b>766</b>	<b>766</b>	<b>956</b>

### Scientific output of IISGM: total impact factor by type of publication

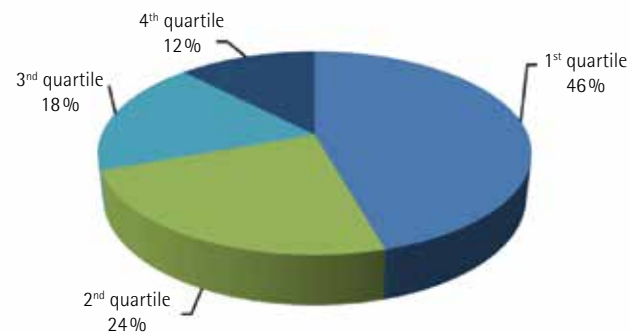


Letter	365	235	314	606	540
Proceedings Paper		5			
Review	170	272	254	118	329
Editorial Material	258	217	350	171	246
Article	2142	2257	3051	3130	3636
<b>Total general</b>	<b>2935</b>	<b>2984</b>	<b>3969</b>	<b>4025</b>	<b>4750</b>

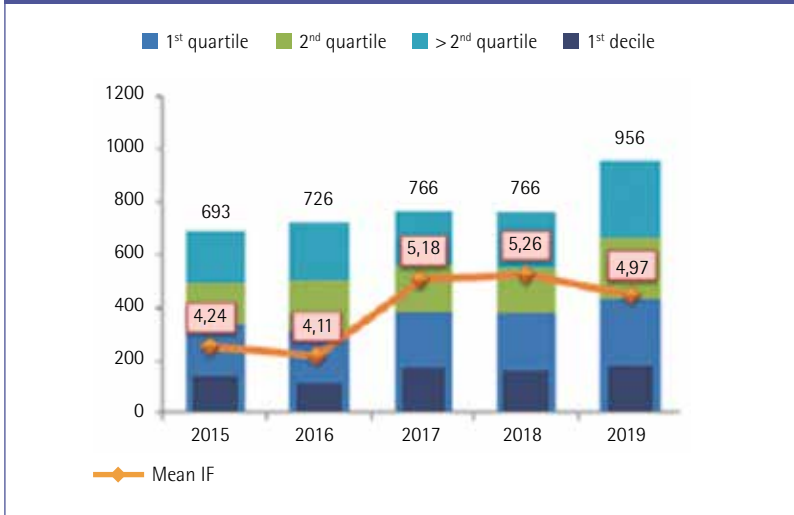
The previous figures summarize the total impact factor corresponding to the scientific production of the IISGM for each of the last 5 years and its distribution according to the different types of publication.

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

### Scientific output of IISGM in indexed journals with impact factor: distribution by quartiles (relative to 2019)



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

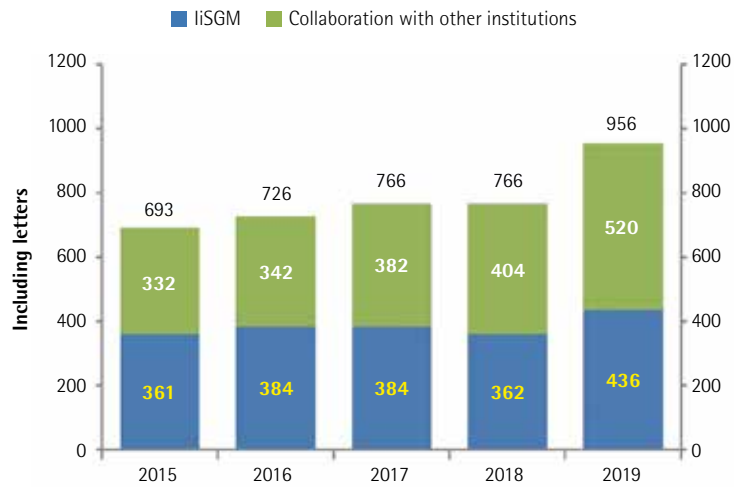


The distribution of IISGM publications according to quartile and decile is shown in the previous-figures. The absolute number of first-decile and first quartile publications continues to be greater than last year.

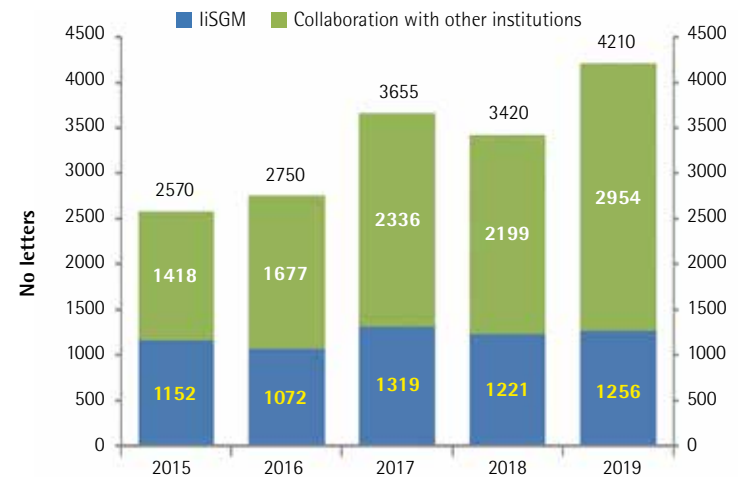
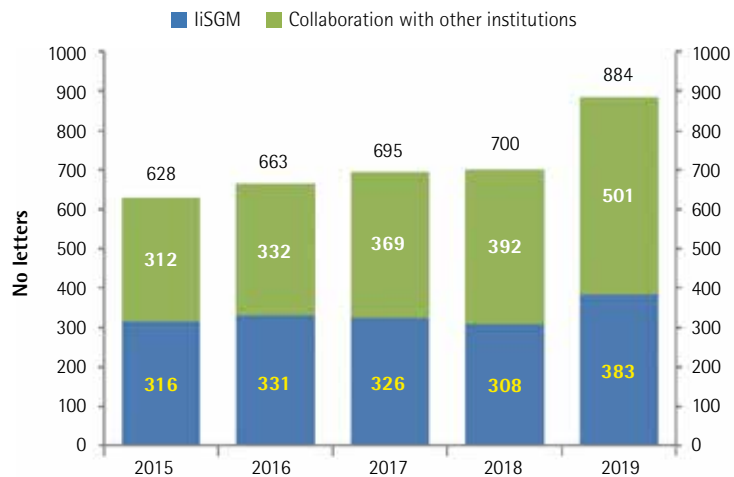
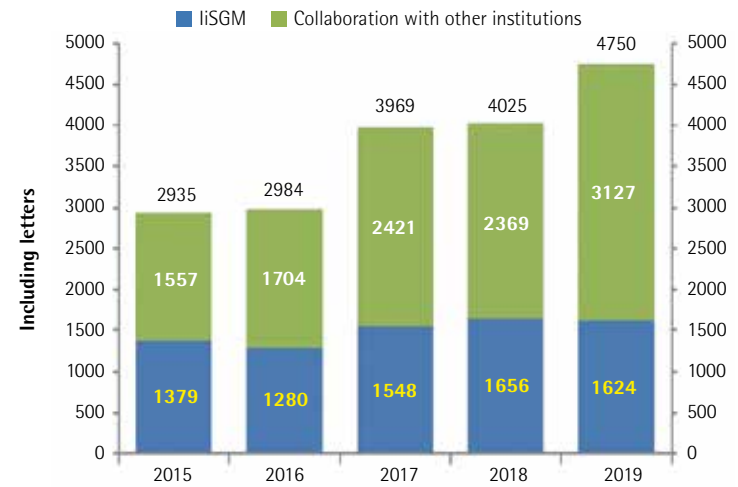
Global impact factor and mean impact factor by publication



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



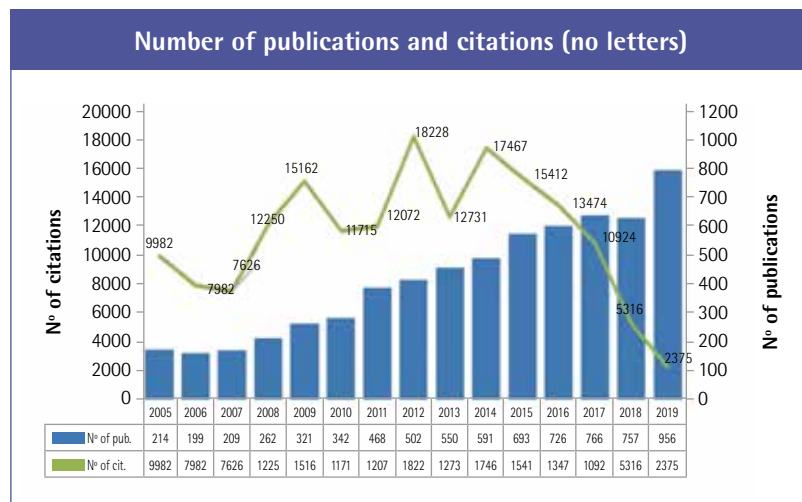
Scientific output of IISGM in indexed journals with impact factor: impact factor



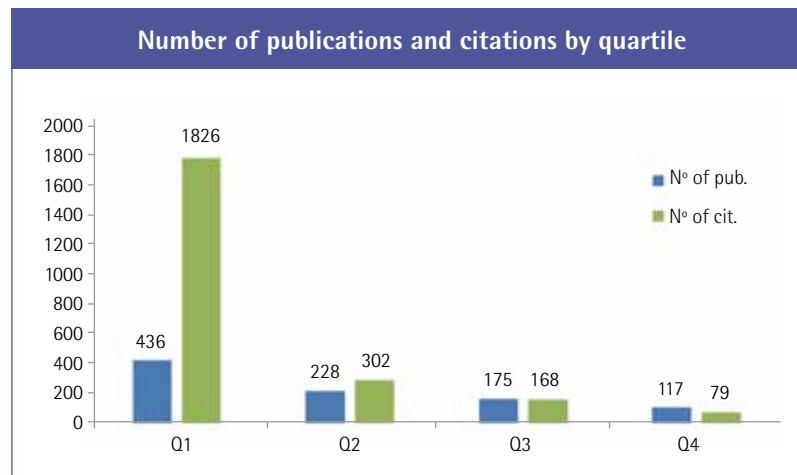
The analysis of activity specifically includes publications whose principal authors (first, last, or corresponding author) are IISGM researchers.

As for collaborative scientific output:

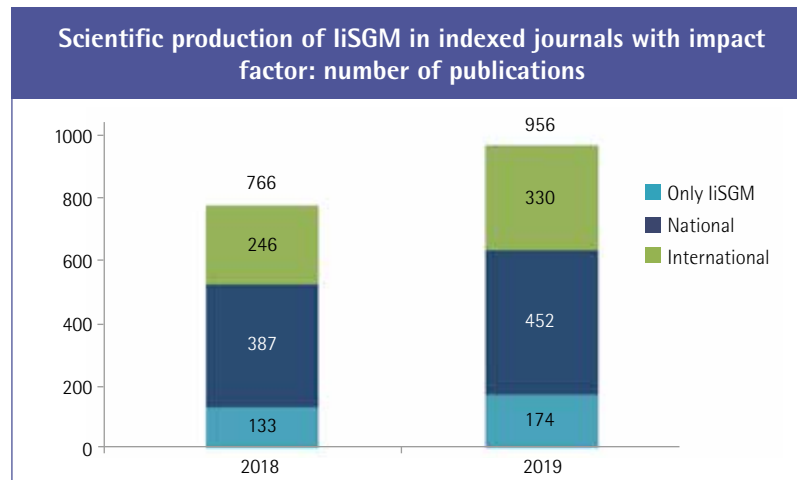
1. With letters: **54.4% of publications** and **65.8% of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **45.6% of the scientific output of IISGM** is accounted for by articles whose **main authors belong to the IISGM**.
2. Without letters: **56.7% of publications** and **70.2% of the impact factor** are accounted for by articles **generated in cooperation with other institutions**. Approximately **43.3% of the scientific output of IISGM** is accounted for by articles whose **main authors belong to the Institute**.



The number of citations for Institute publications over time is logically greater in older publications, although the number of citations is noteworthy, as is the number of first-quartile citations.



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





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.

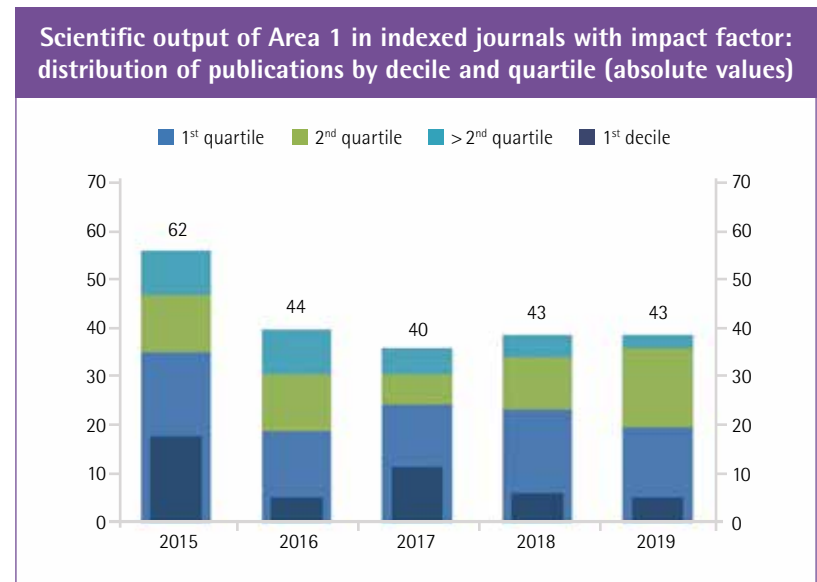
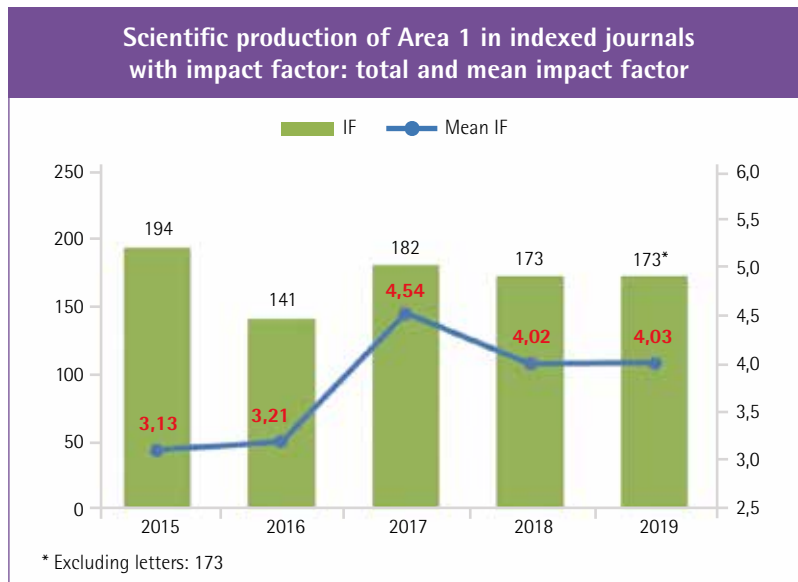
liSGM has **seven priority research areas** and also a specific research group on Nursing Care whose scientific activity is set out in detail below in 2 figures per Research Area:

- 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:

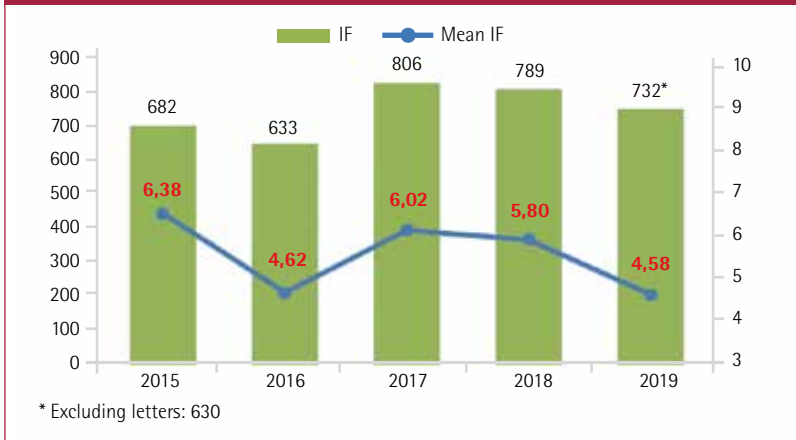


## AREA 1: BIOMEDICAL ENGINEERING

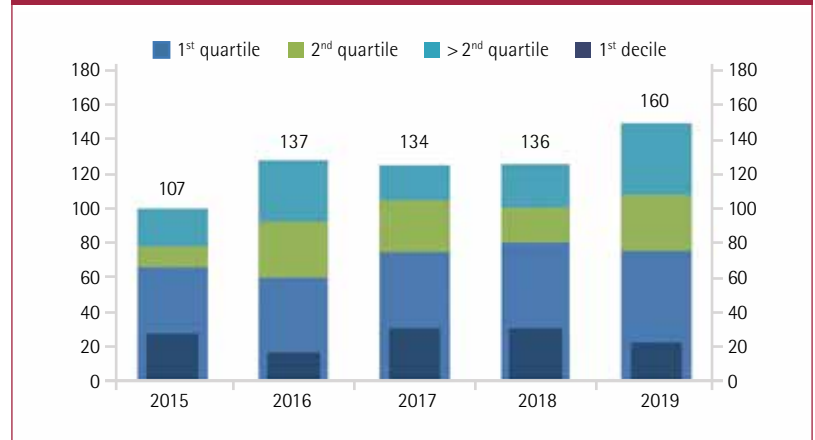


## AREA 2: CARDIOVASCULAR DISEASES

Scientific production of Area 2 in indexed journals with impact factor: total and mean impact factor

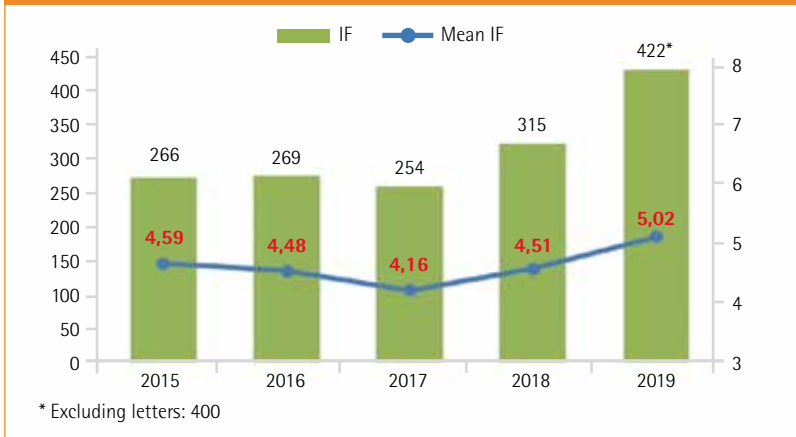


Scientific output of Area 2 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)



## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

Scientific production of Area 3 in indexed journals with impact factor: total and mean impact factor

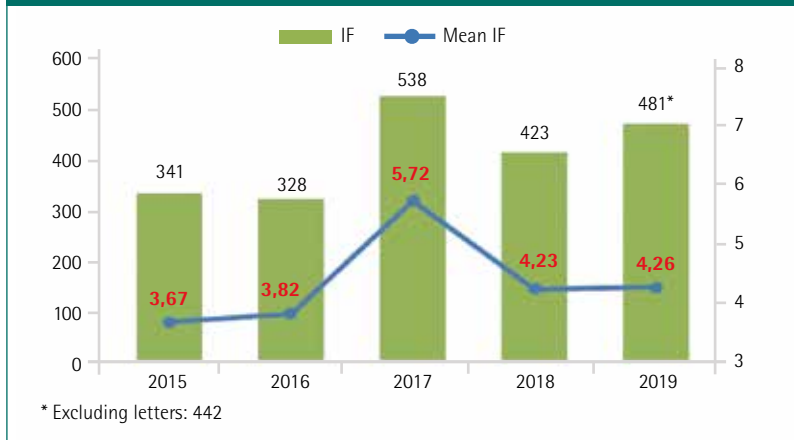


Scientific output of Area 3 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)

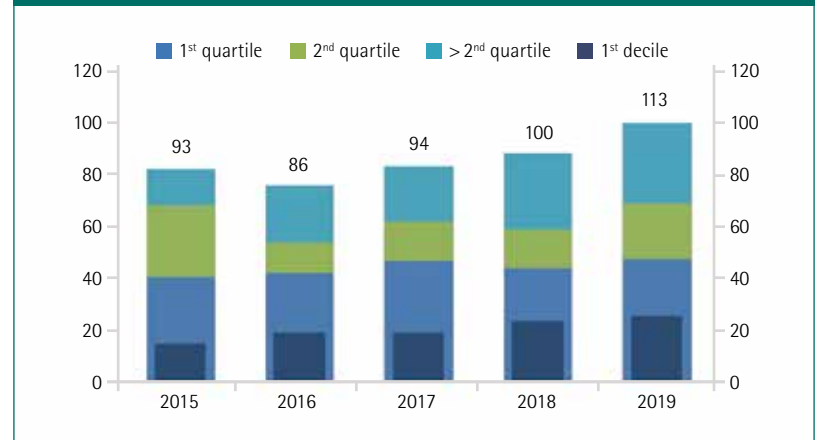


## AREA 4: CLINICAL MICROBIOLOGY, INFECTIOUS DISEASES AND AIDS

Scientific production of Area 4 in indexed journals with impact factor: total and mean impact factor

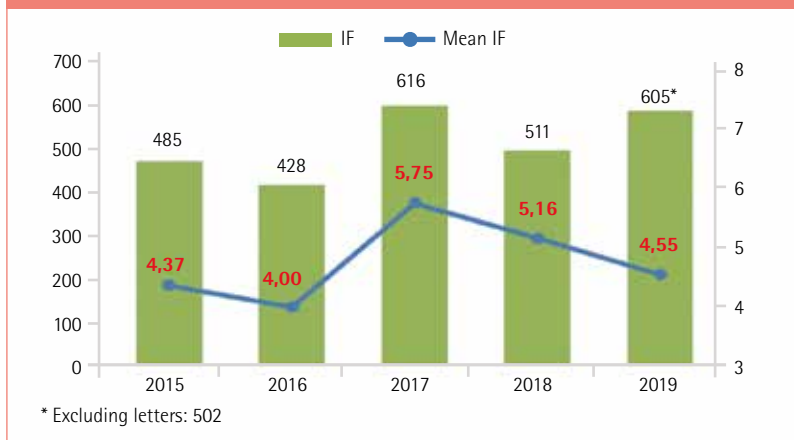


Scientific output of Area 4 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)

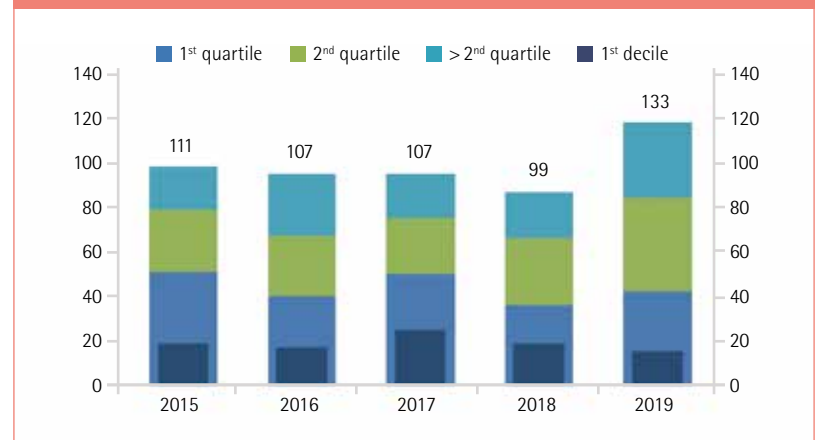


## AREA 5: DISEASES OF THE IMMUNE SYSTEM

Scientific production of Area 5 in indexed journals with impact factor: total and mean impact factor

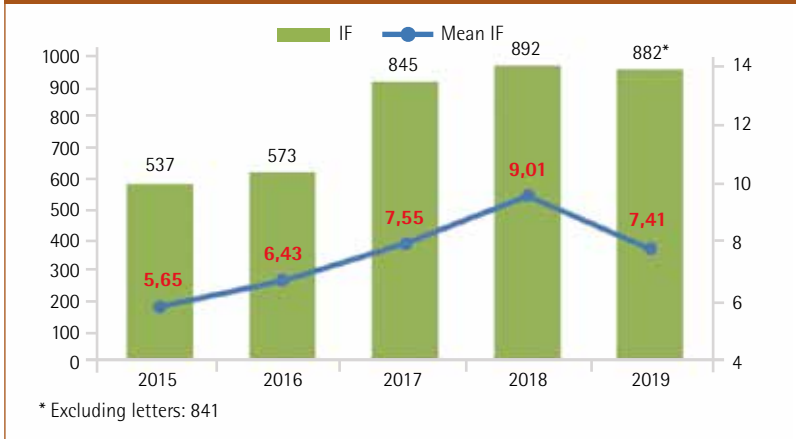


Scientific output of Area 5 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)

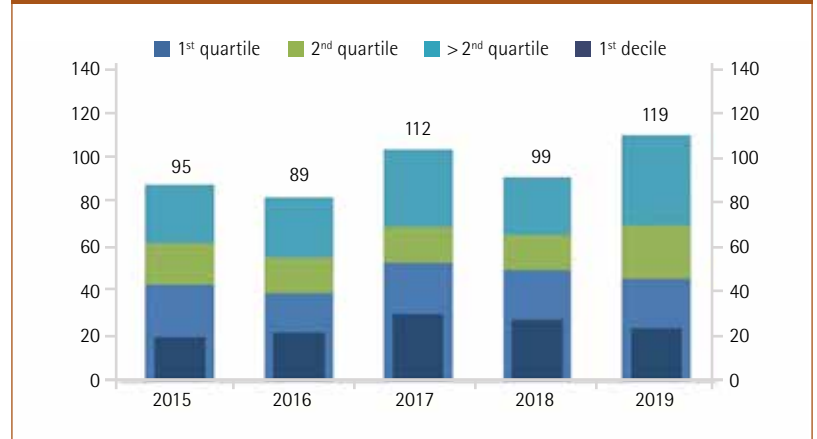


### AREA 6: TRANSLATIONAL ONCOLOGY

Scientific production of Area 6 in indexed journals with impact factor: total and mean impact factor

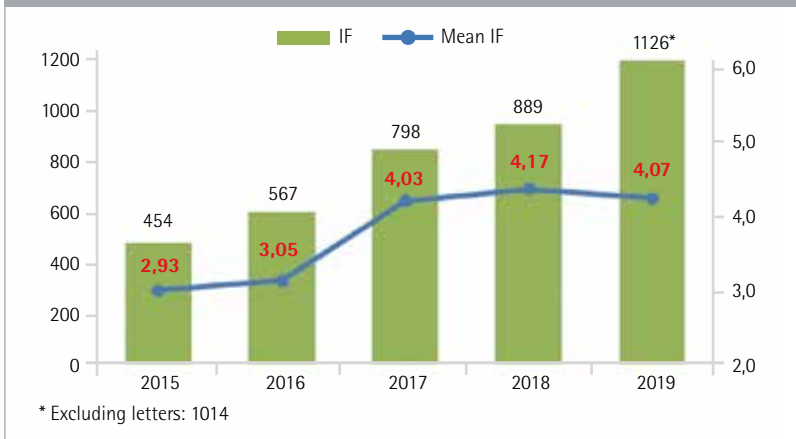


Scientific output of Area 6 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)

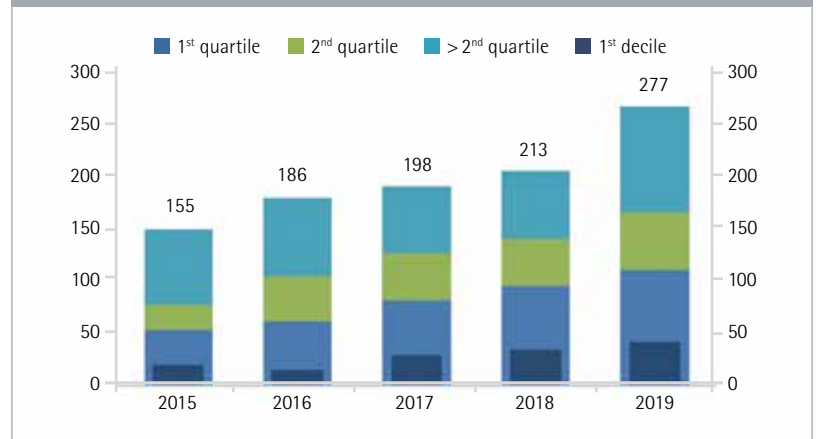


### AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

Scientific production of Area 7 in indexed journals with impact factor: total and mean impact factor

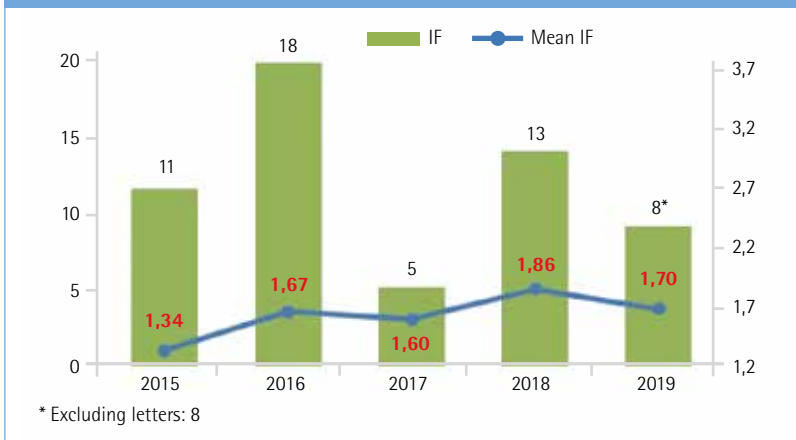


Scientific output of Area 7 in indexed journals with impact factor: distribution of publications by decile and quartile (absolute values)

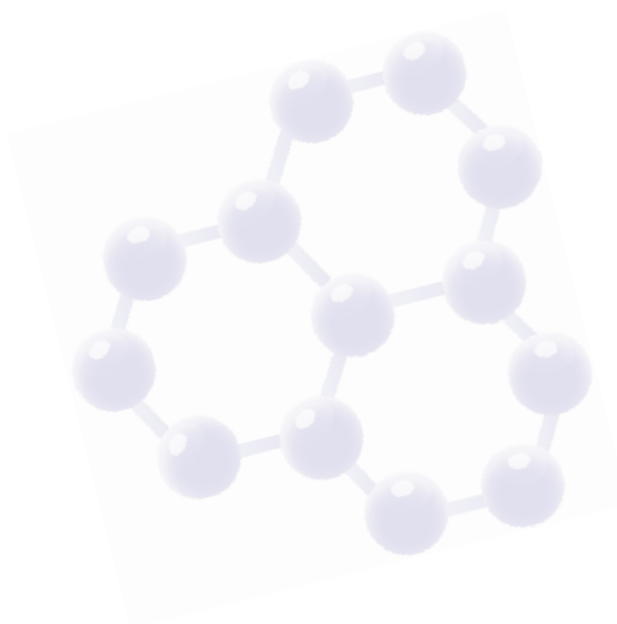
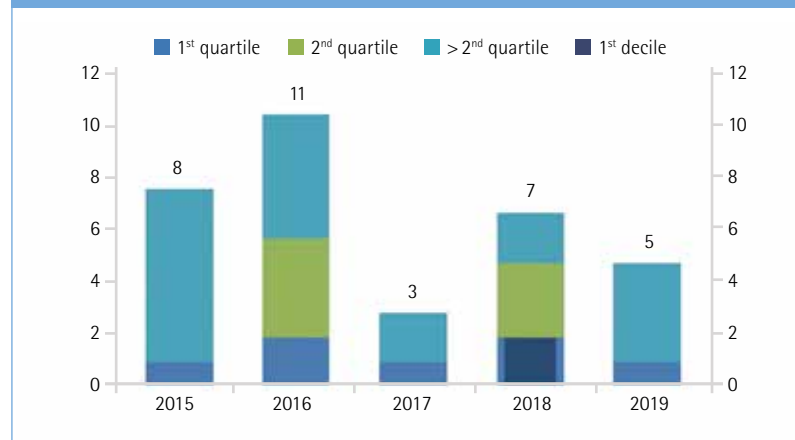


## NURSING RESEARCH GROUP

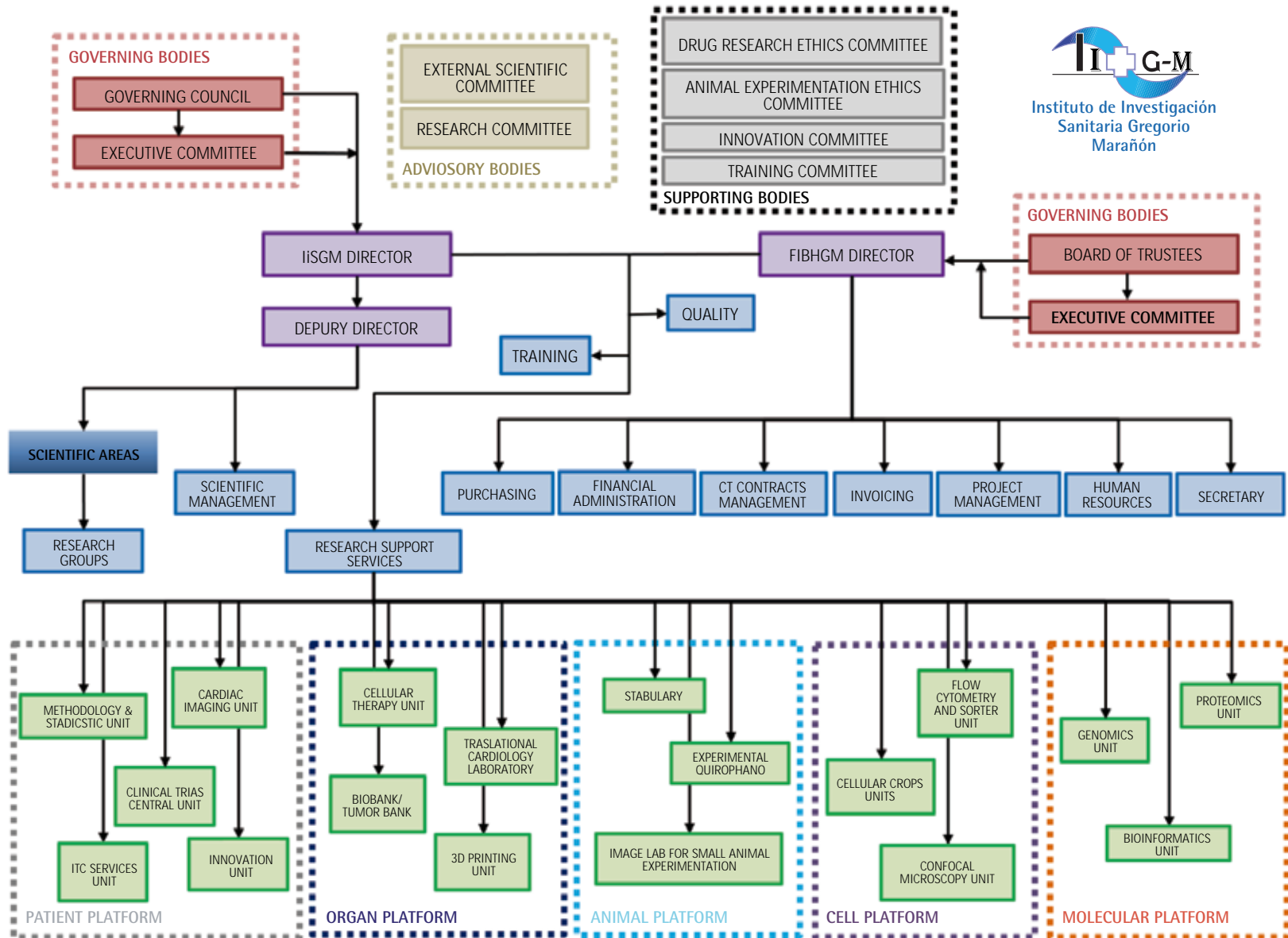
Scientific production of Nursing Group in indexed journals with impact factor: total and mean impact factor



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



# Organizational structure of IISGM



## 2. GOVERNING BODIES

### GOVERNING COUNCIL

- **Chair:** Ana Dávila-Ponce de León Muncio, Vice Councillor of Health care. Comunidad de Madrid.
- **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 (Manager of HGUGM), Ismael Buño Borde (Chair of research Committee Scientific and Director of IISGM), Felipe Atienza Fernández (Chair of the Clinical Research Ethics Committee) and Juan Francisco del Cañizo López (UCM Vicedean in HGUGM).
- **Members:** Celso Arango López (Trustee of the FIBHGM), Rafael Bañares Cañizares (Trustee of the FIBHGM), Manuel Desco Menéndez (Trustee of the FIBHGM), Francisco Fernández-Avilés Díaz (Trustee of the FIBHGM), Miguel Martín Jiménez (Trustee of the FIBHGM), María Sanjurjo Sáez (Trustee of the FIBHGM), Miguel Ángel Pozo García (UCM) Vice-Rector for Research and Transfer and Juan José Vaquero López (UC3M, Trustee of the FIBHGM)
- **Secretary:** Thierry Bardinet, FIBHGM Director.

### BOARD OF TRUSTEES

- **Chair:** Joseba Barroeta Urquiza (Manager of the HGUGM) and Ismael Buño Borde (Scientific Director of IISGM).
- **Members:** Celso Arango López, Rafael Bañares Cañizares, Emilio Bouza Santiago, José Antonio Clavero Núñez, Juan Francisco del Cañizo López, Manuel Desco Menéndez, Francisco Fernández-Avilés Díaz, Sonia García San José, Miguel Martín Jiménez, Alberto Menchén Viso, Carmen Oñate Heredero, María Sanjurjo Saez and Juan José Vaquero López.
- **Secretary:** Thierry Bardinet, FIBHGM Director.

## 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:** Pascual Balsalobre López (30/06/19) (HGUGM) and Constanancio Medrano López (30/06/19) (HGUGM).
- **Members:** Luis Álvarez-Sala Walther (HGUGM), Celso Arango López (HGUGM), Antonio Artés Rodríguez (UC3M), Fernando Asensio Rubio (HGUGM), Felipe Atienza Fernández (HGUGM), Pascual Balsalobre López (30/06/19) (HGUGM), Rafael Bañares Cañizares (HGUGM), José M<sup>a</sup> Bellón Cano (HGUGM), Javier Bermejo Thomas (HGUGM), Rafael Correa Rocha (HGUGM), M<sup>a</sup> Carmen de la Cruz Arguedas (HGUGM), Juan Francisco del Cañizo López (UCM Vicedean in HGUGM), Manuel Desco Menéndez (HGUGM), Francisco Fernández-Avilés Díaz (HGUGM), Eduardo Fernández-Cruz (HGUGM), Ana 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), Constanancio Medrano López (HGUGM), Luis Alberto Menchén Viso (HGUGM), Javier de Miguel Díez (Teaching Committee of the HGUGM), Laura Moreno Márquez (Technical Secretary of the FIBHGM), Patricia Muñoz García de Paredes (HGUGM), Marisa Navarro Gómez (HGUGM) and Beatriz Nieto Pereda (HGUGM).
- **Invited:** Arantzazu Miner Vélez (Scientific Management of IISGM).

## 4. SUPPORTING BODIES

### CLINICAL RESEARCH ETHICS COMMITTEE

- **Chair:** Felipe Atienza Fernández.
- **Vice-chair:** Andrés Jesús Muñoz Martín.
- **Secretary:** Roberto Collado Borrell.

- **Members:** M<sup>a</sup> Luisa Baeza Ochoa de Ocariz, Ana M<sup>a</sup> Iglesias Mohedano, M<sup>a</sup> del Carmen Heras Escobar, Juan Antonio Andueza Lillo, Rafael Carrión Galindo, M<sup>a</sup> del Carmen de la Cruz Arguedas, Ana Esther López Pérez, Vicente de las Peñas Gil, M<sup>a</sup> Luisa Navarro Gómez, Pilar Aitana Calvo Ferrandiz, M<sup>a</sup> Luisa Baeza Ochoa de Ocariz, Ana Mur Mur, Carlos Rojas-Marcos Asensi, Javier de Miguel Díez, Patricia Font López, Luis Andrés López Fernández, Antonio Muiño Miguez, Diego Rincón Rodríguez and Isabel Gómez Valbuena.
- **Secretary:** Santos Puerta Cruz.
- **Administrative:** María José Martín Muñoz.

### ANIMAL EXPERIMENTATION ETHICS COMMITTEE

- **Chair:** Fernando Asensio Rubio.
- **Members:** Carlos Simón Adiego, Laura Moreno Márquez, Alberto Tejedor Jorge, Begoña Quintana Villamandos, Javier Urbano Villaescusa, Batiste Andreu Martínez Climent, M<sup>a</sup> Victoria Gómez Gaviro, Lorena Cussó Mula, Javier Vaquero Martín, M<sup>a</sup> Luisa Baeza Ocariz, Antonio Martínez Escandell and Jesús López Herce Cid.
- **Secretary:** Miguel Relloso Cereceda.

### INNOVATION COMMITTEE

- **Chair:** Ismael Buño Borde (IISGM Scientific Director).
- **Vice-chair:** Manuel Desco Menéndez (UAI Director).
- **Members:** Thierry Bardinot (FIBHGM Director), Francisco Fernández Avilés Díaz (HGUGM), Rafael Correa Rocha (FIBHGM investigator), Ana Herranz Alonso (HGUGM), Iván Márquez Rodas (HGUGM), Rubén Pérez Mañanes (HGUGM), Guillermo Rodríguez Bernal (HGUGM), Sonia García de San José (HGUGM Vice-Manager) and Carlos Blanco Bermejo (UC3M).
- **Secretary:** Beatriz Pérez (UAI).





## TRAINING COMMITTEE

- **Chair:** Constancio Medrano López.
- **Members:** Ismael Buño Borde, Thierry Bardinet, José María Bellón Cano, Rafael Correa Rocha, Fernando Asensio Rubio, Irene Lomba Iriarte and Arantzazu Miner Vélez.

## BIOSECURITY COMMITTEE

- **Chair:** Ignacio Sánchez-Arcilla.
- **Members:** Ismael Buño, Thierry Bardinet, Ana Cabrero, Pilar Álvaro, Julio Soto, Fernando Asensio, M<sup>a</sup> Dolores Vigil, Jose Luis Revuelta, Jesús Guinea and Mi Kwon.
- **Secretary:** Maribel Clemente.

## RESEARCH SUPPORT SERVICES

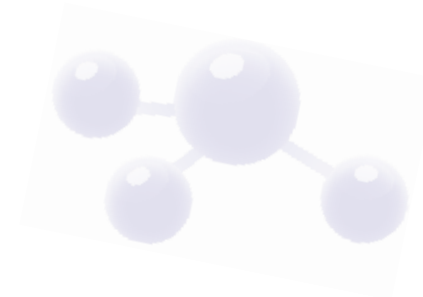
- **Scientific Director:** Ismael Buño Borde.
- **FIBHGM Director:** Thierry Bardinet.
- **Members:** José María Bellón Cano, María del C. de la Cruz Arguedas, Manuel Desco Menendez, Beatriz Pérez, Francisco Fernández-Avilés, Javier Bermejo Thomas, María Ángeles Muñoz-Fernández, M<sup>a</sup> Eugenia Fernández Santos, Rubén Pérez Mañanes, José Antonio Calvo Haro, Javier Pascau González-Garzón, Fernando Asensio Rubio, Lorena Cussó, Laura Díaz Muñoz, Maribel Clemente Mayoral, Rafael Samaniego, Julia Suárez González, Concha Gil García and Antonio Clemente Picornell.

## 5. MANAGEMENT BODY OF IISGM

### HOSPITAL GREGORIO MARAÑÓN BIOMEDICAL RESEARCH FOUNDATION

- **Director:** Thierry Bardinet.

- **Scientific and Quality Management:** Arantzazu Miner Vélez.
- **Scientific Management:** Irene Lomba Iriarte.
- **Project Management:** Laura Moreno Márquez, Rosa del Ser Toral, Carlos Arias López and Montserrat Roura Portillo.
- **Clinical Trial Management:** María del Carmen de la Cruz Arguedas and M<sup>a</sup> Luisa Morales Jerez.
- **Human resources:** Alberto Gómez Moreno and María González Rodríguez.
- **Accounting:** Estefanía Lavilla Guevara and M<sup>a</sup> Isabel Olmedo Andueza.
- **Invoicing:** Marta Martín-Arriscado Arroba.
- **Purchasing:** Miguel Ángel Conejo Martín.
- **Secretary:** Charo Calle Benito.
- **Document archiving:** Mariano Roda Cordero.
- **Administrative:** Blanca González Estables.



# Structure of research areas and groups

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

### AREA 2: Cardiovascular diseases

**Coordinator:** Francisco Fernández-Avilés Díaz

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

### AREA 3: Neuroscience and Mental Health

**Coordinator:** Celso Arango López

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

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

**Coordinator:** Patricia Muñoz García de Paredes

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

### AREA 5: Diseases of the Immune System

**Coordinator:** Eduardo Fernández-Cruz Pérez

Group	Group leader	Type of Group	Organization
5.01 Pathophysiology and clinical research into chronic 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 Zubeldía Ortuño	EMERGING	HGUGM
5.06 Immune regulation and homeostasis in diseases of the immune system	Rafael Correa Rocha	EMERGING	HGUGM
5.07 Infections in pediatric patients	María Luisa Navarro Gómez	CONSOLIDATED	HGUGM

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.

**AREA 6: Translational Oncology****Coordinator:** Miguel Martín Jiménez

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

**AREA 7: Systemic Diseases and Organ Transplantation****Coordinator:** Rafael Bañares Cañizares

Group	Group leader	Type of Group	Organization
7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	Marian Goicoechea Diezhandino	CONSOLIDATED	HGUGM
7.02 Pathophysiology and natural history of liver and digestive diseases	Rafael Bañares Cañizares	CONSOLIDATED	HGUGM-UCM
7.04 Diseases of the critically ill child	Jesús López-Herce Cid	CONSOLIDATED	HGUGM
7.05B Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insufficiency and respiratory disorders of sleep	Luis Puente Maestu/Ignacio Garutti Martínez	CONSOLIDATED	HGUGM
7.06 Regenerative medicine in plastic surgery	José M <sup>a</sup> Lasso/Rosa Pérez Cano	EMERGING	HGUGM
7.07 Experimental kidney transplantation	Enrique Lledó García	EMERGING	HGUGM
7.08 Pediatric endocrinology	María Dolores Rodríguez Arnao	ASOCIATED	HGUGM

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

Group	Group leader	Type of Group	Organization
7.10 Regeneration and biomaterials in musculoskeletal disease	Francisco Javier Vaquero Martín	ASOCIATED	HGUGM-UCM
7.11 Iron metabolism disorders	María Rosa Peraita Adrados	ASOCIATED	HGUGM
7.12 Emergency medicine	Javier Muñoz González	ASOCIATED	HGUGM
7.16 Regenerative medicine and system development: cardiovascular and osteochondral	M <sup>a</sup> Begoña Quintana Villamandos	EMERGING	HGUGM
7.18 Peritransplant evaluation (liver)	José María Pérez Peña	ASOCIADO	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 Pathophysiology of the neonate and developing child	Manuel Sánchez Luna	EMERGING	HGUGM
7.25 Artificial circulation laboratory	Juan Francisco del Cañizo López	EMERGING	HGUGM-UCM
7.26 Evaluation of health services and clinical epidemiology	Rosa Plá Mestre	EMERGING	HGUGM
7.27 Hospital pharmacy and pharmacogenomics	María Sanjurjo Sáez	CONSOLIDATED	HGUGM
7.28 Clinical nutrition	Cristina Velasco Gimeno	EMERGING	HGUGM
7.29 Vascular pathophysiology and pharmacology	Francisco Pérez Vizcaino	CONSOLIDATED	UCM
7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Santiago Lizarraga Bonelli & Juan Antonio deLeón	EMERGING	HGUGM
7.32 Physical medicine and rehabilitation	Pilar acespo Cobo & Marta Supervía Pola	EMERGING	HGUGM

**Nursing Research Group****Coordinator:** Ana García Pozo

Group	Group leader	Organization
Research in nursing	Ana García Pozo	HGUGM

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
<b>Miguel Servet Type I Contracts</b>		
Susana Carmona Cañavate CP16	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Marta Rapado Castro	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
María Guembe Ramírez	4. Infectious diseases and AIDS	4.01 Infectious diseases
Belén Rodríguez Sánchez	4. Infectious diseases and AIDS	4.01 Infectious diseases
Laura Pérez García	4. Infectious diseases and AIDS	4.01 Infectious diseases
Pilar Escribano Martos	4. Infectious diseases and AIDS	4.01 Infectious diseases
<b>Sara Borrell Contracts</b>		
Kenia Martínez Rodríguez	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Marta Martínez Bonet	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system
<b>Río Ortega Contracts</b>		
Antonia Delgado Moreno	2. Cardiovascular diseases	2.01 Natural history of heart disease
Javier Castrodeza Calvo	2. Cardiovascular diseases	2.01 Natural history of heart disease
Manuel Durán Cutilla	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Miriam Ayora Rodrigo	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

	Area	Group
<b>Río Ortega Contracts</b>		
María Olmedo Sanperio	4. Infectious diseases and AIDS	4.01 Infectious diseases
Ana M <sup>a</sup> Álvarez Uriá	4. Infectious diseases and AIDS	4.01 Infectious diseases
David Aguilera Alonso	5. Patología del sistema inmune	5.07 Infections in pediatric patients
Ana Clemente Sánchez	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases
Miriam García San Prudencio	7. Systemic Diseases and Organ Transplantation	7.04 Diseases of the critically ill child
<b>Juan Rodés Contracts</b>		
Laura Pina Camacho	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Alicia Galar Recalde	4. Infectious diseases and AIDS	4.01 Infectious diseases
M <sup>a</sup> Teresa Aldamiz Echevarria Lois	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Begoña Santiago García	5. Patología del sistema inmune	5.07 Infections in pediatric patients
<b>Predoctoral contracts (PFIS)</b>		
Magdalena Martínez García	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Renzo Abregu Crespo	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Mónica Burdeus Olavarrieta	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Sara Fuentelsaz Romero	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases



## INSTITUTO DE SALUD CARLOS III (cont.)

	Area	Group
<b>Predoctoral (IIS-company in Sciences and Health Technologies) contracts (i-PFIS)</b>		
Gerard Álvaro Loughlin Ramírez	2. Cardiovascular diseases	2.01 Natural history of heart disease
Felipe Díez del Hoyo	2. Cardiovascular diseases	2.01 Natural history of heart disease
<b>Research Management Contracts</b>		
Irene Lomba Iriarte		Technical Unit FIBHGM
<b>Bioinformatics Technicians Contracts</b>		
Laura Castro Labrador		Bioinformatic UnitM

## MINISTERIO DE CIENCIA E INNOVACIÓN

	Area	Group
<b>Predoctoral Contracts</b>		
Christian Chazo Paz	2. Cardiovascular diseases	2.01 Natural history of heart disease

## MINISTERIO DE EDUCACIÓN Y CIENCIA

	Area	Group
<b>FPU Contracts (University Teacher Trainig Contracts)</b>		
Alejandro José García Díaz	2. Cardiovascular diseases	2.01 Natural history of heart disease
Alicia García Alcón	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Laura Colomar Molla	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Alba Martín Moreno	5. Diseases of the Immune System	5.02 Molecular biology of HIV
Patricia Rubio Fernández	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

## MINISTERIO DE CIENCIA E INNOVACIÓN

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

## COMUNIDAD AUTÓNOMA DE MADRID

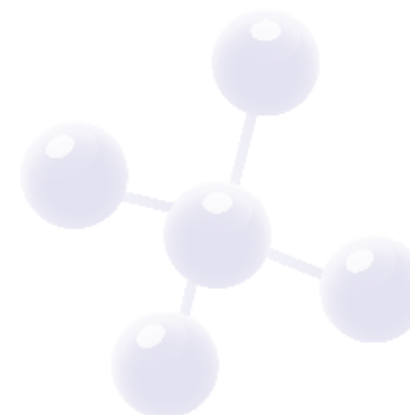
	Area	Group
<b>Young employment Program contracts</b>		
Vanessa Gomez Rangel	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Ana María Santos Coquillat	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Patricia Cantón Lobera	1. Biomedical Engineering	1.01 Advanced technological applications and human health



## COMUNIDAD AUTÓNOMA DE MADRID (cont.)

	Area	Group
<b>Young employment Program contracts</b>		
Luis Diego Romero Miguel	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Sara Gómez Aguililla	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
María del Carmen Paternina Die	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Lidia Quiroga Maroto	4. Infectious diseases and AIDS	4.01 Infectious diseases
Ana Valera Pérez	4. Infectious diseases and AIDS	4.01 Infectious diseases
José González Leiva	4. Infectious diseases and AIDS	4.01 Infectious diseases
José Egido Basaltegui	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases
Yaiza Perez Garcia	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases
Vanesa Cañadilla Martín	5. Diseases of the Immune System	5.02 Molecular biology of HIV
Marta Fernández Castillo	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system
Paula Muñoz Sevilla	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
Gonzalo Pérez Balsera	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation

	Area	Group
Cristina Andrés Zayas	6. Translational Oncology	6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation
Alejandra Balarezo Saldivar	7. Systemic Diseases and Organ Transplantation	7. Systemic diseases and organ transplantation
Elena Vázquez Ogando	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases
Carolina Franco Herrera	7. Systemic Diseases and Organ Transplantation	7.02 Pathophysiology and natural history of liver and digestive diseases
Judith Abarca Zabadia	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics
Virginia Albaladejo García		Animal Facility
Alicia Sánchez Martín		Animal Facility
Lara Sanz Criado		Cardiology Traslational Research Laboratory
Alba Gutierrez Seijó		Confocal Microscopy Unit



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

	Área	Group
<b>Predoctoral contracts</b>		
Nicolás Lamanna Rama	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Patricia Pombo Conejero	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Jorge Gallego Valle	5. Diseases of the Immune System	5.06 Immune regulation and homeostasis in diseases of the immune system
Sara Salvador Martín	7. Systemic diseases and organ transplantation	7.27 Hospital pharmacy and pharmacogenomics
Maria Consuelo Latorre Sanz	7. Systemic diseases and organ transplantation	7.31 Pathophysiology in women, pregnancy, labor, and puerperium
<b>Predoctoral in healthcare innovation Contract</b>		
Alicia Díez de la Lastra Pose	1. Biomedical Engineering	1.01 Advanced technological applications and human health
<b>Post-specialized Health Training Contracts</b>		
Hugo González Zaldivar	2. Cardiovascular diseases	2.01 Natural history of heart disease
M <sup>a</sup> Amalia Tamargo Delpón	2. Cardiovascular diseases	2.01 Natural history of heart disease
Ana Cambra Conejero	2. Cardiovascular diseases	2.05 Cardiology and heart transplantation in infants
María López Blazquez	2. Cardiovascular diseases	2.05 Cardiology and heart transplantation in infants
Francisco Galeano Valle	2. Cardiovascular diseases	2.06 Blood lipids and cardiovascular risk
Álvaro Andreu Bernabeu	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

	Área	Group
Ana Álvarez Uria Miyares	4. Infectious diseases and AIDS	4.01 Infectious diseases
Laura Ortega Morán	6. Translational Oncology	6.02 Translational medical oncology and personalized cancer therapy
Luis Alberto Sánchez Cámara	7. Systemic diseases and organ transplantation	7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney
Gema Pérez Yagüe	7. Systemic diseases and organ transplantation	7.04 Diseases of the critically ill child
<b>Post-doctoral Contracts</b>		
Javier González Peñas	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Clara Alloza Romero	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
<b>Intensification of research activity contracts (I+D+I and Nursing care)</b>		
Francisco J. Fernández-Avilés Díaz	2. Cardiovascular diseases	2.01 Natural history of heart disease
Manuel Martínez Selles	2. Cardiovascular diseases	2.01 Natural history of heart disease
M <sup>a</sup> José Parellada Redondo	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Patricia Muñoz García	4. Infectious diseases and AIDS	4.01 Infectious diseases
Elena Reigadas Ramírez	4. Infectious diseases and AIDS	4.01 Infectious diseases
Juan Berenguer Berenguer	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Magdalena Salcedo Plaza	7. Systemic diseases and organ transplantation	7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney

## FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL IISGM (INSTITUTO DE INVESTIGACIÓN SANITARIA GREGORIO MARAÑÓN) Intramural Program to Promote Research (cont.)

	Área	Group
<b>Intensification of research activity contracts (I+D+I and Nursing care)</b>		
Isabel Gutiérrez Cuellar		Nursing Group
Julita Fernández Arranz		Nursing Group
Cristina Béliz Mendiola		Nursing Group
<b>Researches Stabilization Contracts</b>		
María Luisa Soto Montenegro	1. Biomedical Engineering	1.01 Advanced technological applications and human health
Joost Jansen	3. Neuroscience and Mental Health	3.01 Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment
Jesús Vicente Guinea Ortega	4. Infectious diseases and AIDS	4.01 Infectious diseases
M <sup>a</sup> Jesús Serramia Lobera	4. Infectious diseases and AIDS	4.02 Clinical and epidemiological aspects of HIV infection and associated conditions
Amaya Rocío Puig Kröger	5. Diseases of the Immune System	5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases
José Luis Jiménez Fuentes	5. Diseases of the Immune System	5.02 Molecular biology of HIV

Rafael Correa Rocha	5. Diseases of the Immune System	5.06 immune regulation and homeostasis in diseases of the immune system
Marjorie Pion	5. Diseases of the Immune System	5.06 immune regulation and homeostasis in diseases of the immune system
Javier Vaquero Martín	7. Systemic Diseases and Organ Transplantation	7.10 Regeneration and biomaterials in musculoskeletal disease
Luis Andrés López Fernández	7. Systemic Diseases and Organ Transplantation	7.27 Hospital pharmacy and pharmacogenomics
Miguel Relloso Cereceda	7. Systemic Diseases and Organ Transplantation	7.30 Pathophysiology in women, pregnancy, labor, and puerperium
<b>Research Support Technician and Technical Staff</b>		
	Área	Group
Susana Suárez Sancho	2. Cardiovascular diseases	2.01 Natural history of heart disease
Virginia Plasencia Martín	2. Cardiovascular diseases	2.01 Natural history of heart disease
José María Bellón Cano		Methodology and Biostatistics Unit
Rafael Samaniego García		Confocal Microscopy Unit
María Eugenia Fernández Santos		Cardiology translational research Laboratory
Laura Díaz Muñoz		Flow Cytometry and Cell Sorter Unit
María Isabel Clemente		Cell Culture Unit
Ainhoa Simón Zárata		Genomics Unit



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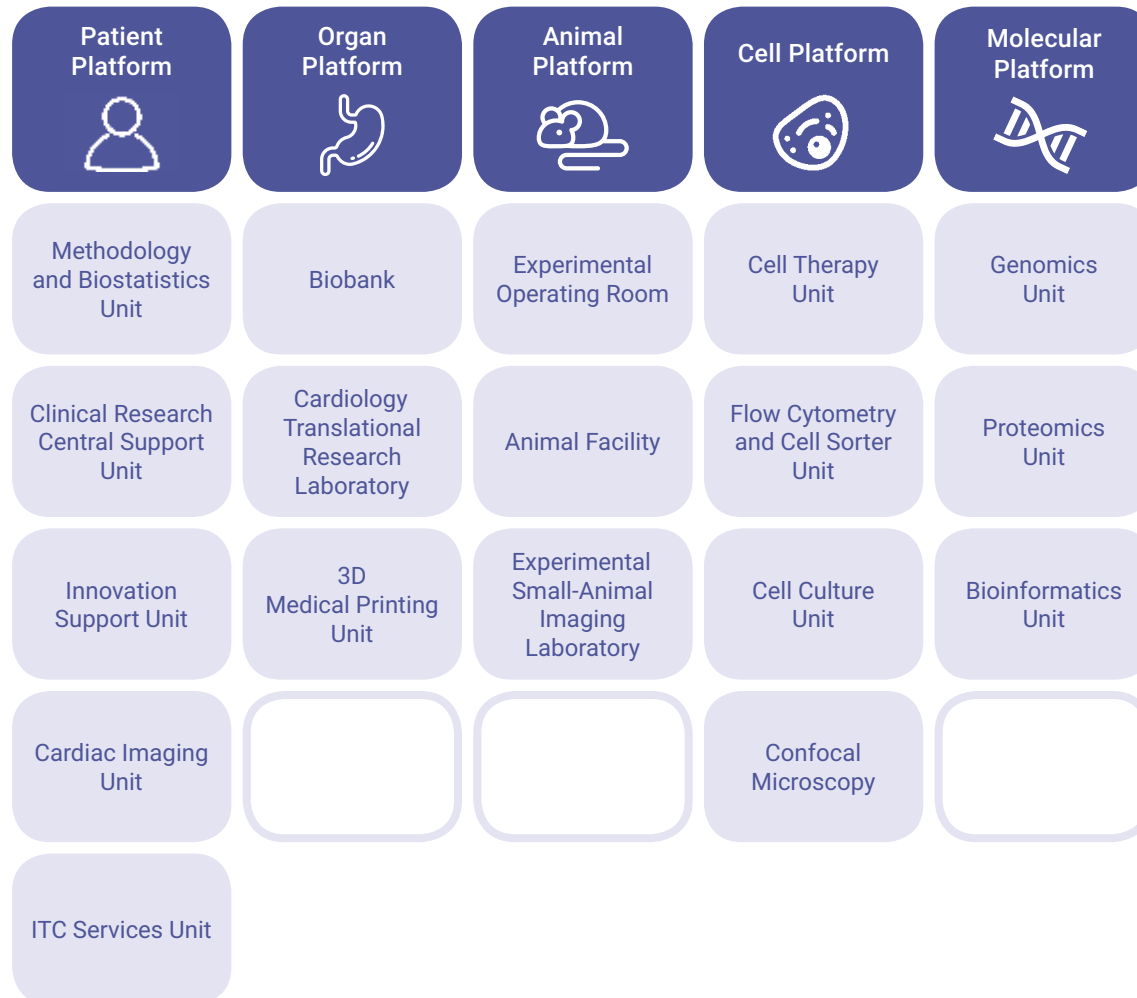


# Research Support Services (RSSs)

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

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

#### Facility

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

#### Technology

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

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

#### Staff

José María Bellón Cano, Head of Unit.

A resident from the Preventive Medicine Department in rotation.

#### Unit documentation

Procedures manual of the *Methodology and Biostatistics Unit*.

#### Contact

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Head of Unit

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Edificio prefabricado (planta 0)

Hospital General Universitario Gregorio Marañón

C/ Dr. Esquerdo 46, 28007





## PLATFORM FOR CLINICAL RESEARCH AND CLINICAL TRIAL UNITS

### Mission

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

### Description

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

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

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

### Services provided

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

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

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

### Facilities

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

### Technology

The unit has two computer systems and access to a shared printer and shared photocopier and scanner of the FIBHGM.

Fireproof cupboard.  
Documentation filing.

### Unit documentation

ISO 9001: 2015.

PR-IPE-02: Procedure for the identification, document processing, and approval of commercial and non-commercial clinical trials.

IT-IPE-01: Technical instruction (TI) criteria for the evaluation of a noncommercial clinical trial by the FIBHGM as sponsor.

IT-IPE-02: Authorizations by competent authorities.

IT-IPE-03: Medication management.

IT-IPE-04: CRO budget.

IT-IPE-05: Selection of CRO.

IT-IPE-06: Management of contracts.

PR-SPE-03: Procedure for follow-up clinical trials.

PR-AMI-01: Procedure for identification of needs in methodological support and preparation of working program (clinical trials).

PR-AMI-02: Procedure for evaluation of working program for methodological support (clinical trials).

### Contact

**María del C. de la Cruz Arguedas**

Head of Unit

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Pabellón de Gobierno (planta baja)

Hospital General Universitario Gregorio Marañón

Calle Dr. Esquerdo, 46 - 28007 Madrid





### INNOVATION SUPPORT UNIT

#### Mission

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

#### Description

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

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

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

#### Services provided

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

- Idea evaluation.
- Support in the valorization of ideas and research results.
- Prototyping (functional analysis and technical evaluation, design, manufacture of prototypes).
- Support in the drafting and planning of innovation projects.
- Search for funding.

- Support in the search for technological or commercial partners.
- Advice on contracts (drafting of collaboration agreements, licencing contracts, etc.).
- Advice on aspects referring to the strategy for protection of industrial and intellectual property.
- Advice on the administrative steps for technology transfer, licenses, and company formation.
- Outreach activities.
- Training on the management of innovation, creativity, and entrepreneurship.

#### Location

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

#### Resources

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

#### Staff

Team comprising 2 postgraduates specialized in management of innovation.

Engineering support team for development of prototypes.

#### Contact

##### Beatriz Pérez

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

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Hospital General Universitario Gregorio Marañón  
Calle Doctor Esquerdo 46 - 28007 Madrid





## CARDIAC IMAGING UNIT

### Rationale

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

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

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

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

### Facilities

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

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

The Cardiac Imaging Analysis Unit of the Cardiology Service is situated on the ground floor of the IPMQ building in Hospital Gregorio 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.

## Contacts

### **Dr. Francisco Fernández-Avilés**

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Cardiology Department

Hospital General Universitario Gregorio Marañón

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\* 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.





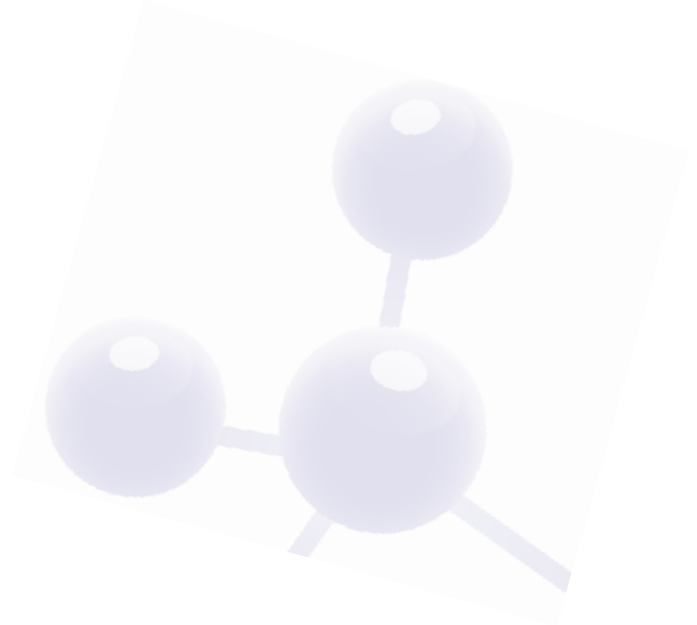
PATIENT PLATFORM  
CARDIAC IMAGING UNIT

**Dr. Javier Bermejo Thomas**

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**Ana Fernández Baza**

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EXECUTIVE SUMMARY





### 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.

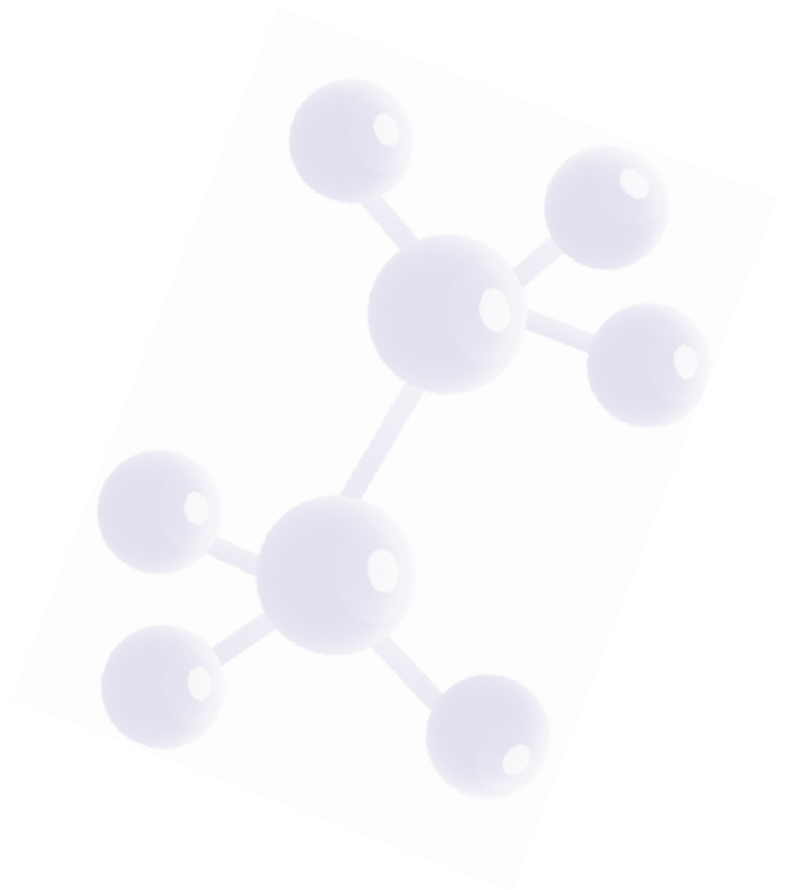
#### Team

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 Pediatrics, Neonatology, Anesthesia, Nephrology, and Pediatric Intensive Care.
- HGM HIV Biobank staff in charge of management, reception, processing, cryopreservation, and lending of samples.
- Other collaborating bodies include external ethics committee and scientific committee, which participate in decision making and evaluate the projects for which biological material is requested from HGM HIV Biobank.
- Lastly, researchers who are loaned samples for projects of excellence after previous approval by the appropriate committees.

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

### Services offered

HGM HIV Biobank offers the following services:

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





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

### Technology

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

- 3 laminar flow cabinets.
- 3 microscopes.
- 2 centrifuges with swinging bucket rotors.
- 2 microcentrifuges.
- 1 incubator.
- 1 thermostatic bath.
- 1 thermocycler.
- 1 thermomixer.
- 5 pipette controllers.
- 28 micropipettes.

- 1 refrigerator (4°).
- 1 freezer (-20 °C).
- 11 freezers (-80 °C).
- 6 nitrogen tanks.
- Telephonic alarms
- Computer material.
- Air conditioning equipment.

### Facility

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

It covers 93 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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HGM HIV Biobank

Hospital GU Gregorio Marañón.

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

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## CARDIOLOGY TRANSLATIONAL RESEARCH LABORATORY

### Mission

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

### Description

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

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

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

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

The RSS is managed by the IISGM's ISO 9001: 2015 quality system: which makes it possible to develop all projects in a reproducible manner and with proven traceability, in order to accelerate clinical translation. The objective is to obtain decellularized matrices and organs from animal and human organs 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 matrices.
- Tissue and cell electrophysiology program.
- Recellularization of decellularized matrices by co-culture.
- Recellularization program using bioreactors.
- Human cell culture:
  - Vascular fat fraction or «fresh cells» from liposuction.
  - Bone marrow mononuclear cells.
  - Bone marrow mesenchymal cells.
  - Fatty tissue mesenchymal cells.
  - Obtaining iPS cells.
  - Differentiation of iPS cells into cardiomyocytes.
- Culture of cells from animal tissue, eg, mesenchymal cells, iPS cells, cardiomyocytes, and resident cardiac cells.
- Maintenance of different cell lines.
- Studies on variants and gene expression.
- Academic and training platform.

### Technology

#### *Histology Program*

- Cryostat: Thermo 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: Nuair, Nu-4850-E, and with control of CO<sub>2</sub> and O<sub>2</sub> Nuair, Nu-4950-E.
- Laminar flow biosafety cabinets: Nuair, Nu-437-400-E.
- Safety cabinet: Safefast Elite.
- Ovens: 37 °C (TherMark) and 22°C (Mettler).
- 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: Masterflex 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.

### *Facility*

The laboratory is located on floor -1 of the Maternity Hospital. It 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.

### *Contact*

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## 3D MEDICAL PRINTING UNIT

### Justification

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

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

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

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

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

### Description

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

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

### Services Offered

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

### Resources

#### Material Resources

- 3D printing laboratory room with aeration and soundproofing system
- Multi-station of work composed of computer equipment of last generation with high capacity of file and data processing.
- Post-processing tools.
- 3D Printers FDM technology.
- 3D Surface Scanner.
- Polymers and thermoplastic materials.

#### Human Resources

- Multidisciplinary team of medical specialists and biomedical engineers.
- Support team by means of pre and post grade students.

### Location

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





### Contact

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## EXPERIMENTAL OPERATING ROOM

### Mission

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

### Description

The experimental operating room is a Research Support Service (RSS) with the appropriate fittings, material, and instruments for the most common surgical procedures.

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

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

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

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

### Services provided

The basic unit for providing services in the Surgical Area is the so-called Surgical Session, which implies the use of 1 operating table or microsurgery station for at least 1 morning or 1 afternoon.

- Morning: 8:30 h to 14:00 h (5.5 h).
- Afternoon/evening: 15:30 h to 21:00 h (5.5 h).

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

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

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

### Research

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

### Teaching/Training

- Practical sessions for undergraduate students from Universidad Complutense.
- Practical sessions for undergraduate students from Universidad Carlos III.
- Practical sessions enabling hospital staff to perfect surgical techniques.
- Practical sessions enabling staff from other centers to perfect surgical techniques.
- Training courses organized by HGUGM services.
- Training courses organized by other bodies.

### Dissemination

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

### Technology

#### Standard Operating Room

Equipped with the following:

- Multipurpose tables
- Monitoring equipment
- Conventional surgical instruments
- Electric scalpel
- X-ray equipment
- Extracorporeal circulation equipment
- Basic laparoscopic surgery equipment





### *Procedure Rooms*

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

### Facilities

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

### Contact

**Fernando Asensio**

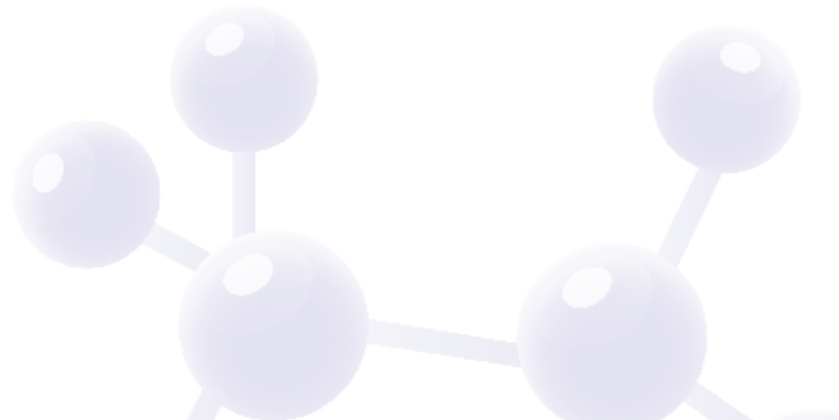
Head of the Surgical Area

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Experimental Medicine and Surgery Unit

Hospital General Universitario Gregorio Marañón







## 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.
  - **Paula Barnese**, Graduate in Veterinary Medicine.
  - **Silvia Rivero**, Graduate in Veterinary Medicine
- Technicians:
  - **Francisco Sánchez Cobos**, Animal Experimentation Technician.
  - **Alicia Sánchez Martín**, Animal Experimentation Technician.
  - **Lidia Albadalejo Navarro**, Animal Experimentation Technician.

### Contact

#### **Fernando Asensio Rubio**

Head of the Animal Facility  
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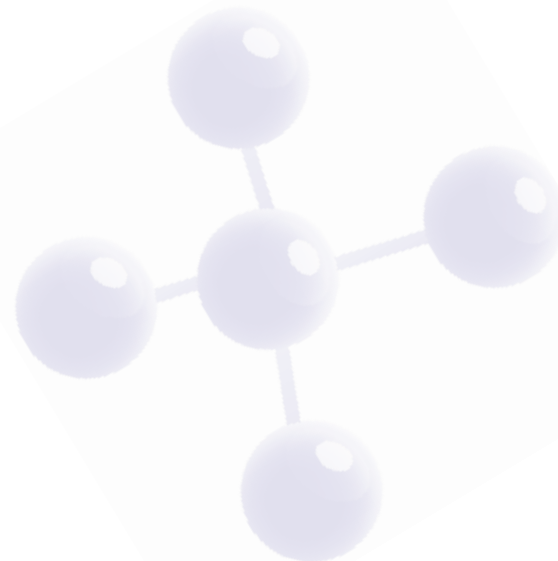
#### **Pedro Llontop**

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#### **Francisco Sánchez Cobos.**

Animal Experimentation Technician  
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## EXPERIMENTAL SMALL-ANIMAL IMAGING LABORATORY

### Mission

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

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

### Description

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

### Services provided

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

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

- Other services provided by the laboratory include consultancy on the optimal techniques for specific problems and postprocessing of data (including quantification, coregistration of modalities, statistical parametric mapping [SPM], etc.). Rates can be obtained from [www.iisgm.com](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 rooms, radiopharmacy, PET, SPECT, hot laboratory for cell culture, optical imaging room). Another 500 m<sup>2</sup> area is also available on the campus of Universidad Carlos III de Madrid, which is oriented more toward technological development.

### Technology

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

### Contact

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Head of preclinic Platform

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Telf.: 91 426 50 17





## CELL THERAPY UNIT

### Mission

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

### Description

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

- Cell Therapy Laboratory: Laboratory whose environment is controlled based on the norms of Good Clinical Practice and Good Laboratory Practice for clinical cell production that does not require cell expansion or, therefore, production based on Good Manufacturing Practice. Also produces cells for preclinical trials in vitro. For example, trials have been developed in fields such as cardiology, gynecology, maxillofacial surgery, orthopedic surgery, dermatology, and general surgery.
- Cell Production Unit: Infrastructure that provides support to clinical research in regenerative medicine and cell therapy. The Unit has been certified by the Spanish Agency for Medications and Medical Devices (AEMPS) since February 2009, re-accredited for the fourth time in July 2018 (ES/133/15) for the production of 7 cell types: bone marrow mononuclear cells, bone marrow mesenchymal cells, vascular Stromal Fraction of fat (VSF), mesenchymal cells from fat tissue, periodontal ligament cells, NK cells and Treg cells. The cells have been applied in more than 20 clinical trials in our hospital and in other hospitals both in and outside the Community of Madrid.

### Services provided

- Preclinical studies in cell therapy and regenerative medicine.
- Production of various cell types used in clinical trials under an infrastructure certified according to Good Manufacturing Practice and investigational products approved by the AEMPS for the pro-

duction of various types of cell, with the following authorizations for investigational products (IP) approved by the AEMPS:

- Mononuclear bone marrow cells (IP Nos. 05-042 and 13-037).
- Stromal vascular fraction (fresh fat cells) (IP No. 11-027).
- Autologous bone marrow mesenchymal cells (IP No. 09-065).
- Allogenic bone marrow mesenchymal cells (IP No.12-088).
- Fatty tissue mesenchymal cells (IP No. 09-019 and 11-164).
- Periodontal ligament cells (IP No. 13-143).
- Stimulated and nonexpanded NK cells (IP: 17-025).
- Treg lymphocytic cells, differentiated, autologous, thymic tissue, expanded and stimulated with IL-2 (thyTreg) (PEI No. 19-083)
- Preparation of Investigational Medicinal Product Dossiers and standardized operating procedures. Validation of and reporting on cell products for which no IP number is available for approval by the AEMPS.
- Histology, immunohistochemistry, and immunofluorescence of organs and tissues.
- All work is carried out within the framework of Good Laboratory Practice, Good Clinical Practice, and Good Manufacturing Practice, ie, a rigid quality assurance system ensures robust results that can be easily transferred to clinical practice.

### Technology

- Cell Therapy Laboratory:
  - BIO II-A de TELSTAR laminar 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.
- Cell Production Unit (GMP):
  - TELSTAR BIO II-A and II-A-P laminar flow cabinet equipped with continuous particle counters.





- Thermo 371 and STERI-CULT CO<sub>2</sub> 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).

#### Facility

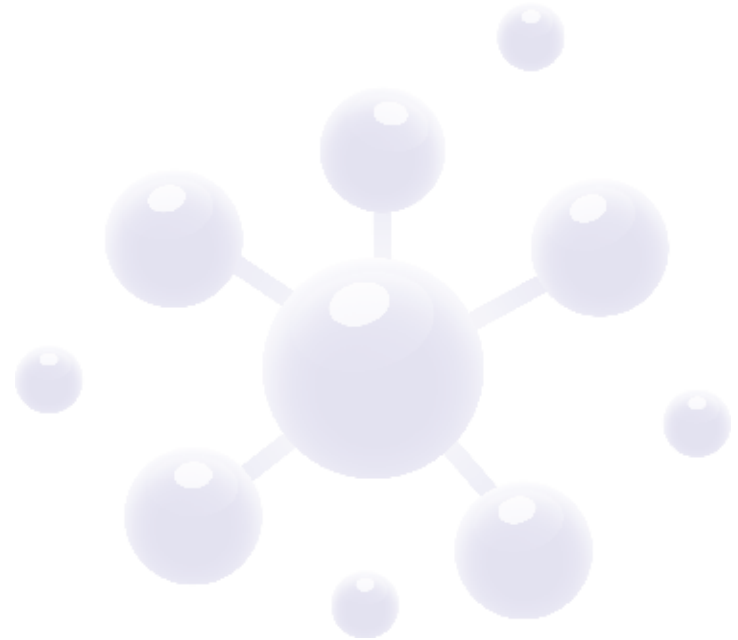
The facilities of the Cell Therapy Unit meet the criteria for Good Manufacturing Practice in medication. It is located on Floor -1 of the Clinical Building.

#### Documentation

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

#### Contact

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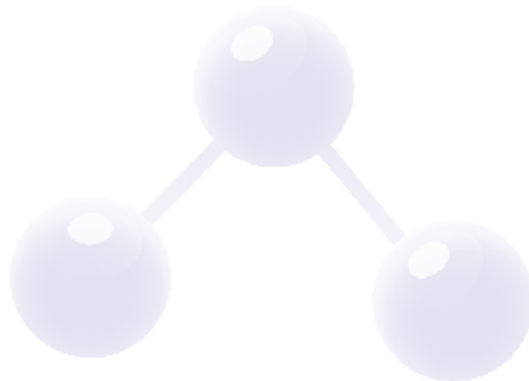
## FLOW CYTOMETRY AND CELL SORTER UNIT

### Misión

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

### Descripción

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



With this technique, multiple applications can be realized at the same time in a reduced sample volume. It is important to emphasize that this technique performs measurements particle by particle, beyond the descriptive population measures. The identification of cellular markers is of application in the investigation, diagnosis, follow-up and treatment of very diverse pathologies, reason why the Flow Cytometry and Cell Separation is a technology implied in the translational investigation.

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

### Services provided

#### *Flow cytometry analyser*

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

#### *Cell separator by flow cytometry*

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





#### Support to the researcher

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

#### Technology

- **Flow citometer 10 colors, 12 parameters. Gallios Model (Beckman Coulter):**
  - Detection of 10 colors, 12 parameters. Three lasers (blue-488nm, red-638 nm and violet-405 nm), controlled from the computer, with ignition system and quick stabilization.
  - State-of-the-art photomultiplier tubes, with high sensitivity for the red range and excellent linearity throughout the range.
  - Possibility of analysis of rare events due to the high speed of acquisition as well as the possibility of volume of acquired sample.
- **14 colour flow citometer, 16 parameters. Model MAQsquant 16 (Miltenyi Biotec):**
  - Detection of 14 colors, 16 parameters. Three lasers: blue-488 nm (6 detectors), red-640 nm (3 detectors) and violet-405 nm (5 detectors).
  - Possibility of selecting the FSC with the violet laser to increase the resolution against small particles.
  - Sample acquisition in several containers: tubes, eppendorf and 96-well plates (possibility of refrigeration).
  - Acquisition of small volumes.

- **Flow citometer separator model MoFlo Astrios, (Beckman-Coulter):**
  - Integration in type II biological safety cabin.
  - Aerosol evacuation and sample agitation system.
  - Controlled temperature of the sample (cooling or heating).
  - Possibility of up to 6 solid state lasers (640 nm, 592 nm, 561 nm, 532 nm, 488 nm, 405 nm) and 7 pinholes. It currently has 2 lasers (488 nm and 640 nm).
  - 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.

#### Contact

**Laura Díaz Muñoz** Head Technician

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E-mail:lauraDiaz@gmail.com

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





## CELL CULTURE UNIT

### Mission

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

The development of *in vitro* cell cultures is an essential tool for the study of the molecular and cellular mechanisms that occur in any biological process. Cell cultures consist of the growth and maintenance *in vitro* of cells from normal or tumour organs or tissues. For this, it is essential to preserve the metabolic functions that cells have *in vivo* through the use of culture media of defined chemical composition and controlled conditions of temperature, pH, CO<sub>2</sub> concentration and humidity.

### Description

The Cell Culture Unit is an essential base for the implementation and development of research projects that use cell cultures as an experimental tool in the field of Biomedical Research. It integrates infrastructures, laboratories, equipment and highly qualified personnel, with the aim of providing advice and scientific-technical support to the users of the Unit. It is made up of the Cell Culture Laboratory (Biosafety Level 2), the Microbiology Laboratory (Biosafety Level 2), the Radioactive Culture Laboratory (Biosafety Level 2) and the cryogenic facility.

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

### Services provided

- Management of the use of the facilities available to the Unit.
- Periodic control of the installations and preventive maintenance of your equipment.

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

### Technology

#### Cell Culture Laboratory

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

#### Microbiology Laboratory

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







CELL PLATFORM  
CELL CULTURE UNIT

#### *Radioactive Culture Laboratory*

- 1 Class II biological safety cabinet; Model: EuroAlre TDI CSB95 cabinet.
- 1 Incubator of water jacket with temperature control, CO<sub>2</sub>; and in environment of saturation of humidity; Model: Function Line Brand: Heraeus Instruments.
- 1 Analog Thermostatic Bath Brand: Labbox.
- 1 Inverted microscope; Make: Leica.

#### *Cryogenic plant*

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

#### Facility

The Cell Culture Unit is located on the first floor of the Experimental Medicine and Surgery Pavilion of the IISGM. It has 60 m<sup>2</sup> distributed in three rooms and equipped with its own specifications of electrical network and biological safety to meet the quality requirements of the services offered.

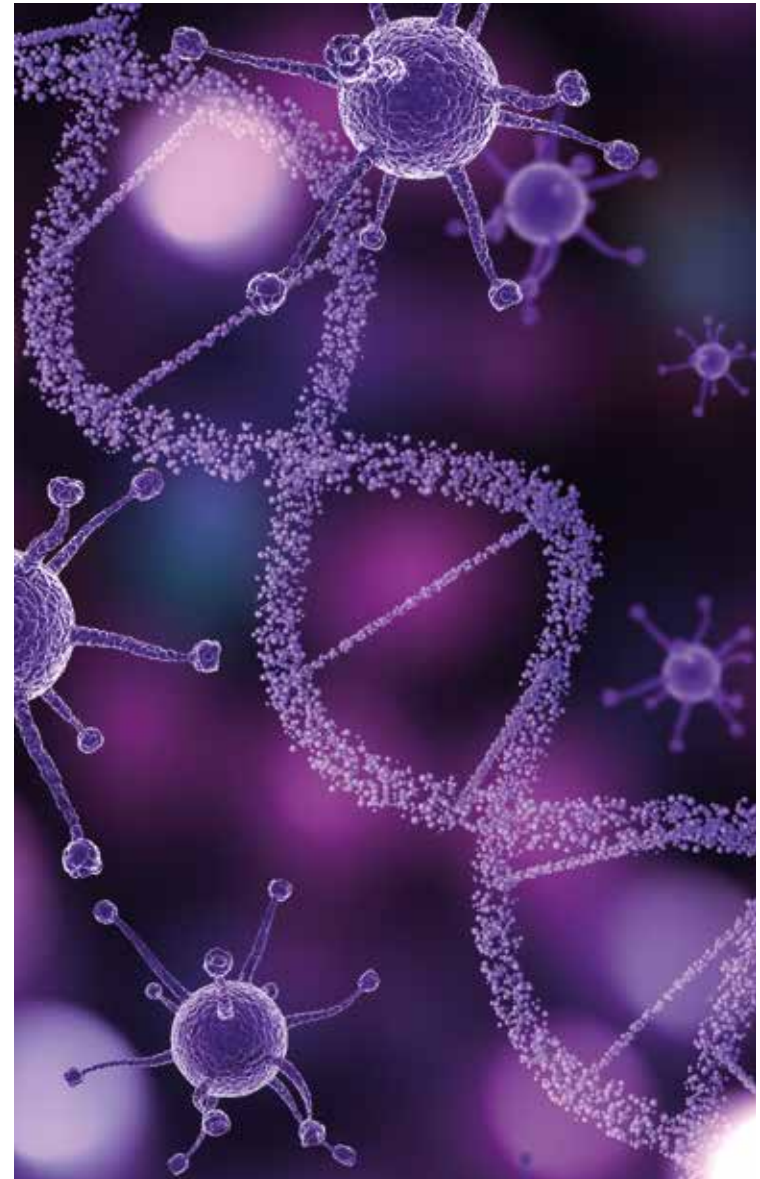
#### Contact

##### **Maribel Clemente Mayoral**

Head of Unit

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Tel.: (+34) 91 426 92 06





## CONFOCAL MICROSCOPY

### Mission

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

### Description

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

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

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

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

### Services provided

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

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

### Technology

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

- High-sensitivity multiband with AOBS.

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

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

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

*Inverted motorized microscope (DM IRE2 Fluo TCS).*

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

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

Three fluorescence filter blocks: DAPI, FITC, and Rhodamine.

*Computer equipment:*

- Two HP computers running Windows XP (acquisition and processing).
- Software: LCS version 15.37 and «Microlab» software license for FRAP.

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

*Spectral confocal model:*

- AOTF.
- Internal fluorescence detector (PMT) and detector for clear fields.
- Digitalization of images: 2048 x 2048 pixels, 8 and 12 bits per channel.





- Sweep rate of 400, 600, and 800 Hz (bidirectional optional); K-scanner.

**Laser module:** 4 solid-state lasers: 405, 488, 561, and 635 nm.  
**Inverted motorized microscope (DMi8).**

APO chromatic lenses:

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

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

Galvanometric stage.

Four fluorescence 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).

### 3. DIGITAL CAMERA

sCMOS Orca Flash 4.0 LT coupled to the DMi8 microscope.

#### Facility

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

#### Contact

##### **Rafael Samaniego**

Head of Unit

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##### **Paloma Sánchez Mateos**

Scientific Co-Manager

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Pabellón de Medicina y Cirugía Experimental (first floor)

Hospital General Universitario Gregorio Marañón

Calle Doctor Esquerdo, 46 - Madrid 28007





## GENOMICS UNIT

### Mission

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

### Description

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

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

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

### Services provided

- **Sample quantification:**
  - Fluorescence-based quantification of nucleic acid samples.
- **Analysis of DNA by capillary electrophoresis:**
  1. Sanger sequencing of DNA from purified PCR products and DNA cloned in vectors using capillary electrophoresis and BigDye Terminator v3.1 chemistry. Resolution of up to 600 bp. All samples are purified in order to avoid background noise and the remaining terminators. The primers used for the sequencing reaction are specific to the region to be studied.
  2. Analysis of the size and quantity of fluorescence-labeled DNA fragments using an in-house or commercial kit and analysis

of fragments of a singlenucleotide polymorphism (SNP) using capillary electrophoresis. Software: GeneMapper. Filters: D, F, E5, G5. Size: Up to 500, 600, and 1200 bp.

3. Multiplex ligation probe amplification (MLPA). Ligation-binding reaction using probes with the homologous area of interest and subsequent amplification by PCR to study copy number variations (CNVs). Fragment analysis by capillary electrophoresis.

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

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

- **Researcher support:**

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

### Facilities

The Genomics Unit is situated on the first floor of the HGUGM Maternity Hospital. It occupies 85 m<sup>2</sup> and has a high-capacity filing and data processing computer system.

### Technology

For sequencing studies, the Unit has 4 high-end systems for clinical practice and research studies, which were acquired by IISGM. Two massive sequencer (MiSeq, NextSeq (Illumina)) and two genetic analyzer (ABI 3130xl –16 capillary tubes– and ABI3730xl –96 capillary– Applied Biosystem). The Genomics Unit also has 3 conventional thermocyclers with





MOLECULAR PLATFORM  
GENOMICS UNIT

a 96-well block (GeneAmp 9700 PCR System, Touchgene gradient, and Touch ThermoCycler C1000), a Qubit fluorimeter (Invitrogen, Thermo Fisher Scientific), refrigerated plate centrifuge, refrigerated Eppendorf centrifuge, Eppendorf Thermal shaker (Thermomixer C), speed-vac concentrator Savant DNA 120 (Thermo Fisher Scientific), fragment size analyser LabChip (Perkim-Elmer), vortex, mini-spin and ice machine

#### Staff

**Ismael Buño Borde**, Scientific Head.  
**Julia Suárez González**, Technical Head.  
**M<sup>a</sup> José Delmas González**, Laboratory technician.  
**Ainhoa Simón Zárate**, Laboratory technician.  
**María Lozano**, Laboratory technician.

#### Contact

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 Tf. 915290151





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

### Description

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

### Services provided

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

of cross-contamination, assembly and alignment are undertaken using raw data from sequencing platforms.

- b. Microarray analysis. These are performed using both commercial and custom platforms, followed by a simple analysis of differences in expression between sample groups.
  - c. Functional analysis of biomarkers. The potential biological function of a set of differentially expressed biomarkers is established using approaches based on Gene Ontology and pathway enrichment analysis.
  - d. Quantification of mRNA-Seq transcripts. Various algorithms can be used according to the objective of the study. Depending on the end use of the analysis, data are normalized using the most appropriate procedure, and differences in expression between groups of samples are analyzed.
  - e. Studies on alternative splicing and isoforms using mRNA-Seq data.
  - f. Studies of expression using the platform nCounter from NanoString.
3. Programming and Statistical Support
    - a. Statistical analysis. Based mainly on R/Bioconductor, analysis includes the development of scripts in R, descriptive statistics, association analysis, clustering and principal components analysis (PCA), and the calculation of sample sizes and statistical power.
    - b. Evaluation of batch effects. Evaluation of batch effects in experimental data using clustering, PCA, multidimensional scaling (MDS), and special programs.
    - c. Assistance for preparation of manuscripts (methods and results) and application to calls for competitive funding (experimental design/study bioinformatics, material and methods, preliminary results, and pilot studies).

### Facilities and technology

The core area of the Bioinformatics Unit is located on the ground floor of the Experimental Medicine and Surgery Department of IISGM.







Studies with large computational requirements—such as next-generation sequencing or advanced statistical modeling—can be performed using HP Proliant DL380 G9 servers, an HP Z820 workstation, and 2 NAS servers, as well as desktop devices and the necessary network infrastructure. These were purchased by the IISGM and the Medical Oncology Service.

These devices are housed at two locations: the desktop devices, workstation, and one of the NAS servers are in the Experimental Medicine and Surgery building; the computing servers and the other NAS server is in the Data Processing Center of Hospital General Universitario Gregorio Marañón (HGUGM).

The Bioinformatics Unit works together with the Translational Oncology Laboratory of the Medical Oncology Service, actively cooperates with the ISS of the Genomics Unit, often carries out processing of data from the NanoString and Illumina MiSeq quantification platforms.

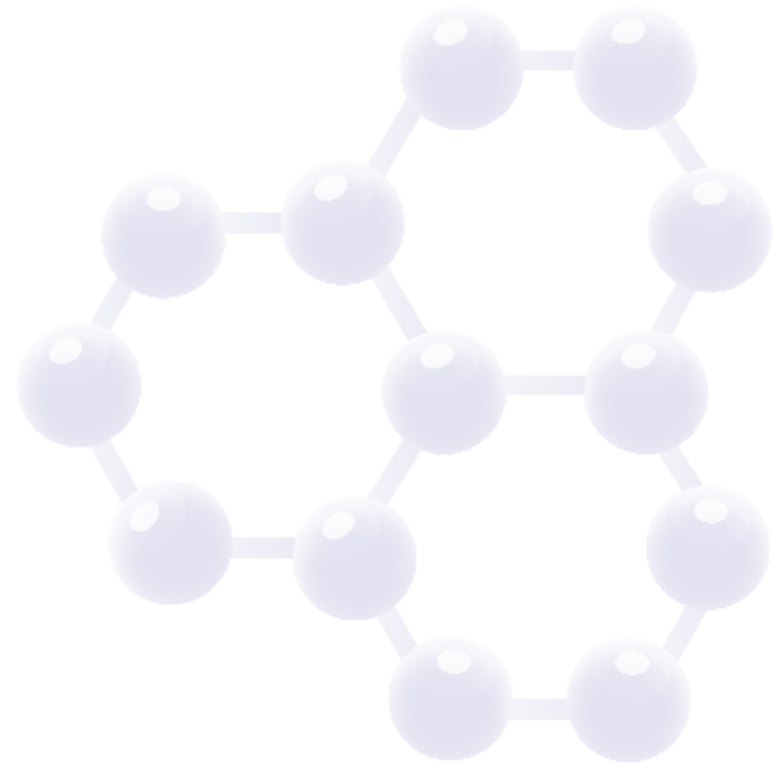
#### Staff

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

#### Contact

##### **Antonio Clemente Picornell Company**

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 E-mail (research contact): [antonio.picornell@iisgm.com](mailto:antonio.picornell@iisgm.com)  
 Tel.: (+34) 915 290 724



# Innovation, knowledge transfer, and translation to practice

## INNOVATION SUPPORT UNIT

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

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

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

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

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

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

In 2019, its structure was as follows:

- Head of unit: Manuel Desco Menéndez.
- Project manager: Beatriz Pérez.
- Innovation manager: Hugo De Navascués.
- Innovation manager: Eva Caravilla.

- Research manager: Trajana Garrido.
- Quality control technician: Elena Rodríguez.

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

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

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

*Steering Committee:*

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

*Members:*

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

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

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

### 1. Intellectual and industrial property

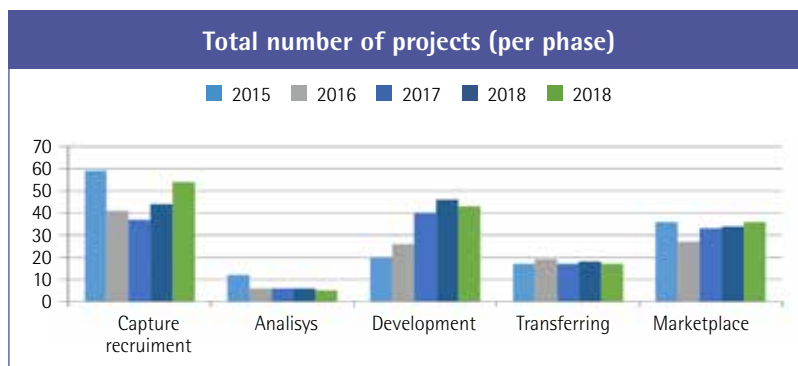
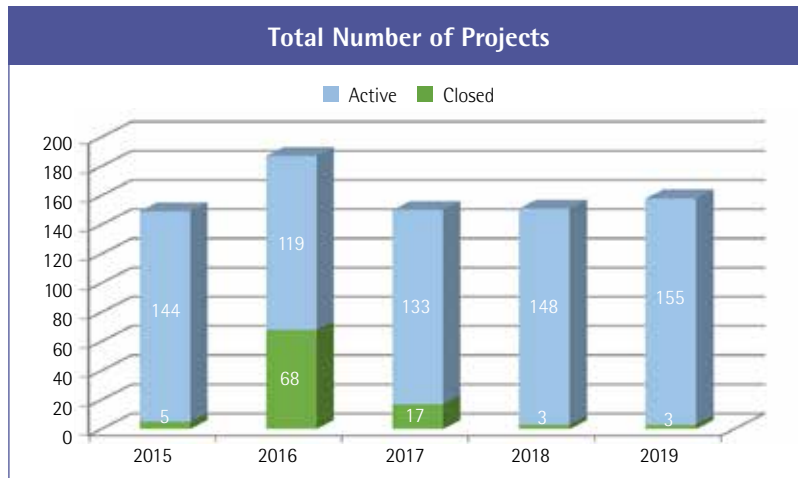
- a) Patents applied for: 2 international patents, and 1 intellectual property registrations.



- b) Patents awarded: 1 national patent and 1 intellectual property registrations.
- c) Transfer of patents: 1 family of patents.

**2. Innovation projects portfolio:**

- a) During 2019, 22 new innovation projects were started in the unit. The year closed with 155 active projects. The following figures show the distribution of projects classified by area and development phase over the last 5 years
- b) With respect to calls for innovation projects, liSGM has obtained more than 663,604 €.



**3. Contracts:**

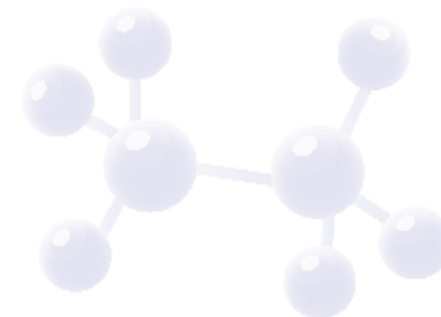
A total of 11 new contracts have been closed, both with companies and national and international organizations, 3 of them contracts were collaborative and another 1 was technology licensing.

Other initiatives and achievements of the Unit during 2019 include the following:

- One project selected to participate in HealthStart: Madri+d Foundation for Knowledge Program to promote the creation of technology start-ups in the health sector
- 83 meetings have been held with companies, collaborators and internal researchers.
- 155 innovation projects managed.
- Participation of the unit in 16 informative sessions on innovation in national events and 6 sessions given by the UAI.
- The Unit is actively working with 81 national and international technological partners.

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

- Present an innovative idea or project by contacting <http://www.iisgm.com/innovacion/unidad-de-apoyo-a-la-innovacion/comunica-tu-idea-2/>
- Material for consultation such as the Innovation Guide <http://www.iisgm.com/innovacion/unidad-de-apoyo-a-la-innovacion/normativa-de-invinciones-del-iisgm/>



## INNOVATION PORTFOLIO

Below, we show the project portfolio, or «innovation funnel», generated by liSGM and active as at December 2019.

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

\* ICT: information and communications technology.

The intellectual and industrial property of the liSGM included in the technology portfolio is detailed below.

This information is constantly updated and can be consulted at: <http://www.iisgm.com/innovacion/propiedad-intelectual-e-industrial/propiedad-intelectual-e-industrial/>

## Industrial property registrations

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

Continued on next page



Area	Group	Title	Reference*	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	Ciclotrón clásico superconductor compacto	P 2013 30626 (2 patents family)	UC3M - CIEMAT	Luis García-Tabarés, Concepción Oliver, Fernando Toral, Daniel Gavela, Diego Obradors, Cristina Vázquez, Iván Podadera, Javier Munilla, Jesús Calero, Jose M. Pérez, Friederich Haug
1	Group 1.01 Advanced technological applications and human health	Equipo y método de generación de tomografías	P 2017 30341 (3 patents family)	FIBHGM - UC3M	Manuel Desco, Mónica Abella
1	Group 1.01 Advanced technological applications and human health	Light Sheet Microscope and procedure for extended samples	P 2018 30912	UC3M	Jorge Ripoll Lorenzo
1	Group 1.01 Advanced technological applications and human health	Mobile 3D imaging system based on light sheet microscopy	P 2018 30913	UC3M	Jorge Ripoll Lorenzo
1	Group 1.01 Advanced technological applications and human health	Celda centelleadora	PCT/ES 2017 070623	UC3M	Georgios Konstantinou, Juan José Vaquero, Rigoberto Chil, Manuel Desco
1	Group 1.01 Advanced technological applications and human health	Equipo y simulación para control de hemorragias	P 2017 30568	FIBHGM - Medical Simulator	Manuel Desco, Juan Francisco del Cañizo
7	Group 7.25 Artificial circulation laboratory				
1	Group 1.02: Signal processing	Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P 2017 31161 (2 patents family)	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maiz, Francisco Jesús, Fernández-Avilés Díaz
2	Group 2.01 Natural history of heart disease				

Area	Group	Title	Reference*	Owner	Inventors
2	Group 2.01 Natural history of heart disease	Catéter y método para la detección de actividad eléctrica en un órgano	P 2014 31315 (5 patents family)	FIBHGM - Universidad Politécnica de Valencia - Universidad de Michigan	Andreu Martínez, Felipe Atienza, Miguel Rodrigo, M <sup>a</sup> Salud Guillem, Omer Berenfeld
2	Group o 2.01 Natural history of heart disease	Dispositivo de localización de arritmias cardíacas	P 2014 31597 (4 patents family)	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 family)	FIBHGM - University of California	Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez-Legazpi, Raquel Yotti
3	Group 3.03B Neurological diseases	Procedimiento mejorado para evaluar el riesgo cardiovascular	P 2009 01923 (2 patents family)	FIBHGM	María Concepción Guisasaola, Elena Dulin
4	Group 4.01 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 7.25 Artificial circulation laboratory				
4	Group 4.01 Infectious diseases	Dispositivo aplicador de antifúngico coloreado	P 2014 30751	FIBHGM	Pablo Martín-Rabadán
4	Group 4.01 Infectious diseases	Portaobjetos	U 2014 30943	FIBHGM	Pablo Martín-Rabadán Caballero

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Area	Group	Title	Reference*	Owner	Inventors
4	Group 4.02 Molecular biology of HIV	Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P 2015 00669 (2 patents family)	Universidad de Alcalá de Henares - FIBHGM	Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Cornelia Peña, José Luis Copa, Juan Soliveri, Jorge Pérez, M <sup>a</sup> Ángeles Muñoz, José Luis Jiménez, Pilar García
4	Group 4.02 Molecular biology of HIV	Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos	P 2016 00726	Universidad de Alcalá de Henares - FIBHGM	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 5.01 Pathophysiology and clinical research into chronic inflammatory and immunological diseases	Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune	P 2018 30197 (2 patents family)	FIBHGM	Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós

Area	Group	Title	Reference*	Owner	Inventors
5	Group 5.02 Molecular biology of HIV	Dendrimeros 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	Dendrimeros 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
5	Group 5.02 Molecular biology of HIV	Dendrimeros carbosilanos y su uso como antivirales	P 20103 0233 (8 patents family)	Universidad de Alcalá de Henares - HGUGM	Francisco Javier de la Mata, Rafael Gómez, M <sup>a</sup> Ángeles Muñoz-Fernández, Javier Sánchez-Nieves, Beatriz Rasines, Louis Chonco, Eduardo Arnaiz, M <sup>a</sup> Jesús Serramia



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Area	Group	Title	Reference*	Owner	Inventors
5	Group 5.02 Molecular biology of HIV	Compuestos dendríticos carbosilanos homo y heterofuncionalizados	P 2012 31187 (2 patents family)	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 Serranía, Rosa Reguera
6	Group 6.02 Translational medical oncology and personalized cancer therapy	Método para seleccionar, manipular y aislar células tumorales circulantes en líquidos corporales por transferencia asistida por láser	PCT/ES 2018 070064	FIBHGM - UPM	Miguel Martín, María del Monte, Andrés Muñoz, Rocio Ramos, Javier Gayarre, Tatiana Massarrah, Carlos Molpeceres
6	Group 6.03 Genetics and clinical aspects of hematologic malignancies and hematopoietic stem cell transplantation	alloGenomics	M 3600830	FIBHGM	Ismael Buño, Milagros González-Rivera, José Luis Díez-Martín, Carolina Martínez-Laperche, Elena Bucos, Jorge Gayoso, Mi Kwon, David Serrano, Pascual Balsalobre
7	Group 7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos	PCT/ES 2008 070137 (23 patents family)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana María Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas

Area	Group	Title	Reference*	Owner	Inventors
7	Group 7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	Método de diagnóstico de insuficiencia renal	P 2011 31506	FIBHGM - Universidad de Alcalá de Henares - Fundació PUIGVERT	Ricardo Bosch, Arancha Ortega, Jordi Bover, Alberto Lázaro, Alberto Tejedor
7	Group 7.01 Vascular damage and inflammation in chronic kidney disease, dialysis, and kidney transplantation. Pathophysiology of the kidney	Cilastatin for use in the treatment of sepsis	EP 16382299 (9 patents family)	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, FIBloHRC, UAH, CIBERHED	Rafael Bañares, Jorge Gracia, Juan Manuel Falcón, Agustín Albillos
7	Group 7.04 Diseases of the critically ill child	Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua	P 2013 30340	FIBHGM - SERGAS - Universidad de Santiago de Compostela	Jesús López-Herce, Santiago Mencia, Antonio Rodríguez

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Area	Group	Title	Reference*	Owner	Inventors
7	Group 7.06 Regenerative medicine in plastic surgery	Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos	P 2005 01182 (5 patents family)	FIBHGM	José María Lasso, Paola Nava
7	Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral	Use of esmolol for early regresion of left ventricular hypertrophy	EP10382141 (2 patents family)	FIBHGM	Emilio Delgado, Begoña Quintana
7	Group 7.16 Regenerative medicine and system development: cardiovascular and osteochondral	Dispositivo protector bucal con depresor lingual	P 2015 31508 (4 patents family)	FIBHGM	Guillermo Juan Rodríguez, Javier Casanova
7	Group 7.25 Artificial circulation laboratory	Método y aparato de hemodiafiltración	PCT/ES2007 070081 (3 patents family)	FIBHGM	Juan Francisco del Cañizo
7	Group 7.25 Artificial circulation laboratory	Dispositivo de asistencia ventricular	P 2013 31422	FIBHGM	Juan Francisco del Cañizo, Manuel Ruiz
7	Group 7.25 Artificial circulation laboratory	Dispositivo para bombeo de sangre de forma tubular, con válvulas activas gobernado por vacío y aplicación del mismo	P9501070 (14 patents family)	SERMAS - HGUGM	Juan Francisco del Cañizo
7	Group 7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Maqueta didáctica armable	U 2015 30218	FIBHGM	Juan Antonio León

Area	Group	Title	Reference*	Owner	Inventors
	Obstetrics and Gynaecology Service	Simulador de sutura uterina	U 2012 30998	FIBHGM	Óscar Martínez, Ignacio Cueto, Blanca González
	Obstetrics and Gynaecology Service	Simulador de útero para emergencias obstétricas	P 2013 30161	FIBHGM	Óscar Martínez, Ignacio Cueto, Blanca González, M <sup>a</sup> del Mar García, Ana Isabel Casas
	Obstetrics and Gynaecology Service	Dispositivo de sutura (doble aguja)	U 2013 30693	FIBHGM	Óscar Martínez, Luis Ortiz, Ignacio Cueto, Blanca González
	General Surgery I Service	Mango ergonómico de cubierto	U 2014 30605	FIBHGM	Irene de los Ríos, M <sup>a</sup> Victoria Sevilla
	Resumption Service	Apósito	U 2014 31166	FIBHGM	José M <sup>a</sup> Isla
	Dermatology Service	Composición para liberación controlada de compuestos	P 2014 31583	FIBHGM - Dr. Enrique Alía	Enrique Alía Fernández, Elena Conde
	IISGM	Marca FIBHGM	M 2606584(3)	FIBHGM	Thierry Bardinet
	IISGM	Marca IISGM	M 2929252(2)	FIBHGM	Ismael Buño
	IISGM	Marca ITEMAS	M 2961719(7)	FIBHGM	Manuel Desco

 Transferred Industrial Property.

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





## Intellectual Property Registrations

Area	Group	Title	Reference	Owner	Inventors
1	Group 1.01 Advanced technological applications and human health	MANGOSE	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 estrepotoscópica	Sin número registro	FIBHGM	Manuel Desco
1	Group 1.01 Advanced technological applications and human health	RapTor	Nº Asiento Registral: 16/2017/7104	FIBHGM-UC3M	Manuel Desco, Mónica Abella, Claudia de Molina, Estefanía Serrano, Fco. Javier García, Jesús Carretero
1	Group 1.03 Computer architecture, communications, and systems: ARCOS				

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
4	Group 4.01 Infectious diseases	Estudio de impacto clínico de un plan docente de formación continuada sobre las infecciones asociadas a dispositivos intravasculares	Nº Asiento Registral: 16/2013/4798	FIBHGM	Emilio Bouza, María Guembe, Patricia Muñoz, Mª Jesús Pérez, Mª del Mar San Segundo
4	Group 4.01 Infectious diseases	Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
7	Group 7.27 Hospital pharmacy and pharmacogenomics				
4	Group 4.01 Infectious diseases	Material docente para la infección relacionada con el catéter	Nº Asiento Registral: 16/2014/6113	FIBHGM	María Guembe, Emilio Bouza, María Jesús Pérez
4	Group 4.01 Infectious diseases	Optimización en el Diagnóstico Microbiológico de los Reservorios Totalmente Implantables	Nº Asiento Registral: 16/2015/2094	FIBHGM	María Guembe, Pablo Martín-Rabadán, Emilio Bouza, Mª Luisa Rivera, Teresa Vicente

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Area	Group	Title	Reference	Owner	Inventors
4	Group 4.01 Infectious diseases	Tolerancia cero a la bacteriemia relacionada con el catéter: optimización de la prevención con nuevos sistemas de vigilancia de las vías endovasculares	Nº Asiento Registral: 16/2015/2983	FIBHGM	María Guebbe, Emilio Bouza, Mª Jesús Pérez Granda
4	Group 4.01 Infectious diseases	Documento de registro para vigilancia durante la inserción y el mantenimiento de los catéteres intravasculares	Nº Asiento Registral: 16/2015/2984	FIBHGM	María Guebbe, Emilio Bouza, Mª Jesús Pérez
4	Group 4.01 Infectious diseases	Cultivo de conectores cerrados. Nueva alternativa de diagnóstico conservador de infección relacionada con el catéter	Nº Asiento Registral: 16/2017/517	FIBHGM	Emilio Bouza, María Guebbe, Mª Jesús Pérez, Pablo Martín-Rabadán
4	Group 4.01 Infectious diseases	Base de datos de perfiles de proteínas correspondientes a distintas especies de hongos filamentosos para mejorar su identificación mediante la técnica de espectrometría de masas MALDI-TOF	Nº Asiento Registral: 16/2019/6180	FIBHGM	Belén Rodríguez, Margarita Zvezdanova, Pilar Escribano, Patricia Muñoz

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



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

Area	Group	Title	Reference	Owner	Inventors
7	Group 7.27 Hospital pharmacy and pharmacogenomics	E-OncoSalud: Programa de Telemedicina aplicado al tratamiento ambulatorio del paciente onco-hematológico	Nº Asiento Registral: 16/2016/987	FIBHGM	María Sanjurjo, Ana Mª Herranz, Vicente Escudero, Almudena Ribed, Roberto Collado, Sara Ibáñez
7	Group 7.27 Hospital pharmacy and pharmacogenomics	NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal	Nº Asiento Registral: 16/2016/989	FIBHGM	Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, Mª Luisa Martín, Mª Ángeles Goicoechea, Eduardo Verde, José Luño
7	Group 7.01 Inflamación y daño vascular en la Enfermedad Renal Crónica, Diálisis y Trasplante Renal. Fisiopatología renal	Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes O / antiagregados	Nº Asiento Registral: 16/2017/507	FIBHGM	Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez
7	Group 7.27 Hospital pharmacy and pharmacogenomics	Control-Sugar24: calculadora para la insulinización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria	Nº Asiento Registral: 16/2017/6705	FIBHGM	Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García

Area	Group	Title	Reference	Owner	Inventors
7	Group 7.27 Hospital pharmacy and pharmacogenomics 7.05B	PK-GUIDE: Guía para monitorización clínica de fármacos	Nº Asiento Registral: 16/2017/6956	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán
7	Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insufficiency and respiratory disorders of sleep				
7	Group 7.27 Hospital pharmacy and pharmacogenomics 7.05B	PK-RULES: Reglas clínicas para aumentar la seguridad y eficacia de los tratamientos mediante monitorización farmacocinética	Nº Asiento Registral: 16/2017/6957	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, Mª Luisa Galiano, Margarita Ganzo, María Sanjurjo, Mª Teresa Vidán
7	Pathophysiology, outcome, and therapeutic strategies in chronic respiratory insufficiency and respiratory disorders of sleep				
7	7.31 Pathophysiology in women, pregnancy, labor, and puerperium	Parto vaginal en 3d	Nº Asiento Registral: 16 / 2019 / 2823	FIBHGM	Juan Antonio de León
8	Group 8 Research in nursing & Pediatric Emergency Department & Press Department	Nos vamos de excursión a las Urgencias del Gregorio Marañón	Nº Asiento Registral: 16/2016/3799	FIBHGM	Laura Cervantes, Paula Vázquez, David García

Area	Group	Title	Reference	Owner	Inventors
	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, Maitte Fontans, Xoan Barreiro, Alejandro López
	Innovation Support Unit IISGM Technical Unit	Herramienta de Gestión y Cuadro de Mando de Innovación	Nº Asiento Registral: 16/2015/3255	FIBHGM	Anna Riera, Manuel Desco, Eva Carravilla, Eva Talve, Marco Rivas, Isabel Ballesteros, Thierry Bardinet, Rafael Bañares, Carmen Olmedo
	Pediatric Emergency Department	Sistema de triage del paciente pediátrico en Urgencias-Gregorio Marañón (TRIPED-GM)	Nº Asiento Registral: 16/2015/5530	FIBHGM	María Concepción Míguez, Gloria Margarita Guerrero, María del Carmen Ignacio Cerro

■ Transferred Intellectual Property.



## Technology Companies / Start Up

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

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

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

### AMBIOX BIOTECH, S.L.

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

The company was created as a spin-off at Universidad de Alcalá de Henares. Its team includes M<sup>a</sup> Ángeles Muñoz, Director of the HIV Molecular Biology Group of the IISGM.

### SIMCOSMETIC BIOTECH, S.L.

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

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

### NATURE 4D

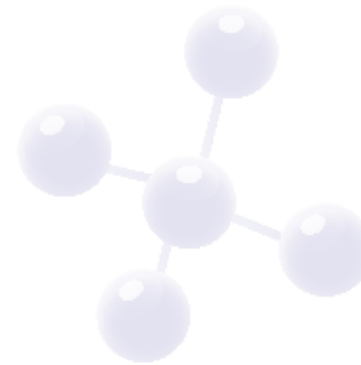
Nature 4D designs, develops, and sets up advanced imaging devices tailored to the needs of the client. These devices have multiple applications in the field of biomedicine and basic research.

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

### CORIFY CARE, S.L.

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

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



# Interventional and non interventional clinical studies

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

Approximately 95% of the clinical trials with medicines started during 2018 were Phase I, II, and III studies.

As for the distribution by research areas, almost 46.1% of the clinical trials were led by the Translational Oncology Area (Area 6).

ACTIVE CLINICAL STUDIES	
2015	945
2016	1048
2017	1226
2018	1190
<b>2019</b>	<b>1115</b>

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

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

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

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



# Funding of IISGM

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

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

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

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

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

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

## EVOLUTION OF INCOME GENERATED BY RESEARCHERS BY CATEGORY



## FUNDING OF IISGM

### Non competitive projects

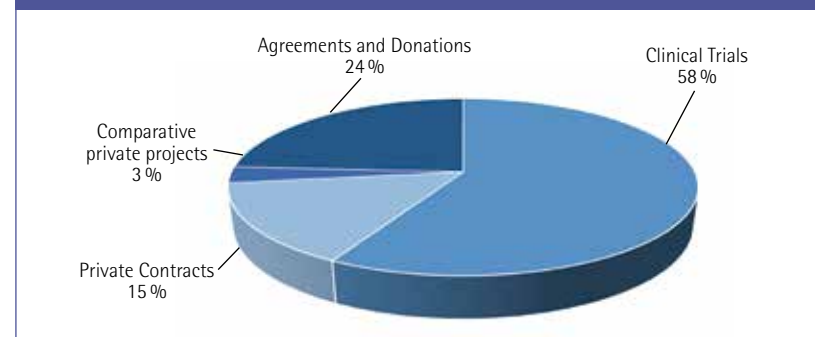


### Private competitive projects



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

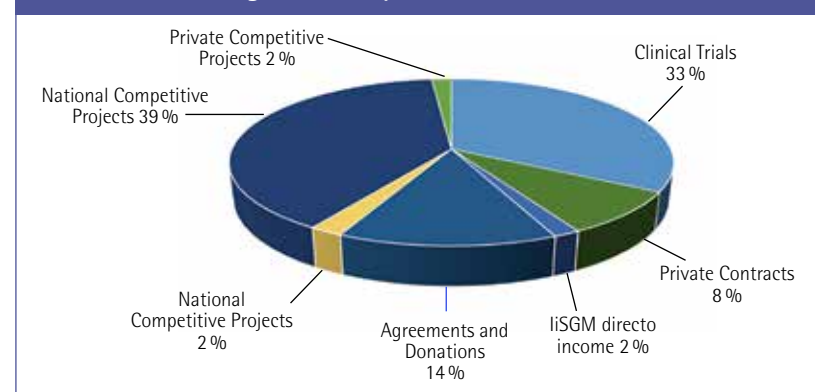
### Distribution of private funding (2019)



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

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

### Resources generated by IISGM researchers (2019)



### 43% of the resources obtained from competitive calls

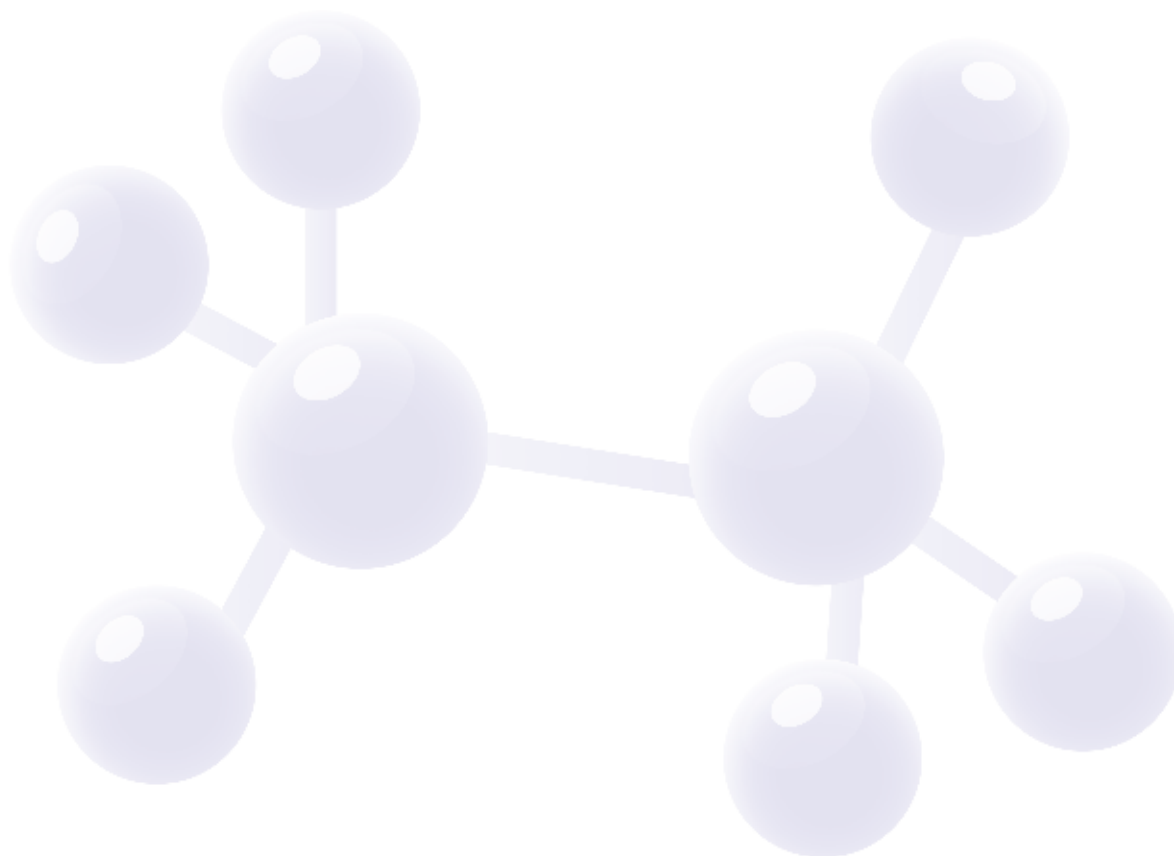
Despite the reduction in funds available for research projects through competitive call, especially in the public sector, the IISGM continues to have a considerable ability to generate income from competitive calls. In fact funds generated through National Competitive calls have increase 13,4% over the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



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

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

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



# List of active projects in 2019 by area of research

## AREA 1: BIOMEDICAL ENGINEERING

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

- Title: **ASPIDE: exAScale Programing models for extreme Data procEssing H2020 ASPIDE**  
Director: Desco Menéndez, Manuel  
Project type: European research project  
Funding body: European Commission (Framework Program)  
Start date: 15/06/2018  
End date: 14/12/2020
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Desco Menéndez, Manuel  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Nuevo sistema de tomografía por rayos X portátil** DTS17/00122  
Director: Desco Menéndez, Manuel  
Project type: Tecchnology Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardíaco** 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: 31/12/2021
- Title: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Diagnóstico de la bacteriemia por Gram positivos mediante nuevos trazadores PET selectivos.** PI16/02037.  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Predoctoral contract** FI18/00255  
Director: Martínez García, Magdalena  
Project type: Human Resourcest  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **The effects of pregnancy on the human brain** CP16/00096  
Director: Carmona Cañabate, Susana



Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2017

End date: 31/12/2019

- Title: **Cannabidiol como estrategia preventiva en la aparición de psicosis** DRO2017/085  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Ministerio de Sanidad, Servicios Sociales e Igualdad  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Ingeniería de datos inspirada en el cerebro.** S2013/ICE-2958 CM  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Consejería Educación de la Comunidad de Madrid  
Start date: 14/11/2014  
End date: 14/11/2018
- Title: **Laboratorio de sondas moleculares.** EQC2019-006674-P  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: MICINN  
Start date: 05/06/2019  
End date: 31/12/20
- Title: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anti-Staphylococcal 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: 31/12/20
- 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: 31/12/2021

- Title: **Ejercicio físico y N-acetil cisteína como terapias preventivas en la aparición de esquizofrenia durante la adolescencia: estudios preclínicos de imagen molecular y de comportamiento.** FAK16/01  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Fundación Alicia Koplowitz  
Start date: 20/10/2016  
End date: 30/03/2019
- Title: **Miguel Servet contract «The effects of pregnancy on the human brain».** MS16/00096  
Director: Carmona Cañabate, Susana  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Técnico de imagen óptica (confocal y spim).** PEJ2018-003117-A  
Director: Calle Hernández, Daniel  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Gestión y procesamiento de datos de neuroimagen en entorno cloud.** PEJ2018-003141-A  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Nuevas sondas moleculares en imagen preclínica.** PEJ2018-004151-A  
Director: Desco Menéndez, Manuel  
Project type: Human Resources



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021

- Title: **Contratación de investigadores Posdoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI).** PEJD-2018-POST/BMD-9592  
Director: Salinas Rodríguez, Beatriz  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI).** PEJD-2018-PRE/BMD-7899  
Director: Soto Montenegro, María Luisa  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI).** PEJD-2018-PRE/BMD-9077  
Director: Desco Menéndez, Manuel  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI).** PEJD-2018-PRE/BMD-9401  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021

- Title: **Young employment contract.** PEJ-2017-AI/SAL-7487  
Director: Desco Menéndez, Manuel  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 03/12/2018  
End date: 03/03/20

### *Not managed by FIBHGM*

- Title: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level.**  
Director: Ripoll, Jorge  
Project type: Research project  
Funding body: European Commission  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales.** RTC-2017- 6600-1  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Realidad aumentada para entornos de planificación, simulación, entrenamiento y navegación quirúrgica: HoloMed.** IND2018/TIC-9753.  
Director: : Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Utilización de técnicas de imagen avanzada en pequeño animal de laboratorio para aplicaciones cardiovasculares**  
Director: Desco Menéndez, Manuel / Cussó, Lorena  
Project type: Research project  
Funding body: Fundación CNIC  
Start date: 01/01/2017  
End date: 31/12/2020



- Title: **Plataforma computacional para la caracterización de la dinámica espacio-temporal de las protusiones celulares.**  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: BBVA Foundation  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Descifrando la estructura y la función de las protusiones celulares en la migración tridimensional.** TEC2015-73064-EXP  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Imagen óptica 3D ultrarrápida con información de fase en microscopía *in-vivo*.** FIS2016-77892  
Director: Ripoll Lorenzo, Jorge / Moscoso, M. A.  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2016  
End date: 31/12/2020
- Title: **Imagen paramétrica del cerebro embrionario: una nueva propuesta de instrumentación biomédica de altas prestaciones. (IMPARABLE).** TEC2016-78052-R  
Director: Muñoz Barrutia, Arrate / Vaquero López, Juan José  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: **Nuevos escenarios de tomografía por rayos X (NEXT).** DPI2016-79075-R  
Director: Abella García, Mónica  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: **Programa Garantía Juvenil** PEJ2018-001759-A  
Director: Pascau González-Garzón, Javier (Anxela Caldera Fernández)  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/10/2019  
End date: 31/10/2021
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Desco 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 (Nikolaos Sakaltras)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 03/09/2018  
End date: 02/09/2022
- Title: **Programa para Personal Investigador Postdoctoral)**  
Director: Pascau González-Garzón, Javier (Fernández Fernández, Roberto)  
Project type: Human Resources  
Funding body: Comunidad de Valencia  
Start date: 01/09/2018  
End date: 31/08/2021
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
Director: Abella García, Mónica (Mónica García Sevilla)  
Project type: Human Resources  
Funding body: UC3M  
Start date: 17/08/2018  
End date: 17/08/2022
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Director: Muñoz Barrutia, Arrate (Estíbaliz Gómez de Mariscal)

Project type: Human Resources

Funding body: UC3M

Start date: 18/09/2017

End date: 17/09/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Pascau González-Garzón, Javier (David García Mato)

Project type: Human Resources

Funding body: UC3M

Start date: 07/09/2017

End date: 06/09/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Vaquero López, Juan José (David Pérez Benito)

Project type: Human Resources

Funding body: UC3M

Start date: 01/09/2017

End date: 31/08/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Abella García, Mónica (Cristóbal Martínez Sánchez)

Project type: Human Resources

Funding body: UC3M

Start date: 01/02/2017

End date: 31/01/2021

### GROUP 1.02: Signal processing

#### *Not managed by the FIBHGM*

- Title: **Machine Learning Frontiers in Precision Medicine** H2020-MSCA-ITN-2018 Grant Agreement N°813533

Director: Artés Rodríguez, Antonio

Project type: European research project

Funding body: Comisión Europea

Start date: 01/01/2019

End date: 31/12/2022

- Title: **Advanced Bayesian computation methods for modelling and inference in complex dynamical networks** N00014-19-1-2226

Director: Míguez Arenas, Joaquín

Project type: European research project

Funding body: Comisión Europea

Start date: 01/03/2017

End date: 28/02/2022

- Title: **LOLITA: Information Theory for Low-Latency Wireless Communications** ERC-2016-StG Nr. 714161

Director: Artés Rodríguez, Antonio

Project type: European research project

Funding body: Comisión Europea

Start date: 01/03/2017

End date: 28/02/2022

- Title: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-I00

Director: Artés Rodríguez, Antonio

Project type: Research project

Funding body: MICINN

Start date: 01/01/2019

End date: 31/12/2021

- Title: **Detección precoz de Crisis de Autismo**

Director: Martínez Olmos, Pablo

Project type: Research project

Funding body: Fundación Universia

Start date: 29/04/2019

End date: 30/04/2020

- Title: **Domain Alignment and Data Wrangling with Deep Generative Models**

Director: Artés Rodríguez, Antonio

Project type: Research project

Funding body: Fundación BBVA

Start date: 30/04/2019

End date: 30/04/2021

- Title: **PRACTICO-CM Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705



Director: Artés Rodríguez, Antonio

Project type: Research project

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

Start date: 01/01/2019

End date: 31/12/2020

- Title: **Change-point Management (CAIMAN)** TEC2017-86921-C2-2-R  
Director: Ramírez García, David  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Micro-fundamentos del comportamiento: Un enfoque basado en las TICs para entender el comportamiento humano y la interacción (aMBITION)** TEC2017-92552-EXP  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: CASI-CAM-CM  
Start date: 01/11/2018  
End date: 31/12/2020
- Title: **Caracterización automática de comportamiento mediante modelos latentes basados en redes profundas** IND2017/TIC-7618  
Director: Martínez Olmos, Pablo  
Project type: Research project  
Funding body: Comunidad de Madrid  
Start date: 16/02/2018  
End date: 15/02/2021
- Title: **Finite-length iterative decoding: fundamental limits, practical constructions and inference (FLUID)** TEC-2016-78434-C3-3-R  
Director: Martínez Olmos, Pablo; Vázquez Vilar, Gonzalo  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Advanced Bayesian computation methods for estimation, prediction and control in multi-sensor complex system (ADVENTURE)** TEC2015-69868-C2-1-R

Director: Artés Rodríguez, Antonio

Project type: Research project

Funding body: MINECO

Start date: 01/01/2016

End date: 31/12/2019

- Title: **Metodologías de aprendizaje automático en neuroimagen** PEJ2018-001757-A  
Director: Martínez Olmos, Pablo  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Young employment contract: Research Assistant** PEJ-2018-AI/TIC-11059  
Director: Artés Rodríguez, Antonio  
Project type: Human Resources  
Funding body: MICINN  
Start date: 15/01/2019  
End date: 30/04/2020
- Title: **Detection of behavioral changes and its application in psychiatry** IND2018/TIC-9574  
Director: Ramírez García, David  
Project type: Human Resources  
Funding body: Dirección General de Investigación e Innovación. Comunidad de Madrid  
Start date: 04/02/2019  
End date: 03/02/2022
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models** IND2018/TIC-9649  
Director: Martínez Olmos, Pablo  
Project type: Human Resources  
Funding body: Dirección General de Investigación e Innovación. Comunidad de Madrid  
Start date: 04/02/2019  
End date: 03/02/2022

## AREA 2: CARDIOVASCULAR DISEASE

### GROUP 2.01: Natural history of heart disease

- Title: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017  
 Director: Bermejo Thomas, Javier  
 Project type: European research project  
 Funding body: 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: 30/06/2021
- 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: **Artificial intelligence drive platform for atrial fibrillation stratification** EIT HEALTH AF-FINE  
 Director: Atienza Fernández, Felipe  
 Project type: European research project  
 Funding body: Unión Europea  
 Start date: 01/07/2019  
 End date: 01/01/2021
- Title: **CORIFY: Solving Cardiac Arrhythmias** C117/00027  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Project type: Research project  
 Funding body: Fundación La Caixa  
 Start date: 01/04/2017  
 End date: 30/04/2019
- Title: **Desarrollo clínico de una terapia celular para reparación cardíaca basada en ingeniería de tejidos** RTC-2016-4911-1  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Project type: Research project  
 Funding body: MINECO Proyecto Retos 2016  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Implicaciones clínicas y fisiológicas de los flujos intraventriculares en pacientes con insuficiencia cardíaca** DPI2016-75706-P  
 Director: Martínez-Legazpi Aguilo, Pablo  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 30/12/2016  
 End date: 29/12/2019
- 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: 31/12/2022
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019





- Title: **Guiado en tiempo real de la ablación de la fibrilación auricular mediante cartografía eléctrica global (CORIFY).** DTS16/00160  
Director: Atienza Fernández, Felipe  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Estudios translacionales para el desarrollo de terapias génicas con telomerasa para el tratamiento del infarto de miocardio y de la fibrosis pulmonar.** DTS17/00091  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Regeneración Cardíaca de Infarto Crónico Porcino mediante inyecciones Intramiocardiacas de Células Progenitoras Embebidas en Hidrogeles de Matriz Decelularizada** PI16/01123  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Disfunción diastólica en el adulto con Tretralogía de Fallot. Bases Biomecánicas e implicaciones.** PI16/01237  
Director: Pérez del Villar Moro, María Candelas  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Estratificación y tratamiento de la fibrilación auricular basada en los mecanismos de perpetuación de la arritmia (STRATIFY-AF)** PI17/01059  
Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/02/2018  
End date: 31/12/2020
- Title: **Validación prospectiva de un índice pronóstico de muerte súbita o arritmias ventriculares malignas en adultos con cardiopatías congénitas** PI17/01327  
Director: Datino Romaniega, Tomás  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Técnicas avanzadas de procesamiento de resonancia magnética para caracterizar el sustrato arritmogénico y el riesgo arritmico en la miocardiopatía dilatada** PI18/01117  
Director: Pérez David, Esther  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Ablación radial para control de la Fibrilación auricular persistente (Artist Trial)** PI18/01895  
Director: Arenal Maíz, Ángel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **OCTOPUS-CHF Optical Coherence Tomography Observation of Pulmonary Ultra-Structural Changes in Heart Failure Tomografía de Coherencia óptica observación de los cambios ultra-estructurales pulmonares en insuficiencia** PI18/00254  
Director: Martínez-Selles D'Oliveira Soares, Manuel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

- Title: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardiaca con fracción de eyección preservada del paciente diabético** PI18/01595  
Director: Bermejo Thomas, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **ITACA-CM. «Investigación Traslacional en arritmias cardíacas hereditarias** S2017/BMD-3738  
Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692  
Director: Fernández-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: 31/12/2021
- Title: **IP FIS Contract** IFI15/00113  
Director: Loughlin Ramirez, Gerard Álvaro  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: **IP FIS Contract** IFI16/00010  
Director: Díez del Hoyo, Felipe  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 09/03/2017  
End date: 31/12/2020

- Title: **Río Hortega contract** CM18/00134  
Director: Castrodeza Calvo, Javier  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 31/01/2019  
End date: 30/01/2020
- Title: **Segovia Arana contract** INT18/00035  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 31/01/2019  
End date: 31/12/2019

### GROUP 2.02: Cardiovascular pathophysiology

#### *Not managed by the FIBHGM*

- Title: **Papel del estrés del retículo endoplásmico y sus moduladores en el fibrosis miocárdica asociada a la isquemia miocárdica en el contexto de la obesidad. Relevancia de los miRNAs.** PI18/00257  
Director: Cachofeiro Ramos, Victoria  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Atracción de Talento Joven**  
Director: Cachofeiro Ramos, Victoria (Ernesto Martínez Martínez)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/02/2018  
End date: 31/01/2019
- Title: **Becas predoctorales UCM**  
Director: Cachofeiro Ramos, Victoria (Francisco ds Chagas Vasconcelos Neto)  
Project type: Human Resources  
Funding body: UCM  
Start date: 01/06/2019  
End date: 31/05/2022



- Title: **Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2018**  
Director: Martínez, Ernesto (Ana Romero Miranda)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/04/2019  
End date: 30/03/2021

### GROUP 2.03: Cardiac celular electrophysiology

*Not managed by the FIBHGM*

- Title: **Papel de los factores de transcripción específicos cardiacos en el control de la actividad eléctrica miocárdica.** SAF2017-88116-P  
Director: Delpón, Eva / Caballero, Ricardo  
Funding body: MICINN/MINECO  
Project type: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Estudio funcional de mutaciones en los genes HCN4, ZFH3 y ANK2 identificadas en pacientes con fibrilación auricular familiar.** PI16/00398  
Director: Tamargo Menéndez, Juan  
Funding body Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 30/09/20
- Title: **Repercusiones funcionales de dos mutaciones en el gen TBX5. Papel del factor Tbx5 en el control de la actividad eléctrica cardiaca.** SEC2017  
Director: Delpón, Eva  
Project type: Reseach project  
Funding body: Sociedad Española de Cardiología  
Start date: 2017  
End date: 2018
- Title: **Investigación Traslacional en Arritmias Cardiacas hereditArias.** ITACA-CM B017/BMD3738

Director: Delpón, Eva  
Project type: Reseach project  
Funding body: Comunidad de Madrid. Programa de Biomedicina  
Start date: 01/01/2018  
End date: 31/12/2021

### GROUP 2.07: Acute cerebral ischemia: Stroke

- Title: **«REgenerative Stem cell therapy for STroke in Europe»** H2020-RESSTORE  
Director: Gil Núñez, Antonio  
Funding body: European Commission  
Type of project: European project  
Start date: 01/10/2015  
End date: 01/10/2020

## AREA 3: NEUROSCIENCE AND MENTAL HEALTH

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

- Title: **H2020 Autism Innovative Medicine Studies – 2 – TRIALS.** H2020 AIMS-2-TRIALS  
Director: Arango López, Celso  
Funding body: European Union  
Type of project: H2020 European research project  
Start date: 01/05/2018  
End date: 31/05/2023
- Title: **Multidisciplinary Approaches to Translational Research in Conduct Syndromes 603016-2 (MATRICS)** 7PM13/MATRICS  
Director: Arango López, Celso  
Funding body: European Union  
Type of project: European research project  
Start date: 01/03/2014  
End date: 01/03/2019
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Director: Fernández-Avilés Díaz, Francisco Jesús

Colaborator: Arango López, Celso

Funding body: Instituto de Salud Carlos III

Type of project: Integrated research project of excellence

Start date: 01/01/2017

End date: 31/12/2019

- Title: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1: mecanismos epigenéticos y comorbilidad afectiva** PI18/01819  
Director: Carballo Beloso, Juan José  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles.** PI18/01119  
Director: Moreno Pardillo, M<sup>a</sup> Dolores  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente.** PI18/00753  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 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: 31/12/2020

- Title: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista.** PI17/01997  
Director: Pina Camacho, Laura  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis.** PI17/01249  
Director: Jansen Jeucken, Joost  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997  
Director: Mayoral Aragón, María  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Biotipos en Trastornos del 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: 31/12/2020



- Title: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de delección 22q11.2** PI17/00481  
Director: Fraguas Herraiez, David  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Evaluación de la eficacia de una intervención preventiva sobre la prevalencia de bullying y el estado de salud en niños y adolescentes: Ensayo Clínico autorizado por Clusters.** PI16/02012  
Director: Arango López, Celso  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **«Estudio de seguimiento a 8 años de la primera evaluación de niños y adolescentes hijos de pacientes con esquizofrenia o trastorno bipolar»** PI15/00810  
Director: Moreno Pardillo, María Dolores  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2016  
End date: 30/11/2020
- Title: **Estudio multicéntrico del maltrato en la infancia y el riesgo para enfermedad mental en niños y adolescentes: análisis de modificaciones epigenéticas y de su correlato con biomarcadores de inmunidad innata en un modelo periférico.** PI15/00723  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: **Estudio de vías fisiopatológicas diferenciales asociadas a fenotipos distintivos en una muestra de 200 pacientes con trastornos del espectro autista.** PI14/02103  
Director: Parellada Redondo, María José  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2015  
End date: 31/12/2019
- Title: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayor de inicio temprano.** PI14/00815  
Director: Jansen, Joost  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2015  
End date: 30/06/2019
- Title: **«Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayo r de inicio temprano»** PI14/02069  
Director: Moreno Alonso, Carmen  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2015  
End date: 30/06/2019
- Title: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01  
Director: Pina Camacho, Laura  
Funding body: Fundación Alicia Koplowitz  
Type of project: Research project  
Start date: 01/11/2019  
End date: 31/10/2021
- Title: **Combinación de tratamiento con N-acetil Cisteína (NAC) y entrenamiento cognitivo para promover cambios en los patrones de activación conductuales y neurales que subyacen al déficit cognitivo en psicosis adolescente** FAK18/01  
Director: Rapado Castro, Marta  
Funding body: Fundación Alicia Koplowitz  
Type of project: Research project  
Start date: 01/11/2018  
End date: 31/10/2020



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

- Title: **Prevención de envejecimiento celular en adolescentes con primer episodio psicótico tratados con N-acetil cisteína** FAK17/01  
Director: Fraguas Herraiz, David  
Funding body: Fundación Alicia Koplowitz  
Type of project: Research project  
Start date: 01/11/2017  
End date: 31/10/2019
- Title: **A combination of two treatment strategies to promote changes in behavioral and neural activation patterns underlying cognitive deficits in adolescent psychosis** NARSAD2016  
Director: Rapado Castro, Marta  
Funding body: Brain & Behaviour Research Foundation  
Type of project: Research project  
Start date: 01/06/2019  
End date: 31/12/2019
- Title: **Convocatoria beca predoctoral en Neurociencias 2016** FTPGB16/01  
Director: Molina García, María Dolores  
Funding body: Fundación Tatiana Pérez de Guzmán El Bueno  
Type of project: Research project  
Start date: 12/12/2016  
End date: 11/12/2020
- Title: **Ramón y Cajal Contract** RYC-2017-23144  
Director: Rapado Castro, Marta  
Funding body: MICINN  
Type of project: Human resources  
Start date: 01/09/2018  
End date: 31/08/2024
- Title: **Ramón y Cajal Contract** RYC-2017-23144  
Director: Rapado Castro, Marta  
Funding body: MICINN  
Type of project: Human resources  
Start date: 01/09/2018  
End date: 31/08/2024
- Title: **Beca de doctorado Fundación Bancaria La Caixa- INPHINIT2018-CS**  
Director: Arango López, Celso (Carol Stella)  
Funding body: La Caixa  
Type of project: Human resources  
Start date: 29/10/2018  
End date: 28/10/2021
- Title: **Miguel Servet Contract** CP18/00077  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 01/10/2019
- Title: **Río Hortega Contract** CM17/00119  
Director: Durán Cutilla, Manuel  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2018  
End date: 28/01/2020
- Title: **Río Hortega Contract** CM17/00121  
Director: Ayora Rodríguez, Miriam Valle  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2018  
End date: 28/01/2020
- Title: **Sara Borrell Contract** CD18/00185  
Director: Arango López, Celso (Kenia Martínez)  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 01/10/2019
- Title: **PREDOCTORAL Contract** FI18/00233  
Director: Burdeus Olavarrieta, 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: 31/12/2022



- Title: **PREDOCTORAL Contract** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of project: Human resources  
Start date: 02/04/2018  
End date: 01/04/2022
- Title: **JUAN RODÉS Contract** JR16/00013  
Director: Pina Camacho, Laura  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Ayudas para la incorporación estable de Doctores.** IEDI-2016-00793  
Director: Janssen Jeucken, Joost  
Funding body: Ministerio de Economía Industria y Competitividad  
Type of project: Human resources  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Formación profesorado universitario** FPU18/06550  
Director: Rubio Fernández, Patricia  
Funding body: MICINN  
Type of project: Human resources  
Start date: 29/10/2019  
End date: 28/10/2023
- Title: **Formación profesorado universitario** FPU16/01740  
Director: García Alcón, Alicia  
Funding body: MICINN/MINECO  
Type of project: Human resources  
Start date: 24/10/2017  
End date: 23/10/2021
- Title: **Formación profesorado universitario** FPU17/06467  
Director: Colomar Molla, Laura  
Funding body: MICINN  
Type of project: Human resources  
Start date: 26/10/2018  
End date: 25/10/2022
- Title: **JUAN DE LA CIERVA 2017. INCORPORACIÓN** IJCI-2017-33381  
Director: Martínez Rodríguez, Kenia  
Funding body: MICINN  
Type of project: Human resources  
Start date: 01/10/2018  
End date: 22/01/2019
- Title: **Young employment contract. Ayudante investigación** PEJ-2017-AI/BMD-6274  
Director: Arango López, Celso  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Type of project: Human resources  
Start date: 02/02/2018  
End date: 01/02/2020
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-8487  
Director: Arango López, Celso  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Type of project: Human resources  
Start date: 02/02/2019  
End date: 01/02/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9585  
Director: Janssen Jeucken, Joost  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 29/10/2019



### GROUP 3.03B: Neurologic diseases

- Title: **H2020 EXTEND 779982. Bidirectional Hyer-Connected Neural System** H2020 EXTEND 779982  
Director: Grandas Pérez, Francisco Javier  
Funding body: EU/PRG. MARCO  
Project type: European Research project  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Evaluación objetiva de la marcha y de la postura mediante sensores inerciales en pacientes con enfermedad de Parkinson. Desarrollo de un índice global de locomoción y equilibrio** PI17/02007  
Director: Grandas Pérez, Francisco Javier  
Funding body: EU/PRG. MARCO  
Project type: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Young employment program: Laboratory technician** PEJ16/MED/TL-0811  
Director: Guisasaola Zulueta, María Concepción  
Funding body: Consejería Educación Cultura y Deporte. Comunidad de Madrid  
Project type: Human resources  
Start date: 03/02/2017  
End date: 03/02/2019

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

### GROUP 4.01: Infectious diseases

- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Bouza Santiago, Emilio  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **A novel transnational strategy to control high-risk tuberculosis transmission events.** AC16/00057  
Director: García De Viedma del Álamo, Darío  
Funding body: Instituto de Salud Carlos III  
Project type: Complementary action  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía 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: 31/12/2021
- Title: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155  
Director: Guinea Ortega, Jesús Vicente  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997  
Director: Rodríguez Sánchez, María Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599  
Director: García De Viedma del Álamo, Darío





Funding body: Instituto de Salud Carlos III

Project type: Research project

Start date: 01/01/2019

End date: 31/12/2021

- Title: **Impacto de la implementación de un «bundle» para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045  
Director: Guembe Ramírez, María  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Influencia de la gripe en los eventos 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: 31/12/2020
- Title: **Desarrollo de un Biobanco de microbiota intestinal humana para programas de intervención precoz en el control de la Infección por *Clostridium difficile* (Proyecto BIOMICO)**. PI16/00490  
Director: Bouza Santiago, Emilio  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Diseño, puesta a punto y evaluación de una plataforma de captura de DNA de *Mycobacterium tuberculosis* para abordar la secuenciación de genoma completo directamente sobre muestra clínica**. PI16/01449  
Director: Pérez García, Laura  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 31/12/2019

- Title: **Caracterización Genotípica de *Cándida* como herramienta micro-biológica para la discriminación entre cepas invasoras o colonizadoras**. PI16/01012  
Director: Escribano Martos, Pilar  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Detección temprana de resistencias a antibióticos y antifungos usando espectrometría de masas (MALDI-TOF MS)**. PI15/01073  
Director: Rodríguez Sánchez, Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2016  
End date: 30/11/2020
- Title: **Evaluación multicéntrica de una estrategia innovadora de vigilancia y caracterización avanzada de eventos de transmisión activa de *Mycobacterium tuberculosis* de especial relevancia**. PI15/01554  
Director: García De Viedma del Álamo, Darío  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2016  
End date: 30/11/2020
- Title: **Caracterización de un brote de *Clostridium difficile* del ribotipo hiper-virulento O27 mediante técnicas de epidemiología molecular** PI15/02046  
Director: Marín Arriaza, María de las Mercedes  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2016  
End date: 30/11/2020
- Title: **Juan Rodes Contract** JR18/00030  
Director: Galar Recalde, Alicia  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Start date: 01/12/2018

End date: 31/12/2021

- Title: **Miguel Servet Contract** CP15/00115  
Director: Escribano Martos, Pilar  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2016  
End date: 31/12/2020
- Title: **Miguel Servet Contract** CP15/00075  
Director: Pérez García, LAURA  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2016  
End date: 31/12/2020
- Title: **Miguel Servet II Contract** CP14/00220  
Director: Rodríguez Sánchez, Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2015  
End date: 31/12/2019
- Title: **Miguel Servet II Contract** CPII18/00008  
Director: Guembe Ramírez, María  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2014  
End date: 31/12/2018
- Title: **Río Hortega Contract** CM18/00089  
Director: Álvarez-Uría Miyares, Ana María  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Río Hortega Contract** CM17/00131  
Director: Olmedo Samperio, María

Funding body: Instituto de Salud Carlos III

Project type: Human resources

Start date: 01/01/2018

End date: 31/12/2020

- Title: **Young employment contract** PEJ2018-004609-A  
Director: Guinea Ortega, Jesús Vicente  
Funding body: MICINN  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Young employment contract** PEJ2018-004613-A  
Director: Escribano Martos, Pilar  
Funding body: MICINN  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Young employment contract: Laboratory technician** PEJ-2018-TL/BMD-10671  
Director: Escribano Martos, Pilar  
Funding body: Conserjería de Educación. Comunidad de Madrid  
Project type: Human resources  
Start date: 04/03/2019  
End date: 03/03/2021
- Title: **Young employment contract: Postdoctoral contract.** PEJD-2018-POST/BMD-8664  
Director: García De Viedma del Álamo, Darío  
Funding body: Conserjería de Educación. Comunidad de Madrid  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Young employment contract: Predoctoral contract.** PEJD-2017-PRE/BMD-3596  
Director: Guembe Ramírez, María  
Funding body: Conserjería de Educación. Comunidad de Madrid



Project type: Human resources  
 Start date: 01/02/2018  
 End date: 31/01/2019

- Title: **Young employment contract: Laboratory technician.** PEJ16/MED/TL-1507  
 Director: Rodríguez Sánchez, Belén  
 Funding body: MICINN  
 Project type: Human resources  
 Start date: 01/01/2017  
 End date: 31/12/2019

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

- Title: **Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis.** PI17/00657  
 Director: Berenguer Berenguer, Juan  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020
  - Title: **Juan Rodés contract.** JR17/00018  
 Director: Aldamiz-Echevarría Lois, M<sup>a</sup> Teresa  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2018  
 End date: 31/12/2021
- Title: **Río Hortega contract oung employment contract: Postdoctoral contract.** CM17/00131  
 Director: Olmedo Samperio, María  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2018  
 End date: 31/12/2020

## AREA 5: DISEASES OF THE IMMUNE SYSTEM

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

- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Fernández-Cruz Pérez, Eduardo  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Evaluación de la eficacia y toxicidad del uso de gammaglobulina intravenosa en el tratamiento de infecciones en pacientes con hipogammaglobulinemia igg post-trasplante de órgano sólido** EC11-084  
 Director: Carbone Campoverde, Javier Alberto  
 Project type: Clinicalresearch project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2012  
 End date: 30/03/2019
- Title: **Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695  
 Director: Fernández-Cruz Pérez, Eduardo  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date:31/12/2021
- Title: **Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037  
 Director: Puig Kröger, Amaya Rocío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

- Title: **Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324  
Director: Sánchez-Mateos Rubio, Paloma  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Microambiente inflamatorio del melanoma humano: Interacciones recíprocas tumor-estroma-tumor y significado clínico del estado de polarización de los macrófagos asociados a tumor.** PI13/02577  
Director: Sánchez-Mateos Rubio, Paloma  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2014  
End date: 31/01/2019
- Title: **Validación de un nuevo método de obtención de plasma rico en plaquetas para su aplicación en úlceras cutáneas crónica.** PI13/01454  
Director: Ciudad Blanco, Cristina  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2014  
End date: 05/02/2019
- Title: **Perfiles inmunogenéticos en la linfocitosis hemofagocítica (HLH) aplicados al diagnóstico rápido de los casos familiares (FHI) de la enfermedad.** PI12/02761  
Director: Gil Herrera, Juana  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2013  
End date: 30/01/2019
- Title: **Juan Rodés Contract** JR14/00021  
Director: Sarmiento Marchese, Elizabeth Angélica  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2015  
End date: 31/01/2019
- Title: **Young employment contract: Predoctoral.** PEJD-2018-PRE/BMD-8241A  
Director: Samaniego García, Rafael  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Young employment contract: Technical researcher.** PEJ-2017-TL/BMD-7299  
Director: Sánchez-Mateos Rubio, Paloma  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Project type: Human resources  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Young employment contract.** PEJ2018-004617-A  
Director: Carbone Campoverde, Javier Alberto  
Funding body: MICINN  
Project type: Human resources  
Start date: 01/01/2018  
End date: 31/12/2019

### GROUP 5.02: Molecular biology of HIV

- Title: **EUROPARTNER. Strengthening and spreading international partnership activities of the Faculty of Biology and Environmental Protection for interdisciplinary research and innovation of the University of Lodz.** NAWA IAP.EUROPARTNER  
Director: Maria Bryszewska  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: European research project of excellence  
Funding body: COST (European Cooperation in Science and Technology).  
Start date: 01/12/2018  
End date: 30/11/2020



- Title: **COST action CA17140: Cancer nanomedicine – from the bench to the bedside** (NANO2CLINIC) CA17140  
Director: Other  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: European research project of excellence  
Funding body: COST (European Cooperation in Science and Technology).  
Start date: 01/01/2018  
End date: 30/12/2020
  - Title: **Implementación de plataformas para desarrollo de productos efectivos en dermatología (dermatitis atópica, dermatitis por abarsión, psoriasis).** SNEO-20161140  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles / Molina, Eduardo  
Project type: European research project of excellence  
Funding body: CDTI  
Start date: 01/01/2017  
End date: 30/12/2019
  - Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
  - Title: **Papel de la Nanomedicina en el desarrollo de una cura funcional para el VIH** PI17/01115  
Director: Jiménez Fuentes, José Luis  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
  - Title: **Efecto de nuevas generaciones de dendrímeros con prevención dual frente al VIH/VHS-2: caracterización y prueba de concepto.** PI16/01863  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
  - Title: **Río HORTEGA Contract.** CM16/00224  
Director: Ruiz Saez, Beatriz  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
  - Title: **Young employment contract: Research assistant.** PEJ-2017-AI/BMD-7446  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Project type: Human resources  
Start date: 01/03/2019  
End date: 28/02/2021
  - Title: **Young employment contract:Laboratory Technician.** PEJ-2018-TL/BMD-11529  
Director: Jiménez Fuentes, José Luis  
Funding body: MICINN  
Project type: Human resources  
Start date: 01/01/2018  
End date: 31/12/2020
- GROUP 5.03: Systemic autoimmune diseases**
- Title: **Procedimiento breve de regulación emocional para la fibromialgia, a través de internet** PSI2017-85447-R  
Director: Vallejo Pareja, Miguel Ángel  
Funding body: MICINN  
Project type: Research project  
Start date: 01/01/2018  
End date:31/12/2019



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

- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Correa Rocha, Rafael  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Implementación de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) para prevenir el rechazo a trasplantes. Un nuevo arsenal terapeutico frente a alteraciones inmunes.** DTS18/00038  
 Director: Correa Rocha, Rafael  
 Project type: Technology research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2015  
 End date: 31/01/2019
- Title: **Ensayo clinico para evaluar la eficacia de una terapia celular cpon células Treg obtenidas de tejido tímico (thyTreg) en la prevección de rechazo en niños trasplantados de corazón.** PI18/00495  
 Director: Correa Rocha, Rafael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Generación de celulas Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular.** PI18/00506  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Desarrollo de protocolos de expansión de células. Treg en condiciones GMP para su uso en inmunoterapia celular para la prevención de rechazo a trasplante en pacientes pediátricos.** PI15/00011  
 Director: Correa Rocha, Rafael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 31/07/2019
- Title: **Ensayo de inmunoterapia celular para prevenir el rechazo a trasplante en niños mediante el aislamiento y re-infusión de células treg autólogas.** ICI14/00282  
 Director: Correa Rocha, Rafael  
 Project type: Clinical Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática(EXOHEP-CM).** S2017/BMD-3727-1  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/10/2018  
 End date: 31/12/2019
- Title: **Sara Borrell contract** CD18/00105  
 Director: Martínez Bonet, Marta  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Predocctoral contract** FI18/00109  
 Director: Fuentelsaz Romero, Sara  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021



- Title: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8524  
Director: Correa Rocha, Rafael  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Predoctoral contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8094  
Director: Pion, Marjorie  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2019

#### GROUP 5.07: Infections in the pediatric population

- Title: **Antibiotic resistance and prescribing in european children.** DGSANCO09/ARPEC  
Director: Saavedra Lozano, Jesús  
Project type: European Research project  
Funding body: European Commission DG.SANCO  
Start date: 01/09/2010  
End date: 21/09/2018
- Title: **Estudio de la coinfección por el virus de la hepatitis C en una cohorte de pacientes infectados por VIH por transmisión vertical.** GLD14/00264  
Director: Navarro Gómez, María Luisa  
Project type: Research project  
Funding body: GILEAD  
Start date: 04/12/2014  
End date: 20/09/2018
- Title: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica.** PI17/00711

Director: Santiago García, Begoña  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020

- Title: **Anticuerpos frente a las proteínas G, PreF y PostF del virus respiratorio sincitial (VRS) en lactantes y respuesta inmune sistémica. Implicaciones para el desarrollo de vacunas.** PI16/00822  
Director: Rodríguez Fernández, Rosa María  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Juan Rodés contract** JR16/00036  
Director: Santiago García, Begoña  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Río Hortega contract** CM18/00100  
Director: Aguilera Alonso, David  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Young employment contract: Research.** PEJ-2017-AI/BMD-7405  
Director: Saavedra Lozano, Jesús  
Project type: Human resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 13/12/2019



## AREA 6: TRANSLATIONAL ONCOLOGY

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

- Title: **Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo.** PI18/01775  
Director: Martín Jiménez, Miguel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Cáncer de mama triple negativo: predicción de respuesta a docetaxel-carboplatino neoadyuvante mediante caracterización de TILS y firmas inmunes basadas en secuenciación masiva de RNA.** PI15/00117  
Director: Martín Jiménez, Miguel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2016  
End date: 30/06/2020
- Title: **Evaluación daño cerebral (chemobrain) asociado al tratamiento del cáncer de mama.** FMAP12/01  
Director: Martín Jiménez, Miguel  
Project type: Research project  
Funding body: Fundación Mapfre  
Start date: 01/01/2016  
End date: 30/06/2020
- Title: **Células circulantes tumorales (ctcs) como predictor precoz de supervivencia y respuesta al tratamiento en pacientes con cáncer de páncreas localmente avanzado o metastásico después del primer ciclo de quimioterapia.** SEOM17/01  
Director: Muñoz Martín, Andrés  
Project type: Research project  
Funding body: Fundación SEOM

Start date: 02/11/2017  
End date: 01/11/2019

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

- Title: **Biomarcadores genómicos y transcriptómicos del sistema inmune para la elaboración de modelos de riesgo de desarrollo de complicaciones post-trasplante hematopoyético.** PI17/01880  
Director: Buño Borde, Ismael  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Detección e incorporación de biomarcadores genómicos de evasión inmune tumoral en modelos predictivos de recaída post-trasplante hematopoyético.** AMHH 2017  
Director: Martínez Laperche, Carolina  
Project type: Research project  
Funding body: Asociación Española de Hematología y Hemoterapia  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Bioinformatic contract** CA18/00040  
Director: Castro Labrador, Laura  
Project type: Human resources  
Funding body: Fundación Española Hematología y Hemoterapia (F:E:H:H.)  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Research Grant** FEHDC-2018  
Director: Carbonell Muñoz, Diego  
Project type: Human resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2019





## AREA 7: SYSTEMIC DISEASES AND ORGAN TRANSPLANTATION

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

- Title: **Intervenciones sobre las balsas de colesterol epiteliales derivadas a evitar la fase de amplificación del daño orgánico agudo.** PI17/00276  
Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatías pigmentosas, paludismo y rabdomiolisis** SENEFR018/01  
Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Fundación Senefro  
Start date: 01/01/2019  
End date: 31/12/2020

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

- Title: **Development of dialive, a novel Liver Dialysis Device for the treatment of patients with Acute on Chronic Liver Failure (ACLF).** H2020 ALIVER  
Director: Bañares Cañizares, Rafael  
Project type: European research project  
Funding body: European Union  
Start date: 01/01/2017  
End date: 31/12/2020
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús

Colaborator: Bañares Cañizares, Rafael  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019

- Title: **Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria 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: 31/12/2021
- 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: 31/12/2021
- Title: **Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatología de la barrera epitelial en la enfermedad inflamatoria intestinal.** PI16/02096  
Director: Menchén VISO, Luis Alberto  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Papel de la deficiencia de la vitamina D en los eventos claves de la cirrosis hepática e impacto de su suplementación.** PI16/00920  
Director: García Martínez, Rita  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

- Title: **Efectos de la hipotermia terapéutica en el fracaso hepático agudo (FHA) y en la regeneración hepática: Estudio preclínico en cerdos.** PI15/01083  
 Director: Vaquero Martín, Javier  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 30/11/2020
- Title: **Desarrollo de terapias nutricionales para el tratamiento de colitis ulcerosa mediante el uso de formulaciones simbióticas.** RTC-2015-3584-1  
 Director: Menchén V Iso, Luis Alberto  
 Project type: Research project  
 Funding body: Program RETOS. MICINN/MINECO  
 Start date: 23/01/2015  
 End date: 23/01/2019
- Title: **Impacto de la erradicación del vhc sobre el riesgo cardiovascular tras el trasplante hepático.** FISMT17/01  
 Director: Salcedo Plaza, Magdalena  
 Project type: Research project  
 Funding body: Fundación General de Investigación de la Sociedad Madrileña de Transplante  
 Start date: 01/01/2018  
 End date: 31/12/2019
- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM).** S2017/BMD-3727  
 Director: Bañares Cañizares, Rafael  
 Project type: Research project  
 Funding body: Consejería de Educación. Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 31/12/2021
- Title: **Río Hortega Contract.** CM17/00255  
 Director: Clemente Sánchez, Ana  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 31/12/2021
- Title: **Río Hortega Contract.** CM19/00247  
 Director: Caballero Marcos, Aránzazu  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/12/2019  
 End date: 31/11/2021
- Title: **Incorporación Estable de Doctores. Programa I3.** IEDI-2016-00804  
 Director: Vaquero Martín, Javier  
 Project type: Human Resources  
 Funding body: MINECO  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Young employment Contract :Laboratory Technician** PEJ-2018-TL/BMD-12024  
 Director: Vaquero Martín, Javier  
 Project type: Human Resources  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/03/2019  
 End date: 28/02/2021
- Title: **La microbiota en la historia natural de la enfermedad hepática y la hipertensión portal** PEJ2018-003826-A  
 Director: Bañares Cañizares, Rafael  
 Project type: Human Resources  
 Funding body: MICINN  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: **Young employment Predoctoral Contract** PEJD-2018-PRE/BMD-8807  
 Director: Vaquero Martín, Javier  
 Project type: Human Resources  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2019  
 End date: 31/12/2020



**GROUP 7.04: Diseases of the critically ill child**

- Title: **Estudio clínico y experimental de parada cardiaca y reanimación cardiopulmonar en pediatría.** PI18/01632  
Director: López-Herce Cid, Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248  
Director: Santiago Lozano, María José  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Efecto de la calidad de la reanimación cardiopulmonar en la supervivencia y estado neurológico de los niños que sufren una parada cardiaca.** PI16/00666  
Director: Mencía Bartolomé, Santiago  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Efecto de la ventilación y el masaje cardiaco sobre la calidad de la reanimación cardiopulmonar: estudio experimental animal y en un modelo de simulación pediátrica.** PI15/00743  
Director: López-Herce Cid, Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: **Efectos de la resucitación mediante albúmina hipertónica o gela-fundina sobre los parámetros hemodinámicos, de perfusión tisular y de**

**función renal en niños críticamente enfermos.** PI14/02046

Director: Urbano Villaescusa, Javier

Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2015

End date: 30/06/2019

- Title: **Río Hortega Contract.** CM19/00203  
Director: Manrique Martín, Gema  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/12/2019  
End date: 31/11/2021
- Title: **Río Hortega Contract.** CM17/00210  
Director: García San Prudencio, Myriam  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2021

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

- Title: **Impacto de la administración de lidocaina intravenosa o paravertebral durante el intraoperatorio de la 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: 31/12/2021
- Title: **Reducción de complicaciones post-operatorias pulmonares mediante una estrategia ventilatoria perioperatoria de apertura pulmonar.** PI18/01611  
Director: Piñeiro Otero, Patricia

## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021

- Title: **Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM) S2017/BMD-3773**  
Director: Puente Maestu, Luis  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 31/12/2020

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

- Title: **SHORT-TERM Esmolol confers cardioprotection persistent after treatment withdrawal. Future therapeutic targets in cardiac remodeling.** PI16/02069  
Director: Quintana Villamandos, Begoña  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019

#### Not managed by FIBHGM

- Title: **Aeroevacuación en un escenario real: nueva herramienta de aprendizaje en las futuras generaciones de estudiantes de medicina.** PIMCD-245  
Director: Quintana Villamandos, Begoña  
Project type: Innovation project  
Funding body: UCM  
Start date: 09/01/2018  
End date: 31/12/2020
- Title: **Innovación en la docencia del grado de medicina: aerotransporte de pacientes con alto riesgo de contaminación por enfermedad infecciosa**

**en un escenario real.** PIMCD-333  
Director: Quintana Villamandos, Begoña  
Project type: Innovation project  
Funding body: UCM  
Start date: 01/01/2019  
End date: 31/12/2021

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

- Title: **Evaluación de la eficacia de dos antidotos: bicarbonato sódico versus intralipid en un modelo porcino de farmacotoxicidad cardiaca por ropivacaína. Análisis del impacto en los parámetros hemodinámicos, electrocardiográficos, electrofisiológicos y de las arritmias.** PI15/00695  
Director: Zaballos García, Matilde  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019

### GROUP 7.21 Biopathology of aging

- Title: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021  
Director: Serra Rexach, José Antonio  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020

### GROUP 7.22 Pathophysiology of the neonate and developing child

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



Start date: 01/01/2018  
End date: 31/12/2020

### GROUP 7.25: Artificial circulation laboratory

- Title: **Efectos del tipo de flujo 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: 31/12/2020
- Title: **Perfusión normotérmica de hígado para recuperación de hígados marginales. Isquemia ccaliente, esteatosis y discrepancia de tamaño.** PI15/01987  
Director: Del Cañizo López, Juan Francisco  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2016  
End date: 30/09/2019
- Title: **Nuevas Tecnologías de Fabricación y Optimización de Tejidos : La Piel como sistema Modelo** PEJ2018-004026-A  
Director: Del Cañizo López, Juan Francisco  
Project type: Programa de Actividades de I+D en Biomedicina  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 06/03/2019  
End date: 06/03/2023
- Title: **Mejora de las prestaciones del area quirurgica del servicio de medicina y cirugía experimental para el apoyo a los investigadores del Instituto de Investigacion Sanitaria del Hospital Gregorio Marañón** S2018/BAA-4480  
Director: Del Cañizo López, Juan Francisco  
Project type: Human Resources  
Funding body: MICINN

Start date: 01/01/2019  
End date: 31/12/2020

### GROUP 7.27: Hospital pharmacy and pharmacogenomics

- Title: **Factores farmacogenómicos y monitorización terapéutica como predictores de respuesta a anti-TNFs en enfermedad inflamatoria intestinal en niños.** PI16/00559  
Director: López Fernández, Luis Andrés  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Young employment contract: Predoctoral.** PEJD-2018-PRE/BMD-8665  
Director: López Fernández, Luis Andrés  
Project type: Human resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020

### GROUP 7.29: Pharmacology and vascular pathophysiology

#### *Not managed by the FIBHGM*

- Title: **Vitamina D en la hipertension pulmonar.** SAF2016-77222-R  
Director: Pérez Vizcaíno, Francisco  
Project type: Research project  
Funding body: Plan Nacional de I+D (CICYT)  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Therapeutic potential of exosomes derived from mesenchymal stem cells and late endothelial progenitor cells in bronchopulmonary dysplasia and pulmonary hypertension.** PI15/01100  
Director: Moreno Gutiérrez, Laura  
Project type: Research project



## LIST OF ACTIVE PROJECTS IN 2019 BY AREA OF RESEARCH

Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2016  
End date: 31/12/2019

- Title: **Déficit de vitamina D en los pacientes con hipertensión pulmonar arterial y potencial valor terapéutico de la vitamina D como inhibidor de la proliferación de las células de músculo liso vascular arterial pulmonar.** Beca Actelion  
Project type: Research project  
Funding body: Fundación de Pacientes contra la Hipertensión  
Start date: 01/06/2017  
End date: 31/05/2019
- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepáticas.** EXOHEP-CM S2017/BMD-3727  
Project type: Research project  
Funding body: Comunidad de Madrid  
Start date: 01/01/2018  
End date: 31/12/2019

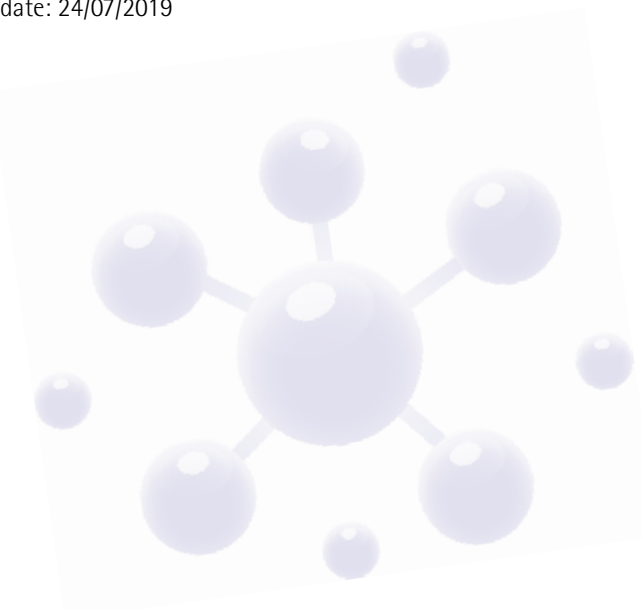
### GROUP 7.31 Pathophysiology in women, pregnancy, labor, and puerperium

- Title: **Papel de la progesterona como inmunoactivador en la lucha contra las candidiasis vaginales y sistémicas: posible efecto antitumoral y sobre la implantación embrionaria.** PI16/00050  
Director: Relloso Cereceda, Miguel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Relación del fallo de implantación embrionaria con la dosis de progesterona sérica** PEJ2018-003326-A  
Director: Pérez Milán, Federico  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2020

- Title: **Young employment contract: Predoctoral** PEJD-2018-PRE/BMD-9513  
Director: Pérez Milán, Federico  
Project type: Human resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020

### NURSING CARE GROUP

- Title: **Efectividad de una intervención precoz en el diagnóstico y tratamiento de la hiponatremia para la prevención de caídas en pacientes hospitalizados.** FMM14/09  
Director: Lobo Rodríguez, Carmen  
Project type: Research project  
Funding body: Mutua Madrileña Foundation  
Start date: 26/09/2014  
End date: 24/07/2019



# Scientific publications

The list presented below shows all the referenced publications in which investigators from the IISGM participated in during 2019.

Publications with an impact factor greater than **10 points are highlighted**.

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

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

Journal	IF	Nº	Amount IF	Q
ACTA DERMATO-VENEREOLÓGICA	4.016	1	4.016	Q1
ACTA OPHTHALMOLOGICA	3.362	1	3.362	Q1
ACTAS ESPAÑOLAS DE PSIQUIATRÍA	1.681	1	1.681	Q3
ACTAS UROLÓGICAS ESPAÑOLAS	0.873	12	10.476	Q4
ADICIONES	3.167	1	3.167	Q1
ADVANCES IN DATA ANALYSIS AND CLASSIFICATION	1.603	1	1.603	Q2
ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY	2.45	1	2.45	Q2
ADVANCES IN THERAPY	3.871	1	3.871	Q1
AGING CELL	7.238	1	7.238	Q1
AGING CLINICAL AND EXPERIMENTAL RESEARCH	2.697	1	2.697	Q3
AGING AND DISEASE	5.402	1	5.402	Q1
AIDS	4.511	6	27.066	Q1
ALLERGY	8.706	1	8.706	Q1
AMERICAN JOURNAL OF CARDIOLOGY	2.57	2	5.14	Q2
AMERICAN JOURNAL OF EMERGENCY MEDICINE	1.911	1	1.911	Q2
AMERICAN JOURNAL OF PERINATOLOGY	1.474	1	1.474	Q3
AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY	3.144	1	3.144	Q2

Journal	IF	Nº	Amount IF	Q
AMERICAN JOURNAL OF TRANSPLANTATION	7.338	3	22.014	Q1
AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE	2.126	1	2.126	Q2
ANALES DE PEDIATRÍA	1.313	20	26.26	Q3
ANAESTHESIA	5.739	1	5.739	Q1
ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY	1.634	4	6.536	Q3
ANESTHESIA AND ANALGESIA	4.305	2	8.61	Q1
ANESTHESIOLOGY	7.067	1	7.067	Q1
ANNALS OF ALLERGY ASTHMA & IMMUNOLOGY	4.969	1	4.969	Q1
ANNALS OF BIOMEDICAL ENGINEERING	3.324	1	3.324	Q2
ANNALS OF CLINICAL MICROBIOLOGY AND ANTIMICROBIALS	2.705	1	2.705	Q3
ANNALS OF CLINICAL AND TRANSLATIONAL NEUROLOGY	3.66	1	3.66	Q2
ANNALS OF EMERGENCY MEDICINE	5.799	2	11.598	Q1
ANNALS OF NONINVASIVE ELECTROCARDIOLOGY	1.131	1	1.131	Q4
<b>ANNALS OF ONCOLOGY</b>	<b>18.274</b>	<b>5</b>	<b>91.37</b>	<b>Q1</b>
<b>ANNALS OF THE RHEUMATIC DISEASES</b>	<b>16.102</b>	<b>2</b>	<b>32.204</b>	<b>Q1</b>
<b>ANNALS OF SURGERY</b>	<b>10.13</b>	<b>2</b>	<b>20.26</b>	<b>Q1</b>
ANNALS OF THORACIC SURGERY	3.639	2	7.278	Q1
ANNALS OF TRANSLATIONAL MEDICINE	3.297	2	6.594	Q2
ANNUAL REVIEW OF GENOMICS AND HUMAN GENETICS	7.243	1	7.243	Q1
ANTIMICROBIAL AGENTS AND CHEMOTHERAPY	4.904	5	24.52	Q1
ANTIMICROBIAL RESISTANCE AND INFECTION CONTROL	3.594	1	3.594	Q1
ANTIOXIDANTS	5.014	1	5.014	Q1
ANTIVIRAL RESEARCH	4.101	3	12.303	Q1
APPLIED CLINICAL INFORMATICS	2.147	1	2.147	Q3

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## SCIENTIFIC PUBLICATIONS

Journal	IF	Nº	Amount IF	Q
ARCHIVOS DE BRONCONEUMOLOGIA	4.957	14	69.398	Q1
ARCHIVES OF DISEASE IN CHILDHOOD	3.041	1	3.041	Q1
ARCHIVES OF ENDOCRINOLOGY METABOLISM	1.802	1	1.802	Q4
ARCHIVOS ESPANOLAS DE UROLOGIA	0.395	3	1.185	Q4
ARCHIVES OF GERONTOLOGY AND GERIATRICS	2.128	1	2.128	Q3
ARCHIVES OF WOMENS MENTAL HEALTH	2.5	1	2.5	Q3
ARTHRITIS RESEARCH & THERAPY	4.103	1	4.103	Q1
ARTHRITIS & RHEUMATOLOGY	9.586	2	19.172	Q1
ATENCION PRIMARIA	1.087	2	2.174	Q3
AUSTRALIAN CRITICAL CARE	2.214	2	4.428	Q1
AUSTRALIAN OCCUPATIONAL THERAPY JOURNAL	1.055	1	1.055	Q4
AUSTRALASIAN JOURNAL OF DERMATOLOGY	1.789	2	3.578	Q3
AUTOIMMUNITY REVIEWS	7.767	1	7.767	Q1
BOLETIN DE MALARIOLOGIA Y SALUD AMBIENTAL	0.433	1	0.433	Q4
BEST PRACTICE & RESEARCH IN CLINICAL RHEUMATOLOGY	2.727	1	2.727	Q3
BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS	2.985	1	2.985	Q2
BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION	3.853	2	7.706	Q2
<b>BIOLOGICAL PSYCHIATRY</b>	<b>12.095</b>	<b>1</b>	<b>12.095</b>	<b>Q1</b>
BIOMEDICAL OPTICS EXPRESS	3.921	1	3.921	Q1
BIOMED RESEARCH INTERNATIONAL	2.276	1	2.276	Q3
BIOMOLECULES	4.082	2	8.164	Q2
<b>BLOOD</b>	<b>17.543</b>	<b>1</b>	<b>17.543</b>	<b>Q1</b>
BLOOD CANCER JOURNAL	8.023	1	8.023	Q1
BMC CANCER	3.15	4	12.6	Q3
BMC GASTROENTEROLOGY	2.489	1	2.489	Q3

Journal	IF	Nº	Amount IF	Q
BMC GENOMICS	3.594	1	3.594	Q2
BMC INFECTIOUS DISEASES	2.688	2	5.376	Q3
BMC NEPHROLOGY	1.913	2	3.826	Q3
BMC PEDIATRICS	1.909	1	1.909	Q2
BMC PSYCHIATRY	2.704	1	2.704	Q2
BMC PUBLIC HEALTH	2.521	1	2.521	Q2
<b>BMJ-BRITISH MEDICAL JOURNAL</b>	<b>30.223</b>	<b>1</b>	<b>30.223</b>	<b>Q1</b>
BONE MARROW TRANSPLANTATION	4.725	1	4.725	Q1
BRAIN IMAGING AND BEHAVIOR	3.391	1	3.391	Q2
BRAIN SCIENCES	3.332	1	3.332	Q2
BRAIN STIMULATION	6.565	1	6.565	Q1
BREAST CANCER RESEARCH	4.988	1	4.988	Q2
BREAST CANCER RESEARCH AND TREATMENT	3.831	3	11.493	Q2
BREAST JOURNAL	1.991	1	1.991	Q3
BRITISH JOURNAL OF CANCER	5.791	1	5.791	Q1
BRITISH JOURNAL OF HAEMATOLOGY	5.518	1	5.518	Q1
BRITISH JOURNAL OF PHARMACOLOGY	7.73	1	7.73	Q1
CANADIAN MEDICAL ASSOCIATION JOURNAL	7.744	1	7.744	Q1
CANCER CHEMOTHERAPY AND PHARMACOLOGY	2.967	1	2.967	Q2
CANCER MEDICINE	3.491	2	6.982	Q2
CANCER	5.742	2	11.484	Q1
CANCERS	6.126	2	12.252	Q1
CARBOHYDRATE RESEARCH	1.841	1	1.841	Q2
CARDIOLOGY JOURNAL	1.669	1	1.669	Q3
CARDIOLOGY IN THE YOUNG	1	1	1	Q4
CARDIOLOGY	1.791	7	12.537	Q3

Continued on next page





Journal	IF	Nº	Amount IF	Q
CARDIOVASCULAR DIABETOLOGY	7.332	3	21.996	Q1
CARDIOVASCULAR JOURNAL OF AFRICA	0.897	1	0.897	Q4
CARDIOVASCULAR RESEARCH	8.168	1	8.168	Q1
CARDIOVASCULAR TOXICOLOGY	2.284	1	2.284	Q3
CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS	2.044	1	2.044	Q3
<b>CELL</b>	<b>38.637</b>	<b>1</b>	<b>38.637</b>	<b>Q1</b>
CELL REPORTS	8.109	1	8.109	Q1
CEREBROVASCULAR DISEASES	2.698	1	2.698	Q2
CHEMOTHERAPY	1.641	1	1.641	Q4
CIRUGIA ESPANOLA	1.323	9	11.907	Q3
<b>CIRCULATION RESEARCH</b>	<b>14.467</b>	<b>1</b>	<b>14.467</b>	<b>Q1</b>
CIRCULATION-ARRHYTHMIA AND ELECTROPHYSIOLOGY	4.393	1	4.393	Q1
CIRCULATION-CARDIOVASCULAR INTERVENTIONS	5.493	2	10.986	Q1
<b>CIRCULATION</b>	<b>23.603</b>	<b>2</b>	<b>47.206</b>	<b>Q1</b>
CLEFT PALATE-CRANIOFACIAL JOURNAL	1.347	1	1.347	Q3
CLINICAL ANATOMY	1.967	1	1.967	Q2
<b>CLINICAL CANCER RESEARCH</b>	<b>10.107</b>	<b>3</b>	<b>30.321</b>	<b>Q1</b>
CLINICAL CARDIOLOGY	2.248	1	2.248	Q3
CLINICAL CHEMISTRY AND LABORATORY MEDICINE	3.595	1	3.595	Q1
CLINICA CHIMICA ACTA	2.615	1	2.615	Q2
CLINICAL COLORECTAL CANCER	3.245	1	3.245	Q3
CLINICAL DRUG INVESTIGATION	2.267	1	2.267	Q3
CLINICAL AND EXPERIMENTAL DERMATOLOGY	1.977	1	1.977	Q3
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY	3.319	3	9.957	Q2
CLINICAL INFECTIOUS DISEASES	8.313	2	16.626	Q1

Journal	IF	Nº	Amount IF	Q
CLINICAL JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY	6.628	1	6.628	Q1
CLINICAL JOURNAL OF PAIN	2.893	2	5.786	Q2
CLINICAL KIDNEY JOURNAL	3.388	4	13.552	Q1
CLINICAL MICROBIOLOGY AND INFECTION	7.117	2	14.234	Q1
<b>CLINICAL MICROBIOLOGY REVIEWS</b>	<b>22.556</b>	<b>1</b>	<b>22.556</b>	<b>Q1</b>
CLINICAL NUTRITION	6.36	4	25.44	Q1
CLINICAL PEDIATRICS	1.026	1	1.026	Q4
CLINICAL RESEARCH IN CARDIOLOGY	5.268	1	5.268	Q1
CLINICAL RHEUMATOLOGY	2.394	2	4.788	Q3
CLINICAL & TRANSLATIONAL ONCOLOGY	2.737	12	32.844	Q3
CLINICAL TRANSPLANTATION	1.665	3	4.995	Q3
COLLOIDS AND SURFACES B-BIOINTERFACES	4.389	2	8.778	Q1
COMPREHENSIVE PHYSIOLOGY	6.604	1	6.604	Q1
COMPUTERS IN BIOLOGY AND MEDICINE	3.434	1	3.434	Q1
COMPUTER METHODS AND PROGRAMS IN BIOMEDICINE	3.632	1	3.632	Q1
CONTACT DERMATITIS	3.952	1	3.952	Q1
CORTEX	4.009	1	4.009	Q1
CURRENT MEDICINAL CHEMISTRY	4.184	1	4.184	Q1
CURRENT NEUROLOGY AND NEUROSCIENCE REPORTS	4.376	1	4.376	Q1
CURRENT OPINION IN ALLERGY AND CLINICAL IMMUNOLOGY	3.246	1	3.246	Q3
CURRENT OPINION IN INFECTIOUS DISEASES	4.577	1	4.577	Q1
CURRENT OPINION IN RHEUMATOLOGY	4.006	1	4.006	Q2
CURRENT UROLOGY REPORTS	2.307	1	2.307	Q2
CYTOTHERAPY	4.218	1	4.218	Q1
DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY	3.192	1	3.192	Q1

Continued on next page

## SCIENTIFIC PUBLICATIONS

Journal	IF	Nº	Amount IF	Q
DIABETES & METABOLISM	4.731	1	4.731	Q1
DIABETES RESEARCH AND CLINICAL PRACTICE	4.234	1	4.234	Q1
DIGESTIVE AND LIVER DISEASE	3.57	2	7.14	Q2
DRUGS IN R&D	2.277	1	2.277	Q3
EJSO	3.959	1	3.959	Q1
ELECTRONICS	2.412	1	2.412	Q2
EMERGING INFECTIOUS DISEASES	6.259	2	12.518	Q1
EMERGENCY MEDICINE JOURNAL	2.491	1	2.491	Q1
EMERGENCIAS	3.173	6	19.038	Q1
ENDOCRINE CONNECTIONS	2.592	1	2.592	Q3
ENDOCRINE	3.235	2	6.47	Q3
ENDOCRINOLOGIA DIABETES Y NUTRICION	1.18	6	7.08	Q4
ENDOSCOPY	7.341	1	7.341	Q1
ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA	1.654	11	18.194	Q4
EPIGENOMICS	4.112	1	4.112	Q2
EPILEPSY & BEHAVIOR	2.508	1	2.508	Q2
ESC HEART FAILURE	3.902	1	3.902	Q2
EUROPEAN ARCHIVES OF PSYCHIATRY AND CLINICAL NEUROSCIENCE	3.288	1	3.288	Q2
EUROPEAN CHILD & ADOLESCENT PSYCHIATRY	3.941	3	11.823	Q1
EUROPEAN GERIATRIC MEDICINE	1.232	1	1.232	Q4
<b>EUROPEAN HEART JOURNAL</b>	<b>22.673</b>	<b>4</b>	<b>90.692</b>	<b>Q1</b>
EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE	3.813	4	15.252	Q2
EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY	6.696	1	6.696	Q1
EUROPEAN JOURNAL OF AGEING	2.413	1	2.413	Q2

Journal	IF	Nº	Amount IF	Q
EUROPEAN JOURNAL OF CANCER	7.275	5	36.375	Q1
EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES	2.837	4	11.348	Q2
EUROPEAN JOURNAL OF DERMATOLOGY	2.782	8	22.256	Q2
EUROPEAN JOURNAL OF EMERGENCY MEDICINE	2.17	1	2.17	Q2
EUROPEAN JOURNAL OF HAEMATOLOGY	2.22	1	2.22	Q3
EUROPEAN JOURNAL OF HEALTH ECONOMICS	2.367	1	2.367	Q1
<b>EUROPEAN JOURNAL OF HEART FAILURE</b>	<b>11.627</b>	<b>3</b>	<b>34.881</b>	<b>Q1</b>
EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE	0.892	2	1.784	Q4
EUROPEAN JOURNAL OF INTERNAL MEDICINE	4.329	9	38.961	Q1
EUROPEAN JOURNAL OF NEUROLOGY	4.516	5	22.58	Q1
EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING	7.081	1	7.081	Q1
EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY	2.51	1	2.51	Q2
EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY	5.864	2	11.728	Q1
EUROPEAN JOURNAL OF PUBLIC HEALTH	2.391	1	2.391	Q2
EUROPEAN JOURNAL OF TRAUMA AND EMERGENCY SURGERY	2.139	1	2.139	Q2
EUROPEAN NEUROPSYCHOPHARMACOLOGY	3.853	3	11.559	Q1
EUROPEAN POLYMER JOURNAL	3.862	1	3.862	Q1
EUROPEAN PSYCHIATRY	4.464	1	4.464	Q1
<b>EUROPEAN UROLOGY</b>	<b>17.947</b>	<b>1</b>	<b>17.947</b>	<b>Q1</b>
EUROPACE	4.045	2	8.09	Q2
EUROSURVEILLANCE	6.454	3	19.362	Q1
EXPERT OPINION ON BIOLOGICAL THERAPY	3.224	1	3.224	Q2
EXPERT OPINION ON DRUG SAFETY	3.383	1	3.383	Q2
EXPERT OPINION ON INVESTIGATIONAL DRUGS	5.081	1	5.081	Q1

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Journal	IF	Nº	Amount IF	Q
EXPERT OPINION ON ORPHAN DRUGS	0.805	1	0.805	Q4
EXPERT OPINION ON PHARMACOTHERAPY	2.878	1	2.878	Q2
EXPERT REVIEW OF GASTROENTEROLOGY & HEPATOLOGY	3.514	1	3.514	Q2
EXPERT REVIEW OF MEDICAL DEVICES	2.2	1	2.2	Q3
FASEB JOURNAL	4.966	1	4.966	Q1
FOOT & ANKLE INTERNATIONAL	2.292	1	2.292	Q2
FREE RADICAL BIOLOGY AND MEDICINE	6.17	1	6.17	Q1
FRONTIERS IN IMMUNOLOGY	5.085	4	20.34	Q1
FRONTIERS IN MICROBIOLOGY	4.235	1	4.235	Q2
FRONTIERS IN NEUROANATOMY	3.292	1	3.292	Q1
FRONTIERS IN NEUROLOGY	2.889	1	2.889	Q2
FRONTIERS IN ONCOLOGY	4.848	1	4.848	Q2
FRONTIERS IN PEDIATRICS	2.634	1	2.634	Q1
FRONTIERS IN PHYSIOLOGY	3.367	1	3.367	Q1
FRONTIERS IN PSYCHIATRY	2.849	3	8.547	Q2
FUNGAL GENETICS AND BIOLOGY	3.071	1	3.071	Q2
FUTURE GENERATION COMPUTER SYSTEMS -THE INTERNATIONAL JOURNAL OF ESCIENCE	6.125	1	6.125	Q1
FUTURE MEDICINAL CHEMISTRY	3.607	1	3.607	Q2
FUTURE ONCOLOGY	2.66	1	2.66	Q3
GASTROENTEROLOGIA Y HEPATOLOGIA	1.581	6	9.486	Q4
<b>GASTROENTEROLOGY</b>	<b>17.373</b>	<b>3</b>	<b>52.119</b>	<b>Q1</b>
GASTROINTESTINAL ENDOSCOPY	6.89	1	6.89	Q1
GENERAL THORACIC AND CARDIOVASCULAR SURGERY	1.088	1	1.088	Q4
<b>GUT</b>	<b>19.819</b>	<b>1</b>	<b>19.819</b>	<b>Q1</b>
HAEMATOLOGICA	7.116	3	21.348	Q1

Journal	IF	Nº	Amount IF	Q
HEAD AND NECK-JOURNAL FOR THE SCIENCES AND SPECIALTIES OF THE HEAD AND NECK	2.538	1	2.538	Q1
HEALTH AND QUALITY OF LIFE OUTCOMES	2.344	1	2.344	Q2
HEALTH RESEARCH POLICY AND SYSTEMS	2.365	1	2.365	Q2
HEART	5.213	5	26.065	Q1
HEART FAILURE CLINICS	2.327	1	2.327	Q3
HEMATOLOGICAL ONCOLOGY	2.832	1	2.832	Q2
HEMATOLOGY-ONCOLOGY CLINICS OF NORTH AMERICA	3.107	1	3.107	Q2
HEMODIALYSIS INTERNATIONAL	1.839	1	1.839	Q3
<b>HEPATOLOGY</b>	<b>14.679</b>	<b>3</b>	<b>44.037</b>	<b>Q1</b>
HUMAN BRAIN MAPPING	4.421	3	13.263	Q1
HUMAN MUTATION	4.124	1	4.124	Q1
HYPERTENSION RESEARCH	2.941	1	2.941	Q2
HYPERTENSION	7.713	1	7.713	Q1
IEEE ACCESS	3.745	1	3.745	Q1
IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS	5.223	3	15.669	Q1
IEEE SIGNAL PROCESSING LETTERS	3.105	1	3.105	Q2
IEEE TRANSACTIONS ON INFORMATION THEORY	3.036	3	9.108	Q2
IEEE TRANSACTIONS ON MEDICAL IMAGING	6.685	1	6.685	Q1
IEEE TRANSACTIONS ON SIGNAL PROCESSING	5.028	1	5.028	Q1
IMMUNOLOGY AND ALLERGY CLINICS OF NORTH AMERICA	3	1	3	Q3
INDIAN JOURNAL OF DERMATOLOGY	1.523	1	1.523	Q3
INDIAN JOURNAL OF PEDIATRICS	1.508	1	1.508	Q3
INFECTIOUS DISEASES	2.494	1	2.494	Q3
INFECTION GENETICS AND EVOLUTION	2.773	2	5.546	Q3
INFECTION	3.04	1	3.04	Q2

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## SCIENTIFIC PUBLICATIONS

Journal	IF	Nº	Amount IF	Q
INFLAMMATORY BOWEL DISEASES	4.261	1	4.261	Q2
INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED	2.106	1	2.106	Q2
INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY	2.917	2	5.834	Q3
INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS	4.621	2	9.242	Q1
INTERNATIONAL JOURNAL OF CANCER	5.145	1	5.145	Q1
INTERNATIONAL JOURNAL OF CARDIOLOGY	3.229	7	22.603	Q2
INTERNATIONAL JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE	2.772	2	5.544	Q2
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE	0.166	1	0.166	Q4
INTERNATIONAL JOURNAL OF CLINICAL PHARMACY	1.616	1	1.616	Q4
INTERNATIONAL JOURNAL OF CLINICAL PRACTICE	2.444	1	2.444	Q2
INTERNATIONAL JOURNAL OF DERMATOLOGY	2.067	1	2.067	Q3
INTERNATIONAL JOURNAL OF DRUG POLICY	4.444	1	4.444	Q1
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH	2.849	2	5.698	Q1
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES	4.556	3	13.668	Q1
INTERNATIONAL JOURNAL OF NANOMEDICINE	5.115	1	5.115	Q1
INTERACTIVE CARDIOVASCULAR AND THORACIC SURGERY	1.675	2	3.35	Q3
INTERNAL MEDICINE JOURNAL	1.677	1	1.677	Q3
INVESTIGATIONAL NEW DRUGS	3.525	1	3.525	Q2
JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE	7.574	5	37.87	Q1
JOURNAL OF THE AMERICAN ACADEMY OF DERMATOLOGY	8.277	1	8.277	Q1
<b>JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY</b>	<b>20.589</b>	<b>3</b>	<b>61.767</b>	<b>Q1</b>
JOURNAL OF THE AMERICAN GERIATRICS SOCIETY	4.18	1	4.18	Q1

Journal	IF	Nº	Amount IF	Q
JOURNAL OF THE AMERICAN HEART ASSOCIATION	4.605	4	18.42	Q1
JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY	5.439	7	38.073	Q1
JOURNAL OF BIOMEDICAL SCIENCE	5.762	1	5.762	Q1
JOURNAL OF CARDIAC SURGERY	1.49	2	2.98	Q3
JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA	2.258	1	2.258	Q3
JOURNAL OF CARDIOVASCULAR PHARMACOLOGY	2.598	1	2.598	Q2
JOURNAL OF CARDIOVASCULAR SURGERY	1.415	1	1.415	Q3
JOURNAL OF CARDIOVASCULAR TRANSLATIONAL RESEARCH	3.312	1	3.312	Q2
JOURNAL OF CELLULAR PHYSIOLOGY	5.546	2	11.092	Q1
JOURNAL OF CHEMOTHERAPY	1.661	1	1.661	Q4
JOURNAL OF CLINICAL Apheresis	1.629	2	3.258	Q4
JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM	5.399	1	5.399	Q1
JOURNAL OF CLINICAL MEDICINE	3.303	11	36.333	Q1
JOURNAL OF CLINICAL MONITORING AND COMPUTING	2.108	1	2.108	Q3
JOURNAL OF CLINICAL NEUROSCIENCE	1.76	1	1.76	Q3
<b>JOURNAL OF CLINICAL ONCOLOGY</b>	<b>32.956</b>	<b>3</b>	<b>98.868</b>	<b>Q1</b>
JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS	1.833	1	1.833	Q4
JOURNAL OF CLINICAL SLEEP MEDICINE	3.586	1	3.586	Q2
JOURNAL OF CRANIOFACIAL SURGERY	0.953	1	0.953	Q4
JOURNAL OF CRITICAL CARE	2.685	1	2.685	Q3
JOURNAL OF CROHNS & COLITIS	8.658	1	8.658	Q1
JOURNAL OF DERMATOLOGY	3.072	1	3.072	Q2
JOURNAL OF DERMATOLOGICAL TREATMENT	2.156	2	4.312	Q2
JOURNAL OF ELECTROCARDIOLOGY	0.944	1	0.944	Q4
JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLGY	5.248	1	5.248	Q1

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Journal	IF	Nº	Amount IF	Q
JOURNAL OF EVALUATION IN CLINICAL PRACTICE	1.681	1	1.681	Q3
JOURNAL OF FOOT & ANKLE SURGERY	1.043	1	1.043	Q4
JOURNAL OF GASTROINTESTINAL SURGERY	2.573	1	2.573	Q2
JOURNAL OF GERIATRIC CARDIOLOGY	2.491	3	7.473	Q2
JOURNAL OF GERIATRIC ONCOLOGY	2.761	1	2.761	Q3
JOURNAL OF GLOBAL ANTIMICROBIAL RESISTANCE	2.706	1	2.706	Q2
<b>JOURNAL OF HEPATOLOGY</b>	<b>20.582</b>	<b>6</b>	<b>123.492</b>	<b>Q1</b>
JOURNAL OF THE HISTORY OF THE NEUROSCIENCES	0.347	1	0.347	Q4
JOURNAL OF HOSPITAL INFECTION	3.271	2	6.542	Q1
JOURNAL FOR IMMUNOTHERAPY OF CANCER	9.913	1	9.913	Q1
JOURNAL OF INHERITED METABOLIC DISEASE	4.036	1	4.036	Q2
JOURNAL OF INTERVENTIONAL CARDIAC ELECTROPHYSIOLOGY	1.277	1	1.277	Q4
JOURNAL OF INVASIVE CARDIOLOGY	1.453	1	1.453	Q4
JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY	3.488	11	38.368	Q2
JOURNAL OF KNEE SURGERY	1.986	1	1.986	Q2
JOURNAL OF MEDICAL GENETICS	4.943	1	4.943	Q1
JOURNAL OF MICROBIOLOGY IMMUNOLOGY AND INFECTION	3.493	1	3.493	Q2
JOURNAL OF NANOBIO TECHNOLOGY	6.518	2	13.036	Q1
JOURNAL OF NEPHROLOGY	3.484	1	3.484	Q1
JOURNAL OF NEUROGASTROENTEROLOGY AND MOTILITY	3.008	1	3.008	Q2
JOURNAL OF THE NEUROLOGICAL SCIENCES	3.115	1	3.115	Q2
JOURNAL OF NURSING MANAGEMENT	2.243	1	2.243	Q1
JOURNAL OF OBSTETRICS AND GYNAECOLOGY	0.807	1	0.807	Q4
JOURNAL OF ONCOLOGY PHARMACY PRACTICE	1.85	3	5.55	Q4
JOURNAL OF OPHTHALMOLOGY	1.447	1	1.447	Q3
JOURNAL OF PAEDIATRICS AND CHILD HEALTH	1.71	1	1.71	Q3

Journal	IF	Nº	Amount IF	Q
JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING	2.296	1	2.296	Q2
JOURNAL OF PARKINSONS DISEASE	5.178	1	5.178	Q1
JOURNAL OF THE PEDIATRIC INFECTIOUS DISEASES SOCIETY	2.212	1	2.212	Q2
JORNAL DE PEDIATRIA	2.029	1	2.029	Q2
JOURNAL OF PEDIATRIC SURGERY	1.919	2	3.838	Q2
JOURNAL OF PEDIATRICS	3.7	1	3.7	Q1
JOURNAL OF PERINATAL MEDICINE	1.614	1	1.614	Q3
JOURNAL OF PERINATOLOGY	1.967	1	1.967	Q2
JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY	2.952	1	2.952	Q2
JOURNAL OF PHYSIOLOGY-LONDON	4.547	3	13.641	Q1
JOURNAL OF PLASTIC RECONSTRUCTIVE AND AESTHETIC SURGERY	2.39	1	2.39	Q2
JOURNAL OF PSYCHIATRIC RESEARCH	3.745	1	3.745	Q1
JOURNAL OF PSYCHOPHARMACOLOGY	3.121	1	3.121	Q2
JOURNAL OF REPRODUCTIVE IMMUNOLOGY	4.018	1	4.018	Q1
JOURNAL OF RHEUMATOLOGY	3.35	3	10.05	Q2
JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY	3.813	1	3.813	Q2
JOURNAL OF STOMATOLOGY ORAL AND MAXILLOFACIAL SURGERY	1.152	1	1.152	Q4
JOURNAL OF SURGICAL RESEARCH	1.841	1	1.841	Q3
JOURNAL OF SYSTEMS AND SOFTWARE	2.45	1	2.45	Q2
JOURNAL OF THORACIC DISEASE	2.046	1	2.046	Q3
JOURNAL OF TRANSLATIONAL MEDICINE	4.124	1	4.124	Q2
JACC-CARDIOVASCULAR INTERVENTIONS	8.432	2	16.864	Q1
JAIDS-JOURNAL OF ACQUIRED IMMUNE DEFICIENCY SYNDROMES	3.475	1	3.475	Q2
<b>JAMA CARDIOLOGY</b>	<b>12.794</b>	<b>1</b>	<b>12.794</b>	<b>Q1</b>
<b>JAMA ONCOLOGY</b>	<b>24.799</b>	<b>2</b>	<b>49.598</b>	<b>Q1</b>

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## SCIENTIFIC PUBLICATIONS

Journal	IF	Nº	Amount IF	Q
<b>JAMA PEDIATRICS</b>	<b>13.946</b>	<b>1</b>	<b>13.946</b>	<b>Q1</b>
<b>JAMA-JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION</b>	<b>45.54</b>	<b>1</b>	<b>45.54</b>	<b>Q1</b>
JOURNAL OF PARENTERAL AND ENTERAL NUTRITION	2.853	1	2.853	Q3
KIDNEY & BLOOD PRESSURE RESEARCH	1.898	1	1.898	Q3
KIDNEY INTERNATIONAL	8.945	1	8.945	Q1
<b>LANCET</b>	<b>60.392</b>	<b>3</b>	<b>181.176</b>	<b>Q1</b>
<b>LANCET INFECTIOUS DISEASES</b>	<b>24.446</b>	<b>2</b>	<b>48.892</b>	<b>Q1</b>
<b>LANCET ONCOLOGY</b>	<b>33.752</b>	<b>1</b>	<b>33.752</b>	<b>Q1</b>
<b>LANCET PSYCHIATRY</b>	<b>16.209</b>	<b>1</b>	<b>16.209</b>	<b>Q1</b>
<b>LANCET RESPIRATORY MEDICINE</b>	<b>25.094</b>	<b>1</b>	<b>25.094</b>	<b>Q1</b>
LEUKEMIA & LYMPHOMA	2.969	1	2.969	Q2
LEUKEMIA RESEARCH	2.214	1	2.214	Q3
LIVER INTERNATIONAL	5.175	2	10.35	Q1
LIVER TRANSPLANTATION	4.57	1	4.57	Q1
LUNG CANCER	4.702	1	4.702	Q1
MALARIA JOURNAL	2.631	2	5.262	Q1
MATURITAS	3.63	1	3.63	Q1
MBIO	6.784	1	6.784	Q1
MEDICINA CLINICA	1.635	5	8.175	Q3
MEDICAL DOSIMETRY	1.396	1	1.396	Q4
MEDICINA INTENSIVA	2.363	2	4.726	Q3
MEDICAL MYCOLOGY	2.822	5	14.11	Q1
MEDICINE	1.552	4	6.208	Q3
MICROBIAL PATHOGENESIS	2.914	1	2.914	Q3
MINERVA ANESTESIOLOGICA	2.498	2	4.996	Q3
MOLECULAR AUTISM	5.869	1	5.869	Q1
MOLECULAR GENETICS & GENOMIC MEDICINE	1.995	1	1.995	Q3

Journal	IF	Nº	Amount IF	Q
MOLECULAR GENETICS AND METABOLISM	4.17	1	4.17	Q1
MOLECULAR IMAGING AND BIOLOGY	2.925	2	5.85	Q2
MOLECULAR NUTRITION & FOOD RESEARCH	5.309	1	5.309	Q1
MOVEMENT DISORDERS	8.679	3	26.037	Q1
MYCOSES	3.575	3	10.725	Q1
NANOMEDICINE	4.3	1	4.3	Q1
NANOSCALE	6.895	1	6.895	Q1
<b>NATURE COMMUNICATIONS</b>	<b>12.121</b>	<b>3</b>	<b>36.363</b>	<b>Q1</b>
<b>NATURE</b>	<b>42.778</b>	<b>1</b>	<b>42.778</b>	<b>Q1</b>
NEFROLOGIA	1.544	7	10.808	Q4
NEONATOLOGY	2.742	1	2.742	Q1
NEPHROLOGY DIALYSIS TRANSPLANTATION	4.531	1	4.531	Q1
NEPHRON	2.089	1	2.089	Q3
NETHERLANDS HEART JOURNAL	1.933	1	1.933	Q3
NEUROBIOLOGY OF DISEASE	5.332	1	5.332	Q1
NEUROCIROGIA	0.597	1	0.597	Q4
NEUROLOGIA	2.283	7	15.981	Q3
NEUROLOGY	8.77	1	8.77	Q1
NEUROPSYCHOPHARMACOLOGY	6.751	1	6.751	Q1
NEUROSCIENCE AND BIOBEHAVIORAL REVIEWS	8.33	3	24.99	Q1
<b>NEW ENGLAND JOURNAL OF MEDICINE</b>	<b>74.699</b>	<b>4</b>	<b>298.796</b>	<b>Q1</b>
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT	1.265	1	1.265	Q3
NUTRICION HOSPITALARIA	0.888	4	3.552	Q4
NUTRIENTS	4.546	2	9.092	Q1
OBESITY SURGERY	3.412	2	6.824	Q1
ONCOLOGIST	5.025	2	10.05	Q2

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Journal	IF	Nº	Amount IF	Q
OPEN FORUM INFECTIOUS DISEASES	3.656	4	14.624	Q2
ORAL DISEASES	2.613	1	2.613	Q1
ORPHANET JOURNAL OF RARE DISEASES	3.523	4	14.092	Q2
OSTEOPOROSIS INTERNATIONAL	3.864	1	3.864	Q2
OXIDATIVE MEDICINE AND CELLULAR LONGEVITY	5.076	1	5.076	Q2
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA	9.412	1	9.412	Q1
PACE-PACING AND CLINICAL ELECTROPHYSIOLOGY	1.303	1	1.303	Q4
PAIN MEDICINE	2.513	1	2.513	Q2
PARKINSONS DISEASE	1.758	1	1.758	Q3
PATIENT-PATIENT CENTERED OUTCOMES RESEARCH	3.226	1	3.226	Q1
PATIENT PREFERENCE AND ADHERENCE	1.946	1	1.946	Q2
PEDIATRIC ALLERGY AND IMMUNOLOGY	4.699	2	9.398	Q1
PEDIATRIC BLOOD & CANCER	2.355	1	2.355	Q2
PEDIATRIC CRITICAL CARE MEDICINE	2.854	8	22.832	Q1
PEDIATRIC DERMATOLOGY	1.164	2	2.328	Q4
PEDIATRIC EMERGENCY CARE	1.17	1	1.17	Q3
PEDIATRIC INFECTIOUS DISEASE JOURNAL	2.126	5	10.63	Q2
PEDIATRIC NEPHROLOGY	2.676	1	2.676	Q1
PEDIATRIC RESEARCH	2.747	1	2.747	Q1
PEDIATRIC SURGERY INTERNATIONAL	1.668	1	1.668	Q3
PEDIATRIC TRANSPLANTATION	1.425	1	1.425	Q3
PEDIATRICS	5.359	1	5.359	Q1
PHARMACOLOGICAL REPORTS	2.754	1	2.754	Q2
PHARMACOLOGICAL RESEARCH	5.893	2	11.786	Q1
PLOS ONE	2.74	32	87.68	Q2
PSYCHOLOGICAL MEDICINE	5.813	2	11.626	Q1
PULMONOLOGY	2.778	1	2.778	Q2

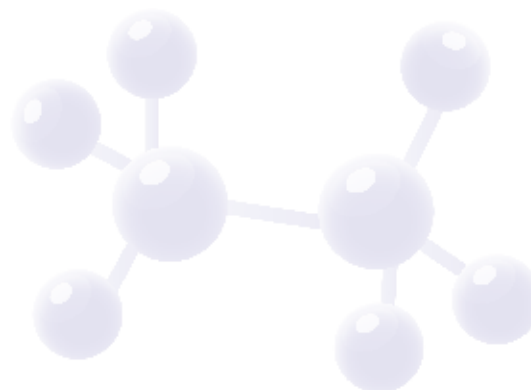
Journal	IF	Nº	Amount IF	Q
QUALITY MANAGEMENT IN HEALTH CARE	0.852	1	0.852	Q4
R JOURNAL	3.312	1	3.312	Q1
RADIOTHERAPY AND ONCOLOGY	4.856	1	4.856	Q1
RESPIRATORY MEDICINE	3.095	2	6.19	Q2
RESUSCITATION	4.215	1	4.215	Q1
REVISTA BRASILEIRA DE ANESTESIOLOGIA	0.867	2	1.734	Q4
REVISTA CLINICA ESPANOLA	1.304	5	6.52	Q3
REVISTA ESPANOLA DE CARDIOLOGIA	4.642	14	64.988	Q1
REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS	1.591	6	9.546	Q4
REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR	1.09	2	2.18	Q4
REVISTA ESPANOLA DE QUIMIOTERAPIA	1.132	11	12.452	Q4
REVISTA ESPANOLA DE SALUD PUBLICA	0.746	1	0.746	Q4
REVISTA IBEROAMERICANA DE MICOLOGIA	1.627	1	1.627	Q4
REVUE NEUROLOGIQUE	1.911	1	1.911	Q3
REVISTA DE NEUROLOGIA	0.562	5	2.81	Q4
REVISTA DE PSIQUIATRIA Y SALUD MENTAL	2.63	4	10.52	Q2
RHEUMATOLOGY INTERNATIONAL	1.984	3	5.952	Q3
RHEUMATOLOGY	5.606	2	11.212	Q1
RHINOLOGY	3.019	1	3.019	Q1
ROYAL SOCIETY OPEN SCIENCE	2.647	1	2.647	Q2
SCHIZOPHRENIA RESEARCH	3.759	2	7.518	Q1
SCHIZOPHRENIA BULLETIN	7.958	5	39.79	Q1
SCIENTIFIC REPORTS	3.998	25	99.95	Q1
SEMINARS IN ARTHRITIS AND RHEUMATISM	4.751	2	9.502	Q1
SEMINARS IN THROMBOSIS AND HEMOSTASIS	2.892	1	2.892	Q2
SEXUAL MEDICINE	1.923	1	1.923	Q2

Continued on next page

## SCIENTIFIC PUBLICATIONS

Journal	IF	Nº	Amount IF	Q
SEXUALLY TRANSMITTED DISEASES	2.74	1	2.74	Q3
STEM CELL RESEARCH	4.489	5	22.445	Q1
SUBSTANCE USE & MISUSE	1.497	1	1.497	Q3
SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES	3.149	1	3.149	Q1
SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES	1.382	1	1.382	Q3
TARGETED ONCOLOGY	4.036	1	4.036	Q2
THERAPEUTIC ADVANCES IN GASTROENTEROLOGY	3.52	3	10.56	Q2
THERAPEUTIC HYPOTHERMIA AND TEMPERATURE MANAGEMENT	1.176	1	1.176	Q4
THORAX	8.834	1	8.834	Q1
THROMBOSIS AND HAEMOSTASIS	4.379	1	4.379	Q1
THROMBOSIS RESEARCH	2.869	2	5.738	Q2
TRANSLATIONAL ONCOLOGY	3.558	1	3.558	Q2

Journal	IF	Nº	Amount IF	Q
TRANSLATIONAL PSYCHIATRY	5.28	1	5.28	Q1
TRANSPLANT INFECTIOUS DISEASE	2.071	2	4.142	Q3
TRANSPLANTATION PROCEEDINGS	0.784	2	1.568	Q4
TRIALS	1.883	4	7.532	Q3
ULTRASOUND IN OBSTETRICS & GYNECOLOGY	5.571	1	5.571	Q1
VACCINE	3.143	1	3.143	Q2
VACCINES	4.086	1	4.086	Q2
VETERINARY ANAESTHESIA AND ANALGESIA	1.368	1	1.368	Q2
VIRUS RESEARCH	2.934	1	2.934	Q2
WORLD JOURNAL OF GASTROENTEROLOGY	3.665	1	3.665	Q2
WORLD JOURNAL OF PEDIATRICS	1.437	1	1.437	Q3
WORLD JOURNAL OF UROLOGY	3.217	1	3.217	Q2
<b>WORLD PSYCHIATRY</b>	<b>40.595</b>	<b>1</b>	<b>40.595</b>	<b>Q1</b>
<b>TOTAL</b>		<b>956</b>	<b>4750.4</b>	





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

Journal	Nº
ACTA OTORRINOLARINGOLOGICA ESPANOLA	1
ACTAS DERMO-SIFILOGRAFICAS	3
ANALES DE PEDIATRIA	1
ANGIOLOGIA	1
BLOOD ADVANCES	2
CARDIOVASCULAR REVASCULARIZATION MEDICINE	1
CIRUGIA CARDIOVASCULAR	7
CLINICAL CASE REPORTS	1
CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS	2
EUROPEAN HEART JOURNAL	1
EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS	1
IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING	2
IEEE-ACM INTERNATIONAL SYMPOSIUM ON CLUSTER CLOUD AND GRID COMPUTING	1
INTED PROCEEDINGS	1
INTERNATIONAL JOURNAL OF SURGERY CASE REPORTS	1
JOURNAL OF CLINICAL ONCOLOGY	1
MEDICINA CLINICA	1
NATURE NEUROSCIENCE	1
ONCOTARGET	1
PROCEEDINGS OF SPIE	2
RADIOLOGIA	1

Journal	Nº
RECENT PATENTS ON INFLAMMATION & ALLERGY DRUG DISCOVERY	2
REUMATOLOGIA CLINICA	7
REVISTA CHILENA DE PEDIATRIA-CHILE	2
TRANSLATIONAL PEDIATRICS	1
ESMO OPEN	1
BLOOD RESEARCH	1
INTRACTABLE & RARE DISEASES RESEARCH	3
NUTRICION CLINICA Y DIETETICA HOSPITALARIA	1
REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION	5
CUREUS	1
CLINICA E INVESTIGACION EN ARTERIOSCLEROSIS	3
HEPATIC MEDICINE-EVIDENCE AND RESEARCH	1
REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)	6
ERIA-REVISTA CUATRIMESTRAL DE GEOGRAFIA	1
ENDOCRINOLOGIA, DIABETES Y NUTRICION	1
NPJ BREAST CANCER	1
DRUGS IN CONTEXT	1
EUROPEAN UROLOGY FOCUS	1
ARCHIVOS DE LA SOCIEDAD ESPANOLA DE OFTALMOLOGIA	1
SEMERGEN	1
CASE REPORTS IN PERINATAL MEDICINE	1
ENDOCRINOLOGY DIABETES AND METABOLISM CASE REPORTS	1
EUROPEAN CARDIOLOGY REVIEW	1

Continued on next page



## SCIENTIFIC PUBLICATIONS

Journal	Nº
REVISTA DE GASTROENTEROLOGIA DE MEXICO	2
JCO PRECISION ONCOLOGY	1
NEW ZEALAND MEDICAL JOURNAL	1
REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA	2
REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA	1
JOURNAL OF OPTOMETRY	1
JOURNAL OF THE ENDOCRINE SOCIETY	1
TURKISH JOURNAL OF EMERGENCY MEDICINE	1
CEN CASE REPORTS	1
JOURNAL OF RADIATION ONCOLOGY	1
DRUG TARGET INSIGHTS	1
CHEMPHOTOCHEM	1
IET PROFESSIONAL APPLICATIONS OF COMPUTING SERIES	1
INFECTIOUS DISEASES AND THERAPY	1
THERAPEUTIC ADVANCES IN INFECTIOUS DISEASE	1
CASE REPORTS IN SURGERY	1
INTERNATIONAL JOURNAL OF NEONATAL SCREENING	2
WORLD JOURNAL OF HEPATOLOGY	1
REVISTA ORL	1
EFORT OPEN REVIEWS	1
JOURNAL OF VASCULAR SURGERY CASES AND INNOVATIVE TECHNIQUES	1
REVISTA LATINOAMERICANA DE HIPERTENSION	1
ULSTER MED J	1

Journal	Nº
EUROPEAN JOURNAL OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY	1
AACE CLINICAL CASE REPORTS	1
MULTIPLE SCLEROSIS JOURNAL - EXPERIMENTAL, TRANSLATIONAL AND CLINICAL	2
FRONTIERS IN BIOSCIENCE - ELITE	1
ENEUROLOGICALSCI	1
ECLINICALMEDICINE	4
PREVENTIVE NUTRITION AND FOOD SCIENCE	1
SARCOMA	1
CURRENT HEART FAILURE REPORTS	1
PEDIATRIC QUALITY & SAFETY	1
ELIFE	1
REVISTA DE ENFERMERÍA Y SALUD MENTAL	1
INDEX DE ENFERMERIA	1
REVISTA PEDIATRÍA ATENCIÓN PRIMARIA	1
<b>TOTAL GENERAL</b>	<b>121</b>



# Clinical practice guidelines

Group	Authors	Title	Journal/Reference
2.01	Fernández Baza, Ana/Fernández-Avilés Díaz, Francisco/Fernández Santos, María Eugenia/Martínez Climent, Batiste Andreu/Sanz Ruiz, Ricardo	Call to action from the cardiovascular reparative medicine community	Cardiopause
2.01	Fernández-Avilés Díaz, Francisco/Zatarain Nicolás, Eduardo	Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations Abordaje de la fibrilación auricular en pacientes con cáncer activo. Documento de consenso de expertos y recomendaciones	Revista Española de Cardiología
2.01	Fernández-Avilés Díaz, Francisco	Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine	Circulation Research
2.01	Fernández-Avilés Díaz, Francisco/Sanz Ruiz, Ricardo	ESC working group on cellular biology of the heart: Position paper for Cardiovascular Research: Tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure	EUROPEAN HEART JOURNAL
2.03	López-Fernández T, Martín-García A, Roldán Rabadán I, Mitrović C, Mazón Ramos P, Díez-Villanueva P, Escobar Cervantes C, Alonso Martín C, Alonso Salinas GL, Arenas M, Arrarte Esteban VI, Ayala de La Peña F, Castro Fernández A, García Pardo H, García-Sanz R, González Porras JR, López de Sá E, Lozano T, Marco Vera P, Martínez Marín V, Mesa Rubio D, Montero Á, Oristrell G, Pérez de Prado A, Velasco Del Castillo S, Virizuela Echaburu JA, Zatarain-Nicolás E, Anguita Sánchez M, Tamargo Menéndez J	Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations.	REV ESP CARDIOL (ENGL ED). 2019;72(9): 749-759

Group	Authors	Title	Journal/Reference
2.03	Sulzgruber P, Wassmann S, Semb AG, Doehner W, Widimsky P, Gremmel T, Kaski JC, Savarese G, Rosano GMC, Borghi C, Kjeldsen K, Torp-Pedersen C, Schmidt TA, Lewis BS, Drexel H, Tamargo J, Atar D, Agewall S, Niessner A	Anticoagulation in patients with non-valvular atrial fibrillation and a CHA2DS2-VASc score of 1 - a current opinion of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy and European Society of Cardiology Council on Stroke	EUR HEART J CARDIOVASC PHARMACOTHER. 2019;5:171-180
2.03	Regitz-Zagrosek V, Roos-Hesselink JW, Bauersachs J, Blomström-Lundqvist C, Cifková R, De Bonis M, Iung B, Johnson MR, Kintscher U, Kranke P, Lang IM, Morais J, Pieper PG, Presbitero P, Price S, Rosano GMC, Seeland U, Simoncini T, Swan L, Warnes CA; ESC Scientific Document Group	Guía ESC 2018 sobre el tratamiento de las enfermedades cardiovasculares durante el embarazo	REV ESP CARDIOL 2019;72:161.E1-E65
2.03	Savarese G, Reiner MF, Uijl A, D'Amario D, Agewall S, Atar D, Baumgartner I, Borghi C, De Carlo M, Drexel H, Kaski JC, Kjeldsen KP, Kucher N, Lund LH, Niessner A, Semb AG, Schmidt TA, Sulzgruber P, Tamargo J, Vitale C, Wassmann S, Aboyans V, Lewis BS	Antithrombotic therapy and major adverse limb events in patients with chronic lower extremity arterial disease: systematic review and meta-analysis from the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy in Collaboration with the European Society of Cardiology Working Group on Aorta and Peripheral Vascular Diseases	EUR HEART J CARDIOVASC PHARMACOTHER 2020;6(2):86-93
2.03	Hollan I, Ronda N, Dessen P, Agewall S, Karpouzias G, Tamargo J, Niessner A, Savarese G, Rosano G, Kaski JC, Wassmann S, Meroni PL	Lipid management in rheumatoid arthritis: a position paper of the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology	EUR HEART J CARDIOVASC PHARMACOTHER. 2020;6(2):104-114
3.01	Hebebrand J, Falissard B, Hoekstra PJ, Kaess M, Melchior M, Micali N, Moreno C, Rommelse N, Roessner V, Signorini G	EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry	European Child and Adolescent Psychiatry, 28(6):731-734
3.01	Arango C, Baeza I, Bernardo M, Cañas F, de Dios C, Diaz-Marsá M, García-Portilla MP, Gutiérrez-Rojas L, Olivares JM, Rico-Villademoros F, Rodríguez-Jiménez R, Sánchez-Morla EM, Segarra R, Crespo-Facorro B	Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain	Revista de Psiquiatría y Salud Mental, 12(2): 92-105

Continued on next page



Group	Authors	Title	Journal/Reference
4.01	Oliver A Cornely, Ana Alastruey-Izquierdo, Dorothee Arenz, Sharon C A Chen, Eric Dannaoui, Bruno Hochhegger, Martin Hoenigl, Henrik E Jensen, Katrien Lagrou, Russell E Lewis, Sibylle C Mellinghoff, Mervyn Mer, Zoi D Pana, Danila Seidel, Donald C Sheppard, Roger Wahba, Murat Akova, Alexandre Alanio, Abdullah M S Al-Hatmi, Sevtaç Arıkan-Akdagli, Hamid Badali, Ronen Ben-Ami, Alexandro Bonifaz, Stéphane Bretagne, Elio Castagnola, Methee Chayakulkeeree, Arnaldo L Colombo, Dora E Corzo-León, Lubos Drgona, Andreas H Groll, Jesús Guinea, Claus-Peter Heussel, Ashraf S Ibrahim, Souha S Kanj, Nikolay Klimko, Michaela Lackner, Frederic Lamoth, Fanny Lanternier, Cornelia Lass-Floerl, Dong-Gun Lee, Thomas Lehrnbecher, Badre E Lmimouni, Mihai Mares, Georg Maschmeyer, Jacques F Meis, Joseph Meletiadiis, C Orla Morrissey, Marcio Nucci, Rita Oladele, Livio Pagano, Alessandro Pasqualotto, Atul Patel, Zdenek Racil, Malcolm Richardson, Emmanuel Roilides, Markus Ruhnke, Seyedmojtaba Seyedmousavi, Neeraj Sidharthan, Nina Singh, János Sinkó, Anna Skiada, Mónica Slavin, Rajeev Soman, Brad Spellberg, William Steinbach, Ban Hock Tan, Andrew J Ullmann, Jörg J Vehreschild, María J G T Vehreschild, Thomas J Walsh, P Lewis White, Nathan P Wiederhold, Theoklis Zaoutis, Arunaloke Chakrabarti, for the Mucormycosis ECMM MSG Global Guideline Writing Group	Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study	Lancet Infect Dis 2019; 19: e405–21

Group	Authors	Title	Journal/Reference
4.01	Carolina García-Vidal <sup>a*</sup> , Ana Alastruey-Izquierdo <sup>b1</sup> , Manuela Aguilar-Guisado <sup>c</sup> , Jordi Carratalà <sup>d</sup> , Carmen Castro <sup>e</sup> , Mario Fernández-Ruiz <sup>f</sup> , José María Aguado <sup>g</sup> , José María Fernández <sup>g</sup> , Jesús Fortún <sup>h</sup> , José Garnacho-Montero <sup>i</sup> , Joan Gavalda <sup>j</sup> , Carlota Gudíold, Jesús Guineak, Alicia Gómez-López <sup>g</sup> , Patricia Muñoz <sup>k</sup> , Javier Pemán <sup>l</sup> , Montserrat Rovira <sup>m</sup> , Isabel Ruiz-Camps <sup>j</sup> , Manuel Cuenca-Estrella <sup>b</sup>	Executive summary of clinical practice guideline for the management of invasive diseases caused by <i>Aspergillus</i> : 2018 Update by the GEMICOMED-SEIMC/REIPI	Enferm Infecc Microbiol Clin. 2019;37(8): 535–541
4.01	Óscar Lena <sup>a</sup> , Ibai Los-Arcos <sup>a</sup> , José María Aguado <sup>b</sup> , Marino Blanes <sup>c</sup> , Marta Bodro <sup>d</sup> , Jordi Carratalà <sup>e</sup> , Elisa Cordero <sup>f</sup> , María Carmen Fariñas <sup>g</sup> , Mario Fernández-Ruiz <sup>h</sup> , Jesús Fortún <sup>h</sup> , Joan Gavalda <sup>g</sup> , Francisco López-Medrano <sup>b</sup> , Rogelio López-Vélez <sup>g</sup> , Carlos Lumbreras <sup>b</sup> , Beatriz Mahillo <sup>j</sup> , María Ángeles Marcos <sup>d</sup> , Pilar Martín-Dávila <sup>h</sup> , José Miguel Montejo <sup>j</sup> , Asunción Moreno <sup>g</sup> , Patricia Muñoz <sup>k</sup> , Francesca Norman <sup>h</sup> , José Luis Pérez-Sáenz <sup>l</sup> , Tomás Pumarola <sup>a</sup> , Núria Sabé <sup>e</sup> , Rafael San-Juan <sup>b</sup> , Elisa Vidal <sup>m</sup> , Beatriz Domínguez-Gil <sup>j</sup> , on behalf of the Transplant Infection Study Group (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC), and the National Transplant Organization (ONT)	Executive summary of the Consensus Statement of the Transplant Infection Study Group (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC) and the National Transplant Organization (ONT) on the Selection Criteria of Donors of Solid Organs in relation to Infectious Diseases	Enferm Infecc Microbiol Clin. 2019 Dec 21;S0213-005X(19)30316-7

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Group	Authors	Title	Journal/Reference
4.01	Cardozo Celia, Cuervo Guillermo, Salavert Miguel, Merino Paloma, Gioia Francesca, Fernández-Ruiz Mario, López-Cortés Luis E, Escola-Verge Laura, Montejo Miguel, Muñoz Patricia, Aguilar-Guisado Manuela, Puerta-Alcalde Pedro, Tasiás Mariona, Ruiz-Gaitán Alba, González Fernando, Puig-Asensio Mireia, Vena Antonio, Marco Francesc, Peman Javier, Fortun Jesús, Aguado José María, Almirante Benito, Soriano Alejandro, Carratala Jordi, García-Vidal Carolina, GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group	An evidence-based bundle improves the quality of care and outcomes of patients with candidaemia	The Journal of antimicrobial chemotherapy
4.01	Burillo Almudena, Muñoz Patricia, Bouza Emilio	Risk stratification for multidrug-resistant Gram-negative infections in ICU patients.	Current opinion in infectious diseases
4.01	Cuervo Guillermo, García-Vidal Carolina, Puig-Asensio Mireia, Merino Paloma, Vena Antonio, Martín-Pena Almudena, Miguel Montejo José, Ruiz Alba, Lázaro-Perona Fernando, Fortun Jesús, Fernández-Ruiz Mario, Isabel Suárez Ana, Castro Carmen, Cardozo Celia, Gudiol Carlota, María Aguado José, Ramón Pano José, Peman Javier, Salavert Miquel, Garnacho-Montero José, Miguel Cisneros José, Soriano Alex, Muñoz Patricia, Almirante Benito, Carratala Jordi, REIPI, GEMICOMED SEIMC Spain	Usefulness of guideline recommendations for prognosis in patients with candidemia	MEDICAL MYCOLOGY
4.01	Bouza Emilio, Ancochea-Bermúdez Julio, Campins Magda María, Eiros-Bouza José, Fargas Jesús, García Rojas Amos José, Gracia Diego, Gutiérrez Sánchez Alipio, Limia Aurora, Antonio López José, del Carmen Magro María, Mirada Gloria, Muñoz Patricia, Olier Eduardo, Ortiz de Lejarazu Rail, Urbiztondo Luis, Palomo Esteban	Vaccines for the prevention of infections in adults: an opinion paper on the situation in Spain	REVISTA ESPAÑOLA DE QUIMIOTERAPIA

Group	Authors	Title	Journal/Reference
4.01	Bouza Emilio, Alonso Sergio, Asensio Ángel, De Juan Guillermo, García Lucio Cristina, Larrosa Coral, López-Iglesias Javier, Muñoz Patricia, Sierra Rosalia, Perianes José, Luis De la Serna José, Palomo Esteban, Gracia Diego	Information on nosocomial infections in the mainstream media: an opinion document	REVISTA ESPAÑOLA DE QUIMIOTERAPIA
4.02	EACS Panel Members	EACS Guidelines 2019	<a href="https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf">https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf</a>
4.02	The Spanish Association for the Study of the Liver	Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH)	DOI: 10.1016/j.gastrohep.2019.09.002
5.01	Silvia Sánchez-Ramón <sup>1</sup> , Arancha Bermúdez <sup>2</sup> , Luis Ignacio González-Granado <sup>3</sup> , Carlos Rodríguez-Gallego <sup>4</sup> , Ana Sastre <sup>5</sup> , Pere Soler-Palacin <sup>6</sup> , ID-Signal Onco-Haematology Group ID-Signal Onco-Haematology Group: Luis Allende, Laia Alsina, Ana María Bielsa, Sara Calleja-Antolin, Carmen Cámara, Javier Carbone, Carmen Carreras, Ana De Andrés Martín, Ángela Deyá, Cristina Díaz de Heredia, Romina Dieli-Crimi, José Luis Díez, Nerea Domínguez-Pinilla, Luis Fernández-Pereira, José M <sup>a</sup> García, Juana Gil-Herrera, Antonio Gutiérrez, Isidro Jarque, Manel Juan, Francisco Lendínez, Pilar Llobet, Mónica López, Ana López de la Guía, Marcos López-Hoyos, Andrea Martín-Nalda, Mónica Martínez, Josefa Melero, Ana Méndez-Echevarría, Pedro Moral, Olaf Neth, María Núñez, Gonzalo Ocejo-Vinyals, Juliana Ochoa-Grullón, Peter Olbrich, Raquel Oña, Manuel Pérez-Encinas, Jaime Pons, Carmen Rodríguez, Berta Sánchez, Juan Luis Santos-Pérez, M Elena Seoane, Alexandru Vlaga	Primary and Secondary Immunodeficiency Diseases in Oncohaematology: Warning Signs, Diagnosis, and Management	Front Immunol. 2019 Mar 26;10:586

Continued on next page

Group	Authors	Title	Journal/Reference
5.02	M <sup>a</sup> Ángeles Muñoz-Fernández.	Documento de consenso del CEVIHP/SEIP/AEP/SPNS respecto al tratamiento antirretroviral en niños y adolescentes infectados por el VIH. Panel de expertos del Colaborativo Español para la Infección VIH Pediátrica (CEVIHP)	Sociedad Española de Infectología Pediátrica (SEIP) de la Asociación Española de Pediatría (AEP) y Secretaria del Plan nacional del Sida
5.03	Alejandro Balsa Criado, Petra Díaz del Campo Fontecha, José María Álvaro-Gracia Álvaro, José Luis Andreu Sánchez, Francisco Javier Blanco García, Laura Cano García, Esmeralda Delgado Frías, José Federico Díaz González, Ana M <sup>a</sup> Fernández Ortiz, Blanca García Magallón, Luis Gómez Carrera, Carlos González Juanatey, M Vanesa Hernández Hernández, Antonio Juan Mas, Francisco Javier Narváez García, Ana Ortiz García, Lucía Silva Fernández, Alejandro Tejedor Varillas	Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide	Guía en formato electrónico y papel
5.07	Alejandro Balsa Criado, Petra Díaz del Campo Fontecha, José María Álvaro-Gracia Álvaro, José Luis Andreu Sánchez, Francisco Javier Blanco García, Laura Cano García, Esmeralda Delgado Frías, José Federico Díaz González, Ana M <sup>a</sup> Fernández Ortiz, Blanca García Magallón, Luis Gómez Carrera, Carlos González Juanatey, M Vanesa Hernández Hernández, Antonio Juan Mas, Francisco Javier Narváez García, Ana Ortiz García, Lucía Silva Fernández, Alejandro Tejedor Varillas	Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide	Guía en formato electrónico y papel

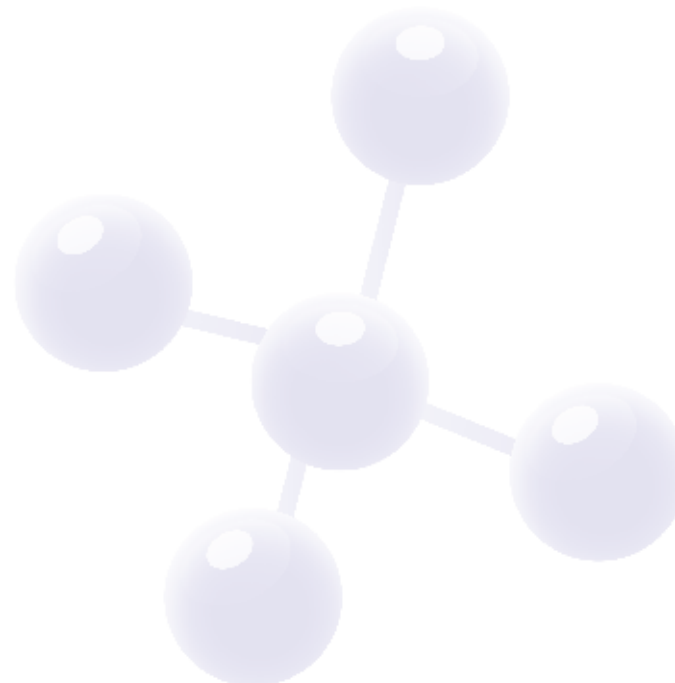
Group	Authors	Title	Journal/Reference
5.07	Alejandro Balsa Criado, Petra Díaz del Campo Fontecha, José María Álvaro-Gracia Álvaro, José Luis Andreu Sánchez, Francisco Javier Blanco García, Laura Cano García, Esmeralda Delgado Frías, José Federico Díaz González, Ana M <sup>a</sup> Fernández Ortiz, Blanca García Magallón, Luis Gómez Carrera, Carlos González Juanatey, M, Vanesa Hernández Hernández, Antonio Juan Mas, Francisco Javier Narváez García, Ana Ortiz García, Lucía Silva Fernández, Alejandro Tejedor Varillas	Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide	Guía en formato electrónico y papel
5.07	Alejandro Balsa Criado, Petra Díaz del Campo Fontecha, José María Álvaro-Gracia Álvaro, José Luis Andreu Sánchez, Francisco Javier Blanco García, Laura Cano García, Esmeralda Delgado Frías, José Federico Díaz González, Ana M <sup>a</sup> Fernández Ortiz, Blanca García Magallón, Luis Gómez Carrera, Carlos González Juanatey, M, Vanesa Hernández Hernández, Antonio Juan Mas, Francisco Javier Narváez García, Ana Ortiz García, Lucía Silva Fernández, Alejandro Tejedor Varillas	Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide	Guía en formato electrónico y papel
6.02	Dominique Farge*, Corinne Frere*, Jean M Connors, Cihan Ay, Alok A Khorana, Andres Muñoz, Benjamin Brenner, Ajay Kakkar, Hanadi Rafii, Susan Solymoss, Dialina Brillhante, Manuel Monreal, Henri Bounameaux, Ingrid Pabinger, James Douketis, and the International Initiative on Thrombosis and Cancer (ITAC) advisory panel	2019 International Clinical Practice Guidelines for the Treatment and Prophylaxis of Venous Thromboembolism in Patients With Cancer	Lancet Oncol 2019 Published Online September 3, 2019 <a href="http://dx.doi.org/10.1016/S1470-2045(19)30336-5">http://dx.doi.org/10.1016/S1470-2045(19)30336-5</a>

Continued on next page



Group	Authors	Title	Journal/Reference
6.02	Press MF, Seoane JA, Curtis C, Quinaux E, Guzman R, Sauter G, Eiermann W, Mackey JR, Robert N, Pienkowski T, Crown J, Martín M, Valero V, Bee V, Ma Y, Villalobos I, Slamon DJ	Assessment of ERBB2/HER2 Status in HER2-Equivocal Breast Cancers by FISH and 2013/2014 ASCO-CAP Guidelines	JAMA Oncol. 2019 Mar 1;5(3): 366-375. doi: 10.1001/jamaoncol.2018.6012
6.02	Chacón López Muñiz JI, Cruz Merino L de la, Gavilá Gregori, Martínez Dueñas E, Oliveira M, Seguí Palmer MA, Álvarez López I, Antolín Novoa S, Bellet Ezquerro M, López-Tarruella S	SEOM clinical guidelines in advanced and recurrent breast cancer (2018)	Clin Transl Oncol 21, 31-45 (2019). <a href="https://doi.org/10.1007/s12094-018-02010-w">https://doi.org/10.1007/s12094-018-02010-w</a>
6.03	Marina Garcia Morin	Guía de recomendaciones de la SEHOP para el tratamiento de la leucemia linfoblástica aguda o bifenotípica del lactante menor de un año	Sociedad española de hematología y oncología pediátricas
7.01	Goicoechea Verde, Luño	Guías de Práctica Clínica en el Manejo Terapéutico de las Enfermedades Glomerulares	Libro ISBN 978-84-1317-082-4, Editorial Circulo Rojo
7.02	Bataller R, Cabezas J, Aller R, Ventura-Cots M, Abad J, Albillos A, Altamirano J, Arias-Loste MT, Bañares R, Caballería J, Caballería L, Carrión JA, Diago M, Fernández Rodríguez C, Gallego R, García-Cortés M, García-Monzón C, Genescà J, Ginés P, Hernández-Guerra M, Jorquera F, Lligoña A, Molina E, Pareja MJ, Planas R, Tomé S, Salmerón J, Romero-Gómez M	Alcohol-related liver disease. Clinical practice guidelines. Consensus document sponsored by AEEH	Gastroenterol Hepatol. 2019 Dec;42(10): 657-676.
7.05B	Niven R, Aubier M, Bonta P, Puente-Maestu L, Facciolongo N, Ryan D.	European Consensus Meeting/ Statement on Bronchial Thermoplasty Who? Where? How?	Respir Med. 2019 Apr;150:161-164. doi: 10.1016/j.rmed.2019.02.020. Epub 2019 Mar 22. PubMed PMID: 30961945

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



# Training: courses, seminars, and one-day training sessions

During 2019, the IISGM Training Committee continued working along the same lines as in previous years to detect specific needs in training.

After requesting information from IISGM researchers by means of a needs analysis, we assessed the results and decided on the areas that were most relevant for the Institute.

These can be seen in the Training Plan 2018 (<http://www.iisgm.com/actualidad/convocatorias-y-formacion/>).

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

As set out in the Training Plan, during 2019, the IISGM offered the following opportunities for training:

- Third edition of the ***Basic Course in Research Methodology***, which tries to cover the needs detected for training in basic areas of methodology in the needs analysis. This essentially practical course lasts 20 hours and is aimed mainly at medical residents and staff members who are in the early stages of their research career.  
Based on a case study, the course addresses review of information sources, design of a research project and database, and basic concepts of statistical analysis, interpretation and representation of results, as well as the synthesis and reporting of the information obtained.
- Fourth edition of the ***Course in Biomedical Research Methodology***, which is organized into 4 modules lasting 80 hours. The course provides advanced training in the basics of biomedical research methodology. The format of the course enables it to cover the all areas from the initial research hypothesis to publication of results.
- Fifth edition of the ***Course on Biomedical Research Instrumental Techniques***, which aims to provide researchers with data on the main instrumental techniques and the various research platforms of the IISGM.
- Second edition of the ***Advanced Course on Surgery for Research With Rodents***, which aims to train the student in experimental surgery with laboratory animals.

The course is practical in nature and addresses various surgical and microsurgical techniques.

- First edition of the ***Course on the Basics and Application of Flow Cytometry in Biomedical Research***.
- Pilot edition: ***Practical Course in Biomedical Research for Veterinarians***. The course lasts 500 hours and is aimed specifically at graduates in veterinary medicine who have completed their studies during the 3 years before the beginning of the course. The main objective is that the student acquire knowledge and skills that are highly practical and applicable, enabling him/her to acquire a solid grounding for future integration in an experimental research team.

The IISGM has the ideal facilities, equipment, and staff for organizing training activities at the highest level. Therefore, its human and material resources can be appropriately managed to design competitive and high-quality training. The course has very specific elements that set it apart from the range of courses provided by health research institutes and could eventually become a reference in the field of postgraduate training for veterinarians.

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

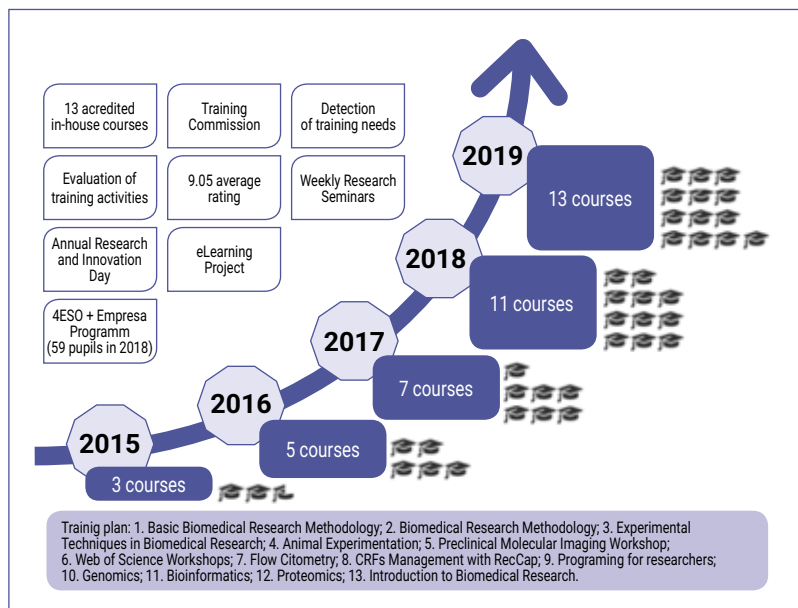
Other courses provided included the following:

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





## TRAINING



## COURSES

Title	No. of Editions	Duration (in hours)	Students' Evaluation (maximum 10 points)
Basic Course in Biomedical Research Methodology	2	24	8.9
Course in Biomedical Research Methodology	5	80 (in 4 modules)	8.025
Course in Experimental Techniques in Biomedical Research	5	24	8.2
Course on Animal Experimentation	3	24	8.1
Advanced Course on Advanced Surgery in Rodents	2	30	9.5
Workshop: Introduction to Preclinical Molecular Imaging and its Application in Biomedical Research	1	80	8.1
Course on the Basics and Application of Flow Cytometry in Biomedical Research	1	20	9.5

## WORKSHOPS

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

# Doctoral theses defended

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
1.01	Ph Thesis	Ana Ortega Gil	Optimization of $\mu$ CT imaging systems for soft-tissue dedicated tasks.	Vaquero López, Juan José	UC3M	25/07/2019
1.01	Ph Thesis	Abraham Merino Torres	Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus	Correa Rocha, Rafael Desco Menéndez, Manuel	UC3M	09/07/2019
1.01	Bachelor Thesis	Diana Méndez Araki	Caracterización del modelo Poly I:C Estudio volumétrico y de difusión mediante imagen por resonancia magnética.	Soto Montenegro, María Luisa	UCM	03/06/2019
1.01	Bachelor Thesis	Sandra López Cacerada	Papel del estrés oxidativo y la senescencia celular en la fisiopatología de la esquizofrenia	Romero Miguel, Luis Diego	UAH	02/07/2019
1.02	Ph Thesis	Lancho Gallego, Alejandro	Fundamental limits of short-packet wireless communications	Koch, Tobias	UC3M	24/06/2019
1.02	Ph Thesis	Villacres Estrada, Grace	Capacity Limits of Bursty Interference Channels	Koch, Tobias	UC3M	11/04/2019
1.02	Ph Thesis	Akyildiz, Ömet Deniz	Sequential and adaptive Bayesian computation for inference and optimization	Míguez Arenas, Joaquín	UC3M	11/03/2019
1.02	Ph Thesis	Liu, Yanfang	On Generalized LDPC Codes for Ultra Reliable Communication	Koch, Tobias Martínez Olmos, Pablo	UC3M	31/01/2019

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
2.01	Ph Thesis	Ana Casado Plasencia	Evaluación de la seguridad y eficacia de la infusión intracoronaria de células madre residentes cardíacas en pacientes con infarto agudo de miocardio y disfunción ventricular	Francisco Jesús Fernández-Avilés Díaz Ricardo Sanz Ruiz	UCM	19/12/2019
2.03	Ph Thesis	Raquel García Utrilla	El factor de transcripción Tbx20 regula selectivamente la expresión de los canales cardíacos hERG y la densidad de la IKr posible implicación del gen TBX20 en el Síndrome de	Eva Delpon Mosquera, Juan Tamargo Menéndez, Ricardo Caballero Collado	UCM	26/11/2019
2.06	Ph Thesis	Irene Bretón Lesmes	Gestación tras la cirugía bariátrica, evolución clínica y nutricional	Luis Antonio Álvarez-Sala Walther, Miguel Ángel Rubio Herrera Alfonso Calle	UCM	19/12/2019
3.01	Ph Thesis	María Covadonga Martínez Díaz-Caneja	Efectos secundarios de tipo metabólico asociados al tratamiento con antipsicóticos de segunda generación en niños, adolescentes y adultos	Celso Arango López	UCM	01/02/2019

Continued on next page



Group	Type	Candidate	Title	Name/s director/s	University	Date defended
3.01	Ph Thesis	José De Arriba Enriquez	Productividad científica y calidad en servicios en salud mental: Estudio de la asociación entre la actividad científica en psiquiatría, y la calidad asistencial sanitaria prestada a pacientes en servicios de psiquiatría en hospitales españoles	Celso Arango López	UC3M	01/03/2019
3.01	Ph Thesis	Alejandra Laorden Nieto	Caracterización del rendimiento neuropsicológico en personas con síndrome de deleción 22q11.2	David Fraguas Herraiz, María Mayoral Aragón, Juan José Carballo Belloso	UCM	01/03/2019
4.01	Ph Thesis	Estefanía Abascal	Integración de estrategias de secuenciación de genoma completo para optimizar el conocimiento de las dinámicas de transmisión de Mycobacterium tuberculosis y para profundizar en el estudio de la complejidad clonal en la infección por este patógeno	Dario García de Viedma del Alamo	UCM	01/01/2019
4.01	Ph Thesis	María Ángeles Bordallo Cardona	Aproximación fenotípica y molecular a la inducción y detección de resistencia a equinocandinas en Candida glabrata	Pilar Escribano Martos, Jesús Vicente Guinea Ortega	UCM	01/01/2019

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
5.01	Ph Thesis	Esther Calderón	Evaluación del ácido fólico como modulador de las funciones efectoras de macrófagos	Amaya Rocio Puig Kröger	UAM	01/09/2019
5.02	Ph Thesis	Julia Díaz Miravalls	Descripción de las neumonías adquiridas en la comunidad por Staphylococcus aureus en niños	David Aguilera Alonso	UCM	01/06/2019
5.06		Marta Fernández Castillo	Estudio de los mecanismos inmunológicos del Síndrome Coronario Agudo, sus estados patológicos y enfermedades asociadas	Rafael Correa Rocha	DIVERSOS ORGANISMOS OFICIALES	27/02/2019
5.06	Ph Thesis	Abraham Merino López	Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus	Manuel Desco Menéndez, Rafael Correa Rocha	UC3M	09/07/2019
5.06	Ph Thesis	Rebeca Kennedy Batalla	Perfil inmunológico de pacientes pediátricos con ictiosis. Estudio del efecto de terapias pioneras sobre la clínica y la desregulación inmune observada en ictiosis	Rafael Correa Rocha	UAH	20/02/2019
5.06	Ph Thesis	Jimena Pérez Moreno	Papel de las células T reguladoras en la alergia de las proteínas de la leche de vaca no mediada por IGE en la infancia	Cesar Sánchez Sánchez, Rafael Correa Rocha	UCM	06/09/2019

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## DOCTORAL TESIS DEFENDED

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
5.07	Ph Thesis	Julia Díaz Miravalls	Descripción de las neumonías adquiridas en la comunidad por <i>Staphylococcus aureus</i> en niños	David Aguilera Alonso	UCM	01/06/2019
5.07		Jimena Pérez Moreno	Papel de las células T-reguladoras en la alergia a proteínas de leche de vaca no IgE mediada en la infancia		UCM	06/09/2019
7.04	Ph Thesis	Jimena Pérez Moreno	Papel De Las Células T Reguladoras En La Alergia De Las Proteínas De La Leche De Vaca No Mediada Por IGE En La Infancia	Cesar Sánchez Sánchez, Rafael Correa Rocha	UCM	06/09/2019
7.11	Ph Thesis	Pablo Medrano Martínez	Alteraciones neuropsicológicas en la narcolepsia con cataplejía estudio de casos y controles	María Rosa Peraita Adrados MJ Ramos Platón	UCM	22/03/2019
7.16	Ph Thesis	Irene González Del Pozo	Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardíaca	María Begoña Quintana Villamandos, Juan Francisco Del Cañizo López	UCM	18/09/2019

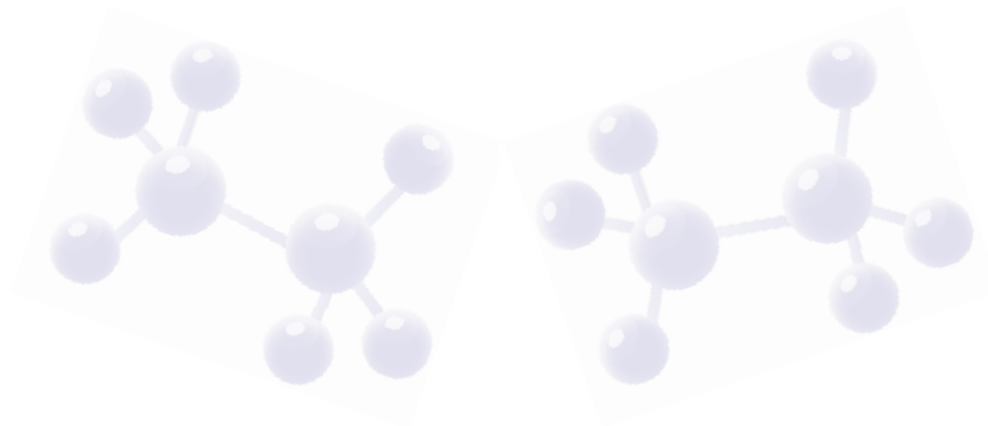
Group	Type	Candidate	Title	Name/s director/s	University	Date defended
7.18	Ph Thesis	Juan Laso Pérez	Comparación del efecto de profol o sevoflurano sobre la lesión histológica, respuesta inflamatoria y hemodinámica hepática en un modelo porcino de «Small for flow Syndrome»	Luis Enrique Olmedilla Arnal, José Manuel Asencio Pascual, María Cruz García Martín	UCM	27/11/2019
7.25	Ph Thesis	Irene González Del Pozo	Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardíaca	María Begoña Quintana Villamandos, Juan Francisco Del Cañizo López	UCM	18/09/2019
7.27	Ph Thesis	Bartosz Kaczmarczyk	Identificación de polimorfismos en el gen DPYD en pacientes con toxicidad grave a fluoropirimidinas	Luis Andrés López Fernández, Eva Miedes Vicente	UPM	11/07/2019
7.27	Ph Thesis	María Belén Marzal Alfaro	Modelo de excelencia en la atención farmacéutica al paciente oncohematológico en el ámbito hospitalario	Irene Iglesias Peinado, Vicente Escudero Vilaplana, Carmen Guadalupe Rodríguez González	UCM	03/04/2019

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Group	Type	Candidate	Title	Name/s director/s	University	Date defended
7.27	Ph Thesis	Roberto Collado Borrell	Diseño e implantación de una aplicación móvil para el seguimiento farmacoterapéutico de pacientes en tratamiento con antineoplásicos orales	Vicente Escudero Vilaplana, Rosa María Romero Jiménez, Irene Iglesias Peinado	UCM	21/10/2019
8	Master Thesis	Susana Arias Rivera	Adaptación y validación de escalas de fragilidad en pacientes críticos ingresados en unidades de cuidados intensivos de España	María Nieves Moro Tejedor	URJC	15/07/2019
8	Master Thesis		Percepción del ambiente educacional de los estudiantes de enfermería durante su periodo de prácticas asistenciales	María Dolores González Baz	UCM	10/06/2019

Group	Type	Candidate	Title	Name/s director/s	University	Date defended
8	Bachelor Thesis		Plan de cuidados estandarizado: paciente hospitalizado con crisis miasténica	María Dolores González Baz	UCM	03/06/2019
8	Bachelor Thesis		Revisión bibliográfica de la atención al paciente con delirium	María Dolores González Baz	UCM	04/06/2019
8	Bachelor Thesis		La enfermera escolar: situación actual y necesidades de la población infantil	Raquel López Sánchez	Universidad de Oviedo	18/11/2019
8	Bachelor Thesis		Cuidados de enfermería en el paciente oncológico pediátrico y la integración de la terapia asistida con animales	Raquel López Sánchez	Universidad de Oviedo	17/07/2019
8	Bachelor Thesis		La función de la enfermera en el proceso de triaje	Raquel López Sánchez	Universidad de Oviedo	17/07/2019



# Cooperative research structures

Group	Type (RETICS, CIBER, others)	Name of Network	Role
1.01	Platform	Innovación en Tecnologías Médicas y Sanitarias (ITEMAS)	Collaborating group
1.01	CIBER	Salud Mental (CIBERSAM)	Collaborating group
1.02	CIBER	CIBERSAM	Others (Only Antonio Artés Rodríguez)
2.01	CIBER	CIBERCV. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares. CB16/11/00292	Coordinating group
2.01	RETICS	Red de Terapia Celular (Ter CEL) RD16/0011/0029	Collaborating group
2.01	Others	Red de Formación Interdisciplinaria en Regeneración Cardíaca (EUIN2017-88719)	Collaborating group
2.02	CIBER	CIBER de Enfermedades Cardiovasculares (CIBERCV)	Collaborating group
2.02	COST	ADMIRE (BM1301)	Collaborating group
2.03	CIBER	Enfermedades Cardiovasculares CB16/11/00303.	Collaborating group
2.05	CIBER	CIBERCV (ENFERMEDADES CARDIOVASCULARES)	Associated group
4.01	CIBER	CIBERES	Collaborating group
4.01	RETIC	REPI	Others:active researchers
4.01	Platform	Spanish Clinical Research Network (SCReN)	Collaborating group
4.01	Others	RESITRA (Red Cooperativa de Infección en Paciente trasplantado)	Collaborating group
4.02	RETICS	Red Española de Investigación en SIDA (RIS). RD16/0025/0017	Collaborating group
5.01	RETICS	Red de Investigación en Inflamación y Enfermedades Reumáticas. RIER RD16/0012/0007	Collaborating group

Group	Type (RETICS, CIBER, others)	Name of Network	Role
5.01	Other	International Network for Strategic Initiatives in Global HIV Trials (INSIGHT)	Collaborating group
5.02	RETICS	RETIC-RIS - Red de Investigación en SIDA	Collaborating group
5.02	RED	RED IBEROAMERICANA DE CIENCIA Y TECNOLOGIA PARA EL DESARROLLO (CYTED)	Coordinating group
5.02	CIBER	CIBER BBN	Associated group
5.02	Platform	Red Nacional de Biobancos	Coordinating group
5.02	Others (ISBER)	International Society for Biological and Environmental Repositories	Associated group
5.07	RETICS	Red de Investigación en SIDA	Associated group
5.07	Others (Scientific Societies Networks)	Red pediátrica para la prevención, diagnóstico precoz y tratamiento del VIH en niños.	Coordinating group
5.07	Others (Scientific Societies Networks)	Pediatric Tuberculosis Network European Trialsgroup	Coordinating group
5.07	Others (Scientific Societies Networks)	Red Española de Estudio de la Tuberculosis pediátrica	Coordinating group
5.07	Others (Scientific Societies Networks)	Grupo de Estudio EREMITA (Estudio de Tuberculosis Resistente en Niños de la Comunidad de Madrid)	Coordinating group
5.07	Others (Scientific Societies Networks)	Estudio de la influencia genética en la infección grave en pediatría	Coordinating group
5.07	Others (Scientific Societies Networks)	RED de Infección Congénita por CMV	Coordinating group
5.07	Others (Scientific Societies Networks)	Pediatric European Network Treatment on AIDS	Coordinating group
5.07	Others (Scientific Societies Networks)	Estudio de la Infección Meningocócica	Coordinating group
5.07	Others (Scientific Societies Networks)	Pediatric infections Staphylococcus aureus metilicin resistance ESPID	Coordinating group

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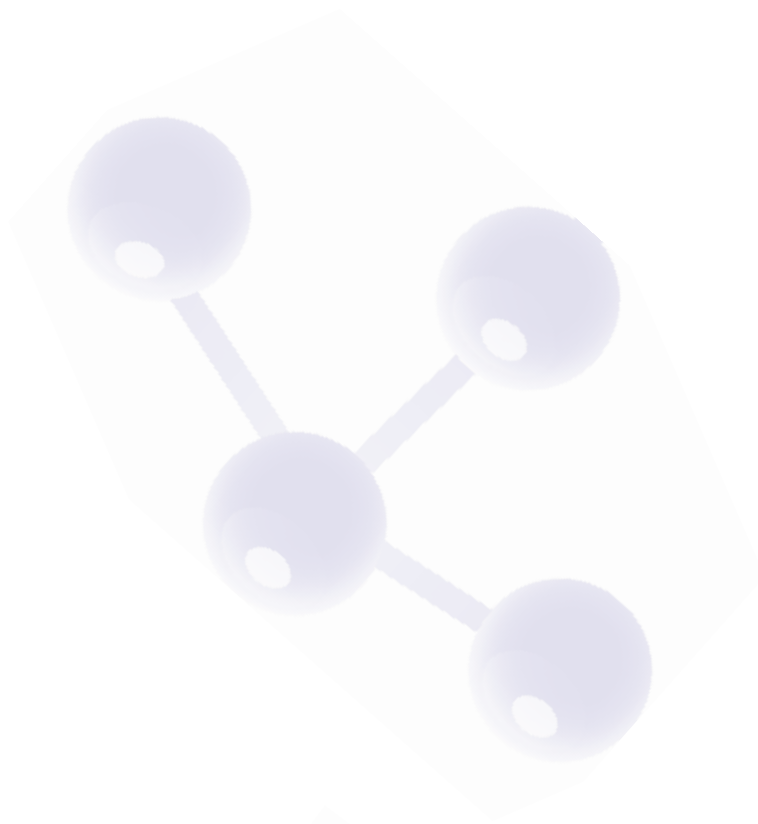
Group	Type (RETICS, CIBER, others)	Name of Network	Role
5.07	Others (Scientific Societies Networks)	Estudio de los aspectos neurocognitivos en la Cohorte de infección VIH Pediátrica	Coordinating group
5.07	Others (Scientific Societies Networks)	Red para el estudio de la enfermedad invasiva por SGA.	Coordinating group
5.07	Others (Scientific Societies Networks)	Red Nacional para el Estudio de la infección osteoarticular	Coordinating group
5.07	Others (Scientific Societies Networks)	Estudio Multicéntrico retrrospectivo y prospectivo de los factores epidemiológicos clínicos, analíticos y microbiológicos determinantes de la respuesta al tratamiento de la enfermedad de Kawasaki y el riesgo del desarrollo de aneurismas coronarios en niños menores de 14 años de nuestro medio .	Coordinating group
5.07	Others (Scientific Societies Networks)	Red europea de ZIKA	Coordinating group
5.07	Others (Scientific Societies Networks)	Red de Giardiasis pediátrica Nacional	Coordinating group
5.07	Others (Scientific Societies Networks)	Grupo de infecciones en drepanocitosis	Associated group
5.07	Others (Scientific Societies Networks)	Red de Investigación Traslacional en Infecciones Pediátricas	Associated group
5.07	Others (Scientific Societies Networks)	Red Nacional de estudio de Infección congénita por CMV	Associated group
5.07	Others (Scientific Societies Networks)	Registro Nacional de casos de infección por ZIKA en el embarazo y recién nacido	Associated group
5.07	Others (Scientific Societies Networks)	Sickle cell disease Pediatric Research about INfections Group	Coordinating group
6.02	RETICS	Redes Temáticas de Investigación Cooperativa en Salud en el Area de Cáncer. RD12/0036/0076	Collaborating group
6.02	CIBER	CIBERONC CB16/12/00471	Collaborating group

Group	Type (RETICS, CIBER, others)	Name of Network	Role
6.03	Others (Internacional Consortium)	ICISTEM - International Collaboration to guide and investigate the potential for HIV cure by Stem Cell Transplantation	Collaborating group
6.03	CIBER	CIBERER (CIBER de Enfermedades Raras)	Collaborating group
6.03	CSUR (Centers, Services and Reference Units. Comunidad de Madrid)	CSUR de Eritropatología Hereditaria	Collaborating group
7.01	RETICS	REDINREN	Collaborating group
7.01	Others (Scientific Societies Networks)	Consortio para la Investigación del Fracaso Renal Agudo (CIFRA). Comunidad de Madrid	Collaborating group
7.02	CIBER	CIBEREHD	Fully fledged group Program Coordinator
7.04	RETICS	Red de salud Maternoinfantil y del Desarrollo III	Collaborating group
7.04	Others	Red de Salud Maternoinfantil y del Desarrollo (Red Samid [Mother and Child and Developmental Health Network])	Collaborating group
7.04	Other	Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPIC [Latin American Network for the Study of Cardiorespiratory Arrest in Infancy]).	Collaborating group
7.05B	RETICS	REDISEC Red de investigación en enfermedades crónicas	Associated group
7.05B	Others (Red de la Comunidad de Madrid)	GENOBIA Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos con riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas. Aporte del análisis genético GENOBIA	Collaborating group Coordinating group (Network training activities)
7.05B	Others	EPOCONSUL Spanish clinical audit on the medical care for COPD patients	Associated group

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## COOPERATIVE RESEARCH STRUCTURES

Group	Type (RETICS, CIBER, others)	Name of Network	Role
7.05B	Others	CHACOS Study Group. Grupo de estudio para la caracterización del fenotipo mixto asma-epoc	Associated group
7.05B	Others	SPANISH SLEEP NETWORK	Collaborating group
7.05B	Others (Red privada financiada por Sanofi)	Registro informatizado de pacientes con enfermedad tromboembolica (RIETE)	Associated group
7.21	CIBER	CIBERFES. Fragilidad y envejecimiento saludable	Collaborating group
7.22	CIBER	CIBERFES. Fragilidad y envejecimiento saludable	Collaborating group
7.22	Plataform	Spanish Clinical Research Network (SCReN)	Collaborating group
7.25	Platform	Innovación en Tecnologías Médicas y Sanitarias (ITEMAS) PT13/0006/0001	Collaborating group
7.27	Platform	Spanish Clinical Research Network (SCReN)	Collaborating group
7.29	CIBER	CIBERES (Enfermedades Respiratorias). CB06/06/1084	Collaborating group
8	Platform	Spanish Clinical Research Network (SCReN)	Collaborating group





# 4

## Scientific Activity by Area



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

**Nursing group**



# AREA 1

Area coordinator:  
**Manuel Desco Menéndez**

## Biomedical Engineering

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

These characteristics are evidenced by the considerable number of joint publications with other groups and areas of the Institute. 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.

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

# 1.01. Advanced technological applications and human health

Group director: **MANUEL DESCO MENÉNDEZ**

Organisms involved: **HGUGM - UC3M**

Type: **Consolidated Group**

## Research lines

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

The work of this group is aimed mainly at research into medical imaging techniques, in terms of both developing new technology and processing methods and practical applications for clinical practice and biomedical research.

The group comprises researchers from very disparate fields (eg, physicians, engineers, physicists, and biologists) who belong to Universidad Carlos III and to Hospital Gregorio Marañón. Professionals from both entities work together to constitute the IISGM. The group's clearly multidisciplinary character creates a strong connection with real clinical and preclinical needs. Collaboration with hospitals and other biomedical research centers facilitates rapid validation of results and has generated several successful cases of technology transfer to industry.

Consequently, the group has a wide range of imaging and processing techniques, some of which were obtained before they became commercially available. These techniques enable the group to offer advanced imaging services to internal and external research groups.

Research activity is based on 3 major lines: imaging support for clinical research, development of imaging tool technology, and biomedical research projects that require preclinical molecular imaging.

## Group members

- **Abella García, Mónica:** R3. Senior Researcher.
- **Albadalejo Gracia, Virginia:** R1.
- **Arévalo Gracia, Alicia:** Other. Superior Support Technician.
- **Calle Hernández, Daniel:** Other. Superior Support Technician.
- **Cantón Lobera, Patricia:** R1.
- **Carmona Cañabate, Susana:** R3. Miguel Servet I.
- **Carravilla Expósito, Eva:** Other. Support Technician.
- **Carretero Gómez, Laura:** Other. Other.
- **Cómitre Mariano, Blanca:** Other.
- **Casquero Veiga, Marta:** R1. Predoctoral.
- **Concepción Brito, Manuel:** Other. Other.
- **Cussó Mula, Lorena:** R3. Senior Researcher.
- **Descó Menéndez, Manuel:** R4. Senior Researcher/Group Director.
- **Díez Santiago, Esther:** Other. Management.
- **Felipe Maestre, M<sup>a</sup> de la Jara:** Other. Support Technician.
- **Fernández Del Cerro, Carlos:** Other.
- **Fernández Maraver, Elisa:** Other.
- **Fernández Pena, Alberto:** R1. Predoctoral.
- **Francisco López, Alexandra de:** Other. Support Technician.

Continued on next page



## Group members (cont.)

- **Gallardo Alguacil, Begoña:** Other.
- **García Díez, Tatiana:** Other. Data Management.
- **García López de Haro, Carlos Javier:** Other.
- **García Mato, David:** R1. Research Staff in Training UC3M.
- **García Sevilla, Mónica:** R1. Predoctoral.
- **Garrido Huerta, Trajana:** Other. Management.
- **Gómez de Mariscal, Estíbaliz:** R1. Research Staff in Training UC3M.
- **Gómez Gaviro, María Victoria:** R3. Senior Researcher.
- **Gómez Rangel, Vanessa:** Other. Other.
- **González Arjona, Mario:** Other. Research Assistant.
- **González Gutiérrez, María Isabel:** R1. Other.
- **Guerrero Martín, Juan:** Other.
- **Herreros Pérez, Desiré:** R1.
- **Lamanna Rama, Nicolás:** R1.
- **Macías Gordaliza, Pedro:** R1. Predoctoral.
- **Marcos Vidal, Asier:** R1. Research Staff in Training UC3M.
- **Marcos Vidal, Luis:** R1. Predoctoral.
- **Martín de Blas, Daniel:** Other. Other.
- **Martínez García, Magdalena:** Other. Predoctoral.
- **Martínez Martínez, Álvaro:** R1. Superior Support Technician.
- **Martínez Sánchez, Cristóbal:** R1. Research Staff in Training UC3M.
- **Moreno Berdón, Patricia:** Other. Other.

- **Moreno Camacho, Jorge:** Other. Support Technician.
- **Muñoz Barrutia, Arrate:** R3. Senior Researcher.
- **Navas Sánchez, Francisco Javier:** Other. Other.
- **Navascués Lauzet, Hugo Jorge de:** Other.
- **Noguero Soler, Inés:** Other.
- **Ortega Gil, Ana:** R1. Others: I-Pfis.
- **Pascau González-Garzón, Javier:** R3. Senior Researcher.
- **Paternina Die, M<sup>a</sup> del Carmen:** R1. Training.
- **Pérez Benito, David:** R1. Predoctoral.
- **Pérez Urbina, Beatriz:** Other.
- **Piol, Alessandro:** R1. Other.
- **Ramos Calderón, Manuel:** Other.
- **Ripoll Lorenzo, Jorge:** R4. Senior Researcher.
- **Rodríguez Casaú, Elena:** Other. Data Management.
- **Rolín Ferrer, Daniel:** Other. Support Technician.
- **Romero Miguel, Luis Diego:** R1. Training.
- **Ruiz Alba, M<sup>a</sup> Teresa:** Other.
- **Sakaltras, Nokolaos:** R1. Other.
- **Salinas Rodríguez, Beatriz:** R3. Senior Researcher.
- **Santos Coquillat, Ana María:** R2.
- **Sierra Palomares, Yolanda:** Other. Support Technician.
- **Sobrino Gorricho, Gorka:** Other. Superior Support Technician.
- **Soto Montenegro, María Luisa:** R3. Miguel Servet II.
- **Vaquero López, Juan José:** R4. Senior Researcher.



### Research Projects – Competitive Calls

- Title: **ASPIDE: exAScale Programing models for extreme Data procEssing** H2020 ASPIDE  
Director: Desco Menéndez, Manuel  
Project type: European research project  
Funding body: European Commission (Framework Program)  
Start date: 15/06/2018  
End date: 14/12/2020
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Desco Menéndez, Manuel  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Nuevo sistema de tomografía por rayos X portátil** DTS17/00122  
Director: Desco Menéndez, Manuel  
Project type: Technology Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Contribución funcional de los microquimerismos maternos a la respuesta al daño cardiaco** PI18/00462  
Director: Gómez Gavira, María Victoria  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Entrenamiento y navegación quirúrgica para una medicina de precisión** PI18/01625  
Director: Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Evolución y bases hormonales de la remodelación cerebral gestacional en mujeres y sin riesgo de trastorno mental posparto** PI17/00064  
Director: Carmona Cañabate, Susana  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **¿Es posible prevenir el riesgo de aparición de la esquizofrenia durante la gestación? Estudios en un modelo animal de esquizofrenia?** PI17/01766  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Diagnóstico de la bacteriemia por Gram positivos mediante nuevos trazadores PET selectivos.** PI16/02037.  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Predoctoral contract** FI18/00255  
Director: Martínez García, Magdalena  
Project type: Human Resourcest  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **The effects of pregnancy on the human brain** CP16/00096  
Director: Carmona Cañabate, Susana



Project type: Research project

Funding body: Instituto de Salud Carlos III

Start date: 01/01/2017

End date: 31/12/2019

- Title: **Cannabidiol como estrategia preventiva en la aparición de psicosis** DRO2017/085  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Ministerio de Sanidad, Servicios Sociales e Igualdad  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Ingeniería de datos inspirada en el cerebro.** S2013/ICE-2958 CM  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: Consejería Educación de la Comunidad de Madrid  
Start date: 14/11/2014  
End date: 14/11/2018
- Title: **Laboratorio de sondas moleculares** . EQC2019-006674-P  
Director: Desco Menéndez, Manuel  
Project type: Research project  
Funding body: MICINN  
Start date: 05/06/2019  
End date: 31/12/20
- Title: **Diagnosis and treatment follow-up of severe Staphylococcal Infections with Anti-Staphylococcal 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: 31/12/20
- 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: 31/12/2021

- Title: **Ejercicio físico y N-acetil cisteína como terapias preventivas en la aparición de esquizofrenia durante la adolescencia: estudios preclínicos de imagen molecular y de comportamiento** FAK16/01  
Director: Soto Montenegro, María Luisa  
Project type: Research project  
Funding body: Fundación Alicia Koplowitz  
Start date: 20/10/2016  
End date: 30/03/2019
- Title: **Miguel Servet contract «The effects of pregnancy on the human brain»** MS16/00096  
Director: Carmona Cañabate, Susana  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Técnico de imagen óptica (confocal y spim)** PEJ2018-003117-A  
Director: Calle Hernández, Daniel  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Gestión y procesamiento de datos de neuroimagen en entorno cloud** PEJ2018-003141-A  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Nuevas sondas moleculares en imagen preclínica** PEJ2018-004151-A  
Director: Desco Menéndez, Manuel



Project type: Human Resources

Funding body: MICINN

Start date: 01/01/2019

End date: 31/12/2021

- Title: **Contratación de investigadores Posdoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-POST/BMD-9592  
Director: Salinas Rodríguez, Beatriz  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-7899  
Director: Soto Montenegro, María Luisa  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9077  
Director: Desco Menéndez, Manuel  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI)** PEJD-2018-PRE/BMD-9401  
Director: Carmona Cañabate, Susana  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2021

### **Not managed by FIBHGM**

- Title: **SENSITIVE: Early Detection of cancer onset based on sensing field cancerization at the organ level**  
Director: Ripoll, Jorge  
Project type: Research project  
Funding body: European Commission  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Desarrollo de una plataforma de terapia génica para enfermedades genéticas renales.** RTC-2017- 6600-1  
Director: Muñoz Barrutia, Arrate  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Realidad aumentada para entornos de planificación, simulación, entrenamiento y navegación quirúrgica: HoloMed.** IND2018/TIC-9753.  
Director: : Pascau González-Garzón, Javier  
Project type: Research project  
Funding body: Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Utilización de técnicas de imagen avanzada en pequeño animal de laboratorio para aplicaciones cardiovasculares**  
Director: Desco Menéndez, Manuel / Cussó, Lorena  
Project type: Research project  
Funding body: Fundación CNIC  
Start date: 01/01/2017  
End date: 31/12/2020
- Title: **Plataforma computacional para la caracterización de la dinámica espacio-temporal de las protusiones celulares.**  
Director: Muñoz Barrutia, Arrate  
Project type: Research project





Funding body: BBVA Foundation  
 Start date: 01/01/2017  
 End date: 31/12/2019

- Title: **Descifrando la estructura y la función de las protusiones celulares en la migración tridimensional.** TEC2015-73064-EXP  
 Director: Muñoz Barrutia, Arrate  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Imagen óptica 3D ultrarrápida con información de fase en microscopía in-vivo** FIS2016-77892  
 Director: Ripoll Lorenzo, Jorge / Moscoso, M. A..  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2016  
 End date: 31/12/2020
- Title: **Imagen paramétrica del cerebro embrionario: una nueva propuesta de instrumentación biomédica de altas prestaciones (IMPENABLE)** TEC2016-78052-R  
 Director: Muñoz Barrutia, Arrate / Vaquero López, Juan José  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2016  
 End date: 31/12/2019
- Title: **Nuevos escenarios de tomografía por rayos X (NEXT)** DPI2016-79075-R  
 Director: Abella García, Mónica  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2016  
 End date: 31/12/2019
- Title: **Programa Garantía Juvenil** PEJ2018-001759-A  
 Director: Pascau González-Garzón, Javier (Anxela Caldera Fernández)

Project type: Human Resources  
 Funding body: MICINN  
 Start date: 01/10/2019  
 End date: 31/10/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
 Director: Desco 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 (Nikolaos Sakaltras)  
 Project type: Human Resources  
 Funding body: UC3M  
 Start date: 03/09/2018  
 End date: 02/09/2022
- Title: **Programa para Personal Investigador Postdoctoral)**  
 Director: Pascau González-Garzón, Javier (Fernández Fernández, Roberto)  
 Project type: Human Resources  
 Funding body: Comunidad de Valencia  
 Start date: 01/09/2018  
 End date: 31/08/2021
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
 Director: Abella García, Mónica (Mónica García Sevilla)  
 Project type: Human Resources  
 Funding body: UC3M  
 Start date: 17/08/2018  
 End date: 17/08/2022
- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**  
 Director: Muñoz Barrutia, Arrate (Estibaliz Gómez de Mariscal)



## 1.01. ADVANCED TECHNOLOGICAL APPLICATIONS AND HUMAN HEALTH

Project type: Human Resources

Funding body: UC3M

Start date: 18/09/2017

End date: 17/09/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Pascau González-Garzón, Javier (David García Mato)

Project type: Human Resources

Funding body: UC3M

Start date: 07/09/2017

End date: 06/09/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Vaquero López, Juan José(David Pérez Benito)

Project type: Human Resources

Funding body: UC3M

Start date: 01/09/2017

End date: 31/08/2021

- Title: **Programa para Personal Investigador Predoctoral en Formación (PIPF UC3M)**

Director: Abella García, Mónica (Cristóbal Martínez Sánchez)

Project type: Human Resources

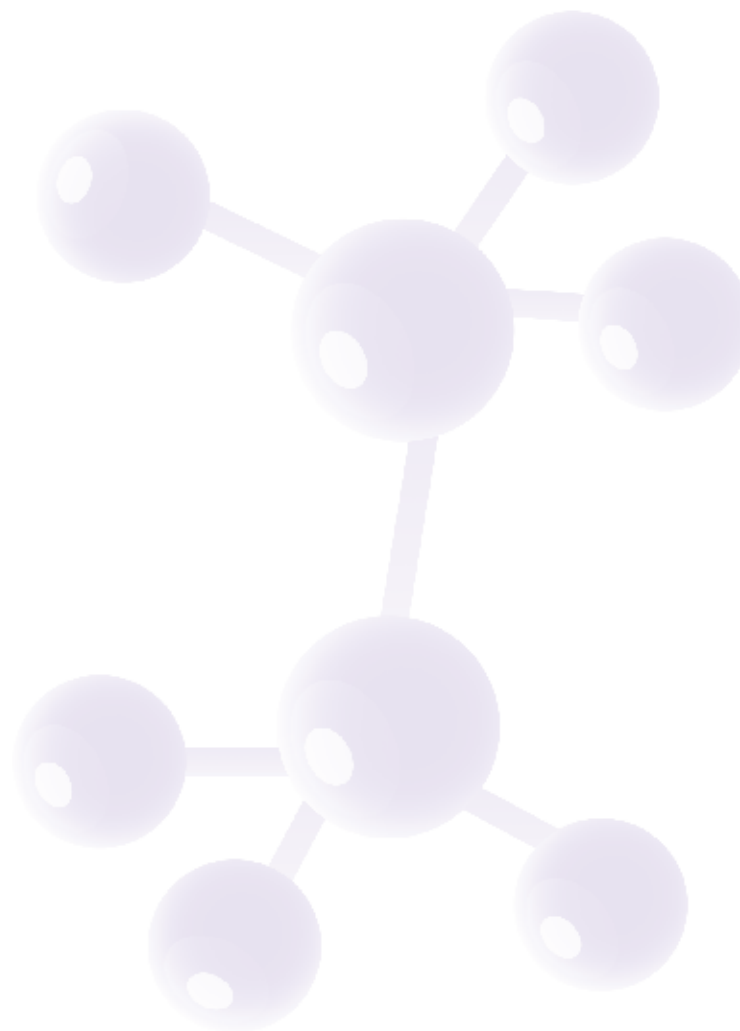
Funding body: UC3M

Start date: 01/02/2017

End date: 31/01/2021

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
Plataformas ISCIII	Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS)	Collaborating group
CIBER	CIBERSAM. CIBER Salud Mental	Collaborating group



## Industrial And Intellectual Property Registrations

### Industrial property

Title	Reference*	Owner	Inventors
Aparato de tomografía multimodalidad	P200502612 (Family with 10 patents)	FIBHGM - Sociedad Española de Electromedicina y Calidad, S.A.	Juan José Vaquero, Manuel Desco
Incubadora para imagen con radiación no ionizante	PCT/ ES2007/070214 (Family with 3 patents)	FIBHGM	Juan José Vaquero, Manuel Desco, Manuel Sánchez-Luna
Aparato de adquisición de datos para tomografía computerizada por emisión de radiación gamma y su funcionamiento	P200702836	FIBHGM - Universidad Politécnica de Madrid	Juan José Vaquero, Manuel Desco, Pedro Guerra, Andrés de Santos, Giancarlo Sportelli
Procedimiento y dispositivo para la detección y discriminación de eventos válidos en detectores de radiación gamma	PCT/ ES2009/070456 (Family with 2 patents)	FIBHGM	Eduardo Lage, Gustavo Tapias, José Antonio Sánchez, Javier del Pino, Juan José Vaquero, Manuel Desco
Método para visualizar la información contenida en imágenes tridimensionales del corazón	P201000363 (Family with 4 patents)	FIBHGM - Universidad Politécnica de Madrid	Esther Pérez, Ángel Arenal, Javier Bermejo, Francisco Fernández-Avilés, Manuel Desco, M <sup>a</sup> Jesús Ledesma, Andrés de Santos, José Luis Rubio

Title	Reference*	Owner	Inventors
Ciclotrón clásico superconductor compacto	P201330626 (Family with 2 patents)	UC3M - CIEMAT	Manuel Desco, 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	P201730341 (Family with 2 patents)	FIBHGM - UC3M	Manuel Desco, Mónica Abella
Light Sheet Microscope and procedure for extended samples	P201830912, 21/09/2018	UC3M	Jorge Ripoll Lorenzo
Mobile 3D imaging system based on light sheet microscopy	P201830913, 21/09/2018	UC3M	Jorge Ripoll Lorenzo
Celda centelleadora	PCT/ ES2017/070623	UC3M	Georgios Konstantinou, Juan José Vaquero, Rigoberto Chil, Manuel Desco
Equipo y simulación para control de hemorragias	P201730568	FIBHGM - Medical Simulator	Manuel Desco, Juan Francisco del Cañizo
Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P 2017 31161 (2 patents family)	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maiz, Francisco Jesús, Fernández-Avilés Díaz

■ Transferred patents.

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



## 1.01. ADVANCED TECHNOLOGICAL APPLICATIONS AND HUMAN HEALTH

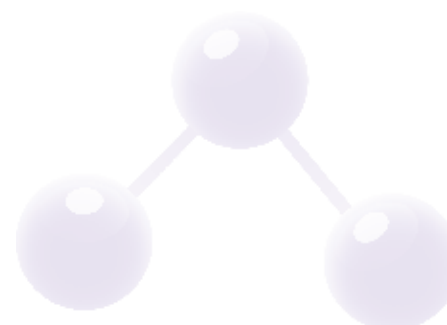
### Intellectual property

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

■ Transferred Intellectual Property.

### Doctoral theses, Bachelor thesis and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Ana Ortega Gil	Optimization of $\mu$ CT imaging systems for soft-tissue dedicated tasks	Vaquero López Juan José	UC3M	25/07/2019
Ph Thesis	Abraham Merino Torres	Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus	Correa Rocha Rafael, Desco Menéndez Manuel	UC3M	09/07/2019
PFC	Diana Méndez Araki	Caracterización del modelo Poly I:C. Estudio volumétrico y de difusión mediante imagen por resonancia magnética	Soto Montenegro María Luisa	UCM	03/06/2019
PFC	Sandra López Cacerrada	Papel del estrés oxidativo y la senescencia celular en la fisiopatología de la esquizofrenia	Romero Miguel Lis Diego	UAH	02/07/2019



Publications		Total Impact Factor: 114.7	
	Nº	IF	
Own publications	15	49.7	
Joint publications	12	65.1	
First decile publications	5	43.6	
First quartile publications	15	84.2	
Second quartile publications	9	25.7	
Third quartile publications	2	3.8	
Fourth quartile publications	1	1.1	
Nonindexed publications / No IF	5	-	
<b>Total publications (including those without IF)</b>	<b>32</b>	<b>114.7</b>	

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- Hu, J; Gorsak, T; Rodríguez, EM; Calle, D; Muñoz-Ortiz, T; Jaque, D; Fernández, N; Cusso, L; Rivero, F; Torres, RA; Sole, JG; Mertelj, A; Makovec, D; Desco, M; Lisjak, D; Alfonso, F; Sanz-Rodríguez, F; Ortgies, DH. Magnetic Nanoplatelets for High Contrast Cardiovascular Imaging by Magnetically Modulated Optical Coherence Tomography. CHEMPHOTOCHEM. 2019; 3(7) 529-539. (Article).
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  - Gordaliza, PM; Vaquero, JJ; Sharpe, S; Gleeson, F; Muñoz-Barrutia, A. Tuberculosis Lesions in CT Images Inferred using 3D-CNN and Multi-Task Learning. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).
  - Polatoglu, MN; Liu, Y; Ni, RQ; Ripoll, J; Rudin, M; Wolf, M; Ren, WW. Simulation of Fluorescence Molecular Tomography using a Registered Digital Mouse Atlas. PROCEEDINGS OF SPIE. 2019; 11072 -. (Proceedings Paper).
  - Arias-Valcayo, F; Herraiz, JL; Galve, P; Vaquero, JJ; Desco, M; Udias, JM. Awake preclinical brain PET imaging based on point sources. PROCEEDINGS OF SPIE. 2019; 11074 -. (Proceedings Paper).





## 1.02. Signal processing

Group director: **ANTONIO ARTÉS RODRÍGUEZ**

Organisms involved: **UC3M**

Type: **CONSOLIDATED (IN THE PROCESS OF INTEGRATION) GROUP**

### Research lines

- ▶ L1: Merging of data from monitoring devices.
- ▶ L2: Data mining in psychiatry.
- ▶ L4: Monitoring.
- ▶ L4: Ambulatory monitoring with wearable devices.
- ▶ L5: Diagnostic support in patients with heart arrhythmias.
- ▶ L6: Signal processing and application of machine learning in medicine.

The Signal Processing and Learning Group focuses its research and teaching activity in the following areas: detection, modification and classification of signals and images, machine learning, computational statistics in signal processing, information theory and related applications in communications, medicine, geophysics or social sciences

### Group members

- **Artés Rodríguez, Antonio:** R4. Senior Researcher.
- **Barrejón Moreno, Daniel:** R1. Research Support Technician.
- **Bonilla Escribano, Pablo:** R1. Research Support Technician.
- **Campaña Montes, Juan José:** Industrial Doctorate CAM.
- **Carretero Villajos, Patricia:** R1. Industrial Doctorate CAM.
- **Chao, Qi:** R1. Postdoctoral researcher.
- **Cobo Aguilera, Aurora:** R2. Pre-doctoral researcher.

- **Hernanz Mayoral, Carlos Andrés.**
- **Koch, Tobías.**
- **Lancho Serrano, Alejandro:** R3. Research Support Technician.
- **Liu, Yanfang:** R2.
- **López Santiago, Javier:** R2.
- **López Yela, Alberto:** R2. Researcher Doctor.
- **Martínez Olmos, Pablo:** R1.
- **Martínez Ordóñez, José Alberto:** R3. Research Support Technician.
- **Míguez Arenas, Joaquín:** R3.
- **Moreno Martínez, Ángela:** R3. Research Support Technician.
- **Moreno Muñoz, Pablo:** R1. Pre-doctoral researcher.
- **Moreno Pino, Fernando:** R1. Pre-doctoral researcher.
- **Omer Deniz, Akyldiz:** R2. Research Support Technician.
- **Peis Aznarte, Ignacio:** R1. Pre-doctoral researcher.
- **Pérez Cruz, Fernando:** R1.
- **Pérez Vieites, Sara:** R3. Research Support Technician.
- **Ramírez García, David:** R1.
- **Ravi, Jithin:** R3. Postdoctoral researcher.
- **Rodríguez de Diago, Marta:** R2. Research Assistant.
- **Romero Medrano, Lorena:** R1. Industrial Doctorate CAM.
- **Sukey, Emese:** R2. Researcher.
- **Vázquez Romero, Adrián:** R1.
- **Vázquez López, Manuel:** R2.
- **Vázquez Vilar, Gonzalo:** R3.
- **Villacrés Estrada, Grace:** R3.
- **Yanez Montesdeoca, Alberto:** R1. Research Support Technician.



### Research Projects – Competitive Calls

#### Not managed by the FIBHGM

- Title: **Machine Learning Frontiers in Precision Medicine** H2020-MSCA-ITN-2018 Grant Agreement N°813533  
Director: Artés Rodríguez, Antonio  
Project type: European research project  
Funding body: Comisión Europea  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Advanced Bayesian computation methods for modelling and inference in complex dynamical networks** N00014-19-1-2226  
Director: Míguez Arenas, Joaquín  
Project type: European research project  
Funding body: Comisión Europea  
Start date: 01/03/2017  
End date: 28/02/2022
- Title: **LOLITA: Information Theory for Low-Latency Wireless Communications** ERC-2016-StG Nr. 714161  
Director: Artés Rodríguez, Antonio  
Project type: European research project  
Funding body: Comisión Europea  
Start date: 01/03/2017  
End date: 28/02/2022
- Title: **Aprendizaje máquina y computación masiva para medicina personalizada y análisis cuantitativo del clima** RTI2018-099655-B-I00  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Detección precoz de Crisis de Autismo**  
Director: Martínez Olmos, Pablo  
Project type: Research project  
Funding body: Fundación Universia  
Start date: 29/04/2019  
End date: 30/04/2020
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models**  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: Fundación BBVA  
Start date: 30/04/2019  
End date: 30/04/2021
- Title: **PRACTICO-CM Psiquiatría Computacional y Modelos Integrales de Comportamiento** Y2018/TCS-4705  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Change-point Management (CAIMAN)** TEC2017-86921-C2-2-R  
Director: Ramírez García, David  
Project type: Research project  
Funding body: MINECO  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Micro-fundamentos del comportamiento: Un enfoque basado en las TICs para entender el comportamiento humano y la interacción (aMBITION)** TEC2017-92552-EXP  
Director: Artés Rodríguez, Antonio  
Project type: Research project  
Funding body: CASI-CAM-CM  
Start date: 01/11/2018  
End date: 31/12/2020
- Title: **Caracterización automática de comportamiento mediante modelos latentes basados en redes profundas** IND2017/TIC-7618



Director: Martínez Olmos, Pablo  
 Project type: Research project  
 Funding body: Comunidad de Madrid  
 Start date: 16/02/2018  
 End date: 15/02/2021

- Title: **Finite-length iterative decoding: fundamental limits, practical constructions and inference (FLUID)** TEC-2016-78434-C3-3-R  
 Director: Martínez Olmos, Pablo; Vázquez Vilar, Gonzalo  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Advanced Bayesian computation methods for estimation, prediction and control in multi-sensor complex system (ADVENTURE)** TEC2015-69868-C2-1-R  
 Director: Artés Rodríguez, Antonio  
 Project type: Research project  
 Funding body: MINECO  
 Start date: 01/01/2016  
 End date: 31/12/2019
- Title: **Metodologías de aprendizaje automático en neuroimagen** PEJ2018-001757-A  
 Director: Martínez Olmos, Pablo  
 Project type: Human Resources  
 Funding body: MICINN  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Young employment contract: Research Assistant** PEJ-2018-AI/TIC-11059  
 Director: Artés Rodríguez, Antonio  
 Project type: Human Resources  
 Funding body: MICINN  
 Start date: 15/01/2019  
 End date: 30/04/2020

- Title: **Detection of behavioral changes and its application in psychiatry** IND2018/TIC-9574  
 Director: Ramírez García, David  
 Project type: Human Resources  
 Funding body: Dirección General de Investigación e Innovación. Comunidad de Madrid  
 Start date: 04/02/2019  
 End date: 03/02/2022
- Title: **Domain Alignment and Data Wrangling with Deep Generative Models** IND2018/TIC-9649  
 Director: Martínez Olmos, Pablo  
 Project type: Human Resources  
 Funding body: Dirección General de Investigación e Innovación. Comunidad de Madrid  
 Start date: 04/02/2019  
 End date: 03/02/2022

### Cooperative Research Structures

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

### Industrial and intellectual property registrations

#### Industrial Property

Title	Reference*	Owner	Inventors
Sistema y método para la detección automática de patrones electrofisiológicos anómalos Aparato de tomografía multimodalidad	P201731161	FIBHGM - UC3M	Gonzalo Ricardo Ríos Muñoz, Antonio Artés Rodríguez, Ángel Arenal Maiz, Francisco Jesús Fernández-Avilés Díaz

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

### Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/S Director/S	University	Date defended
Ph Thesis	Lancho Gallego Alejandro	Fundamental limits of short-packet wireless communications	Koch Tobias	UC3M	24/06/2019
Ph Thesis	Villacres Estrada Grace	Capacity Limits of Bursty Interference Channels	Koch Tobias	UC3M	11/04/2019
Ph Thesis	Akyildiz Ömer Deniz	Sequential and adaptive Bayesian computation for inference and optimization	Miguez Arenas Joaquin	UC3M	11/03/2019
Ph Thesis	Liu Yanfang	On Generalized LDPC Codes for Ultra Reliable Communication	Koch Tobias, Martínez Olmos Pablo	UC3M	31/01/2019

### Publications

Total Impact Factor: 36.5

	Nº	IF
Own publications	6	24.8
Joint publications	3	11.7
First decile publications	0	-
First quartile publications	4	20.7
Second quartile publications	5	15.8
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>11</b>	<b>36.5</b>

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

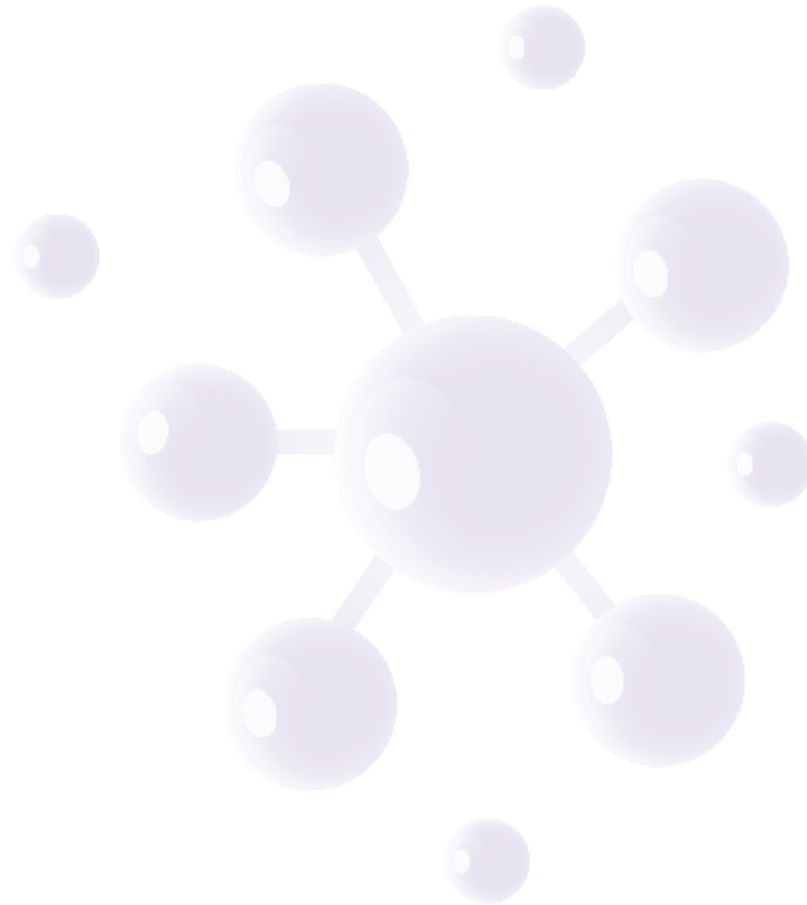
- Peis, I; Olmos, PM; Vera-Varela, C; Barrigon, ML; Courtet, P; Baca-García, E; Artes-Rodríguez, A. Deep Sequential Models for Suicidal Ideation From Multiple Source Data. *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*. 2019; 23(6) 2286-2293. FI: 5.223. Cuartil: 1. (Article).
- Luengo, D; Rios-Muñoz, G; Elvira, V; Sánchez, C; Artes-Rodríguez, A. Hierarchical Algorithms for Causality Retrieval in Atrial Fibrillation Intracavitary Electrograms. *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*. 2019; 23(1) 143-155. FI: 5.223. Cuartil: 1. (Article).
- Bonilla-Escribano, P; Ramírez, D; Sedano-Capdevila, A; Campana-Montes, JJ; Baca-García, E; Courtet, P; Artes-Rodríguez, A. Assessment of e-Social Activity in Psychiatric Patients. *IEEE JOURNAL OF BIOMEDICAL AND HEALTH INFORMATICS*. 2019; 23(6) 2247-2256. FI: 5.223. Cuartil: 1. (Article).
- Eguizabal, A; Lameiro, C; Ramírez, D; Schreier, PJ. Source Enumeration in the Presence of Colored Noise. *IEEE SIGNAL PROCESSING LETTERS*. 2019; 26(3) 475-479. FI: 3.105. Cuartil: 2. (Article).
- Geiger, BC; Koch, T. On the Information Dimension of Stochastic Processes. *IEEE TRANSACTIONS ON INFORMATION THEORY*. 2019; 65(10) 6496-6518. FI: 3.036. Cuartil: 2. (Article).
- Liu, YF; Olmos, PM; Koch, T. A Probabilistic Peeling Decoder to Efficiently Analyze Generalized LDPC Codes Over the BEC. *IEEE TRANSACTIONS ON INFORMATION THEORY*. 2019; 65(8) 4831-4853. FI: 3.036. Cuartil: 2. (Article).
- Vázquez-Vilar, G; Fábregas, AGI; Verdu, S. The Error Probability of Generalized Perfect Codes via the Meta-Converse. *IEEE TRANSACTIONS ON INFORMATION THEORY*. 2019; 65(9) 5705-5717. FI: 3.036. Cuartil: 2. (Article).
- Garg, V; Santamaría, I; Ramírez, D; Scharf, LL. Subspace Averaging and Order Determination for Source Enumeration. *IEEE TRANSACTIONS ON SIGNAL PROCESSING*. 2019; 67(11) 3028-3041. FI: 5.028. Cuartil: 1. (Article).



- Moreno-Pino, F; Porras-Segovia, A; López-Esteban, P; Artes, A; Baca-García, E. Validation of Fitbit Charge 2 and Fitbit Alta HR Against Polysomnography for Assessing Sleep in Adults With Obstructive Sleep Apnea. JOURNAL OF CLINICAL SLEEP MEDICINE. 2019; 15(11) 1645-1653. FI: 3.586. Cuartil: 2. (Article).

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

- Horstmann, S; Ramírez, D; Schreier, PJ; Pries, A. Two-channel passive detection of cyclostationary signals in noise with spatio-temporal structure. CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS. 2019; 1333-1337. (Proceedings Paper).
- Lancho, A; Ostman, J; Koch, T; Vázquez-Vilar, G. Finite-Blocklength Approximations for Noncoherent Rayleigh Block-Fading Channels. CONFERENCE RECORD OF THE ASILOMAR CONFERENCE ON SIGNALS SYSTEMS AND COMPUTERS. 2019; 815-819. (Proceedings Paper).



# 1.03. Computer architecture, communications, and systems: ARCOS

Group director: JESÚS CARRETERO PÉREZ

Organisms involved: UC3M

Type: CONSOLIDATED (IN THE PROCESS OF INTEGRATION) GROUP

## Research lines

### Axis 1: High-performance processing

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

### Axis 2: Medical image processing

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

### Axis 3: Epidemic simulators

- Line 1: Simulation of influenza with social information.

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 ([www.repara-project.eu](http://www.repara-project.eu)) 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:** FPU.
- **Calderón Mateos, Alejandro:** Postdoctoral.
- **Carretero Pérez, Jesús:** Senior Researcher.
- **Expósito Singh, David:** Postdoctoral.
- **Fernández Muñoz, Javier:** Postdoctoral.
- **García Blas, Francisco Javier:** Postdoctoral.
- **García Carballeira, Félix:** Senior Researcher.
- **García Fernández, Alberto.**
- **García Sánchez, José Daniel:** Postdoctoral.
- **Gómez Carrasco, Carlos.**
- **Isaila Florín:** Postdoctoral.
- **Li, Xin.**
- **Llopis Sanmillán, Pablo.**
- **Ortiz Nieto, Daniel.**
- **Rodrigo Duro, Francisco José.**
- **Sánchez García, Luis Miguel**
- **Serrano López, Estefanía:** FPU.
- **Sotomayo Fernández, Rafael.**

### Publications

Total Impact Factor: 17.0

	Nº	IF
Own publications	4	14.7
Joint publications	1	2.3
First decile publications	1	6.1
First quartile publications	2	9.9
Second quartile publications	3	7.2
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>7</b>	<b>17.0</b>

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

- Cascajo, A; Singh, DE; Carretero, J. Performance-Aware Scheduling of Parallel Applications on Non-Dedicated Clusters. ELECTRONICS. 2019; 8(9) -. FI: 2.412. Cuartil: 2. (Article).
- González-Compean, JL; Telles, O; López-Arevalo, I; Morales-Sandoval, M; Sosa-Sosa, VJ; Carretero, J. A policy-based containerized filter for secure information sharing in organizational environments. FUTURE GENERATION COMPUTER SYSTEMS-THE INTERNATIONAL JOURNAL OF ESCIENCE. 2019; 95 430-444. FI: 6.125. Cuartil: 1. (Article).
- Caino-Lores, S; Carretero, J; Nicolae, B; Yildiz, O; Peterka, T. Toward High-Performance Computing and Big Data Analytics Convergence: The Case of Spark-DIY. IEEE ACCESS. 2019; 7 156929-156955. FI: 3.745. Cuartil: 1. (Article).
- Melo, A; Carretero, J; Stenstrom, P; Ranka, S; Ayguade, E. Trends on heterogeneous and innovative hardware and software systems. JOURNAL OF PARALLEL AND DISTRIBUTED COMPUTING. 2019; 133 362-364. FI: 2.296. Cuartil: 2. (Editorial Material).
- Singh, DE; Carretero, J. Combining malleability and I/O control mechanisms to enhance the execution of multiple applications. JOURNAL OF SYSTEMS AND SOFTWARE. 2019; 148 21-36. FI: 2.45. Cuartil: 2. (Article).

### Publications of the main WOS collection in journals without impact factor

- García-Blas, J; Astorga, DD; García, JD; Carretero, J. Exploiting stream parallelism of MRI reconstruction using GrPPI over multiple back-ends. IEEE-ACM INTERNATIONAL SYMPOSIUM ON CLUSTER CLOUD AND GRID COMPUTING. 2019; 631-637. (Proceedings Paper).
- Carretero, J; Jeannot, E; Zomaya, A. Ultrascale Computing Systems Preface. IET PROFESSIONAL APPLICATIONS OF COMPUTING SERIES. 2019; 24 1-7. (Editorial Material).



# 1.04. Nonparametric statistical and intensive computing techniques

Group director: JUAN ROMO URROZ

Organisms involved: UC3M

Type: CONSOLIDATED (IN THE PROCESS OF INTEGRATION) GROUP

## Research lines

### Axis 1: Big data

- ▶ Line 1: Genetic studies with massive databases
- ▶ Line 2: Design of genetic networks.
- ▶ Line 3: Analysis and selection of polymorphisms.

### Axis 2: Analysis of complex data

- ▶ Line 1: Analysis of functional data.
- ▶ Line 2: Analysis of microarray data.
- ▶ Line 3: Analysis of images.

### Axis 3: Survival analysis

- ▶ Line 1: Study of the efficacy of treatment using confidence intervals.
- ▶ Line 2: Definition of reliability measures and associated comparisons.
- ▶ Line 2: Use of MAP models for analysis of the appearance of events.

## Group members

- Aguilera Morillo, Carmen: Postdoctoral.
- Arribas Gil, Ana: Postdoctoral.
- Cabana Garceran Del Vall, Elisa: Predoctoral.
- Lillo Rodríguez, Rosa Elvira: Senior Researcher.
- Mingotti, Nicola: Others.
- Rodríguez César, Joanna: Predoctoral.
- Romo Urroz, Juan: Senior Researcher.
- Sguera Carlo: Postdoctoral.
- Strzalkovska Kominiak, Ewa: Other.

## Publications

Total Impact Factor: 4.9

	Nº	IF
Own publications	1	1,6
Joint publications	1	3,3
First decile publications	0	-
First quartile publications	1	3,3
Second quartile publications	1	1,6
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>2</b>	<b>4.9</b>

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

- Valencia, D; Lillo, RE; Romo, J. *A Kendall correlation coefficient between functional data*. ADVANCES IN DATA ANALYSIS AND CLASSIFICATION. 2019; 13(4) 1083-1103. FI: 1.603. Cuartil: 2. (Article).
- Ieva, F; Paganoni, AM; Romo, J; Tarabelloni, N. *roahd Package: Robust Analysis of High Dimensional Data*. R JOURNAL. 2019; 11(2) 291-307. FI: 3.312. Cuartil: 1. (Article).







# AREA 2

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

## Biomedical Engineering

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

A particularly interesting characteristic of this Area is its cooperative spirit. Its main group coordinates the national Red de Investigación Cardiovascular (RIC [*Cooperative Network for Research on Cardiovascular Disease*]) for the study of cardiovascular diseases, which is funded by the Instituto de Salud Carlos III. Of particular interest, this area includes basic research groups belonging to the Universidad Complutense and envisages wide-ranging agreements with American universities for the development of an ambitious program for the generation of artificial organs (SABIO Project). In addition to such important ongoing projects, the Area of Cardiovascular Diseases has forged an ambitious set of objectives for the coming years, including promotion of basic research laboratories, increased funding from the EU's Seventh Framework Programme for Research and Technological Development, and development of a model for the evaluation and identification of intellectual property products.

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

# Groups in AREA 2

## 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 infants
- ▶ 2.06. Blood lipids and cardiovascular risk
- ▶ 2.07. Acute cerebral ischemia. Stroke



## 2.01. Natural history of heart disease

Group director: FRANCISCO FERNÁNDEZ AVILES DÍAZ

Organisms involved: HGUGM

Type: Consolidated Group

### Research lines

#### Axis 1: Consolidation of research lines in cardiovascular diseases

- ▶ L1: Consolidation of the basic research area.
- ▶ L2: Leading national and European research projects.
- ▶ L3: Consolidation of the translational research area of the cardiac cellular electrophysiology area.
- ▶ L4: Maintenance and consolidation of scientific output.
- ▶ L5: Diversification of funding sources by consolidating several PIs.

#### Axis 2: Consolidation of Training

- ▶ L1: Increase in the offer for postgraduate training.
- ▶ L2: Encourage temporary stays for researchers at prestigious laboratories.

#### Axis 3: Consolidation of infrastructures

- ▶ L1: Final distribution and equipping of the Bioartificial Organ Laboratory.

#### Axis 4: R&D&i

- ▶ L1: Development of a model for evaluating and identifying intellectual property products.
- ▶ L2: Development of spin-off models with hospitals and universities.

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: Others. Laboratory technician.
- Alonso García, Andrés: R1. First Stage Researcher.
- Alcón Durán, Blanca: 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.
- Bajarano Arosemena, Roberto Andrés: R1.
- Benito Vicente, Yolanda: R1. First Stage Researcher.
- Bermejo Thomas, Javier: R3. Established Researcher.
- Bruña Fernández, Vanesa: R1. First Stage Researcher.
- Carta Bergaz, Alejandro: R1. First Stage Researcher.
- Castrodeza Calvo, Javier: R2. Recognised Researcher.
- Chacón Tomé, Carmen: Other. Project manager CAM.
- Chazo Paz, Christian: R1. First Stage Researcher.
- Corisco Beltrán, Rafael: R1. First Stage Researcher.
- Cuenca Parra, Sofía: R2. Recognised Researcher.
- Datino Romaniega, Tomás: R3. Established Researcher.
- Delgado Montero, Antonia: R2. Recognised Researcher.
- De la Pava Isaza, Yiran Sebastián: R1. First Stage Researcher.
- Devesa Cordero, Carolina: R1. First Stage Researcher.
- Díez del Hoyo, Felipe: R1. First Stage Researcher.

Continued on next page



### Group members (cont.)

- **Elizaga Corrales, Jaime:** R3. Established Researcher.
- **Espinosa Castro, M<sup>a</sup> Ángeles:** R2. Recognised Researcher.
- **Fernández Ávila, Ana Isabel:** R2. Recognised Researcher.
- **Fernández Baza, Ana María:** Other. Research project manager.
- **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.
- **Fernández-Yáñez García-Monge, Juan:** R2. Recognised Researcher.
- **Gabaldón Badiola, Álvaro:** R1. First Stage Researcher.
- **García Carreño, Jorge:** R1. First Stage Researcher.
- **García del Rey, M<sup>a</sup> Carmen:** R1. First Stage Researcher.
- **García Díaz, Alejandro José:** R1. First Stage Researcher.
- **García Montero, Marta:** R1. First Stage Researcher.
- **Garnacho Gómez, Luis Jorge:** R1. First Stage Researcher.
- **Gómez Carrillo, Víctor:** R1. First Stage Researcher.
- **Gómez Cid, Lidia:** R1. First Stage Researcher.
- **Gómez González, Cristina:** R1. First Stage Researcher.
- **Gómez Sánchez, Roberto:** R1. First Stage Researcher.
- **González Casal, David:** R1. First Stage Researcher.
- **González Mansilla, Ana:** R2. Recognised Researcher.
- **González Pinto, Ángel:** R3. Established Researcher.
- **González Saldívar, Hugo Orlando:** R2. Recognised Researcher.
- **González Torrecilla, Esteban:** R3. Established Researcher.
- **Grigorian Shamagian, Lilian:** R2. Recognised Researcher.
- **Gutiérrez Ibañes, Enrique:** R3. Established Researcher.
- **Herrera Flores, Cristian:** R1. First Stage Researcher.
- **Hurtado Martín, Marta:** Others.

- **Juárez Fernández, Miriam:** R2. Recognised Researcher.
- **Jurado Álvarez, Elena:** R1. First Stage Researcher.
- **López García, Juan Carlos:** R1. First Stage Researcher.
- **Lorca Gutiérrez, Rebeca:** R2. Recognised Researcher.
- **Loughlin Ramírez, Gerard Álvaro:** R1. First Stage Researcher.
- **Luna López, Raquel:** R1. First Stage Researcher.
- **Martín de Miguel, Irene:** R1. First Stage Researcher.
- **Martín Manzano, Virginia Milagros:** R1. First Stage Researcher.
- **Martínez Climent, Batiste Andreu:** R2. Recognised Researcher.
- **Martínez Solano, Jorge:** R1. First Stage Researcher.
- **Martínez-Legazpi Aguilo, Pablo:** R3. Established Researcher.
- **Martínez-Selles d'Oliveira Soares, Manuel:** R3. Established Researcher.
- **Matarín Uclés, Francisco:** Other. Research project manager.
- **Mateos Gailán, Roberto:** R1. First Stage Researcher.
- **Méndez Fernández, Irene:** R2. Recognised Researcher.
- **Mombiela Ramírez de Ganuza, Teresa:** R2. Recognised Researcher.
- **Muñoz López, Irene:** R1. First Stage Researcher.
- **Navas Tejedor, Paula:** R2. Recognised Researcher.
- **Oliver Ruiz, José María:** R2. Recognised Researcher.
- **Ortiz Bautista, Carlos:** R2. Recognised Researcher.
- **Pareja Malagón, Ana Miriam:** Other. Laboratory technician.
- **Pérez David, Esther:** R3. Established Researcher.
- **Pérez del Villar Moro, M<sup>a</sup> Candelas:** R3. Established Researcher.
- **Piña Lancho, M<sup>a</sup> Jesús:** R2. Recognised Researcher.
- **Plasencia Martín, Virginia:** Other. Laboratory technician.
- **Postigo Esteban, Andrea:** R1. First Stage Researcher.
- **Prieto Arévalo, Raquel:** R1. First Stage Researcher.
- **Rivera Juárez, Allan Roberto:** R2. Recognised Researcher.

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## Group members (cont.)

- **Ríos Muñoz, Gonzalo Ricardo:** R2. Recognised Researcher.
- **Rodríguez González, Elena:** R2. Recognised Researcher.
- **Sánchez de la Nava, Ana María:** R1. First Stage Researcher.
- **Sanz Ruiz, Ricardo:** R3. Established Researcher.
- **Sobrino González, Olga:** R1. First Stage Researcher.
- **Soriano Triguero, Javier:** R2. Recognised Researcher.
- **Sousa Casanovas, Iago:** R2. Recognised Researcher.
- **Souto Aguado, Myriam.**
- **Suárez Sancho, Susana:** R1. First Stage Researcher.
- **Tamargo Delpón, M<sup>a</sup> Amalia:** R1. First Stage Researcher.
- **Valero Masa, M<sup>a</sup> Jesús:** R2. Recognised Researcher.
- **Vázquez Álvarez, M<sup>a</sup> Eugenia:** R3. Established Researcher.
- **Vázquez Castaño, Alexandra:** R1. First Stage Researcher.
- **Vélez Tapia, Samuel Antonio.**
- **Vicent Alaminos, M<sup>a</sup> Lourdes.**
- **Villa Arranz, Adolfo:** R3. Established Researcher.
- **Zatarain Nicolás, Eduardo:** R2. Recognised Researcher.

## Research Projects – Competitive Calls

- Title: **CARDIATEAM-IMI2-821508** H2020-JTI-IMI2-2017  
Director: Bermejo Thomas, Javier  
Project type: European research project  
Funding body: 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: 30/06/2021
- 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: **Artificial intelligence drive platform for atrial fibrillation stratification** EIT HEALTH AF-FINE  
Director: Atienza Fernández, Felipe  
Project type: European research project  
Funding body: Unión Europea  
Start date: 01/07/2019  
End date: 01/01/2021
- Title: **CORIFY: Solving Cardiac Arrhythmias** CI17/00027  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Fundación La Caixa  
Start date: 01/04/2017  
End date: 30/04/2019
- Title: **Desarrollo clínico de una terapia celular para reparación cardíaca basada en ingeniería de tejidos** RTC-2016-4911-1  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: MINECO Proyecto Retos 2016  
Start date: 01/01/2017  
End date: 31/12/2019



## 2.01. NATURAL HISTORY OF HEART DISEASE

- Title: **Implicaciones clínicas y fisiológicas de los flujos intraventriculares en pacientes con insuficiencia cardíaca** DPI2016-75706-P  
Director: Martínez-Legazpi Aguilo, Pablo  
Project type: Research project  
Funding body: MINECO  
Start date: 30/12/2016  
End date: 29/12/2019
- 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: 31/12/2022
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Guiado en tiempo real de la ablación de la fibrilación auricular mediante cartografía eléctrica global (CORIFY)**. DTS16/00160  
Director: Atienza Fernández, Felipe  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Estudios translacionales para el desarrollo de terapias génicas con telomerasa para el tratamiento del infarto de miocardio y de la fibrosis pulmonar**. DTS17/00091  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Technological development project in health  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Regeneración Cardíaca de Infarto Crónico Porcino mediante inyecciones Intramiocárdicas de Células Progenitoras Embebidas en Hidrogeles de Matriz Decelularizada** PI16/01123  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Disfunción diastólica en el adulto con Tetráloma de Fallot. Bases Biomecánicas e implicaciones**. PI16/01237  
Director: Pérez del Villar Moro, María Candelas  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Estratificación y tratamiento de la fibrilación auricular basada en los mecanismos de perpetuación de la arritmia (STRATIFY-AF)** PI17/01059  
Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/02/2018  
End date: 31/12/2020
- Title: **Validación prospectiva de un índice pronóstico de muerte súbita o arritmias ventriculares malignas en adultos con cardiopatías congénitas** PI17/01327  
Director: Datino Romaniega, Tomás  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020



- Title: **Técnicas avanzadas de procesamiento de resonancia magnética para caracterizar el sustrato arritmogénico y el riesgo arritmico en la miocardiopatía dilatada** PI18/01117  
Director: Pérez David, Esther  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Ablación radial para control de la Fibrilación auricular persistente (Artist Trial)** PI18/01895  
Director: Arenal Maiz, Ángel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **OCTOPUS-CHF Optical Coherence Tomography Observation of Pulmonary Ultra-Structural Changes in Heart Failure Tomografía de Coherencia óptica observación de los cambios ultra-estructurales pulmonares en insuficiencia** PI18/00254  
Director: Martínez-Selles D'Oliveira Soares, Manuel  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Efectos de la inhibición del cotransportador sodio-glucosa-2 sobre los mecanismos de la insuficiencia cardiaca con fracción de eyección preservada del paciente diabético** PI18/01595  
Director: Bermejo Thomas, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **ITACA-CM. «Investigación Traslacional en arritmias cardíacas hereditarias»** S2017/BMD-3738  
Director: Atienza Fernández, Felipe  
Project type: Research project  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **AvanCell-CM. Terapias avanzadas de precisión en regeneración y reparación celular y tisular** S2017/BMD-3692  
Director: Fernández-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: 31/12/2021
- Title: **IP FIS Contract** IFI15/00113.  
Director: Loughlin Ramírez, Gerard Álvaro  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2016  
End date: 31/12/2019
- Title: **IP FIS Contract** IFI16/00010.  
Director: Díez del Hoyo, Felipe  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 09/03/2017  
End date: 31/12/2020
- Title: **Río Hortega contract** CM18/00134  
Director: Castrodeza Calvo, Javier  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 31/01/2019  
End date: 30/01/2020
- Title: **Segovia Arana contract** INT18/00035  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 31/01/2019  
End date: 31/12/2019



## 2.01. NATURAL HISTORY OF HEART DISEASE

### Industrial and Intellectual Property Registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Método para visualizar la información contenida en imágenes tridimensionales del corazón	P201000363 (Familia con 4 patentes)	FIBHGM - Universidad Politécnica de Madrid	Esther Pérez, Ángel Arenal, Javier Bermejo, Francisco Fernández-Avilés, Manuel Desco, M <sup>a</sup> Jesús Ledesma, Andrés de Santos, José Luis Rubio
Catéter y método para la detección de actividad eléctrica en un órgano	P201431315 (Familia con 5 patentes)	FIBHGM - Universidad Politécnica de Valencia - Universidad de Michigan	Andreu Martínez, Felipe Atienza, Miguel Rodrigo, M <sup>a</sup> Salud Guillem, Omer Berenfeld
Dispositivo de localización de arritmias cardíacas	P201431597 (Familia con 4 patentes)	FIBHGM - Universidad Politécnica de Valencia	Andreu Martínez, Felipe Atienza, Ángel Arenal, Francisco Fernández-Avilés, M <sup>a</sup> Salud Guillem
Mapping and quantifying blood statis and thrombus risk in the heart	US 62259494 (Familia con 3 patentes)	FIBHGM - University of California	Juan Carlos del Álamo, Andrew Kahn, Lorenzo Rossini, Javier Bermejo, Pablo Martínez-Legazpi, Raquel Yotti
Sistema y método para la detección automática de patrones electrofisiológicos anómalos	P201731161 (Familia con 2 patentes)	FIBHGM - UC3M	Ángel Arenal, Francisco Fernández Avilés, Gonzalo Ricardo Ríos, Antonio Artés

■ Transferred patents.

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

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
CIBER	CIBERCV. Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares. CB16/11/00292	Coordinating group
RETICS	Red de Terapia Celular (Ter CEL). RD16/0011/0029	Collaborating group
Others	Red de Formación Interdisciplinaria en Regeneración Cardíaca. (EUIN2017-88719)	Collaborating group

### Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Ana Casado Plasencia	Evaluación de la seguridad y eficacia de la infusión intracoronaria de células madre residentes cardíacas en pacientes con infarto agudo de miocardio y disfunción ventricular	Francisco Jesús Fernández-Avilés Díaz, Ricardo Sanz Ruiz	UCM	19/12/2019





## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Fernández Baza, Ana / Fernández-Avilés Díaz, Francisco / Fernández Santos, María Eugenia / Martínez Climent, Batiste Andreu / Sanz Ruiz, Ricardo	Call to action from the cardiovascular reparative medicine community	CARDIOPULSE
Fernández-Avilés Díaz, Francisco / Zatarain Nicolás, Eduardo	Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations Abordaje de la fibrilación auricular en pacientes con cáncer activo. Documento de consenso de expertos y recomendaciones	REVISTA ESPAÑOLA DE CARDIOLOGÍA
Fernández-Avilés Díaz, Francisco	Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine	CIRCULATION RESEARCH
Fernández-Avilés Díaz, Francisco / Sanz Ruiz, Ricardo	ESC working group on cellular biology of the heart: Position paper for Cardiovascular Research: Tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure	EUROPEAN HEART JOURNAL

## Publications

Total Impact Factor: 502.9

	Nº	IF
Own publications	48	235,5
Joint publications	49	267,3
First decile publications	16	229,1
First quartile publications	53	399,1
Second quartile publications	20	64,0
Third quartile publications	17	31,3
Fourth quartile publications	7	8,4
Nonindexed publications / No IF	13	-
<b>Total publications (including those without IF)</b>	<b>110</b>	<b>502.9</b>

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

- Gual, M; Formiga, F; Ariza-Sole, A; López-Palop, R; Sanchis, J; Marín, F; Vidan, MT; Martínez-Selles, M; Sionis, A; Sánchez-Salado, JC; Lorente, V; Díez-Villanueva, P; Vives-Borras, M; Cordero, A; Bueno, H; Alegre, O; Abu-Assi, E; Cequier, A; LONGEVO-SCA Registry Investigators. Diabetes mellitus, frailty and prognosis in very elderly patients with acute coronary syndromes. AGING CLINICAL AND EXPERIMENTAL RESEARCH. 2019; 31(11) 1635-1643. FI: 2.697. Cuartil: 3. (Article).
- Lloa I; Formiga F; Ariza Sole A; Cruzado JM; Sanchis J; Rama I; Martínez-Selles M; Garay A; Guerrero C; Díez-Villanueva P; Alegre O; Abu-Assi E; Cequier A; LONGEVO-SCA registry investigators. Frequency of Renal Dysfunction and Frailty in Patients >= 80 Years of Age With Acute Coronary Syndromes. AMERICAN JOURNAL OF CARDIOLOGY. 2019; 123(12) 2039-2043. FI: 2.57. Cuartil: 2. (Article).



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- Martín-Demiguel, I; Núñez-Gil, IJ; Pérez-Castellanos, A; Vedia, O; Uribarri, A; Duran-Cambra, A; Martín-García, A; Corbi-Pascual, M; Marzo, MG; Martínez-Selles, M. Prevalence and Significance of Interatrial Block in Takotsubo Syndrome (from the RETAKO Registry). AMERICAN JOURNAL OF CARDIOLOGY. 2019; 123(5) 729-735. FI: 2.57. Cuartil: 2. (Article).
- Vu, V; Rossini, L; Montes, R; Campos, J; Moon, J; Martínez-Legazpi, P; Bermejo, J; del Alamo, JC; May-Newman, K. Mitral Valve Prosthesis Design Affects Hemodynamic Stasis and Shear In The Dilated Left Ventricle. ANNALS OF BIOMEDICAL ENGINEERING. 2019; 47(5) 1265-1280. FI: 3.324. Cuartil: 2. (Article).
- Alexander, B; Mildner, J; Hazim, B; Haseeb, S; Bayes-Genis, A; Elosua, R; Martínez-Sellés, M; Yeung, C; Hopman, W; de Luna, AB; Baranchuk, A. New electrocardiographic score for the prediction of atrial fibrillation: The MVP ECG risk score (morphology-voltage-P-wave duration). ANNALS OF NONINVASIVE ELECTROCARDIOLOGY. 2019; 24(6) -. FI: 1.131. Cuartil: 4. (Article).
- Muñoz, P; Vicent, L; Bouza, E; Sousa-Casasnovas, I; López-Roa, P; Juárez, M; Eworo, A; Devesa, C; Bruna, V; Catalan, P; Fernández-Avilés, F; Martínez-Selles, M. Prognostic Implications of Influenza Virus Infection in a Cardiac Intensive Care Unit: Potential Impact of a Screening Program. CARDIOLOGY. 2019; 142(2) 109-115. FI: 1.791. Cuartil: 3. (Article).
- Vicent, L; Ariza-Sole, A; Díez-Villanueva, P; Alegre, O; Sanchis, J; López-Palop, R; Formiga, F; González-Salvado, V; Bueno, H; Marín, F; Llibre, C; Llao, I; Vidan, MT; Abu-Assi, E; Aboal, J; Martínez-Selles, M. Statin Treatment and Prognosis of Elderly Patients Discharged after Non-ST Segment Elevation Acute Coronary Syndrome. CARDIOLOGY. 2019; 142(2) 73-78. FI: 1.791. Cuartil: 3. (Article).
- Vicent, L; Juárez, M; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Fernández-Avilés, F; Martínez-Selles, M. Clinical Profile and Ventricular Arrhythmias after Sacubitril/Valsartan Initiation. CARDIOLOGY. 2019; 142(2) 67-72. FI: 1.791. Cuartil: 3. (Article).
- Vicent, L; Martínez-Selles, M. Can Sacubitril/Valsartan Have a Proarrhythmic Effect in Some High-Risk Patients?. CARDIOLOGY. 2019; 143(1-2) 14-21. FI: 1.791. Cuartil: 3. (Article).
- Vicent, L; Bruna, V; Devesa, C; Sousa-Casasnovas, I; Juárez, M; Fernández-Avilés, F; Martínez-Selles, M. Seasonality in Mortality in a Cardiology Department: A Five-Year Analysis in 500 Patients. CARDIOLOGY. 2019; 143(1-2) 34-35. FI: 1.791. Cuartil: 3. (Letter).
- Vicent, L; Ayesta, A; Esteban-Fernández, A; Gómez-Bueno, M; De-Juan, J; Díez-Villanueva, P; Iniesta, AM; Rojas-González, A; Bover-Freire, R; Iglesias, D; García-Aguado, M; Perea-Egido, JA; Martínez-Selles, M. Sex Influence on the Efficacy and Safety of Sacubitril/Valsartan. CARDIOLOGY. 2019; 142(1) 26-27. FI: 1.791. Cuartil: 3. (Letter).
- Bruna, V; Velasquez-Rodríguez, J; Valero-Masa, MJ; Pérez-Guillem, B; Vicent, L; Díez-Delhoyo, F; Devesa, C; Sousa-Casasnovas, I; Juárez, M; de Luna, AB; Bayes-Genis, A; Baranchuk, A; Fernández-Avilés, F; Martínez-Selles, M. Prognostic of Interatrial Block after an Acute ST-Segment Elevation Myocardial Infarction. CARDIOLOGY. 2019; 143(3-4) 85-91. FI: 1.791. Cuartil: 3. (Article).
- Madonna, R; Van Laake, LW; Botker, HE; Davidson, SM; De Caterina, R; Engel, FB; Eschenhagen, T; Fernández-Avilés, F; Hausenloy, DJ; Hulot, JS; Lecour, S; Leor, J; Menasche, P; Pesce, M; Perrino, C; Prunier, F; Van Linthout, S; Ytrehus, K; Zimmermann, WH; Ferdinandy, P; Sluijter, JPG. ESC Working Group on Cellular Biology of the Heart: position paper for Cardiovascular Research: tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. CARDIOVASCULAR RESEARCH. 2019; 115(3) 488-500. FI: 8.168. Cuartil: 1. (Review).
- Atienza, F; Márquez, MF; Sánchez-Quintana, D. Letter by Atienza et al Regarding Article, "Autopsy as a Source of Discovery in Cardiovascular Medicine: Then and Now". CIRCULATION. 2019; 139(4) 566-567. FI: 23.603. Cuartil: 1. (Letter).
- Shamagian, LG; Madonna, R; Taylor, D; Climent, AM; Prosper, F; Bras-Rosario, L; Bayes-Genis, A; Ferdinandy, P; Fernández-Avilés, F; Belmonte, JCI; Fuster, V; Bolli, R. Perspectives on Directions and Priorities for Future Preclinical Studies in Regenerative Medicine. CIRCULATION RESEARCH. 2019; 124(6) 938-951. FI: 14.467. Cuartil: 1. (Review).
- Leef, G; Shenasa, F; Bhatia, NK; Rogers, AJ; Sauer, W; Miller, JM; Swerdlow, M; Tamboli, M; Alhusseini, MI; Armenia, E; Baykaner, T; Brachmann, J; Turakhia,



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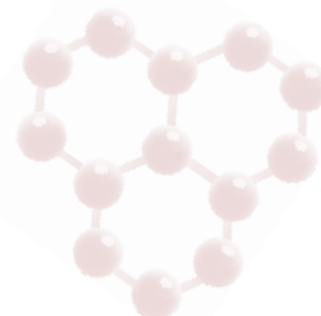
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  - Vigón, L; Vázquez-Moron, S; Berenguer, J; González-García, J; Jiménez-Sousa, MA; Guardiola, JM; Crespo, M; de Los Santos, I; Von Wichmann, MA; Carrero, A; Yelamos, MB; Gómez, J; Resino, S; Martínez, I; Miralles, P; López, JC; Parras, F; Padilla, B; Aldamiz-Echevarría, T; Tejerina, F; Díez, C; Pérez-Latorre, L; Fanciulli, C; Gutiérrez, I; Ramírez, M; Carretero, S; Bellón, JM; Bermejo, J; Hontanón, V; Arribas, JR; Montes, ML; Bernardino, I; Pascual, JF; Zamora, F; Pena, JM; Arnalich, F; Díaz, M; Domingo, P; Sanz, J; Bustinduy, MJ; Iribarren, JA; Rodríguez-Arondo, F; Van den Eynde, E; Pérez, M; Ribera, E; Casado, JL; Dronda, F; Morenoll, A; Pérez-Elias, MJ; Sanfrutos, MA; Moreno, S; Quereda, C; Arranz, A; Casas, E; de Miguel, J; Schroeder, S; Vergas, J; Tellez, MJ; Vinuesa, D; Muñoz, L; Hernández-Quero, J; Ferrer, A; Galindo, MJ; Ortiz, L; Ortega, E; Montero, M; Blanes, M; Cuellar, S; Lacruz, J; Salavert, M; López-Aldeguer, J; Pérez, G; Gaspar, G; Yllescas, M; Crespo, P; Aznar, E; Esteban, H; GESIDA 3603b Cohort Study Grp. Rapid decrease in titer and breadth of neutralizing anti-HCV antibodies in HIV/HCV-coinfected patients who achieved SVR. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).
  - Toran, JL; López, JA; Gomes-Alves, P; Aguilar, S; Torroja, C; Trevisan-Herraz, M; Moscoso, I; Sebastiao, MJ; Serra, M; Brito, C; Cruz, FM; Sepulveda, JC; Abad, JL; Galán-Arriola, C; Ibáñez, B; Martínez, F; Fernández, ME; Fernández-Avilés, F; Palacios, I; R-Borlado, L; Vázquez, J; Alves, PM; Bernad, A. Definition of a cell surface signature for human cardiac progenitor cells after comprehensive comparative transcriptomic and proteomic characterization. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).
  - Agnelli C; Valerio M; Olmedo M; Guinea J; Zatarain-Nicolás E; Del Carmen Martínez-Jiménez M; Alcalá L; Escribano P; Cebollero Presmanes M; Bouza E; Muñoz P; Martín-Rabadán P. Fatal disseminated infection by *Gymnascella hyalinospira* in a heart transplant recipient. TRANSPLANT INFECTIOUS DISEASE. 2019; 21(5) -. FI: 2.071. Cuartil: 3. (Article).
- Publications of the main WOS collection in journals without impact factor**
- Córdoba-Soriano JG; Rivera-Juarez A; Gutiérrez-Diez A; Gutiérrez-Ibanes E; Gallardo-López A; Samaniego-Lampon B; Lozano I; Melehi D; Portero-Portaz JJ; Elizaga J; Jiménez-Mazuecos J. The feasibility and safety of ambulatory percutaneous coronary interventions in complex lesions. CARDIOVASCULAR REVASCULARIZATION MEDICINE. 2019; 20(10) 875-882. (Article).
  - Pedraz-Prieto, A; Monzon-Díaz, D; González, RHRA; Las, CJ; Hortal-Iglesias, J; González-Pinto, AT. Ventricular fibrillation in early postoperative period after David procedure due to surgical ligation of the conal artery. CIRUGIA CARDIOVASCULAR. 2019; 26(3) 169-171. (Article).
  - Gil-Jaurena, JM; Pérez-Caballero, R; Pita, A; González-López, MT; Pardo, C; Zamorano, JA; Ramírez, B; Pérez, R; González-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).
  - Pita-Fernández, A; Gil-Jaurena, JM; Pérez-Caballero-Martínez, R; Pardo-Pardo, C; González-López, MT; Rodríguez-Abella-González, H; Irabien-Ortiz, A; Pérez-Pérez, R; Ramírez-Gómez, B; Zamorano-Serrano, J; González-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).
  - Sánchez, LG; Flores, MF; Cirujano, ML; Castano, V; Rincón, M. Nutritional intervention in patients with heart failure. 3 month results of a clinical trial. NUTRICION CLINICA Y DIETETICA HOSPITALARIA. 2019; 39(1) 22-31. (Article).



## 2.01. NATURAL HISTORY OF HEART DISEASE

### Other publications

- Delgado JF; Ferrero Gregori A; Fernández LM; Claret RB; Sepúlveda AG; Fernández-Avilés F; González-Juanatey JR; García RV; Otero MR; Segovia Cubero J; Pascual Figal D; Crespo-Leiro MG; Álvarez-García J; Cinca J; Ynsaurriaga FA. Patient-Associated Predictors of 15- and 30-Day Readmission After Hospitalization for Acute Heart Failure. *CURRENT HEART FAILURE REPORTS*. 2019; 16(6) 304-314. (Article).
- Tamargo Delpon M; González Torrecilla E. Repetitive Ventriculoatrial Block During Nodal Reentrant Tachycardia. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(11) 964-964. (Article).
- Barge-Caballero E; González-Vilchez F; Delgado JF; Mirabet-Pérez S; González-Costello J; Pérez-Villa F; Martínez-Selles M; Segovia-Cubero J; Herivas-Sotomayor D; Blasco-Peiro T; De la Fuente-Galán L; Lambert-Rodríguez JL; Rangel-Sousa D; Almenar-Bonet L; Garrido-Bravo IP; Rábago-Juan-Aracil G; Muñoz J; Crespo-Leiro MG. Use of Intra-aortic Balloon Pump as a Bridge to Heart Transplant in Spain: Results From the ASIS-TC Study. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(10) 835-843. (Article).
- Velasquez-Rodríguez J; Zatarain-Nicolás E; Barrio JM; Ruiz-Fernández M; Valerio M; Fernández-Avilés F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(06-ene.) 535-542. (Article).
- Subirana I; Fernández Avilés F; Elosua R; Lidon RM; García-Dorado D; Marrugat J; investigadores del estudio ATHOS. Interhospital Variability in Acute Coronary Syndrome Management in the ATHOS Study. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(07-ene.) 691-693. (Article).
- Pérez-Castellanos A; Martínez-Selles M; Uribarri A; Devesa-Cordero C; Sánchez-Salado JC; Ariza-Sole A; Sousa I; Juarez M; Fernández-Avilés F. Development and External Validation of an Early Prognostic Model for Survivors of Out-of-hospital Cardiac Arrest. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(12) 1005-1011. (Article).
- de la Torre Hernández JM; Brugaletta S; Gómez Hospital JA; Baz JA; Pérez de Prado A; López Palop R; Cid B; García Camarero T; Diego A; Gutiérrez H; Fernández Díaz JA; Sanchis J; Alfonso F; Blanco R; Botas J; Navarro Cuartero J; Moreu J; Bosa F; Vegas Valle JM; Elizaga J; Arrebola AL; Ruiz Arroyo JR; Hernández F; Salvatella N; Monteagudo M; Gómez Jaume A; Carrillo X; Martín Reyes R; Lozano F; Rumoroso JR; Andraka L; Domínguez AJ. Baseline Risk Stratification of Patients Older Than 75 Years With Infarction and Cardiogenic Shock Undergoing Primary Angioplasty. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(7) 595-596. (Article).
- González-Casal D; Mateos Gaitán R; Sánchez Prida N; González-Saldivar H; Díez-Delhoyo F. Infarto agudo de miocardio en menor de 30 años. inverted exclamation markLa edad no es excluyente!. *SEMERGEN*. 2019; 45(3) 205-207. (Article).



## 2.02. Cardiovascular pathophysiology

Group director: VICTORIA CACHOFEIRO RAMOS

Organisms involved: UCM

Type: Consolidated Group

### Research lines

#### Axis 1: Cardiovascular metabolic damage associated with obesity

- ▶ L1: Role of changes in the use of metabolic substrates in cardiac damage associated with obesity.
- ▶ L2: Role of mitochondrial dysfunction in cardiac damage associated with obesity.

#### Axis 2: Mechanisms involved in cardiovascular damage associated with ischemia

- ▶ L1: Role of changes in the use of metabolic substrates in cardiac damage associated with ischemia.
- ▶ L2: Role of mitochondrial dysfunction in cardiac damage associated with ischemia.
- ▶ L3: Impact of obesity on cardiac damage associated with ischemia.

mechanical alterations of the cardiovascular system associated with different risk factors including obesity.

To carry out our research, we use various experimental approaches: animal models, in vivo and ex vivo experiments and cell studies combining physiological, pharmacological, molecular, histological and imaging techniques in which the group has a great experience as endorsed by our publications.

### Group members

- **Bartolomé Pascual, M<sup>a</sup> Visitación:** R3. Established Researcher.
- **Cachofeiro Ramos, Victoria:** R4. Leading Researcher.
- **Delgado Valero, Beatriz:** R1. First Stage Researcher.
- **Jurado López, Raquel:** Other. Research Support Technician.
- **Martínez Martínez, Ernesto:** R3. Established Researcher.
- **Vasconcelos de Souza Neto, Francisco das Chagas:** R1. First Stage Researcher.

### Research Projects – Competitive Calls

#### Not managed by the FIBHGM

- Title: **Papel del estrés del retículo endoplásmico y sus moduladores en el fibrosis miocárdica asociada a la isquemia miocárdica en el contexto de la obesidad. Relevancia de los miRNAs.** PI18/00257  
Director: Cachofeiro Ramos, Victoria  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Atracción de Talento Joven**  
Director: Cachofeiro Ramos, Victoria , (Ernesto Martínez Martínez)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/02/2018  
End date: 31/01/2019

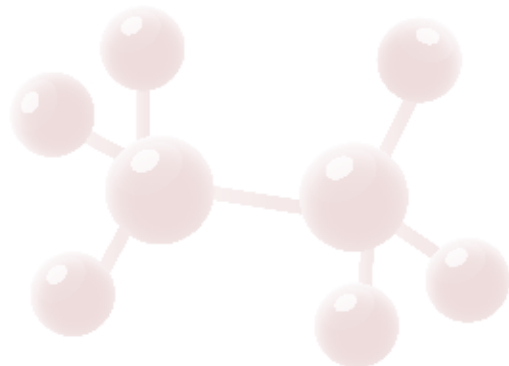


## 2.02. CARDIOVASCULAR PATHOPHYSIOLOGY

- Title: **Becas predoctorales UCM**  
Director: Cachofeiro Ramos, Victoria (Francisco ds Chagas Vasconcelos Neto)  
Project type: Human Resources  
Funding body: UCM  
Start date: 01/06/2019  
End date: 31/05/2022
- Title: **«Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI), 2018»**  
Director: Martínez, ERNESTO (Ana Romero Miranda)  
Project type: Human Resources  
Funding body: Comunidad de Madrid  
Start date: 01/04/2019  
End date: 30/03/2021

### Cooperative Research Structures

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



### Publications

Total Impact Factor: 13.0

	Nº	IF
Own publications	2	9.0
Joint publications	1	4.1
First decile publications	1	5.0
First quartile publications	2	9.0
Second quartile publications	1	4.1
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>3</b>	<b>13.0</b>

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

- Martínez-González, J; Varona, S; Canes, L; Galán, M; Briones, AM; Cachofeiro, V; Rodríguez, C. Emerging Roles of Lysyl Oxidases in the Cardiovascular System: New Concepts and Therapeutic Challenges. BIOMOLECULES. 2019; 9(10) -. FI: 4.082. Cuartil: 2. (Review).
- Marín-Royo, G; Rodríguez, C; Le Pape, A; Jurado-López, R; Luaces, M; Antequera, A; Martínez-González, J; Souza-Neto, FV; Nieto, ML; Martínez-Martínez, E; Cachofeiro, V. The role of mitochondrial oxidative stress in the metabolic alterations in diet-induced obesity in rats. FASEB JOURNAL. 2019; 33(11) 12060-12072. FI: 4.966. Cuartil: 1. (Article).
- Marín-Royo, G; Ortega-Hernández, A; Martínez-Martínez, E; Jurado-López, R; Luaces, M; Islas, F; Gómez-Garre, D; Delgado-Valero, B; Lagunas, E; Ramchandani, B; García-Bouza, M; Nieto, ML; Cachofeiro, V. The Impact of Cardiac Lipotoxicity on Cardiac Function and Mirnas Signature in Obese and Non-Obese Rats with Myocardial Infarction. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).





## 2.03. Cardiac cellular electrophysiology

Group director: **EVA DELPÓN MOSQUERA**

Organisms involved: **UCM**

Type: **Consolidated Group**

### Research lines

#### Axis 1: Cardiac cellular electrophysiology

- ▶ L1: Description of the composition of cardiac channelosomes.
- ▶ L2: Identification of the genetic bases of primary arrhythmogenic syndromes (PAS).
- ▶ L3: Identification of the cellular mechanisms responsible for the genesis and maintenance of atrial fibrillation (AF).

#### Axis 2: Cardiovascular clinical pharmacology

- ▶ L1: Cardiovascular clinical pharmacology.

### Group members

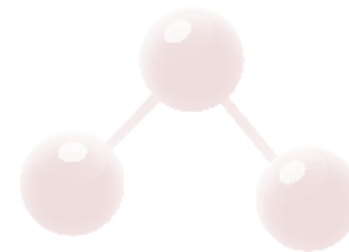
- **Caballero Collado, Ricardo:** R4. Leading Researcher.
- **Cámara Checa, Anabel.**
- **Cebrián Castillo, Jorge.**
- **Crespo García, Teresa.**
- **Dago Requena, María.**
- **Delpón Mosquera, Eva:** R4. Leading Researcher.
- **García Utrilla, Raquel.**
- **Nieto Marín, Paloma.**
- **Rubio Alarcón, Marcos.**
- **Sacristán González, Ana Sandra.**
- **Tamargo Menéndez, Juan:** R4. Leading Researcher.
- **Tinaquero Faura, David:** Predoctoral.
- **Vaquero López, Paloma San Juan.**

The group is composed of three professors (Dr. Delpón, Dr. Tamargo, and Dr. Caballero) from the Department of Pharmacology of the School of Medicine of UCM and has formed part of the IISGM since its inception date. It is also integrated by a Postdoctoral Researcher of the Talent Attraction Program of the Community of Madrid (Dr. Cebrián) and six predoctoral hired.

The group maintains its uninterrupted activity for more than 30 years in the areas of cardiac cell electrophysiology and cardiovascular pharmacology. Our group is the founder and coordinator of the ITACA consortium ([www.itaca.edu.es](http://www.itaca.edu.es)) dedicated to translational research in hereditary cardiac arrhythmias.

At present, the research lines funded by competitive national and regional projects are:

- 1) Functional study of the new genes involved in the genesis of hereditary primary arrhythmogenic syndromes.
- 2) Characterization of the composition and functioning of cardiac canalosomes.
- 3) Identification of the cellular mechanisms responsible for the genesis and maintenance of atrial fibrillation and search for new targets for therapeutic intervention.



## 2.03. CARDIAC CELULAR ELECTROPHYSIOLOGY

### Research Projects – Competitive Calls

#### Not managed by the FIBHGM

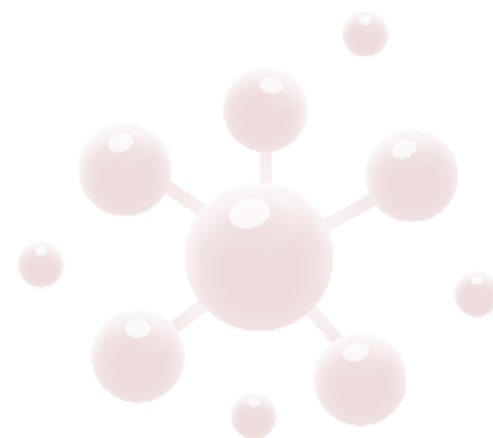
- Title: **Papel de los factores de transcripción específicos cardiacos en el control de la actividad eléctrica miocárdica.** SAF2017-88116-P  
 Director: Delpón, Eva / CABALLERO, RICARDO  
 Funding body: MICINN/MINECO  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020
- Title: **Estudio funcional de mutaciones en los genes HCN4, ZFH3 y ANK2 identificadas en pacientes con fibrilación auricular familiar.** PI16/00398  
 Director: TAMARGO Menéndez, JUAN  
 Funding body Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2017  
 End date: 30/09/20
- Title: **Repercusiones funcionales de dos mutaciones en el gen TBX5. Papel del factor Tbx5 en el control de la actividad eléctrica cardiaca.** SEC2017  
 Director: Delpón, Eva  
 Project type: Reseach project  
 Funding body: Sociedad Española de Cardiología  
 Start date: 2017  
 End date: 2018
- Title: **Investigación Traslacional en Arritmias Cardiacas hereditarias.** ITACA-CM B017/BMD3738  
 Director: Delpón, Eva  
 Project type: Reseach project  
 Funding body: Comunidad de Madrid. Programa de Biomedicina  
 Start date: 01/01/2018  
 End date: 31/12/2021

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
CIBER	Enfermedades Cardiovasculares. CB16/11/00303	Collaborating group

### Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Raquel García Utrilla	El factor de transcripción Tbx20 regula selectivamente la expresión de los canales cardiacos hERG y la densidad de la IKr posible implicación del gen TBX20 en el Síndrome de	Eva Delpon Mosquera; Juan Tamargo Menéndez; Ricardo Caballero Collado	UCM	26/11/2019



## Clinical Practice Guidelines

Authors	Title	Journal/ Reference
López-Fernández T, Martín-García A, Roldán Rabadán I, Mitroi C, Mazón Ramos P, Díez-Villanueva P, Escobar Cervantes C, Alonso Martín C, Alonso Salinas GL, Arenas M, Arrarte Esteban VI, Ayala de La Peña F, Castro Fernández A, García Pardo H, García-Sanz R, González Porras JR, López de Sá E, Lozano T, Marco Vera P, Martínez Marín V, Mesa Rubio D, Montero Á, Oristrell G, Pérez de Prado A, Velasco Del Castillo S, Virizueta Echaburu JA, Zatarain-Nicolás E, Anguita Sánchez M, Tamargo Menéndez J	Atrial Fibrillation in Active Cancer Patients: Expert Position Paper and Recommendations	REV ESP CARDIOL (ENGL ED). 2019;72(9):749-759.
Sulzgruber P, Wassmann S, Semb AG, Doehner W, Widimsky P, Gremmel T, Kaski JC, Savarese G, Rosano GMC, Borghi C, Kjeldsen K, Torp-Pedersen C, Schmidt TA, Lewis BS, Drexel H, Tamargo J, Atar D, Agewall S, Niessner A	Oral Anticoagulation in patients with non-valvular atrial fibrillation and a CHA2DS2-VASc score of 1 - a current opinion of the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy and European Society of Cardiology Council on Stroke	EUR HEART J CARDIOVASC PHARMACOTHER. 2019;5:171-180

Authors	Title	Journal/ Reference
Regitz-Zagrosek V, Roos-Hesselink JW, Bauersachs J, Blomström-Lundqvist C, Cifková R, De Bonis M, Jung B, Johnson MR, Kintscher U, Kranke P, Lang IM, Morais J, Pieper PG, Presbitero P, Price S, Rosano GMC, Seeland U, Simoncini T, Swan L, Warnes CA; ESC Scientific Document Group	Guía ESC 2018 sobre el tratamiento de las enfermedades cardiovasculares durante el embarazo	REV ESP CARDIOL 2019;72:161.E1-E65
Savarese G, Reiner MF, Uijl A, D'Amario D, Agewall S, Atar D, Baumgartner I, Borghi C, De Carlo M, Drexel H, Kaski JC, Kjeldsen KP, Kucher N, Lund LH, Niessner A, Semb AG, Schmidt TA, Sulzgruber P, Tamargo J, Vitale C, Wassmann S, Aboyans V, Lewis BS	Antithrombotic therapy and major adverse limb events in patients with chronic lower extremity arterial disease: systematic review and meta-analysis from the European Society of Cardiology Working Group on Cardiovascular Pharmacotherapy in Collaboration with the European Society of Cardiology Working Group on Aorta and Peripheral Vascular Diseases	EUR HEART J CARDIOVASC PHARMACOTHER 2020;6(2):86-93
Hollan I, Ronda N, Dessein P, Agewall S, Karpouzias G, Tamargo J, Niessner A, Savarese G, Rosano G, Kaski JC, Wassmann S, Meroni PL	Lipid management in rheumatoid arthritis: a position paper of the Working Group on Cardiovascular Pharmacotherapy of the European Society of Cardiology	EUR HEART J CARDIOVASC PHARMACOTHER. 2020;6(2):104-114



## 2.03. CARDIAC CELULAR ELECTROPHYSIOLOGY

Publications		Total Impact Factor: 34.4
	Nº	IF
Own publications	4	15.8
Joint publications	3	18.6
First decile publications	2	14.4
First quartile publications	5	28.3
Second quartile publications	2	6.1
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>8</b>	<b>34.4</b>

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

- Sánchez, M; Romero, M; Gómez-Guzman, M; Tamargo, J; Pérez-Vizcaino, F; Duarte, J. Cardiovascular Effects of Flavonoids. CURRENT MEDICINAL CHEMISTRY. 2019; 26(39) 6991-7034. FI: 4.184. Cuartil: 1. (Review).
- Haller, PM; Sulzgruber, P; Kaufmann, C; Geelhoed, B; Tamargo, J; Wassmann, S; Schnabel, RB; Westermann, D; Huber, K; Niessner, A; Gremmel, T. Bleeding and ischaemic outcomes in patients treated with dual or triple antithrombotic therapy: systematic review and meta-analysis. EUROPEAN HEART JOURNAL-CARDIOVASCULAR PHARMACOTHERAPY. 2019; 5(4) 226-236. FI: 6.696. Cuartil: 1. (Review).
- Tamargo, J; Caballero, R; Delpon, E. New drugs in preclinical and early stage clinical development in the treatment of heart failure. EXPERT OPINION ON INVESTIGATIONAL DRUGS. 2019; 28(1) 51-71. FI: 5.081. Cuartil: 1. (Article).
- Tamargo, J; Caballero, R; Delpon, E. Pharmacotherapy for hypertension in pregnant patients: special considerations. EXPERT OPINION ON PHARMACOTHERAPY. 2019; 20(8) 963-982. FI: 2.878. Cuartil: 2. (Review).

- Ruilope, LM; Ruiz-Hurtado, G; Barderas, MG; de la Cruz, JJ; Lucia, A; de la Sierra, A; Gorostidi, M; Vinyoles, E; Segura, J; Solis, J; Arribas, F; García-Puig, J; Tamargo, J; O'Brien, E; Volpe, M; Whelton, PK; Williams, B; Banegas, JR. Frequency and Prognosis of Treated Hypertensive Patients According to Prior and New Blood Pressure Goals Post Hoc Analysis of the Spanish Ambulatory Blood Pressure Monitoring Registry. HYPERTENSION. 2019; 74(1) 130-136. FI: 7.713. Cuartil: 1. (Article).
- Tamargo, J. Happy 50th anniversary of amiodarone (1969-2019). INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 293 115-116. FI: 3.229. Cuartil: 2. (Editorial Material).
- Nieto-Marín, P; Jiménez-Jaimez, J; Tinaquero, D; Alfayate, S; Utrilla, RG; del Rey, MDRV; Perin, F; Sarquella-Brugada, G; Monserrat, L; Brugada, J; Tercedor, L; Tamargo, J; Delpon, E; Caballero, R. Digenic Heterozygosity in SCN5A and CACNA1C Explains the Variable Expressivity of the Long QT Phenotype in a Spanish Family. REVISTA ESPANOLA DE CARDIOLOGIA. 2019; 72(4) 324-332. FI: 4.642. Cuartil: 1. (Article).

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

- Tamargo, J. Sodium-glucose Cotransporter 2 Inhibitors in Heart Failure: Potential Mechanisms of Action, Adverse Effects and Future Developments. EUROPEAN CARDIOLOGY REVIEW. 2019; 14(1) 23-32. (Article).



## 2.05. Cardiology and heart transplantation in children

Group director: **CONSTANCIO MEDRANO LÓPEZ**

Organisms involved: **HGUGM**

Type: **EMERGING GROUP**

### Research lines

#### Axis 1: Heart transplant in children

- ▶ L1: Optimize and reduce antirejection therapy.

#### Axis 2: Cardiomyopathy in children

- ▶ L1: Correlation between genotype and phenotype.
- ▶ L2: Development of advanced imaging techniques (speckle tracking-echocardiography).

#### Axis 3: Respiratory infections and congenital heart disease

- ▶ L1: Impact on patients with heart disease.

#### Axis 4: Drugs used in infant and pediatric cardiology

- ▶ L1: Utility and safety of cardiovascular drugs in infancy.

#### Axis 5: Infant cardiac rehabilitation

(cooperation with Infant Rehabilitation research group:  
Dr. Supervia and Dr. Arroyo)

- ▶ L1: Improving quality of life.

#### Axis 6: Cell therapy in pediatric cardiology

- ▶ L1: New therapies in advanced heart failure.

#### Axis 7: Innovation in interventional approaches in congenital heart disease and in infants

- ▶ L1: New devices adapted to congenital heart disease.

#### Axis 8: Innovation in surgical approaches in congenital heart disease and in infants

- ▶ L1: New mini-invasive techniques are safe and reduce morbidity.

#### Axis 9: Telemedicine

- ▶ L1: Tool for optimizing patient follow-up and cooperation with other centers/professionals.

#### Axis 10: RASopathies (in collaboration with Molecular Biology research group: Dr. Begoña Ezquieta)

- ▶ L1: Improving knowledge about health.

#### Axis 11: International cooperation

- ▶ L1: Training as a development tool.

#### Axis 12: Innovation in infant electrophysiology

- ▶ L1: Optimizing infant electrophysiology devices and techniques.

The group covers the research activity of the Infant Heart Area, which includes infant heart surgery and cardiology.

Since 2016, Dr. B. Ezquieta's group (RASopathies) has joined the Area, a new line in international cooperation has been opened, and scientific output has been increased, especially in the lines of heart surgery and innovation in infant interventional cardiology.



### Group members

- **Álvarez García-Roves, Reyes:** R1. First Stage Researcher.
- **Álvarez Martín, Teresa:** R1. First Stage Researcher.
- **Ballesteros Tejerizo, Fernando:** R1. First Stage Researcher.
- **Cambra Conejero, Ana:** R2. Recognised Researcher.
- **Camino López, Manuela:** R1. First Stage Researcher.
- **Carchenilla Pulido, Inmaculada:** R1. First Stage Researcher.
- **Centeno Jiménez, Mirian:** R1. First Stage Researcher.
- **Cobos Hinojal, Susana:** R1. First Stage Researcher.
- **Cuenca Yunta, Alejandra:** R1. First Stage Researcher.
- **Ezquieta Zubicaray, Begoña:** R3. Established Researcher.
- **García González, M<sup>a</sup> Dolores:** R1. First Stage Researcher.
- **Gil Jaurena, Juan Miguel:** R1. First Stage Researcher.
- **Gil Villanueva, Nuria:** R1. First Stage Researcher.
- **Gormaz Ibáñez, Francisca:** R1. First Stage Researcher.
- **López Blázquez, Francisca:** R1. First Stage Researcher.
- **Medrano López, Constanancio:** R4. Leading Researcher.
- **Panadero Carlavilla, M<sup>a</sup> Esther:** R1. First Stage Researcher.
- **Pardo Pardo, Carlos Andrés:** R2. Recognised Researcher.
- **Pinero Díaz, Gloria Isabel:** R1. First Stage Researcher.
- **Pita Fernández, Ana:** R1. First Stage Researcher.
- **Relaño García, Cristina:** R1. First Stage Researcher.
- **Rodríguez Ogando, Alejandro:** R2. Recognised Researcher.
- **Sobrino Baladrón, Adolfo:** R1. First Stage Researcher.
- **Solana Gracia, Ruth:** R3. Established Researcher.
- **Vera Rodríguez, Ana:** R1. First Stage Researcher.
- **Wilkinson Samantha:** R1. First Stage Researcher.
- **Zunzunegui Martínez, José Luis:** R1. First Stage Researcher.

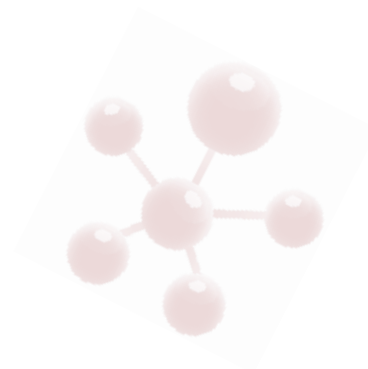
### Cooperative Research Structures

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

### Publications

Total Impact Factor: 51.2

	Nº	IF
Own publications	3	11,5
Joint publications	11	39,6
First decile publications	2	20,1
First quartile publications	7	38,1
Second quartile publications	1	4,3
Third quartile publications	4	6,3
Fourth quartile publications	2	2,6
Nonindexed publications / No IF	4	-
<b>Total publications (including those without IF)</b>	<b>18</b>	<b>51.2</b>



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

- López-Abente, J; Bernaldo-de-Quirós, E; Camino, M; Gil, N; Panadero, E; Campos-Domínguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).
- Segovia, AC; Ledesma, CC; Blázquez, ML; Pérez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).
- Gil-Jaurena, JM; Pérez-Caballero, R; Pardo, C. Upper Ministernotomy for Pulmonary Valve Repair. ANNALS OF THORACIC SURGERY. 2019; 107(2) 151-152. FI: 3.639. Cuartil: 1. (Article).
- Gil-Jaurena, JM; Pérez-Caballero, R; Pita, A; Pardo, C. Paracorporeal Connection to Heart-Lung Machine in Transplant Surgery With the Berlin Heart Ventricular Assist Device. ANNALS OF THORACIC SURGERY. 2019; 107(5) 305-306. FI: 3.639. Cuartil: 1. (Editorial Material).
- Happel, CM; Martínez, JLZ; del Cerro, MJ; Schranz, D; Khalil, M; Ballesteros, F; Pardeiro, CA; Bertram, H; Beerbaum, P; Haas, NA. A word of caution: diabolic behaviour of AndraStents (R): inflation of supporting balloon leads to "diabolo"-misconfiguration of the stent. CARDIOLOGY IN THE YOUNG. 2019; 29(7) 972-976. FI: 1. Cuartil: 4. (Article).
- Murray, BH; Jones, TK; Coe, JY; Gitter, R; Martínez, JZ; Turner, DR; Gray, RG; Lung, TH; Berman, DP; Levi, DS. Implantation of the Melody transcatheter pulmonary valve PB1016 in patients with dysfunctional right ventricular outflow tract conduits. CATHETERIZATION AND CARDIOVASCULAR INTERVENTIONS. 2019; 93(3) 474-480. FI: 2.044. Cuartil: 3. (Article).
- González, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Pérez, R; Álvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; López-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).
- Benito, Y; Martínez-Legazpi, P; Rossini, L; del Villar, CP; Yotti, R; Peinador, YM; Rodríguez-Pérez, D; Desco, MM; Medrano, C; Antoranz, JC; Fernández-Avilés, F; del Alamo, JC; Bermejo, J. Age-Dependence of Flow Homeostasis in the Left Ventricle. FRONTIERS IN PHYSIOLOGY. 2019; 10 -. FI: 3.367. Cuartil: 1. (Article).
- Blázquez, ML; Hernani, MT; Calatayud, GA; González-Pinto, LC; Menchen, L; Jiménez, IM; García, BG; Calleja, AL; Sánchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).
- Norrish, G; Ding, T; Field, E; Ziolkowska, L; Olivotto, I; Limongelli, G; Anastakis, A; Weintraub, R; Biagini, E; Ragni, L; Prendiville, T; Duignan, S; McLeod, K; Iliina, M; Fernández, A; Bokenkamp, R; Baban, A; Kubus, P; Daubeney, PEF; Sarquella-Brugada, G; Cesar, S; Marrone, C; Bhole, V; Medrano, C; Uzun, O; Brown, E; Gran, F; Castro, FJ; Stuart, G; Vignati, G; Barriales-Villa, R; Guereta, LG; Adwani, S; Linter, K; Bharucha, T; García-Pavia, P; Rasmussen, TB; Calcagnino, MM; Jones, CB; De Wilde, H; Toru-Kubo, J; Felice, T; Mogensen, J; Mathur, S; Reinhardt, Z; O'Mahony, C; Elliott, PM; Omar, RZ; Kaski, JP. Development of a Novel Risk Prediction Model for Sudden Cardiac Death in Childhood Hypertrophic Cardiomyopathy (HCM Risk-Kids). JAMA CARDIOLOGY. 2019; 4(9) 918-927. FI: 12.794. Cuartil: 1. (Article).
- Irabien, A; Gil-Jaurena, JM; Pita, A; Pérez-Caballero, R; González-Pinto, A. Double-barrel endocarditis. JOURNAL OF CARDIAC SURGERY. 2019; 34(10) 1100-1102. FI: 1.49. Cuartil: 3. (Editorial Material).
- Webb, NJA; Baumann, U; Camino, M; Frauca, E; Undre, N; García-Guereta, L; Tonshoff, B; Reding, R; Rubik, J; Di-Filippo, S; Deschenes, G; OPTION Study Grp. Pharmacokinetics of tacrolimus granules in pediatric de novo liver, kidney, and heart transplantation: The OPTION study. PEDIATRIC TRANSPLANTATION. 2019; 23(1) -. FI: 1.425. Cuartil: 3. (Article).
- González-Vilchez, F; Almenar-Bonet, L; Crespo-Leiro, MG; Segovia-Cubero, J; González-Costello, J; del Prado, JMA; Sousa-Casasnovas, I; Sobrino-Márquez, JM; Delgado-Jiménez, J; Pérez-Villa, F; Gómez-Buena, M; Hernández-Pérez, F; Martínez-Penades, S; Cebrian-Pinar, M; López-Vilella, R; Sánchez-Lazaro, I; Martínez-Dolt, L; Paniagua-Martín, MJ; Barge-Caballero, E; Barge-Caballero,

## 2.05. CARDIOLOGY AND HEART TRANSPLANTATION IN CHILDREN

- G; Couto-Mallon, D; López-Granados, A; Segura-Saintgerons, C; Mesa, D; Ruiz, M; Romo, E; Carrasco, F; López-Aguilera, J; Cobo, M; Llano-Cardenal, M; de Prada, JAV; Nistal-Herrera, F; Martínez-Selles, M; Ortiz, C; Zatarain, E; Valero, MJ; Fernández-Yanez, J; Navas, P; Castrodeza, J; García-Cosío, MD; Moran-Fernández, L; Blázquez, Z; Caravaca, P; Roig-Minguell, E; Brossa-Loidi, V; Mirabet-Pérez, S; López-López, L; Rangel-Sousa, D; Manito-Lorite, N; Díez-López, C; Roca-Elias, J; Rábago-Aracil, G; Castel, MA; Farrero, M; García-Álvarez, A; Lambert-Rodríguez, JL; Díaz-Molina, B; Bernardo-Rodríguez, MJ; Camino-López, M; Gil-Jaurena, JM; Gil-Villanueva, N; Garrido-Bravo, I; Pascual-Figal, DA; Pastor-Pérez, FJ; Blasco-Peiro, T; Portoles-Ocampo, A; Sanz-Julve, M; de La Fuente-Galán, L; Tobar-Ruiz, J; Correa-Fernández, AM; García-Guereta-Silva, L; González-Rocafort, A; de Lera, CL; Polo-López, L; Albert-Brotons, DC; Gran-Ipina, F; Abella-Antón, R; Spanish Heart Transplant Teams. Spanish Heart Transplant Registry. 30th Official Report of the Spanish Society of Cardiology Working Group on Heart Failure (1984-2018). REVISTA ESPAÑOLA DE CARDIOLOGIA. 2019; 72(11) 954-962. FI: 4.642. Cuartil: 1. (Article).
- Sánchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marín-Jiménez, I; Menchen, L; Fernández, PG; Sánchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernández, F; González, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jiménez, S; Juste, M; La Orden, E; López, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menéndez, C; Monraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Pérez-Moneo, B; Pociello, N; Rivero, MC; Rodríguez, A; Martínez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gómez, T; Vázquez, R; Vecino, R; Álvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benítez, JM; Botellla, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernández, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Pérez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramírez, JJ; Ramos, L; Gloria, ERG; Gutiérrez, CR; Rodríguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPAÑOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).
- Publications of the main WOS collection in journals without impact factor:**
- Pita-Fernández, A; Gil-Jaurena, JM; Pérez-Caballero-Martínez, R; Pardo-Pardo, C; González-López, MT; Rodríguez-Abella-González, H; Irabien-Ortiz, A; Pérez-Pérez, R; Ramírez-Gómez, B; Zamorano-Serrano, J; González-Pinto, A. ABO-incompatible heart transplant in pediatric population. CIRUGIA CARDIOVASCULAR. 2019; 26 35-41. (Review).
  - Gil-Jaurena, JM; Pérez-Caballero, R; Pita, A; González-López, MT; Pardo, C; Zamorano, JA; Ramírez, B; Pérez, R; González-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. CIRUGIA CARDIOVASCULAR. 2019; 26 24-29. (Review).
  - Rodríguez, CM; Martín, TA; Zapata, AL; Martín, YR; Alegre, MLS; Carrasco, JD. Evolution and trends in a pediatric cardiac magnetic resonance imaging program in a tertiary hospital over a 14-year period. RADIOLOGIA. 2019; 61(6) 489-497. (Article).
- Other publications**
- Camino M; Morales MD. Beta 1 -adrenergic receptor antibodies in children with dilated cardiomyopathy. FRONTIERS IN BIOSCIENCE - ELITE. 2019; 11 102-108. (Article).





## 2.06. Blood lipids and cardiovascular risk

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

Organisms involved: **HGUGM**

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
- **Bello Martínez, Elena:** R2. Recognised Researcher.
- **Cabrera Aguilar, Francisco Javier.**
- **Conthe Gutiérrez, Pedro:** R2. Recognised Researcher.
- **De Miguel Yanes, José M<sup>a</sup>.**
- **Del Toro Cervera, Jorge:** R1. First Stage Researcher.
- **Demelo Rodríguez, Pablo:** R1. First Stage Researcher.
- **Galeano Valle, Francisco.**
- **Millán Núñez-Cortes, Jesús:** R4. Leading Researcher.
- **Pérez De Oteyza, Carlos.**
- **Pérez Rus, Gloria:** R1. First Stage Researcher.
- **Recarte García-Andrade, Carlos:** R1. First Stage Researcher.
- **Torres do Rego, Ana.**
- **Valdés Gross, Inés.**

### Doctoral theses, Bachelor thesis and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Irene Bretón Lesmes	Gestación tras la cirugía bariátrica, evolución clínica y nutricional	Luis Antonio Álvarez-Sala Walther, Miguel Angel Rubio Herrera, Alfonso Calle	UCM	19/12/2019

### Publications

Total Impact Factor: 105.3

	Nº	IF
Own publications	13	40.6
Joint publications	19	64.8
First decile publications	1	3.3
First quartile publications	12	59.9
Second quartile publications	9	25.7
Third quartile publications	10	17.9
Fourth quartile publications	1	1.8
Nonindexed publications / No IF	14	-
<b>Total publications (including those without IF)</b>	<b>46</b>	<b>105.3</b>

## 2.06. BLOOD LIPIDS AND CARDIOVASCULAR RISK

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

- Galeano-Valle, F; Haw, JS. Erythematous Rash in a Transgender Patient: A Quiz Erythema ab igne. ACTA DERMATO-VENEREOLÓGICA. 2019; 99(6) 623-624. FI: 4.016. Cuartil: 1. (Editorial Material).
- Galeano-Valle, F; Vengoechea, J; Galindo, RJ. A rare mutation in hypophosphatasia: a case report of adult form and review of the literature. ARCHIVES OF ENDOCRINOLOGY METABOLISM. 2019; 63(1) 89-93. FI: 1.802. Cuartil: 4. (Review).
- García-García, A; Parra-Virto, A; Galeano-Valle, F; Demelo-Rodríguez, P. Spontaneous Pneumomediastinum and Subcutaneous Emphysema: Hamman's Syndrome. ARCHIVOS DE BRONCONEUMOLOGÍA. 2019; 55(12) 661-663. FI: 4.957. Cuartil: 1. (Letter).
- Galeano-Valle, F; Donis-Sevillano, E. Right hypoglossal nerve palsy due to jugular paraganglioma. ATENCION PRIMARIA. 2019; 51(5) 320-321. FI: 1.087. Cuartil: 3. (Editorial Material).
- Fruchart, JC; Santos, RD; Aguilar-Salinas, C; Aikawa, M; Rasadi, K; Amarenco, P; Barter, PJ; Ceska, R; Corsini, A; Despres, JP; Duriez, P; Eckel, RH; Ezhov, MV; Farnier, M; Ginsberg, HN; Hermans, MP; Ishibashi, S; Karpe, F; Kodama, T; Koenig, W; Krempf, M; Lim, S; Lorenzatti, AJ; McPherson, R; Núñez-Cortés, JM; Nordestgaard, BG; Ogawa, H; Packard, CJ; Plutzky, J; Ponte-Negretti, CI; Pradhan, A; Ray, KK; Reiner, Z; Ridker, PM; Ruscica, M; Sadikot, S; Shimano, H; Sritara, P; Stock, JK; Su, TC; Susekov, AV; Tartar, A; Taskinen, MR; Tenenbaum, A; Tokgozoglul, LS; Tomlinson, B; Tybjaerg-Hansen, A; Valensi, P; Vrablik, M; Wahli, W; Watts, GF; Yamashita, S; Yokote, K; Zambon, A; Libby, P. The selective peroxisome proliferator-activated receptor alpha modulator (SPPARM) paradigm: conceptual framework and therapeutic potential: A consensus statement from the International Atherosclerosis Society (IAS) and the Residual Risk Reduction Initiati. CARDIOVASCULAR DIABETOLOGY. 2019; 18 -. FI: 7.332. Cuartil: 1. (Article).
- López-de-Andrés, A; de Miguel-Díez, J; Muñoz-Rivas, N; Hernández-Barrera, V; Mendez-Bailon, M; de Miguel-Yanes, JM; Jiménez-García, R. Impact of type 2 diabetes mellitus in the utilization and in-hospital outcomes of surgical mitral valve replacement in Spain (2001-2015). CARDIOVASCULAR DIABETOLOGY. 2019; 18 -. FI: 7.332. Cuartil: 1. (Review).
- de Miguel-Yanes, JM; Jiménez-García, R; Hernández-Barrera, V; de Miguel-Díez, J; Mendez-Bailon, M; Muñoz-Rivas, N; Pérez-Farinos, N; López-de-Andrés, A. Infective endocarditis according to type 2 diabetes mellitus status: an observational study in Spain, 2001-2015. CARDIOVASCULAR DIABETOLOGY. 2019; 18(1) -. FI: 7.332. Cuartil: 1. (Article).
- Galeano-Valle, F; Pérez-Rus, G; Demelo-Rodríguez, P; Ordieres-Ortega, L; Ortega-Moran, L; Muñoz-Martín, A J; Medina-Molina, S; Álvarez-Sala-Walther, L A; Del-Toro-Cervera, J. Monitoring anti-Xa levels in patients with cancer-associated venous thromboembolism treated with bemiparin. CLINICAL & TRANSLATIONAL ONCOLOGY. 2019; -. FI: 2.737. Cuartil: 3. (Article).
- Troya, J; Ryan, P; Montejano, R; Cabello, A; Cuevas, G; Matarranz, M; Canamares, I; Solis, J; Walther, LAS. Alternative switching strategies based on regimens with a low genetic barrier: do clinicians have a choice nowadays?. EUROPEAN JOURNAL OF CLINICAL MICROBIOLOGY & INFECTIOUS DISEASES. 2019; 38(3) 423-426. FI: 2.837. Cuartil: 2. (Review).
- Méndez-Bailón, M; Jiménez-García, R; Hernández-Barrera, V; Comin-Colet, J; Esteban-Hernández, J; de Miguel-Díez, J; de Miguel-Yanes, JM; Muñoz-Rivas, N; Lorenzo-Villalba, N; López-de-Andrés, A. Significant and constant increase in hospitalization due to heart failure in Spain over 15 year period. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 59 46-52. FI: 4.329. Cuartil: 1. (Article).
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- Pérez-Sanz, MT; Cervilla-Muñoz, E; Alonso-Muñoz, J; Marcelo-Ayala, A; Pulfer, MD; Galeano-Valle, F. Retroperitoneal fibrosis associated with orbital pseudotumor without evidence of IgG4: A case report with review of literature. *INTRACTABLE & RARE DISEASES RESEARCH*. 2019; 8(1) 29-35. (Review).
- Benito-Martínez, E; Galeano-Valle, F; González, A; Edgar, MA; Oprea-Ilieș, G; Ioachimescu, AG; Pasquel, FJ. Ectopic ACTH Syndrome With Association of Multiple Pulmonary Sclerosing Pneumocytomas and Multiple Carcinoid Tumorlets. *JOURNAL OF THE ENDOCRINE SOCIETY*. 2019; 3(5) 937-942. (Article).
- Demelo-Rodríguez, P; Olleros, CL; Higuera, EM; Peligros, I; del Toro-Cervera, J. Gastrointestinal stromal tumor as a cause of cancer-associated thrombosis. *REVISTA DE GASTROENTEROLOGIA DE MEXICO*. 2019; 84(2) 250-252. (Letter).

### **Other publications**

- Galeano-Valle F; Benito-Martínez E; Álvarez-Sala-Walther L; Oprea-Ilieș G; Umpierrez GE; Pasquel FJ. An atypical presentation of diabetic myonecrosis. *AACE CLINICAL CASE REPORTS*. 2019; 5(1) -. (Article).
- Galeano-Valle F; Ordieres-Ortega L; Demelo-Rodríguez P. Acute thrombosis of the azygos vein and severe post-thrombotic syndrome of superior vena cava. *MEDICINA CLINICA*. 2019; 152(11) -. FI: 1.635. Cuartil: 3. (Letter).
- Zamorano-León JJ; Ballesteros S; de Las Heras N; Álvarez-Sala L; de la Serina-Soto M; Zekri-Nechar K; Freixer G; Calvo-Rico B; Yang Z; García-García JM; Lahera V; López-Farré AJ. Effect of Pectin on the Expression of Proteins Associated with Mitochondrial Biogenesis and Cell Senescence in HT29-Human Colorectal Adenocarcinoma Cells. *PREVENTIVE NUTRITION AND FOOD SCIENCE*. 2019; 24(01-ene.) 187-196. (Article).



## 2.07. Acute cerebral ischemia. Stroke

Group director: **ANTONIO GIL NÚÑEZ**

Organisms involved: **HGUGM**

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: Validation of etiologic scales.
- ▶ L7: Teleictus for the area.
- ▶ L8: Study on stroke code for delay times.
- ▶ L9: ESUS GM study.
- ▶ L10: Hidden FA detection in ESOS.
- ▶ L11: Stroke in cancer.
- ▶ L12: Prospective registration of unstable carotid plates in ESUS. PLACA-IN-Esus registration.

Research 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 Núñez, Antonio:** R4. Leading Researcher.
- **Iglesias Mohedano, Ana M<sup>a</sup>:** R2. Recognised Researcher.
- **Vázquez Alen, Pilar:** R1. First Stage Researcher.
- **Vales Montero, Marta:** R1. First Stage Researcher.

### Research Projects – Competitive Calls

- Title: «**REgenerative Stem cell therapy for STroke in Europe**» H2020-RESSTORE  
Director: Gil Núñez, Antonio  
Funding body: European Commission  
Project type: European project  
Start date: 01/10/2015  
End date: 01/10/2020



## 2.07. ACUTE CEREBRAL ISCHEMIA. STROKE

Publications		Total Impact Factor: 34.9
	Nº	IF
Own publications	5	12.5
Joint publications	5	22.4
First decile publications	1	8.8
First quartile publications	4	22.3
Second quartile publications	2	5.8
Third quartile publications	3	6.2
Fourth quartile publications	1	0.6
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>11</b>	<b>34.9</b>

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

- Mohedano, AMI; Pastor, AG; Pinto, AD; Núñez, ACG. Bolus-to-Infusion Time in Stroke Patients Treated with Alteplase on the CT Table: A Clinical Concern. Cerebrovascular Diseases. 2019; 48(1-2) 96-97. FI: 2.698. Cuartil: 2. (Editorial Material).
- García-Pastor, A; Gil-Núñez, A; Ramírez-Moreno, JM; González-Nafria, N; Tejada, J; Moniche, F; Portilla-Cuenca, JC; Martínez-Sánchez, P; Fuentes, B; Gamero-García, MA; de Leciñana, MA; Masjuán, J; Cánovas-Verge, D; Aladro, Y; Parkhutik, V; Lago-Martín, A; de Arce-Borda, AM; Usero-Ruiz, M; Delgado-Mederos, R; Pampliega, A; Ximenez-Carrillo, A; Bartulos-Iglesias, M; Castro-Reyes, E; Spanish Cerebrovasc Dis Study Grp. The risk of recurrent stroke at 24 months in patients with symptomatic carotid near-occlusion: results from CAOS, a multicentre registry study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(2) 230-237. FI: 4.516. Cuartil: 1. (Article).
- Zapata-Wainberg, G; Masjuan, J; Quintas, S; Ximénez-Carrillo, A; Pastor, AG; Zabaleta, MM; Cardona, P; Guerrero, MMF; Llull, L; Fernández, LB; Rodrigo, MC;

Egido, J; Serena, J; Vivancos, J; Res ANITA-FA Study. The neurologist's approach to cerebral infarct and transient ischaemic attack in patients receiving anticoagulant treatment for non-valvular atrial fibrillation: ANITA-FA study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(11) 1391-1398. FI: 4.516. Cuartil: 1. (Article).

- Otero-Ortega, L; Gutiérrez-Fernández, M; Gutiérrez-Zúñiga, R; Madero-Jarabo, R; de Leciñana, MA; Laso-García, F; Lisbona, A; Delgado-Mederos, R; Gállego-Culleré, J; Martínez-Zabaleta, M; Freijo, M; Portilla, JC; Gil-Núñez, A; Díez-Tejedor, E; Fuentes, B; Spanish Cerebrovasc Dis Study Grp. The effect of post-stroke hyperglycaemia on the levels of brain damage and repair-related circulating biomarkers: the Glycaemia in Acute Stroke Study II. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(12) 1439-1446. FI: 4.516. Cuartil: 1. (Article).
- Vales-Montero, M; García-Pastor, A; Iglesias-Mohedano, AM; Esteban-de Antonio, E; Salgado-Cámara, P; García-Domínguez, JM; Vázquez-Alen, P; Díaz-Otero, F; Fernández-Bullido, Y; Gil-Núñez, A. Cerebral amyloid angiopathy-related transient focal neurological episodes: A transient ischemic attack mimic with an increased risk of intracranial hemorrhage. JOURNAL OF THE NEUROLOGICAL SCIENCES. 2019; 406 -. FI: 3.115. Cuartil: 2. (Article).
- Montero, MV; Sierra, OM; Martínez, JR; Gil, FF; Carballal, CF; Cuello, JP. Spinal epidural abscess caused by Streptococcus agalactiae in an immunocompetent patient. MEDICINA CLINICA. 2019; 153(7) 290-292. FI: 1.635. Cuartil: 3. (Editorial Material).
- de la Cruz, MH; Rubio, RD; Buzo, EL; Otero, FD; Alen, PV; Rincón, JO; Montalvo, JP; Chicote, AC; Pérez, FG. Syndrome of transient headache and neurological deficits with cerebrospinal fluid lymphocytosis (HaNDL) in a patient with confusional symptoms, diffuse EEG abnormalities, and bilateral vasospasm in transcranial Doppler ultrasound: A case report and litera. NEUROLOGIA. 2019; 34(7) 493-495. FI: 2.283. Cuartil: 3. (Letter).
- Pérez-Sánchez, JR; Rodríguez, MA; Díaz-Otero, F; Lesmes, IB. Treatment of idiopathic intracranial hypertension with bariatric surgery. NEUROLOGIA. 2019; 34(8) 536-542. FI: 2.283. Cuartil: 3. (Review).
- Ntaios, G; Georgiopoulos, G; Perlepe, K; Sirimarco, G; Strambo, D; Eskandari, A; Nannoni, S; Vemmou, A; Koroboki, E; Manios, E; Rodríguez-Campello, A;





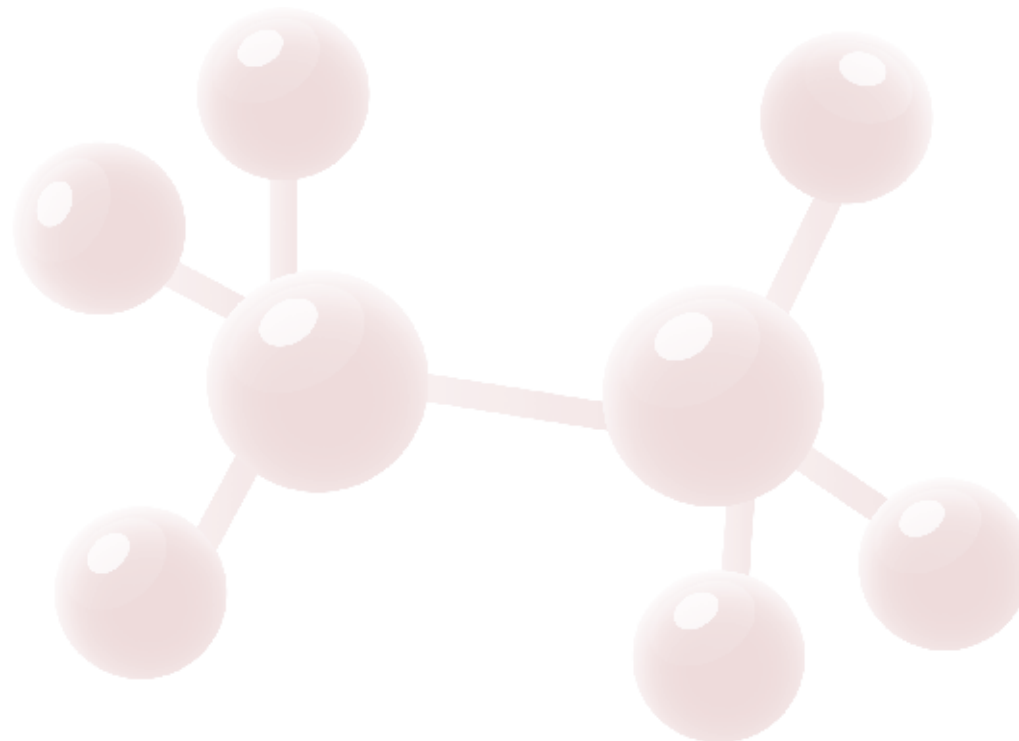
Cuadrado-Godía, E; Roquer, J; Arnao, V; Caso, V; Paciaroni, M; Díez-Tejedor, E; Fuentes, B; Pardo, JR; Sánchez-Velasco, S; Arauz, A; Ameriso, SF; Pertierra, L; Gómez-Schneider, M; Hawkes, MA; Barboza, MA; Cano, BC; Mohedano, AMI; Pastor, AG; Gil-Núñez, A; Putaala, J; Tatlisumak, T; Karagkiozi, E; Papavasileiou, V; Makaritsis, K; Bandini, F; Vemmos, K; Michel, P. A tool to identify patients with embolic stroke of undetermined source at high recurrence risk. *NEUROLOGY*. 2019; 93(23) 2094-2104. FI: 8.77. Cuartil: 1. (Article).

- Mas-Serrano, M; García-Pastor, A; Tornero-Molina, P; Vázquez-Alen, P; Palacios-Mendoza, MA; Gil-Núñez, AC. Treatment of alteplase-induced orolingual

angioedema by means of icatibant. *REVISTA DE NEUROLOGIA*. 2019; 69(6) 261-262. FI: 0.562. Cuartil: 4. (Letter).

#### **Other publications**

- Sánchez-Soblechero A; López-Anguita S; Díaz-Otero F; Vázquez Alen P. Bilateral intracerebral hemorrhage as a presentation of central nervous system vasculitis in a patient with dermatomyositis. *ENEUROLOGICALSCI*. 2019; 15 100181-100181. (Article).



# AREA 3

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

## Neuroscience and Mental Health

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

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

The relevance of the work carried out resides in the group's ability to perform longitudinal studies of unusual types of patient, such as those with early-onset first psychotic episodes or children and adolescents at risk of severe psychiatric disease. Research to date has been multidisciplinary and translational and oriented toward resolving findings associated with the clinical activity of these diseases. In fact, currently established clinical programs for these diseases are being investigated and benefiting from close coordination between clinical practice and research. One of the main associated research lines concerns developmental neuropsychopharmacology, which includes projects on pharmacogenetics and pharmacovigilance, as well as phase II/III clinical trials financed using competitive public funds and private funds.

Finally, a further 2 lines of interest for this group are research on the empirical evaluation of psychotherapeutic approaches during early-onset first psychotic episodes and research into quality of services and evaluation of programs. The success of the group has been particularly apparent in recent European calls for projects and its coordination of the Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM [Networked Center for Biomedical Research in Mental Health]). Furthermore, activity in neuroscience and mental health has been increasing in several emerging groups in fields such as neuroimmunology and movement disorders.

# Groups in AREA 3

## Neuroscience and Mental Health



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

# 3.01. Neurobiological and psychological bases of mental disorders. Disorders of neurodevelopment

Group director: **CELSO ARANGO LÓPEZ**

Organisms involved: **HGUGM - UCM**

Type: **Consolidated Group**

## Research lines

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

- ▶ L1: Consolidation of a network for the evaluation of new therapeutic strategies in Autism Spectrum Disorders. Leader: Mara Parellada and Celso Arango.
- ▶ L2: More efficient integration of the basic research developed at the UCM and the clinical one developed at the HGUGM through collaborative projects and the use of animal models. Leaders: Celso Arango, Carmen Moreno.
- ▶ L3: Increase the capacity and complementarity of our group within CIBERSAM to ensure extension of the samples necessary to reach significant results in collaborative studies. Leaders: Celso Arango, Covadonga Martínez and Carmen Moreno.

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

- ▶ L1: Consolidation of the line of research on populations at high risk of developing mental disorders and neurodevelopmental disorders. Leader: Dolores Moreno, Celso Arango, Covadonga Martínez and Carmen Moreno.

- ▶ L2: Extension of additional sources of funding; autonomous communities, national, international. Leaders: Celso Arango, Covadonga Martínez, Mara Parellada, Carmen Moreno
- ▶ L3: Increase scientific output in the Neurodevelopmental Disorders program. Leaders: Celso Arango, Covadonga Martínez.
- ▶ L4: Increase in scientific production in basic research. Leader: Celso Arango.
- ▶ L5: Continuation and promotion of transnational and collaborative research in schizophrenia and other psychoses. Leaders: Celso Arango.

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

- ▶ L1: Consolidation of the group's teaching plan with a stable offer of courses, training placements, and preparation of doctoral theses. Leaders: Celso Arango, Covadonga Martínez.

### Axis 4: Consolidation of infrastructure

- ▶ L1: Extension of laboratory structures and equipment; consolidation of the Psychiatry Laboratory. Leaders: Celso Arango.



The group «Neurobiological and psychological underpinnings of mental disorders. Neurodevelopmental disorders», led by Dr. Celso Arango, has developed a prolific research activity in collaboration with national and international groups during recent years. This group is one of the few to gain international recognition in the field of 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 by the number of projects with external evaluation that have been funded by competitive calls of public and private institutions (e.g., Instituto de Salud Carlos III, Ministerio de Educación, BBR Foundation, Fundación Mutua Madrileña, Fundación Alicia Koplowitz), predoctoral and postdoctoral researchers with contracts funded by public competitive funds, publications, and collaborations, including development of several novel research lines in collaboration with other departments at the Hospital and IISGM (e.g., biochemistry, medical imaging, experimental medicine, cardiology, genetics, and nutrition, among others). The research team also has broad experience in training in research through a systematic training plan with regular quality checks as part of the EFQM quality assurance program implemented in the Department of Child and Adolescent Psychiatry, Institute of Psychiatry and Mental Health, which has achieved a «+500» classification in the EFQM programme. Several members of the group participate or have participated in 10 projects funded by the European Union Seventh Framework Programme, including one project funded «Network of European Funding for Neuroscience Research (ERANET-NEURON)», 3 projects funded by the Innovative Medicines Call of Horizon 2020 and a project funded by the United States National Institute of Mental Health (NIMH). The group has published numerous articles in high-impact journals (e.g., Nature, Nature Genetics, PNAS, American Journal of Psychiatry, JAMA, Lancet Psychiatry, British Journal of Psychiatry, Schizophrenia Bulletin, Journal of the American Academy of Child and Adolescent Psychiatry, etc.) in the fields of schizophrenia, autism spectrum disorders, and other neurodevelopmental disorders. Their scientific activity has also been translated to clinical practice through several clinical trials and the development and publication of clinical practice guidelines for the management of children and adolescents with neurodevelopmental disorders and other conditions such as psychosis, bipolar disorder, and autism spectrum disorder.

## Group members

- **Abregu Crespo, Renzo:** R1. First Stage Researcher.
- **Alloza Romero, Clara:** R2. Recognised Researcher.
- **Andreu Bernabeu, Álvaro:** R1. First Stage Researcher.
- **Arango López, Celso:** R4. Leading Researcher.
- **Arango Victoria, Manuel Jovino:** Otros.
- **Ayora Rodríguez, Miriam:** R1. First Stage Researcher.
- **Baltasar Tello, Itziar:** R1. First Stage Researcher.
- **Barcenilla González, Miguel Ángel:** Otros.
- **Boada Muñoz, Leticia:** R1. First Stage Researcher.
- **Bravo Sánchez, Marta:** R1. First Stage Researcher.
- **Burdeus Olavarrieta, Mónica:** R1. First Stage Researcher.
- **Calvo Calvo, Ana Belén:** R2. Recognised Researcher.
- **Carballo Belloso, Juan José:** R3. Established Researcher.
- **Carnices Castaño, María.**
- **Cerezo Román, Lourdes:** R1. First Stage Researcher.
- **Colomar Molla, Laura:** R1. First Stage Researcher.
- **Conejo Galindo, Javier:** R1. First Stage Researcher.
- **Corral Zarapuz, Azucena:** Otros.
- **Cuadrado Calleja, Pedro:** R2. Recognised Researcher.
- **Cuesta Santamaría, María Luisa:** Other. Nurse.
- **De Matteis, Mario:** R1. First Stage Researcher.
- **De Portugal Fernández del Rivero, Enrique:** R1. First Stage Researcher.
- **Delgado Lacosta, Carlos:** R1. First Stage Researcher.
- **Dorado Martínez, M<sup>a</sup> Luisa:** R1. First Stage Researcher.
- **Durán Cutillas, Manuel:** R1. First Stage Researcher.
- **Esguevillas Cuesta, Álvaro:** R1. First Stage Researcher.
- **Espliego Felipe, Ana:** R1. First Stage Researcher.
- **Fadón Martín, Patricia Aurora:** R1. First Stage Researcher.
- **Ferre Navarrete, Francisco.**
- **Fresno Cerezo, Rafael:** Other. Nurse.
- **García Alcón, Alicia.**

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### 3.01. NEUROBIOLOGICAL AND PSYCHOLOGICAL BASES OF MENTAL DISORDERS. DISORDERS OF NEURODEVELOPMENT

#### Group members (cont.)

- García Bernardo, Enrique.
- García Cabeza, Ignacio.
- García Martínez, Elisa.
- Garibi Pérez, Ainhoa.
- Garriz Luis, Alexandra: Other. Nurse.
- Gil Molina, Santiago.
- Gómez Aguililla, Sara.
- González Peñas, Javier.
- Hernández Álvarez, Fabián.
- Hernández Jurdado, Patricia.
- Huertas Patón, Abigail.
- Huete Diego, Miguel Á.
- Janssen Jeucken, Joost: Established Researcher.
- Laorden Nieto, Alejandra Teresa.
- Llorente Sarabia, Cloe.
- López Montoya, Gonzalo.
- López Moreno, Laura.
- Lucas Sánchez, María: Other. Nurse.
- Magaz Muñoz, Ana María.
- Martínez Díaz-Caneja, M<sup>a</sup> Covadonga: Established Researcher.
- Martínez Rodríguez, Kenia: Juan de la Cierva.
- Mayoral Aragón, María.
- Mendez Hernández, María Andreína.
- Mendoza García, Ana.
- Merchán Naranjo, Jessica.
- Merchán Ribera, Susana.
- Molina García, M<sup>a</sup> Dolores.
- Morán Moya, Purificación.
- Moreno Pardillo, M<sup>a</sup> Dolores.
- Moreno Ruiz, Carmen: Established Researcher.
- Munilla Suárez, Estrella.

- Olmeda García, M<sup>a</sup> Soledad.
- Parellada Redondo, M<sup>a</sup> José: Established Researcher.
- Parro Torres, Carlos.
- Penzol Alonso, M<sup>a</sup> José.
- Pérez Santonja, Javier.
- Picouto González, M<sup>a</sup> Dolores.
- Pina Camacho, Laura: Established Researcher.
- Rapado Castro, Marta: Established Researcher.
- Recio Lamparero, Sandra.
- Rivas Cambroner, Eva.
- Rivas Rodríguez, María del Mar.
- Rodríguez Latorre, Pamela.
- Rodríguez Toscano, Elisa.
- Roldán Díaz, Laura.
- Romo Villa, José.
- Roncero Rodríguez, Marisol.
- Rubio Fernández, Patricia.
- San José Cáceres, Antonia.
- Sánchez Díaz, Emilio Ignacio.
- Sánchez Gutiérrez, Teresa.
- Sevilla Cermeño, Laura.
- Sijos Gálvez, Lourdes: First Stage Researcher.
- Stella, Carol: First Stage Researcher.
- Szerman Bolotner, Néstor.
- Tapia Casellas, Cecilia.
- Torrero Alía, María: R1. First Stage Researcher.
- Ulloa Solís, Ángela María.
- Urbiola Merina, Elena.
- Valencia Agudo, Fátima.
- Verdura Vizcaino, José Ernesto.
- Vicente Moreno, Raquel Pilar.
- Vicente Sánchez, Isabel.
- Vidal de la Fuente, Jorge: Predoctoral.



## Research Projects – Competitive Calls

- Title: **H2020 Autism Innovative Medicine Studies-2-Trials**. H2020 AIMS-2-TRIALS  
 Director: Arango López, Celso  
 Funding body: European Union  
 Type of project: H2020 European research project  
 Start date: 01/05/2018  
 End date: 31/05/2023
- Title: **Multidisciplinary Approaches to Translational Research in Conduct Syndromes 603016-2 (MATRICS)** 7PM13/MATRICS  
 Director: Arango López, Celso  
 Funding body: European Union  
 Type of project: European research project  
 Start date: 01/03/2014  
 End date: 01/03/2019
  - Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Arango López, Celso  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Integrated research project of excellence  
 Start date: 01/01/2017  
 End date: 31/12/2019
  - Title: **Estudio de seguimiento de niños y adolescentes con diabetes mellitus tipo 1 : mecanismos epigenéticos y comorbilidad afectiva** PI18/01819  
 Director: Carballo Belloso, Juan José  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 31/12/2021
  - Title: **Características comunes y diferenciales en hijos de pacientes con esquizofrenia diagnosticados de TDAH, hijos de padres sanos diagnosticados de TDAH y controles**. PI18/01119  
 Director: Moreno Pardillo, M<sup>a</sup> Dolores  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 31/12/2021
  - Title: **Estudio longitudinal de marcadores oxidativos y neuroinflamatorios de la función cognitiva en primeros episodios de psicosis adolescente**. PI18/00753  
 Director: Rapado Castro, Marta  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2019  
 End date: 31/12/2021
  - Title: **Factores pronósticos y trayectorias de desarrollo del trastorno bipolar de inicio en la infancia y la adolescencia. Estudio longitudinal de seguimiento a 5 año**. PI17/02227  
 Director: MORENO RUIZ, CARMEN  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020
  - Title: **Estudio de seguimiento de prematuros extremos: mecanismos epigenéticos implicados en la génesis de trastornos del espectro autista**. PI17/01997  
 Director: Pina Camacho, Laura  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020
  - Title: **La relación entre cambios estructurales cerebrales y medicación antipsicótica en una muestra nacional y longitudinal de pacientes con primer episodio de psicosis**. PI17/01249  
 Director: Janssen Jeucken, Joost  
 Funding body: Instituto de Salud Carlos III



### 3.01. NEUROBIOLOGICAL AND PSYCHOLOGICAL BASES OF MENTAL DISORDERS. DISORDERS OF NEURODEVELOPMENT

- Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Estudio observacional en jóvenes con estados mentales de alto riesgo. Perfiles diferenciales e influencia de experiencias traumáticas y variables biológicas en el desarrollo de la psicosis.** PI17/00997  
Director: Mayoral Aragón, María  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
  - Title: **Biotipos en Trastornos del 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: 31/12/2020
  - Title: **Envejecimiento celular asociado con exposición temprana a acontecimientos estresantes den el síndrome de delección 22q11.2** PI17/00481  
Director: Fraguas Herraiez, David  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
  - Title: **Evaluación de la eficacia de una intervención preventiva sobre la prevalencia de bullying y el estado de salud en niños y adolescentes: Ensayo Clínico autorizado por Clusters.** PI16/02012  
Director: Arango López, Celso  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2017  
End date: 31/12/2019
  - Title: **«Estudio de seguimiento a 8 años de la primera evaluación de niños y adolescentes hijos de pacientes con esquizofrenia o trastorno bipolar»** PI15/00810  
Director: Moreno Pardillo, María Dolores  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2016  
End date: 30/11/2020
  - Title: **Estudio multicéntrico del maltrato en la infancia y el riesgo para enfermedad mental en niños y adolescentes: análisis de modificaciones epigenéticas y de su correlato con biomarcadores de inmunidad innata en un modelo periférico.** PI15/00723  
Director: Rapado Castro, Marta  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2016  
End date: 31/12/2019
  - Title: **Estudio de vías fisiopatológicas diferenciales asociadas a fenotipos distintivos en una muestra de 200 pacientes con trastornos del espectro autista.** PI14/02103  
Director: Parellada Redondo, MARÍA José  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2015  
End date: 31/12/2019
  - Title: **Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayor de inicio temprano.** PI14/00815  
Director: Jansen, Joost  
Funding body: Instituto de Salud Carlos III  
Type of project: Research project  
Start date: 01/01/2015  
End date: 30/06/2019
  - Title: **«Mecanismos etiofisiopatológicos comunes y diferenciales en el trastorno bipolar y la depresión mayor de inicio temprano».** PI14/02069





Director: Moreno Alonso, Carmen  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Research project  
 Start date: 01/01/2015  
 End date: 30/06/2019

- Title: **Biomarcadores de estrés oxidativo e inflamación en orina de recién nacidos prematuros extremos** FAK19/01  
 Director: Pina Camacho, Laura  
 Funding body: Fundación Alicia Koplowitz  
 Type of project: Research project  
 Start date: 01/11/2019  
 End date: 31/10/2021
- Title: **Combinación de tratamiento con N-acetil Cisteína (NAC) y entrenamiento cognitivo para promover cambios en los patrones de activación conductuales y neurales que subyacen al déficit cognitivo en psicosis adolescente** FAK18/01  
 Director: Rapado Castro, Marta  
 Funding body: Fundación Alicia Koplowitz  
 Type of project: Research project  
 Start date: 01/11/2018  
 End date: 31/10/2020
- Title: **Prevención de envejecimiento celular en adolescentes con primer episodio psicótico tratados con N-acetil cisteína** FAK17/01  
 Director: Fraguas Herraiz, David  
 Funding body: Fundación Alicia Koplowitz  
 Type of project: Research project  
 Start date: 01/11/2017  
 End date: 31/10/2019
- Title: **A combination of two treatment strategies to promote changes in behavioral and neural activation patterns underlying cognitive deficits in adolescent psychosis** NARSAD2016  
 Director: Rapado Castro, Marta  
 Funding body: Brain & Behaviour Research Foundation  
 Type of project: Research project

Start date: 01/06/2019  
 End date: 31/12/2019

- Title: **Convocatoria beca predoctoral en Neurociencias 2016** FTPGB16/01  
 Director: Molina García, María Dolores  
 Funding body: Fundación Tatiana Pérez de Guzmán El Bueno  
 Type of project: Research project  
 Start date: 12/12/2016  
 End date: 11/12/2020
- Title: **Ramón y Cajal Contract** RYC-2017-23144  
 Director: Rapado Castro, Marta  
 Funding body: MICINN  
 Type of project: Human resources  
 Start date: 01/09/2018  
 End date: 31/08/2024
- Title: **Ramón y Cajal Contract** RYC-2017-23144  
 Director: Rapado Castro, Marta  
 Funding body: MICINN  
 Type of project: Human resources  
 Start date: 01/09/2018  
 End date: 31/08/2024
- Title: **Beca de doctorado Fundación Bancaria La Caixa- INPHINIT2018-CS**  
 Director: Arango López, Celso (Carol Stella)  
 Funding body: LA CAIXA  
 Type of project: Human resources  
 Start date: 29/10/2018  
 End date: 28/10/2021
- Title: **Miguel Servet Contract** CP18/00077  
 Director: Rapado Castro, Marta  
 Funding body: Instituto de Salud Carlos III  
 Type of project: Human resources  
 Start date: 01/01/2019  
 End date: 01/10/2019



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- Title: **Río Hortega Contract** CM17/00119  
Director: Durán Cutilla, Manuel  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2018  
End date: 28/01/2020
- Title: **Río Hortega Contract** CM17/00121  
Director: Ayora Rodríguez, Miriam Valle  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 29/01/2018  
End date: 28/01/2020
- Title: **Sara Borrell Contract** CD18/00185  
Director: Arango López, Celso (Kenia Martínez)  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2019  
End date: 01/10/2019
- Title: **PREDOCTORAL Contract** FI18/00233  
Director: Burdeus Olavarrieta, 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: 31/12/2022
- Title: **PREDOCTORAL Contract** FI17/00230  
Director: Abregu Crespo, Renzo  
Funding body: Instituto de Salud Carlos III (Ayudas Predoctorales de Formación en Investigación en Salud)  
Type of project: Human resources  
Start date: 02/04/2018  
End date: 01/04/2022
- Title: **JUAN RODÉS Contract** JR16/00013  
Director: Pina Camacho, Laura  
Funding body: Instituto de Salud Carlos III  
Type of project: Human resources  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Ayudas para la incorporación estable de Doctores.** IEDI-2016-00793  
Director: Janssen Jeucken, Joost  
Funding body: Ministerio de Economía Industria y Competitividad  
Type of project: Human resources  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Formación profesorado universitario** FPU18/06550  
Director: Rubio Fernández, Patricia  
Funding body: MICINN  
Type of project: Human resources  
Start date: 29/10/2019  
End date: 28/10/2023
- Title: **Formación profesorado universitario** FPU16/01740  
Director: García Alcón, Alicia  
Funding body: MICINN/MINECO  
Type of project: Human resources  
Start date: 24/10/2017  
End date: 23/10/2021
- Title: **Formación profesorado universitario** FPU17/06467  
Director: Colomar Molla, Laura  
Funding body: MICINN  
Type of project: Human resources  
Start date: 26/10/2018  
End date: 25/10/2022
- Title: **JUAN DE LA CIERVA 2017. INCORPORACIÓN** IJCI-2017-33381  
Director: Martínez Rodríguez, Kenia  
Funding body: MICINN  
Type of project: Human resources  
Start date: 01/10/2018  
End date: 22/01/2019



- Title: Young employment contract. Ayudante investigación PEJ-2017-AI/BMD-6274**  
 Director: Arango López, Celso  
 Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
 Type of project: Human resources  
 Start date: 02/02/2018  
 End date: 01/02/2020
- Title: Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI) PEJD-2018-PRE/BMD-8487**  
 Director: Arango López, Celso  
 Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
 Type of project: Human resources  
 Start date: 02/02/2019  
 End date: 01/02/2021
- Title: Contratación de investigadores Predoctorales cofinanciadas por Fondo Social Europeo, a través del Programa Operativo de Empleo Juvenil y la Iniciativa de Empleo Juvenil (YEI) PEJD-2018-PRE/BMD-9585**  
 Director: Janssen Jeucken, Joost  
 Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
 Type of project: Human resources  
 Start date: 01/01/2019  
 End date: 29/10/2019



### Cooperative Research Structures

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

### Doctoral theses, Bachelor thesis and Master's thesis

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	María Covadonga Martínez Díaz-Caneja	Efectos secundarios de tipo metabólico asociados al tratamiento con antipsicóticos de segunda generación en niños, adolescentes y adultos	Celso Arango López	UCM	01/02/2019
Ph Thesis	José De Arriba Enriquez	Productividad científica y calidad en servicios en salud mental: Estudio de la asociación entre la actividad científica en psiquiatría, y la calidad asistencial sanitaria prestada a pacientes en servicios de psiquiatría en hospitales españoles	Celso Arango López	UC3M	01/03/2019
Ph Thesis	Alejandra Laorden Nieto	Caracterización del rendimiento neuropsicológico en personas con síndrome de delección 22q11.2	David Fraguas Herraiz, María Mayoral Aragón, Juan José Carballo Belloso	UCM	01/03/2019

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#### Clinical Practice Guidelines

Authors	Title	Journal/ Reference
Hebebrand, J.; Falissard, B.; Hoekstra, PJ.; Kaess, M.; Melchior, M.; Micali, N.; Moreno, C.; Rommelse, N.; Roessner, V.; Signorini, G.	EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry	European Child and Adolescent Psychiatry, 28(6):731-734
Arango, C.; Baeza, I.; Bernardo, M.; Cañas, F.; de Dios, C.; Díaz-Marsá, M.; García-Portilla, MP.; Gutiérrez-Rojas, L.; Olivares, JM.; Rico-Villademoros, F.; Rodríguez-Jiménez, R.; Sánchez-Morla, EM.; Segarra, R.; Crespo-Facorro, B.	Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain	Revista de Psiquiatría y Salud Mental, 12(2):92-105

#### Publications

Total Impact Factor: 279.7

	Nº	IF
Own publications	15	69.0
Joint publications	30	210.8
First decile publications	24	207.4
First quartile publications	34	251.8
Second quartile publications	8	22.6
Third quartile publications	3	5.3
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>47</b>	<b>279.7</b>

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

- González, E; Arias, F; Szerman, N; Vega, P; Mesias, B; Basurte, I. Coexistence between personality disorders and substance use disorder. Madrid study about prevalence of dual pathology. ACTAS ESPAÑOLAS DE PSIQUIATRIA. 2019; 47(6) 218-228. FI: 1.681. Cuartil: 3. (Article).
- de Zwarte, SMC; Brouwer, RM; Agartz, I; Alda, M; Aleman, A; Alpert, KI; Bearden, CE; Bertolino, A; Bois, C; Bonvino, A; Bramon, E; Buimer, EEL; Cahn, W; Cannon, DM; Cannon, TD; Caseras, X; Castro-Fornieles, J; Chen, Q; Chung, Y; De la Serna, E; Di Giorgio, A; Doucet, GE; Eker, MC; Erk, S; Fears, SC; Foley, SF; Frangou, S; Frankland, A; Fullerton, JM; Glahn, DC; Goghari, VM; Goldman, AL; Gonul, AS; Gruber, O; de Haan, L; Hajek, T; Hawkins, EL; Heinz, A; Hillegers, MHJ; Pol, HEH; Hultman, CM; Ingvar, M; Johansson, V; Jonsson, EG; Kane, F; Kempton, MJ; Koenis, MMG; Kopecek, M; Krabbendam, L; Kramer, B; Lawrie, SM; Lenroot, RK; Marcelis, M; Marsman, JBC; Mattay, VS; McDonald, C; Meyer-Lindenberg, A; Michielse, S; Mitchell, PB; Moreno, D; Murray, RM; Mwangi, B; Najt, P; Neilson, E; Newport, J; van Os, J; Overs, B; Ozerdem, A; Picchioni, MM; Richter, A; Roberts, G; Aydogan, AS; Schofield, PR; Simsek, F; Soares, JC; Sugranyes, G; Touloupoulou, T; Tronchin, G; Walter, H; Wang, L; Weinberger, DR; Whalley, HC;

- Yalin, N; Andreassen, OA; Ching, CRK; van Erp, TGM; Turner, JA; Jahanshad, N; Thompson, PM; Kahn, RS; van Haren, NEM. The Association Between Familial Risk and Brain Abnormalities Is Disease Specific: An ENIGMA-Relatives Study of Schizophrenia and Bipolar Disorder. *BIOLOGICAL PSYCHIATRY*. 2019; 86(7) 545-556. FI: 12.095. Cuartil: 1. (Article).
- Craig, MC; Mulder, LM; Zwiars, MP; Sethi, A; Hoekstra, PJ; Dietrich, A; Baumeister, S; Aggensteiner, PM; Banaschewski, T; Brandeis, D; Werhahn, JE; Walitza, S; Castro-Fornieles, J; Arango, C; Schulze, UME; Glennon, JC; Franke, B; Santosh, PJ; Mastroianni, M; van Asten, JJA; Buitelaar, JK; Lythgoe, DJ; Naaijen, J. Distinct associations between fronto-striatal glutamate concentrations and callous-unemotional traits and proactive aggression in disruptive behavior. *CORTEX*. 2019; 121 135-146. FI: 4.009. Cuartil: 1. (Article).
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  - Moreno, C; Parellada, M; MacDowell, KS; García-Bueno, B; Cabrera, B; González-Pinto, A; Saiz, P; Lobo, A; Rodríguez-Jiménez, R; Berrocoso, E; Bernardo, M; Leza, JC; FLAMM-PEPs Study; Ctr Invest Biomedica Red Salud Men. Differences in the regulation of inflammatory pathways in adolescent- and adult-onset first-episode psychosis. *EUROPEAN CHILD & ADOLESCENT PSYCHIATRY*. 2019; 28(6) 731-734. FI: 3.941. Cuartil: 1. (Editorial Material).
  - Hebebrand, J; Falissard, B; Hoekstra, PJ; Kaess, M; Melchior, M; Micali, N; Moreno, C; Rommelse, N; Roessner, V; Signorini, G. EUREXIT? High time to consider the merits of European collaboration in child and adolescent psychiatry. *EUROPEAN CHILD & ADOLESCENT PSYCHIATRY*. 2019; 28(3) 289-291. FI: 3.941. Cuartil: 1. (Editorial Material).
  - Moreno, C; Zuddas, A. Re-thinking treatment targets in child and adolescent psychiatry. *EUROPEAN CHILD & ADOLESCENT PSYCHIATRY*. 2019; 28(10) 1395-1405. FI: 3.941. Cuartil: 1. (Article).
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## 3.02. Neurological diseases

Group director: FRANCISCO GRANDAS PÉREZ

Organisms involved: HGUGM

Type: Emerging group

### Research lines

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

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

#### Axis 2: Dementia

- ▶ L1: Alzheimer's disease. Leader: Javier Olazarán.

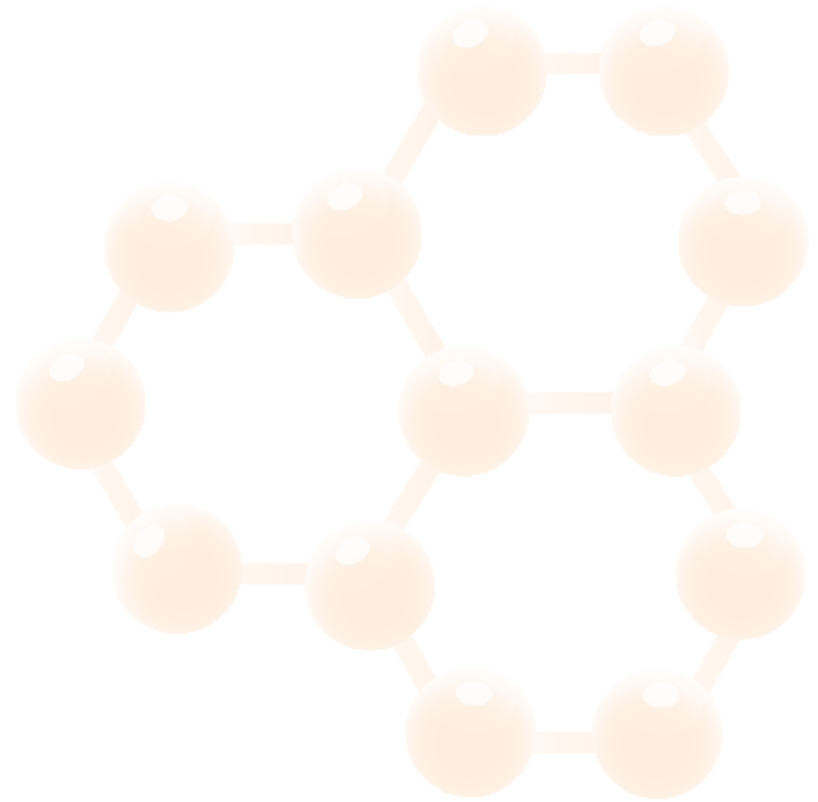
#### Axis 3: Neuroinflammation

- ▶ L1: Neuroinflammation in neurodegenerative diseases. Leader: M<sup>a</sup> Concepción Guisasaola.
- ▶ L2: Multiple sclerosis. Leader: José Manuel García Domínguez.

#### Axis 4: Neuromuscular diseases

- ▶ L1: Amyotrophic lateral sclerosis. Leader: José Luis Muñoz Blanco.

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



### Group members

- **Castro de Castro, Pedro:** R2. Recognised Researcher.
- **Catalina Álvarez, Irene.**
- **Contreras Chicote, Ana.**
- **Cuello, Juan Pablo.**
- **De la Casa Fages, Beatriz:** R2. Recognised Researcher.
- **Fernández Carballal, Carlos:** R1. First Stage Researcher.
- **García Domínguez, José Manuel:** R1. First Stage Researcher.
- **Goicoechea Briceño, Haydee:** Other. Support Technician.
- **Grandas Pérez, Francisco Javier:** R4. Leading Researcher.
- **Guisasola Zulueta, M<sup>a</sup> Concepción:** R3. Established Researcher
- **Guzmán de Villoria Lebiedziejewski, Juan Adan:** Other. Laboratory Technician.
- **Higueras Hernández, Yolanda:** R2. Recognised Researcher.
- **Lozano Ros, Alberto:** R1. First Stage Researcher.
- **Mari Hualde, Amaia:** R1. First Stage Researcher.
- **Martínez Ginés, M<sup>a</sup> Luisa:** R1. First Stage Researcher.
- **Massot Tarrus, Andreu:** R2. Recognised Researcher.
- **Mateo Sierra, Olga.**
- **Meldaña Rivera, Ariana.**
- **Miranda Herrero, M<sup>a</sup> Concepción:** R2. Recognised Researcher.
- **Muñoz Blanco, José Luis:** R1. First Stage Researcher.
- **Olazarán Rodríguez, Francisco Javier:** R2. Recognised Researcher.
- **Pérez Rivas, M<sup>a</sup> de los Ángeles.**
- **Pérez Sánchez, Javier Ricardo:** R1. First Stage Researcher.
- **Pérez Vivas, M<sup>a</sup> del Mar.**
- **Prieto Montalvo, Julio Ignacio:** R2. Recognised Researcher.
- **Romero Martínez, Julia:** R1. First Stage Researcher.
- **Sánchez Fernández, M<sup>a</sup> Jesús.**
- **Traba López, Alfredo:** R1. First Stage Researcher.
- **Vales Montero, Marta.**

### Research Projects – Competitive Calls

- Title: **H2020 EXTEND 779982. Bidirectional Hyper-Connected Neural System** H2020 EXTEND 779982  
Director: Grandas Pérez, Francisco Javier  
Funding body: EU/PRG. MARCO  
Project type: European Research project  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Evaluación objetiva de la marcha y de la postura mediante sensores inerciales en pacientes con enfermedad de Parkinson. Desarrollo de un índice global de locomoción y equilibrio** PI17/02007  
Director: Grandas Pérez, Francisco Javier  
Funding body: EU/PRG. MARCO  
Project type: Research project  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Young employment program: Laboratory technician** PEJ16/MED/TL-0811  
Director: Guisasola Zulueta, María Concepción  
Funding body: Consejería Educación Cultura y Deporte. Comunidad de Madrid  
Project type: Human resources  
Start date: 03/02/2017  
End date: 03/02/2019

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Procedimiento mejorado para evaluar el riesgo cardiovascular	P 2009 01923 (Familia con 2 patentes)	FIBHGM	María Concepción Guisasola, Elena Dulín

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



**Publications**

Total Impact Factor: 141.9

	Nº	IF
Own publications	16	55.3
Joint publications	23	86.5
First decile publications	5	40.9
First quartile publications	15	93.1
Second quartile publications	9	25.0
Third quartile publications	10	19.4
Fourth quartile publications	5	4.4
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>41</b>	<b>141.9</b>

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- Fernández, LE; Gongora, AC; López, MV; Arrondo, APP; Herrero, MCM; Valde-rama, EB; de Castro, PC. Continuous spike-waves during slow-wave sleep: Experience during 20 years. *ANALES DE PEDIATRIA*. 2019; 91(3) 180-188. FI: 1.313. Cuartil: 3. (Article).
- Parra, MA; Calla, C; García, AF; Olazarán-Rodríguez, J; Hernández-Tamames, JA; Álvarez-Liner, J; Della Sala, S; Guinea, SF. Refining memory assessment of elderly people with cognitive impairment: Insights from the short-term memory binding test. *ARCHIVES OF GERONTOLOGY AND GERIATRICS*. 2019; 83 114-120. FI: 2.128. Cuartil: 3. (Article).
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# AREA 4

Area coordinator:  
**Patricia Muñoz García de Paredes**

## Clinical Microbiology, Infectious Diseases and AIDS

Despite considerable advances in our knowledge of infectious diseases in recent years, infection continues to be the main health problem facing society today. The spectrum of infection has been modified by the appearance of new infectious diseases, the increase in the number of immunosuppressed patients with their corresponding opportunistic infections, resistance to antibiotics, and the increased frequency of severe fungal infections. Hence the need for a priority research area in infectious diseases and AIDS at the IISGM. Essentially, this area carries out its research around 2 consolidated groups that generate considerable activity both in clinical practice and in laboratory research. In particular, the groups of the area form part of the Centro de Investigación Biomédica Enfermedades Respiratorias (CIBERES [*Networked Center for Biomedical Research in Respiratory Disease*]), promote and lead cooperative networks in transplantation (RESITRA), and manage different multicenter cohorts in the field of AIDS (GESIDA [*AIDS Study Group*]).

The fact that the area runs several research lines covering the broad spectrum of infectious diseases has not prevented it from generating considerable scientific and academic output during the last 5 years. Of note, a strength of this area is its ability to obtain human resources through competitive calls.

Undoubtedly, the future of this area is based on the maintenance of those aspects of translational research that have characterized its activity to date. Basic research laboratory work has increased, and new molecular epidemiology systems based on direct sample 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

## Infectious Diseases and AIDS



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

# 4.01. Infectious diseases and AIDS

Group director: PATRICIA MUÑOZ GARCÍA DE PAREDES

Organisms involved: HGUGM

Type: Consolidated group

## Research lines

### Axis 1: Cardiovascular infection

- ▶ L1.1: Endocarditis.
- ▶ L1.2: Endovascular catheters.

### Axis 2: Pneumonia

- ▶ L2.1: Ventilator-associated pneumonia (VAP).
- ▶ L2.2: Severe non-ventilator-associated pneumonia.

### Axis 3. Infections in immunodepressed patients

- ▶ L3.1: Influenza and its clinical impact.
- ▶ L3.2: BK Virus.
- ▶ L3.3: Infections in transplant recipients.

### Axis 4. Mycobacterial infection

- ▶ L4.1: Clonal complexity of tuberculosis.
- ▶ L4.2: Molecular epidemiology of tuberculosis.
- ▶ L4.3: Development of new molecular diagnosis techniques.
- ▶ L4.4: Characterization of infectivity.
- ▶ L4.5: QuantiFERON line.

### Axis 5. Bone and joint infection

- ▶ L5.1: Infection of joint prostheses.

### Axis 6. Invasive nosocomial mycosis

- ▶ L6.1: Optimization of the diagnosis of invasive aspergillosis.
- ▶ L6.2: Prevention of nosocomial aspergillosis through control of the quality of room air.
- ▶ L6.3: Treatment of invasive aspergillosis.
- ▶ L6.4: Technological development in the diagnosis of invasive candidiasis.

- ▶ L6.5: Treatment of invasive candidiasis.
- ▶ L6.6: Less common fungal pathogens.
- ▶ L6.7: Antifungal stewardship.
- ▶ L6.8: Fungal infection: animal models.
- ▶ L6.9: Studies of virulence and biofilm production.
- ▶ L6.10: Molecular characterization study.

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

- ▶ L7.1: Intestinal microbiota in severely ill patients.
- ▶ L7.2: *Clostridium difficile*.
- ▶ L7.3: *Staphylococcus aureus*.
- ▶ L7.4: Multiresistant gram-negative rods.
- ▶ L7.5: 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

- **Abascal Saiz, Estefanía:** R1. First Stage Researcher.
- **Acosta García, Fermín:** R1. First Stage Researcher.
- **Adan Rodríguez, Iván.**
- **Adrados Ruiz, Daniel:** R3. Established Researcher.
- **Agnelli Bento, Caroline:** R1. First Stage Researcher.
- **Alcalá Hernández, Luis:** R3. Established Researcher.
- **Alonso Fernández, Beatriz:** R1. First Stage Researcher.
- **Alonso Fernández, Roberto:** R3. Established Researcher.
- **Álvarez Romasanta, Beatriz:** R2. Recognised Researcher.
- **Álvarez Valdivieso, José Miguel.**
- **Álvarez-Uria Miyares, Ana M<sup>a</sup>:** R2. Recognised Researcher.
- **Arroyo Pedrero, Luis Antonio:** R2. Recognised Researcher.
- **Bordallo Cardona, M<sup>a</sup> Ángeles:** R1. First Stage Researcher.
- **Bouza Santiago, Emilio:** R4. Leading Researcher.
- **Burillo Albizua, Almudena:** R3. Established Researcher.
- **Cabrero Ballesteros, Inmaculada.**
- **Candela González, Ana:** R2. Recognised Researcher.
- **Cercenado Mansilla, Emilia:** R2. Recognised Researcher.
- **Cobos Fernández, Alejandro.**
- **Díaz Pérez, Nadire M<sup>a</sup>:** Other. Lab Technician.
- **Escribano Martos, Pilar:** R3. Established Researcher.
- **Estévez Prieto, Agustín:** R2. Recognised Researcher.
- **Fernández Rey, Rocío:** Other. Management.
- **García Morales, Paula:** Other. Support Technician.
- **García de Viedma del Álamo, Darío:** R3. Established Researcher.
- **Gijón Vidaurreta, Paloma:** R3. Established Researcher.
- **Gómez Castellás, Javier.**
- **Gómez Núñez, Ana:** Other. Support Technician.
- **González Saez, Adolfo.**
- **Goyanes Galán, M<sup>a</sup> José:** R1. First Stage Researcher.
- **Guembe Ramírez, María:** R3. Established Researcher.
- **Guinea Ortega, Jesús Vicente:** R3. Established Researcher.
- **Haces Pinto, Laura Vanessa:** R2. Recognised Researcher.

- **Herranz Martín, Marta:** R1. First Stage Researcher.
- **Hortal Iglesias, Francisco Javier:** R2. Recognised Researcher.
- **Jiménez Navarro, Laura:** Other. Lab Technician.
- **Kestler Hernández, Martha Jeannette:** R2. Recognised Researcher.
- **Losada Machuca, Carmen Narcisa:** R2. Recognised Researcher.
- **Lozano García, Laura.**
- **Machado Vilchez, Marina:** R1. First Stage Researcher.
- **Marín Arriaza, María de las Mercedes:** R2. Recognised Researcher.
- **Martín López, Adoración:** R2. Recognised Researcher.
- **Martín-Rabadán Caballero, Pablo:** R2. Recognised Researcher.
- **Muñoz García-Paredes, Patricia:** R4. Leading Researcher.
- **Navarro García, Yurena de los Ángeles.**
- **Olmedo Samperio, María:** R2. Recognised Researcher.
- **Padilla Ortega, Belén:** R2. Recognised Researcher.
- **Palomo Lastras, María:** R2. Recognised Researcher.
- **Pérez García, Laura:** R2. Recognised Researcher.
- **Pérez Granda, M<sup>a</sup> Jesús:** Other. Nursing.
- **Quiroga Maroto, Lidia:** Other. Lab Technician.
- **Reigadas Ramírez, Elena Manuela:** Recognised Researcher.
- **Rincón Sanz, Cristina.**
- **Rodríguez Fernández, Sara:** Other. Nursing.
- **Rodríguez Maus, Sandra:** Other. Support Technician.
- **Rodríguez Sánchez, Belén:** R3. Established Researcher.
- **Ruiz Serrano, M<sup>a</sup> Jesús:** R2. Recognised Researcher.
- **Sánchez Somolinos, Mar:** R2. Recognised Researcher.
- **Serrano Lobo, Julia.**
- **Valerio Minero, Maricela:** R2. Recognised Researcher.
- **Vázquez Cuesta, Silvia Noemí:** Other. Lab Technician.
- **Veintimilla Yáñez, M<sup>a</sup> Cristina:** R2. Recognised Researcher.
- **Villa Martínez, Sofía:** R2. Recognised Researcher.
- **Villar Gomara, Laura:** R1. First Stage Researcher.
- **Zamora Cintas, M<sup>a</sup> Isabel:** R2. Recognised Researcher.

### Research Projects – Competitive Calls

- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Bouza Santiago, Emilio  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **A novel transnational strategy to control high-risk tuberculosis transmission events.** AC16/00057  
Director: García De Viedma del Álamo, Darío  
Funding body: Instituto de Salud Carlos III  
Project type: Complementary action  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Impacto del uso de 3 apósitos en la prevención de infección de herida quirúrgica en pacientes de Cirugía 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: 31/12/2021
- Title: **Estudio CANDIMAD, una perspectiva microbiológica de la candidiasis invasora diagnosticada en Madrid: etiología causal, sensibilidad a antifúngicos y clones circulantes** PI18/01155  
Director: Guinea Ortega, Jesús Vicente  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Optimización de la técnica de Espectrometría de Masas MALDI-TOF como Herramienta de Identificación Rápida de Hongos Filamentosos** PI18/00997  
Director: Rodríguez Sánchez, María Belén  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Plataforma avanzada para optimizar el diagnóstico y vigilancia epidemiológica de la tuberculosis** PI18/00599  
Director: García De Viedma del Álamo, Darío  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Impacto de la implementación de un "bundle" para disminuir complicaciones asociadas al uso de catéteres venosos periféricos en pacientes ingresados en Medicina Interna** PI18/00045  
Director: Guembe Ramírez, María  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Influencia de la gripe en los eventos 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: 31/12/2020
- Title: **Desarrollo de un Biobanco de microbiota intestinal humana para programas de intervención precoz en el control de la Infección por Clostridium difficile (Proyecto BIOMICO).** PI16/00490  
Director: Bouza Santiago, Emilio





Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2017  
 End date: 31/12/2019

- Title: **Diseño, puesta a punto y evaluación de una plataforma de captura de DNA de Mycobacterium tuberculosis para abordar la secuenciación de genoma completo directamente sobre muestra clínica.** PI16/01449  
 Director: Pérez García, Laura  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Caracterización Genotípica de Cándida como herramienta micro-biológica para la discriminación entre cepas invasoras o colonizadoras.** PI16/01012  
 Director: Escribano Martos, Pilar  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Detección temprana de resistencias a antibióticos y antifungios usando espectrometría de masas (MALDI-TOF MS).** PI15/01073  
 Director: Rodríguez Sánchez, Belén  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2016  
 End date: 30/11/2020
- Title: **Evaluación multicéntrica de una estrategia innovadora de vigilancia y caracterización avanzada de eventos de transmisión activa de Mycobacterium tuberculosis de especial relevancia).** PI15/01554  
 Director: García De Viedma del Álamo, Darío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2016  
 End date: 30/11/2020

- Title: **Caracterización de un brote de Clostridium difficile del ribotipo hipervirulento 027 mediante técnicas de epidemiología molecular** PI15/02046  
 Director: Marín Arriaza, María de las Mercedes  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2016  
 End date: 30/11/2020
- Title: **Juan Rodes Contract** JR18/00030  
 Director: Galar Recalde, Alicia  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/12/2018  
 End date: 31/12/2021
- Title: **Miguel Servet Contract** CP15/00115  
 Director: Escribano Martos, Pilar  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2016  
 End date: 31/12/2020
- Title: **Miguel Servet Contract** CP15/00075  
 Director: Pérez García, Laura  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2016  
 End date: 31/12/2020
- Title: **Miguel Servet II Contract** CP14/00220  
 Director: Rodríguez Sánchez, Belén  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2015  
 End date: 31/12/2019
- Title: **Miguel Servet II Contract** CPII18/00008  
 Director: Guembe Ramírez, María



## 4.01. INFECTIOUS DISEASES AND AIDS

Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2014  
 End date: 31/12/2018

- Title: **Río Hortega Contract** CM18/00089  
 Director Álvarez-URIA MIYARES, ANA MARÍA  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Río Hortega Contract** CM17/00131  
 Director Olmedo Samperio, María  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2018  
 End date: 31/12/2020
- Title: **Young employment contract** PEJ2018-004609-A  
 Director Guinea Ortega, Jesús Vicente  
 Funding body: MICINN  
 Project type: Human resources  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: **Young employment contract.** PEJ2018-004613-A  
 Director Escribano Martos, Pilar  
 Funding body: MICINN  
 Project type: Human resources  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: **Young employment contract: Laboratory technician.** PEJ-2018-TL/BMD-10671  
 Director Escribano Martos, Pilar  
 Funding body: Conserjería de Educación. Comunidad de Madrid  
 Project type: Human resources  
 Start date: 04/03/2019  
 End date: 03/03/2021

- Title: **Young employment contract: Postdoctoral contract.** PEJD-2018-POST/BMD-8664  
 Director: García De Viedma del Álamo, Darío  
 Funding body: Conserjería de Educación. Comunidad de Madrid  
 Project type: Human resources  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Young employment contract: Predoctoral contract.** PEJD-2017-PRE/BMD-3596  
 Director: Guembe Ramírez, María  
 Funding body: Conserjería de Educación. Comunidad de Madrid  
 Project type: Human resources  
 Start date: 01/02/2018  
 End date: 31/01/2019
- Title: **Young employment contract: Laboratory technician.** PEJ16/MED/TL-1507  
 Director: Rodríguez Sánchez, Belén  
 Funding body: MICINN  
 Project type: Human resources  
 Start date: 01/01/2017  
 End date: 31/12/2019

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
CIBER	CIBERES	Collaborating group
RETIC	REIPI	Others: active researchers
Plataforma ISCIII	Plataforma española de EECC	Collaborating group
Others	RESITRA (Red Cooperativa de Infección en Paciente trasplantado)	Collaborating group



## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U201430814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, M <sup>a</sup> Jesús Pérez
Dispositivo aplicador de antifúngico coloreado	P201430751	FIBHGM	Pablo Martín-Rabadán
Portaobjetos	U201430943	FIBHGM	Pablo Martín-Rabadán Caballero
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

Title	Reference*	Owner	Inventors
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
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

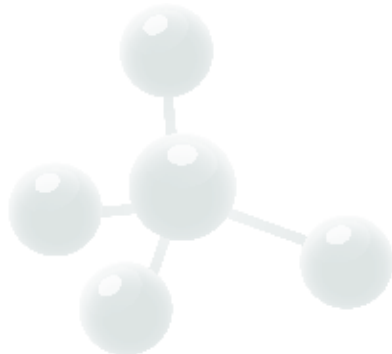
\* Reference: P (Patent), PCT (international patent), EP (European patent), US (USA patent), U (Utility model), M (Trademark).



## 4.01. INFECTIOUS DISEASES AND AIDS

### Doctoral theses, Bachelor thesis and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Estefanía Abascal	Integración de estrategias de secuenciación de genoma completo para optimizar el conocimiento de las dinámicas de transmisión de Mycobacterium tuberculosis y para profundizar en el estudio de la complejidad clonal en la infección por este patógeno	Dario García De Viedma Del Alamo	UCM	01/01/2019
Ph Thesis	María Ángeles Bordallo Cardona	Aproximación fenotípica y molecular a la inducción y detección de resistencia a equinocandinas en Candida glabrata	Pilar Escribano Martos; Jesús Vicente Guinea Ortega	UCM	01/01/2019



### Clinical Practice Guidelines

Authors	Title	Journal/ Reference
Oliver A Cornely, Ana Alastruey-Izquierdo, Dorothee Arenz, Sharon C A Chen, Eric Dannaoui, Bruno Hochhegger, Martin Hoenigl, Henrik E Jensen, Katrien Lagrou, Russell E Lewis, Sibylle C Mellinghoff, Mervyn Mer, Zoi D Pana, Danila Seidel, Donald C Sheppard, Roger Wahba, Murat Akova, Alexandre Alanio, Abdullah M S Al-Hatmi, Sevtap Arıkan-Akdagli, Hamid Badali, Ronen Ben-Ami, Alexandro Bonifaz, Stéphane Bretagne, Elio Castagnola, Methee Chayakulkeeree, Arnaldo L Colombo, Dora E Corzo-León, Lubos Drgona, Andreas H Groll, Jesús Guinea, Claus-Peter Heussel, Ashraf S Ibrahim, Souha S Kanj, Nikolay Klimko, Michaela Lackner, Frederic Lamothe, Fanny Lantermier, Cornelia Lass-Floerl, Dong-Gun Lee, Thomas Lehrnbecher, Badre E Lmimouni, Mihai Mares, Georg Maschmeyer, Jacques F Meis, Joseph Meletiadis, C Orla Morrissey, Marcio Nucci, Rita Oladele, Livio Pagano, Alessandro Pasqualotto, Atul Patel, Zdenek Racil, Malcolm Richardson, Emmanuel Roilides, Markus Ruhnke, Seyedmojtaba Seyedmousavi, Neeraj Sidharthan, Nina Singh, János Sinko, Anna Skiada, Mónica Slavin, Rajeev Soman, Brad Spellberg, William Steinbach, Ban Hock Tan, Andrew J Ullmann, Jörg J Vehreschild, Maria J G T Vehreschild, Thomas J Walsh, P Lewis White, Nathan P Wiederhold, Theoklis Zaoutis, Arunaloke Chakrabarti, for the Mucormycosis ECMM MSG Global Guideline Writing Group	Global guideline for the diagnosis and management of mucormycosis: an initiative of the European Confederation of Medical Mycology in cooperation with the Mycoses Study	Lancet Infect Dis 2019; 19: e405–21

Continued on next page



## Clinical Practice Guidelines (cont.)

Authors	Title	Journal/Reference
Carolina García-Vidal <sup>a1</sup> , Ana Alastruey-Izquierdo <sup>b1</sup> , Manuela Aguilar-Guisado <sup>c</sup> , Jordi Carratalá <sup>d</sup> , Carmen Castro <sup>e</sup> , Mario Fernández-Ruiz <sup>f</sup> , José María Aguado <sup>g</sup> , José María Fernández <sup>g</sup> , Jesús Fortún <sup>h</sup> , José Garnacho-Montero <sup>i</sup> , Joan Gavalda <sup>j</sup> , Carlota Gudiol <sup>d</sup> , Jesús Guinea <sup>k</sup> , Alicia Gómez-López <sup>l</sup> , Patricia Muñoz <sup>l</sup> , Javier Pemán <sup>l</sup> , Montserrat Rovira <sup>m</sup> , Isabel Ruiz-Camps <sup>j</sup> , Manuel Cuenca-Estrella <sup>o</sup>	Executive summary of clinical practice guideline for the management of invasive diseases caused by <i>Aspergillus</i> : 2018 Update by the GEMICOMED-SEIMC/REIPI	Enferm Infecc Microbiol Clin. 2019;37(8):535-541
Óscar Lena <sup>a</sup> , Ibai Los-Arcos <sup>a</sup> , José María Aguado <sup>b</sup> , Marino Blanes <sup>c</sup> , Marta Bodro <sup>d</sup> , Jordi Carratalá <sup>e</sup> , Elisa Cordero <sup>f</sup> , María Carmen Fariñas <sup>g</sup> , Mario Fernández-Ruiz <sup>h</sup> , Jesús Fortún <sup>h</sup> , Joan Gavalda <sup>i</sup> , Francisco López-Medrano <sup>h</sup> , Rogelio López-Vélez <sup>h</sup> , Carlos Lumbreras <sup>h</sup> , Beatriz Mahillo <sup>h</sup> , María Ángeles Marcos <sup>h</sup> , Pilar Martín-Dávila <sup>h</sup> , José Miguel Montejo <sup>h</sup> , Asunción Moreno <sup>h</sup> , Patricia Muñoz <sup>h</sup> , Francesca Norman <sup>h</sup> , José Luis Pérez-Sáenz <sup>h</sup> , Tomás Pumarola <sup>h</sup> , Núria Sabé <sup>h</sup> , Rafael San-Juan <sup>h</sup> , Elisa Vidal <sup>h</sup> , Beatriz Domínguez-Gil <sup>h</sup> , on behalf of the Transplant Infection Study Group (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC), and the National Transplant Organization (ONT)	Executive summary of the Consensus Statement of the Transplant Infection Study Group (GESITRA) of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC) and the National Transplant Organization (ONT) on the Selection Criteria of Donors of Solid Organs in relation to Infectious Diseases	Enferm Infecc Microbiol Clin . 2019 Dec 21;S0213-005X(19)30316-7
Cardozo Celia, Cuervo Guillermo, Salavert Miguel, Merino, Paloma, Gioia Francesca, Fernández-Ruiz Mario, López-Cortés Luis E, Escola-Verge Laura, Montejo Miguel, Muñoz Patricia, Aguilar-Guisado Manuela, Puerta-Alcalde Pedro, Tacias Mariona, Ruiz-Gaitán Alba, González Fernando, Puig-Asensio Mireia, Vena Antonio, Marco Francesc, Peman Javier, Fortun Jesús, Aguado José María, Almirante Benito, Soriano Alejandro, Carratala Jordi, García-Vidal Carolina, GEMICOMED (SEIMC) and the Spanish CANDI-Bundle Group	An evidence-based bundle improves the quality of care and outcomes of patients with candidaemia	The Journal of antimicrobial chemotherapy

Authors	Title	Journal/Reference
Burillo Almudena, Muñoz Patricia, Bouza Emilio	Risk stratification for multidrug-resistant Gram-negative infections in ICU patients.	Current opinion in infectious diseases
Cuervo Guillermo, García-Vidal Carolina, Puig-Asensio Mireia, Merino Paloma, Vena Antonio, Martín-Pena Almudena, Miguel Montejo José, Ruiz Alba, Lazaro-Perona Fernando, Fortun Jesús, Fernández-Ruiz Mario, Isabel Suárez Ana, Castro Carmen, Cardozo Celia, Gudiol Carlota, María Aguado José, Ramón Pano José, Peman Javier, Salavert Miquel, Garnacho-Montero José, Miguel Cisneros José, Soriano Alex, Muñoz Patricia, Almirante Benito, Carratala Jordi, REIPI, GEMICOMED SEIMC Spanis	Usefulness of guideline recommendations for prognosis in patients with candidemia	MEDICAL MYCOLOGY
Bouza Emilio, Ancochea-Bermudez Julio, Campins Magda, María Eiros-Bouza José, Fargas Jesús, García Rojas Amos José, Gracia Diego, Gutiérrez Sánchez Alipio, Limia Aurora, Antonio López José, del Carmen Magro María, Mirada Gloria, Muñoz Patricia, Olier Eduardo, Ortiz de Lejarazu Rail, Urbiztondo Luis, Palomo Esteban	Vaccines for the prevention of infections in adults: an opinion paper on the situation in Spain	REVISTA ESPANOLA DE QUIMIOTERAPIA
Bouza Emilio, Alonso Sergio, Asensio Ángel, De Juan Guillermo, Garcia Lucio Cristina, Larrosa Coral, López-Iglesias Javier, Muñoz Patricia, Sierra Rosalia, Perianes José, Luis De la Serna José, Palomo Esteban, Gracia Diego	Information on nosocomial infections in the mainstream media: an opinion document	REVISTA ESPANOLA DE QUIMIOTERAPIA



## 4.01. INFECTIOUS DISEASES AND AIDS

Publications		Total Impact Factor: 389.1
	Nº	IF
Own publications	38	150,2
Joint publications	48	238,9
First decile publications	26	223,6
First quartile publications	44	299,8
Second quartile publications	13	39,9
Third quartile publications	12	26,7
Fourth quartile publications	17	22,8
Nonindexed publications / No IF	4	-
<b>Total publications (including those without IF)</b>	<b>90</b>	<b>389.1</b>

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## 4.01. INFECTIOUS DISEASES AND AIDS

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- Publications of the main WOS collection in journals without impact factor:**
- Pedraz-Prieto, A; Monzon-Díaz, D; González, RHRA; Las, CJ; Hortal-Iglesias, J; González-Pinto, AT. Ventricular fibrillation in early postoperative period after David procedure due to surgical ligation of the conal artery. *CIRUGIA CARDIOVASCULAR*. 2019; 26(3) 169-171. (Article).
  - Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Ferrnande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. *REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION*. 2019; 66(10) 528-532. (Article).
  - Roc, L; de Mendoza, C; Fernández-Alonso, M; Reina, G; Soriano, V; Rodríguez, C; Vera, M; del Romero, J; Marcaida, G; Ocete, MD; Caballero, E; Molina, I; Aguilera, A; Rodríguez-Calvino, JJ; Navarro, D; Rivero, C; Vilarino, MD; Benito, R; Algarate, S; Gil, J; de Lejarazu, RO; Rojo, S; Eiros, JM; San Miguel, A; Manzardo, C; Miro, JM; García, J; Paz, I; Poveda, E; Calderón, E; Escudero, D; Trigo, M; Diz, J; García-Campello, M; Rodríguez-Iglesias, M; Hernández-Betancor, A; Martín, AM; Ramos, JM; Gimeno, A; Gutiérrez, F; Rodríguez, JC; Sánchez, V; Gómez-Hernando, C; Cilla, G; Pérez-Trallero, E; López-Aldeguer, J; Fernández-Pereira, L; Niubo, J; Hernández, M; López-Lirola, AM; Gómez-Sirvent, JL; Force, L; Cifuentes, C; Pérez, S; Morano, L; Raya, C; González-Praetorius, A; Pérez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martínez-Sapina, A; Viciana, I; Cabezas, T; Lozano, A; Fernández, JM; García-Bermejo, I; Gaspar, G; García, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; González, R; Barea, L; Jiménez, A; Blanco, L; Suárez, A; Rodríguez-Avial, I; Pérez-Rivilla, A; Parra, P; Fernández, M; Trevino, A; Requena, S; Benítez-Gutiérrez, L; Cuervas-Mons, V; Barreiro, P; Corral, O; Gómez-Gallego, F; Spanish HTLV Network. Rapid subacute myelopathy following kidney transplantation from HTLV-1 donors: role of immunosuppressors and failure of antiretrovirals. *THERAPEUTIC ADVANCES IN INFECTIOUS DISEASE*. 2019; 6 -. (Article).
- Other publications**
- Velasquez-Rodríguez J; Zatarain-Nicolas E; Barrio JM; Ruiz-Fernández M; Valerio M; Fernández-Avilés F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. *REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.)*. 2019; 72(7) 595-596. (Article).

## 4.02. Clinical and epidemiological aspect of HIV and associated conditions

Group director: **JUAN BERENGUER BERENGUER**

Organisms involved: **HGUGM**

Type: **Consolidated group**

### Research lines

#### Axis 1: VIH

- ▶ L1: Epidemiology and natural history.
- ▶ L2: Immunopathogenesis.
- ▶ L3: Prevention.
- ▶ L4: Antiretroviral treatment.
- ▶ L5: Functional cure/eradication.
- ▶ L6: Cancer.

#### Axis 2: Viral hepatitis

- ▶ L1: Epidemiology.
- ▶ L2: Treatment.
- ▶ L3: Effects of eradication.
- ▶ L4: HBV.
- ▶ L5: Noninvasive markers of liver fibrosis.

### Group members

- **Aldamiz-Echavarría Lois, M<sup>a</sup> Teresa:** R2. Recognised Researcher.
- **Berenguer Berenguer, Juan:** R4. Leading Researcher.
- **Díez Romero, Cristina:** R2. Recognised Researcher.
- **Fanciulli, Chiara:** R1. First Stage Researcher.
- **Gutiérrez Cuéllar, Isabel:** Other. Research Nurse.
- **López Bernaldo de Quirós, Juan Carlos:** R3. Established Researcher.
- **Miralles Martín, Pilar:** R1. First Stage Researcher.
- **Parras Vázquez, Francisco:** Recognised Researcher.
- **Pérez Latorre, Leire:** R2. Recognised Researcher.
- **Ramírez Schacke, Margarita:** Other. Research Nurse.
- **Ryan Murua, Pablo:** R2. Recognised Researcher.
- **Tejerina Picado, Francisco:** R1. First Stage Researcher.

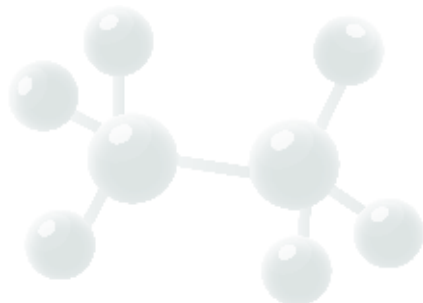
## 4.02. CLINICAL AND EPIDEMIOLOGICAL ASPECT OF HIV AND ASSOCIATED CONDITIONS

### Research Projects – Competitive Calls

- Title: Morbilidad y mortalidad a largo plazo tras la erradicación del VHC en pacientes coinfectados por VIH/VHC con fibrosis hepática avanzada/cirrosis.** PI17/00657  
 Director: Berenguer Berenguer, Juan  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date: 31/12/2020
- Title: Juan Rodés contract.** JR17/00018  
 Director: Aldamiz-Echevarría Lois, M<sup>a</sup> Teresa  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2018  
 End date: 31/12/2021

### Cooperative Research Structures

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



### Clinical Practice Guidelines

Authors	Title	Journal/ Reference
EACS Panel Members	EACS Guidelines 2019	<a href="https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf">https://www.eacsociety.org/files/guidelines-10.0_final_2_2.pdf</a>
The Spanish Association for the Study of the Liver	Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH)	DOI: 10.1016/j.gastrohep.2019.09.002

### Publications

Total Impact Factor: 149.2

	Nº	IF
Own publications	6	22,2
Joint publications	33	127,0
First decile publications	6	42,5
First quartile publications	15	80,8
Second quartile publications	14	48,6
Third quartile publications	6	13,4
Fourth quartile publications	4	6,5
Nonindexed publications / No IF	4	-
<b>Total publications (including those without IF)</b>	<b>43</b>	<b>149.2</b>





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

- Berenguer J; Gil-Martín A; Jarrin I; Montes ML; Domínguez L; Aldamiz-Echevarría T; Tellez MJ; Santos I; Troya J; Losa JE; Serrano R; De Guzman MT; Calvo MJ; González-García JJ; Madrid-CoRe Study Group. Reinfection by HCV following effective all-oral DAA therapy in HIV/HCV-coinfected individuals. *AIDS*. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).
- Requena, S; Caballero, E; Lozano, AB; Rios-Villegas, MJ; Benito, R; Rojo, S; Cabezas, T; Macia, MD; Nieto, MD; Soriano, V; de Mendoza, C; Rodríguez, C; Vera, M; del Romero, J; Ocete, MD; Caballero, E; Aguilera, A; Amengual, MJ; Cervantes, M; Benito, R; Algarate, S; de Lejarazu, RO; Rojo, S; Eiros, JM; Ramos, C; García-Costa, J; Calderón, E; Rios-Villegas, MJ; Trigo, M; Diz, J; García-Campello, M; Rodríguez-Iglesias, M; Hernández-Betancor, A; Ramos, JM; Gimeno, A; Sánchez, V; Gómez-Hernando, C; Echeverría, MJ; Cilla, G; Pérez-Trallero, E; Fernández-Pereira, L; Niubo, J; Margall, N; Hernández, M; López-Lirola, AM; Gómez-Sirvent, JL; Force, L; Sauca, M; Pérez, S; Morano, L; Raya, C; Praetorius, AG; Cifuentes, C; Penaranda, M; Nieto, MC; Montejo, JM; Roc, L; Martínez-Sapina, A; Viciana, I; Lozano, AB; Pérez-Camacho, I; Fernández-Fuertes, E; Fernández, JM; Cabezas, T; Bermejo, IG; Gaspar, G; Gorgolas, M; Vegas, C; Blas, J; Tellez, R; Pérez, L; Valeiro, M; Aldamiz, T; García, F; Suárez, A; Rodríguez-Avial, I; Barreiro, P; Soriano, V; Gómez-Gallego, F; Corral, O; Requena, S; Benítez-Gutiérrez, L; Cuervas-Mons, V; de Mendoza, C; Spanish HIV-2 Study Grp. Treatment outcome in dually HIV-1 and HIV-2 coinfecting patients living in Spain. *AIDS*. 2019; 33(14) 2167-2172. FI: 4.511. Cuartil: 1. (Article).
- Trickey, A; van Sighem, A; Stover, J; Abgrall, S; Grabar, S; Bonnet, F; Berenguer, J; Wyen, C; Casabona, J; Monforte, AD; Cavassini, M; del Amo, J; Zangerle, R; Gill, MJ; Obel, N; Sterne, JAC; May, MT. Parameter estimates for trends and patterns of excess mortality among persons on antiretroviral therapy in high-income European settings. *AIDS*. 2019; 33 271-281. FI: 4.511. Cuartil: 1. (Article).
- Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; López-Fernández, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Díez-Martín, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. *AIDS*. 2019; 33(4) 685-689. FI: 4.511. Cuartil: 1. (Article).
- García, M; Jiménez-Sousa, MA; Blanco, J; Restrepo, C; Pacheco, YM; Brochado-Kith, O; López-Bernaldo, JC; Gutiérrez, F; Portilla, J; Estrada, V; Gorgolas, M; Cabello, A; Resino, S; Benito, JM; Rallon, N; CoRIS Spanish HIV Biobank. CD4 recovery is associated with genetic variation in IFN gamma and IL19 genes. *ANTIVIRAL RESEARCH*. 2019; 170 -. FI: 4.101. Cuartil: 1. (Article).
- Eron, JJ; Orkin, C; Cunningham, D; Pulido, F; Post, FA; De Wit, S; Lathouwers, E; Hufkens, V; Jezowski, J; Petrovic, R; Brown, K; Van Landuyt, E; Opsomer, M; De Wit, S; Florence, E; Moutschen, M; Van Wijngaerden, E; Vandekerckhove, L; Vandercam, B; Brunetta, J; Conway, B; Klein, M; Murphy, D; Rachlis, A; Shafran, S; Walmsley, S; Ajana, F; Cotte, L; Girardy, PM; Katlama, C; Molina, JM; Poizot-Martin, I; Raffi, F; Rey, D; Reynes, J; Teicher, E; Yazdanpanah, Y; Gasiorowski, J; Halota, W; Horban, A; Piekarska, A; Witor, A; Arribas, JR; Pérez-Valero, I; Berenguer, J; Casado, J; Gatell, JM; Gutiérrez, F; Galindo, MJ; Gutiérrez, MDM; Iribarren, JA; Knobel, H; Negro, E; Pineda, JA; Podzamczek, D; Sogorb, JP; Pulido, F; Ricart, C; Rivero, A; Gil, IS; Blaxhult, A; Flamholc, L; Gisslen, M; Thalme, A; Fehr, J; Rauch, A; Stoeckle, M; Clarke, A; Gazzard, BG; Johnson, MA; Orkin, C; Post, F; Ustianowski, A; Waters, L; Bailey, J; Benson, P; Bhatti, L; Brar, I; Bredeek, UF; Brinson, C; Crofoot, G; Cunningham, D; DeJesus, E; Dietz, C; Dretler, R; Eron, J; Felizarta, F; Fichtenbaum, C; Gallant, J; Gathe, J; Hagins, D; Henn, S; Henry, WK; Huhn, G; Jain, M; Lucasti, C; Martorell, C; McDonald, C; Mills, A; Morales-Ramírez, J; Mounzer, K; Nahass, R; Olivet, H; Osiyemi, O; Prelutsky, D; Ramgopal, M; Rashbaum, B; Richmond, G; Ruane, P; Scarsella, A; Scribner, A; Shalit, P; Shamblaw, D; Slim, J; Tashima, K; Voskuhl, G; Ward, D; Wilkin, A; de Vente, J; EMERALD Study Grp. Week 96 efficacy and safety results of the phase 3, randomized EMERALD trial to evaluate switching from boosted-protease inhibitors plus emtricitabine/tenofovir disoproxil fumarate regimens to the once daily, single-tablet regimen of darunavir/cobicistat/. *ANTIVIRAL RESEARCH*. 2019; 170 -. FI: 4.101. Cuartil: 1. (Article).
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## 4.02. CLINICAL AND EPIDEMIOLOGICAL ASPECT OF HIV AND ASSOCIATED CONDITIONS

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C; Miro, JM; García, J; Paz, I; Poveda, E; Calderón, E; Escudero, D; Trigo, M; Diz, J; García-Campello, M; Rodríguez-Iglesias, M; Hernández-Betancor, A; Martín, AM; Ramos, JM; Gimeno, A; Gutiérrez, F; Rodríguez, JC; Sánchez, V; Gómez-Hernando, C; Cilla, G; Pérez-Trallero, E; López-Aldeguer, J; Fernández-Pereira, L; Niubo, J; Hernández, M; López-Lirola, AM; Gómez-Sirvent, JL; Force, L; Cifuentes, C; Pérez, S; Morano, L; Raya, C; González-Praetorius, A; Pérez, JL; Penaranda, M; Hernaez-Crespo, S; Montejo, JM; Martínez-Sapina, A; Viciano, I; Cabezas, T; Lozano, A; Fernández, JM; García-Bermejo, I; Gaspar, G; García, R; Gorgolas, M; Vegas, C; Blas, J; Miralles, P; Valeiro, M; Aldamiz, T; Margall, N; Guardia, C; do Pico, E; Polo, I; Aguinaga, A; Ezpeleta, C; Sauleda, S; Piron, M; González, R; Barea, L; Jiménez, A; Blanco, L; Suárez, A; Rodríguez-Avial, I; Pérez-Rivilla, A; Parra, P;

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# AREA 5

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

## Diseases of the Immune System

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

The participation of this Area in numerous publications by groups belonging to other areas of the Institute clearly highlights its philosophy of cooperative research, the cornerstone of any health research institute. There can be no doubt that the Area is perfectly situated for setting down the strategic lines for its continued growth. As a result, collaboration agreements have been proposed with prestigious international institutions, groups from the IISGM itself, and groups from outside the IISGM (Madrid Science and Technology Park, FHL Study Group, Transfusion Center of Comunidad de Madrid), School of Medicine of Universidad Complutense de Madrid (Department of Microbiology I), and companies active in the field (Binding Site, Izasa, Inmunotek, Grifols).

The area has set itself the strategic objectives of expanding the core activity of its more clinical groups, training undergraduate and postgraduate staff in order to consolidate and improve scientific output, and expanding the number of principal investigators able to successfully apply for competitive calls.

# Groups in AREA 5

## 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. Autoimmune systemic diseases
- ▶ 5.05. Pathogenesis of the immunoallergic response
- ▶ 5.06. Immune homeostasis and regulation in diseases associated with the immune system
- ▶ 5.07. Infectious diseases in pediatric patients

# 5.01. Pathophysiology and clinical investigation of chronic inflammatory and immune diseases

Group director: **EDUARDO FERNÁNDEZ-CRUZ PÉREZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Immunotherapy and immunomodulation with immunogens in the treatment of diseases of the immune system

- ▶ L1: Evaluation of the clinical and immunological response to polyvalent bacterial immunogens in the prevention of infection. Leader: Eduardo Fernández-Cruz.
- ▶ L2: Immunotherapy with vaccines and specific hyper-immune immunoglobulins in chronic inflammatory pathologies mediated by immune deregulation and infections, COPD (clinical trial research). Leader: Eduardo Fernández-Cruz.

### Axis 2: Immunotherapy

- ▶ L1: Immunotherapy with vaccines and specific hyper-immune immunoglobulins in chronic inflammatory diseases mediated by immune dysregulation and influenza A and B virus infections (clinical trial research). Leader: Eduardo Fernández-Cruz.
- ▶ L2: Prospective multicenter study with nonblinding of safety, clinical efficacy, and the pharmacokinetic properties of normal human immunoglobulin for intravenous administration of BT<sub>595</sub> as replacement therapy in patients with primary immunodeficiency (PI). Leader: Eduardo Fernández-Cruz.
- ▶ L3: Innovation in treatments with immunotherapy (autovaccines and/or IVIG) in severe hydrodenitis. Leaders: Eduardo Fernández-Cruz Pérez, Cristina Ciudad y Ricardo Suárez Fernández.

### Axis 3: Transplant immunology

- ▶ L1: Immunology of infections and rejection in solid organ transplant: biomarkers of risk. Leader: Javier Carbone Campoverde.

- ▶ L2: Study of immunomodulation and reconstitution of the immune response in post-transplant immunodeficiency. Leader: Javier Carbone Campoverde.
- ▶ L3: Study of cellular immunity in transplant patients treated with specific immunoglobulins. Leader: Javier Carbone Campoverde.

### Axis 4: Reproductive immunology

- ▶ L1: HLA-G immunogenetic studies in reproductive failure. Leader: Carmen Rodríguez Sainz.
- ▶ L2: Study of immunophenotypic markers and immunogenotyping in diseases of the reproductive system. Leader: Juana Gil Herrera.
- ▶ L3: Cellular and humoral alterations in women with recurrent reproductive failure. Leader: Javier Carbone Campoverde.
- ▶ L4: Study of the efficacy and safety of low-dose Prednisona use in reproductive failure. Leader: Javier Carbone Campoverde.

### Axis 5: Primary immunodeficiency: pathogenesis, classification, and treatment

- ▶ L1: Diagnosis and classification of primary immunodeficiency due to immunological dysregulation. Leader: Juana Gil Herrera.
- ▶ L2: Neonatal screening for severe combined immunodeficiency. Leader: Juana Gil Herrera.
- ▶ L3: National and international registry of patients with all types of primary immunodeficiency. Leader: Juana Gil Herrera.
- ▶ L4: Study of prognostic biomarkers in primary immunodeficiencies. Immunophenotyping studies. Leader: Javier Carbone Campoverde.

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## Research lines (cont.)

### Axis 6: Biomarkers

- ▶ L1: Study of prognostic biomarkers in patients with recurrent pneumonia, bronchiectasis, and tuberculosis. Leader: Javier Carbone Campoverde.
- ▶ L2: Immunophenotypic study in the diseases of the reproductive system. Leader: Javier Carbone Campoverde.

### Axis 7: Immunology of chronic inflammatory diseases

- ▶ L1: Immunophenotyping study of patients with antiphospholipid syndrome. Leader: Javier Carbone Campoverde.

### Axis 8: Cell migration in cancer

- ▶ L1: Cell migration in cancer. Leaders: Javier Redondo-Muñoz, Paloma Sánchez-Mateos.

### Axis 9: Role of macrophages in inflammatory diseases

- ▶ L1: Polarization of macrophage transcriptome and phenotype in inflammatory diseases. Leader: Paloma Sánchez-Mateos.
- ▶ L2: Molecular bases of the anti-inflammatory effect of methotrexate in macrophages. Biomarkers of response of therapy to methotrexate. Leader: Paloma Sánchez-Mateos.

### Axis 10: Tumor macrophages in melanoma

- ▶ L1: Tumor macrophages in melanoma. Leaders: Dr. Paloma Sánchez-Mateos, Rafael Samaniego García.

### Axis 11: Autoimmune bullous diseases

- ▶ L1: Treatment of pemphigus vulgaris (PV). Leader: Ricardo Suárez Fernández.
- ▶ L2: Bullous pemphigoid: clinical and epidemiological studies. Leader: Ricardo Suárez Fernández.

### Axis 12: Atopic dermatitis

- ▶ L1: Adult atopic dermatitis. Innovations in treatment. Leader: Ricardo Suárez Fernández.

### Axis 13: Dermatologic surgery

- ▶ L1: Mohs surgery in skin cancer. Leaders: Dr. Ciudad, Dr. Barchino.
- ▶ L2: Surgical treatment of suppurative hidradenitis. Leaders: Dr. Ciudad, Dr. Barchino.
- ▶ L3: Platelet-rich plasma for chronic skin ulcers. Leaders: Dr. Ciudad, Dr. Barchino.

### Axis 14: Skin ulcers

- ▶ L1: Evaluation of the clinical safety and efficacy of the combination of negative pressure and nanocrystalline silver dressings for the treatment of chronic ulcers. Leader: Luis Carlos Sáez Martín.

### Axis 15: Psoriasis

- ▶ L1: Modification of the dose of biologics in moderate-severe psoriasis. Leader: Ofelia Baniandrés.
- ▶ L2: Innovative treatments. Leader: Ofelia Baniandrés.
- ▶ L3: Study of deficiency of the IL-1 receptor antagonist (DIRA) and deficiency of the IL-36 receptor antagonist (DITRA) in patients with generalized pustular psoriasis. Leader: Ofelia Baniandrés.
- ▶ L4: Spanish Registry of Systemic Treatments in Psoriasis (BIOBADADERM). Leader: Ofelia Baniandrés.

### Axis 16: Cutaneous oncology

- ▶ L1: Intralesional methotrexate for the neoadjuvant treatment of cutaneous squamous cell cancer. Leader: Dr. Bergón.
- ▶ L2: Epidemiological and therapeutic control of basal cell carcinoma. Leader: Dr. Bergón.

### Axis 17: Immunology. HLA

- ▶ L1: Immunology. Leaders: Antonio Arnáiz, José Manuel Martín Villa.
- ▶ L2: HLA genetics and pharmacogenetics in humans. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

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### Research lines (*cont.*)

- ▶ L3: Evolution of MHC-G. Immunosuppression. Leaders: Antonio Arnáiz, José Manuel Martín Villa.
- ▶ L4: Evolution of MHC in primates and wild birds. Antonio Arnáiz, José Manuel Martín Villa.
- ▶ L5: Tumor Immunology. Leaders: Antonio Arnáiz Villena, José Manuel Martín Villa.

#### Axis 18: Population genetics

- ▶ L1: Population genetics and obesity: Globesity. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

#### Axis 19: Mucosal immunology

- ▶ L1: Mucosal immunology. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

#### Axis 20: Molecular genetics and tumors

- ▶ L1: Molecular genetics and tumors. Leaders: Antonio Arnáiz, José Manuel Martín Villa.

#### Axis 21: Signal transduction.

- ▶ L1: Cytoskeletal signal transduction and immune system. Leader: Narcisca Martínez Quiles.

The pathophysiology and clinical research group of chronic immunogenic and inflammatory diseases is coordinated by the Head of Clinical Immunology Service Prof.Dr. Eduardo Fernández-Cruz and is constituted on the basis of the different research lines established in 21 axis related above.



## Group members

- **Alarcón Escudero, Alba:** R1. First Stage Researcher.
- **Arnaiz Villena, Antonio:** R3. Established Researcher.
- **Avilés Izquierdo, José Antonio:** R1. First Stage Researcher.
- **Baniandrés Rodríguez, Ofelia:** R1. First Stage Researcher.
- **Barchino Ortíz, Lucía:** R1. First Stage Researcher.
- **Bergón Sendí, Marta:** R1. First Stage Researcher.
- **Cámara Marqués, Silvia:** Other. Lab Technician.
- **Carbone Campoverde, Javier Alberto:** R3. Established Researcher.
- **Ciudad Blanco, Cristina:** R1. First Stage Researcher.
- **Egido Balzategui, José:** Other. Lab Technician.
- **Estecha Palomero, Ana:** R2. Recognised Researcher.
- **Ezzahouri, Ikram:** R1. First Stage Researcher.
- **Fernández-Cruz Pérez, Eduardo:** R4.
- **Fuentelsaz Romero, Sara:** R1. First Stage Researcher.
- **Gallego López, Antonio:** R2. Recognised Researcher.
- **García Campos, Raquel.**
- **García Jiménez, Sandra:** Other. Lab Technician.
- **Gil Herrera, Juana:** R3. Established Researcher.
- **Gorroño Echevarría, M<sup>a</sup> Begoña:** R2. Recognised Researcher.
- **Gutiérrez Seijo, Alba:** R1. First Stage Researcher.
- **Gutiérrez Calvo, Alberto:** R2. Recognised Researcher.
- **Jiménez López, Maricela:** R1. First Stage Researcher.
- **Jiménez Mora, Natalia:** Other. Lab Technician.
- **Juárez Martín-Delgado, Ignacio:** R1. First Stage Researcher.
- **Limay Carre, Kristofer:** Other. Lab Technician.

- **López Nares, Adrián:** R1. First Stage Researcher.
- **Lorente-Sorolla Martínez-Acitores, Clara:** R2. Recognised Researcher.
- **Martín Villa, José Manuel:** R3. Established Researcher.
- **Martínez Quiles, Narcisa:** R3. Established Researcher.
- **Molina Alexandre, Marta:** R1. First Stage Researcher.
- **Montánchez Mateo, Judith:** Other. Lab Technician.
- **Muñiz Sánchez, Esther:** R2. Recognised Researcher.
- **Navarro Caspistegui, Joaquín:** R2. Recognised Researcher.
- **Palacio Gruber, José:** R2. Recognised Researcher.
- **Pérez García, Yaiza:** R1. First Stage Researcher.
- **Puig Kröger, Amaya Rocío:** R3. Established Researcher.
- **Pulido Pérez, Ana:** R1. First Stage Researcher.
- **Ramos Ruiz, Ricardo:** R1. First Stage Researcher.
- **Rodríguez Molina, Juan José:** Other. Management.
- **Rodríguez Sainz, Carmen:** R2. Recognised Researcher.
- **Samaniego García, Rafael:** R2. Recognised Researcher.
- **Sánchez-Mateos Rubio, Paloma:** R3. Established Researcher.
- **Sarmiento Marchese, Elizabeth Angélica:** R2. Recognised Researcher.
- **Suárez Fernández, Ricardo:** R3. First Stage Researcher.
- **Suárez Trujillo, Fabio:** R1. First Stage Researcher.
- **Torres Torresano, Mónica:** Other. Lab Technician.
- **Tur Gracia, Sara:** R1. First Stage Researcher.
- **Vaquerizo Lorenzo, Samuel:** R1. First Stage Researcher.
- **Vaquero Yuste, Christian:** R1. First Stage Researcher.
- **Villarejo Gómez, Julia:** Other. Nursing.



### Research Projects – Competitive Calls

- Title: The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Fernández-Cruz Pérez, Eduardo  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Evaluación de la eficacia y toxicidad del uso de gammaglobulina intravenosa en el tratamiento de infecciones en pacientes con hipogammaglobulinemia igg post-trasplante de órgano sólido** EC11-084  
 Director: Carbone Campoverde, Javier Alberto  
 Project type: Clinicalresearch project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2012  
 End date: 30/03/2019
- Title: Variantes genéticas en HLA-G y niveles solubles de HLA-G asociados a los fallos reproductivos** PI18/01695  
 Director: Fernández-Cruz Pérez, Eduardo  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2019  
 End date:31/12/2021
- Title: Metotrexato en artritis reumatoide: inducción de tolerancia como mecanismo de su efecto anti-inflamatorio** PI17/00037  
 Director: Puig Kröger, Amaya Rocío  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date:31/12/2020
- Title: Significado pronóstico de la heterogeneidad del contexto inmune innato en melanoma primario cutáneo** PI17/01324  
 Director: Sánchez-Mateos Rubio, Paloma  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2018  
 End date:31/12/2020
- Title: Microambiente inflamatorio del melanoma humano: Interacciones recíprocas tumor-estroma-tumor y significado clínico del estado de polarización de los macrófagos asociados a tumor.** PI13/02577  
 Director: Sánchez-Mateos Rubio, Paloma  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2014  
 End date:31/01/2019
- Title: Validación de un nuevo método de obtención de plasma rico en plaquetas para su aplicación en úlceras cutáneas crónica.** PI13/01454  
 Director: Ciudad Blanco, Cristina  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2014  
 End date:05/02/2019
- Title: Perfiles inmunogenéticos en la linfocitosis hemofagocítica (HLH) aplicados al diagnóstico rápido de los casos familiares (FHI) de la enfermedad.** PI12/02761  
 Director: Gil Herrera, Juana  
 Funding body: Instituto de Salud Carlos III  
 Project type: Research project  
 Start date: 01/01/2013  
 End date: 30/01/2019
- Title: Juan Rodés Contract** JR14/00021  
 Director: Sarmiento Marchese, Elizabeth Angélica  
 Funding body: Instituto de Salud Carlos III  
 Project type: Human resources  
 Start date: 01/01/2015  
 End date: 31/01/2019





- Title: **Predoctoral Contract** FI18/00109  
Director: Sarmiento Sara Fuentelsanz Romero  
Funding body: Instituto de Salud Carlos III  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2022
- Title: **Young employment contract: Predoctoral.** PEJD-2018-PRE/BMD-8241  
Director: Samaniego García, Rafael  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Project type: Human resources  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Young employment contract: Technical researcher.** PEJ-2017-TL/BMD-7299  
Director: Sánchez-Mateos Rubio, Paloma  
Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
Project type: Human resources  
Start date: 01/01/2018  
End date: 31/12/2019
- Title: **Young employment contract.** PEJ2018-004617-A  
Director: Carbone Campoverde, Javier Alberto  
Funding body: MICINN  
Project type: Human resources  
Start date: 01/01/2018  
End date: 31/12/2019

#### Not managed by FIBHGM

- Title: **HLA-G: cáncer gástrico y su evolución.** PI18/00626  
Director: Martín Villa, José Manuel  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date:31/01/2021

- Title: **HLA-G: Su importancia en epidemiología, medicina evolutiva y patología.** PI18/00721  
Director: Arnaiz Villena, Antonio  
Funding body: Instituto de Salud Carlos III  
Project type: Research project  
Start date: 01/01/2019  
End date:31/01/2021
- Title: **Nuevo mecanismo inhibidor de la polimerización de actina.** SAF 2017-82967-R  
Director: Martínez Quiles, Narcisa  
Funding body: MICINN  
Project type: Research project  
Start date: 01/01/2018  
End date:31/09/2021

#### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
RETICS	Red de Investigación en Inflamación y Enfermedades Reumáticas. RIER RD16/0012/0007	Collaborating group
Other	International Network for Strategic Initiatives in Global HIV Trials (INSIGHT)	Collaborating group

#### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Esther Calderón	Evaluación del ácido fólico como modulador de las funciones efectoras de macrófagos	Amaya Rocio Puig Kröger	UAM	01/09/2019

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Silvia Sánchez-Ramón <sup>1</sup> , Arancha Bermúdez <sup>2</sup> , Luis Ignacio González-Granado <sup>3</sup> , Carlos Rodríguez-Gallego <sup>4</sup> , Ana Sastre <sup>5</sup> , Pere Soler-Palacín <sup>6</sup> , ID-Signal Onco-Haematology Group ID-Signal Onco-Haematology Group: Luis Allende, Laia Alsina, Ana María Bielsa, Sara Calleja-Antolín, Carmen Cámara, Javier Carbone, Carmen Carreras, Ana De Andrés Martín, Ángela Deyá, Cristina Díaz de Heredia, Romina Dieli-Crimi, José Luis Díez, Nerea Domínguez-Pinilla, Luis Fernández-Pereira, José M <sup>a</sup> García, Juana Gil-Herrera, Antonio Gutiérrez, Isidro Jarque, Manel Juan, Francisco Lendínez, Pilar Llobet, Mónica López, Ana López de la Guía, Marcos López-Hoyos, Andrea Martín-Nalda, Mónica Martínez, Joséfa Melero, Ana Méndez-Echevarría, Pedro Moral, Olaf Neth, María Núñez, Gonzalo Ocejo-Vinyals, Juliana Ochoa-Grullón, Peter Olbrich, Raquel Oña, Manuel Pérez-Encinas, Jaime Pons, Carmen Rodríguez, Berta Sánchez, Juan Luis Santos-Pérez, M Elena Seoane, Alexandru Vlaga	Primary and Secondary Immunodeficiency Diseases in Oncohaematology: Warning Signs, Diagnosis, and Management	Front Immunol. 2019 Mar 26;10:586

## Publications

Total Impact Factor: 104.1

	Nº	IF
Own publications	7	14.3
Joint publications	16	89.8
First decile publications	3	47.9
First quartile publications	7	70.7
Second quartile publications	7	18.5
Third quartile publications	7	12.1
Fourth quartile publications	2	2.8
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>26</b>	<b>104.1</b>

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

- Sarrato, GZ; Luna, MS; Sarrato, SZ; Pérez, AP; Chamorro, IP; Cano, JMB. New Strategies of Pulmonary Protection of Preterm Infants in the Delivery Room with the Respiratory Function Monitoring. AMERICAN JOURNAL OF PERINATOLOGY. 2019; 36(13) 1368-1376. FI: 1.474. Cuartil: 3. (Article).
- Segovia, AC; Ledesma, CC; Blázquez, ML; Pérez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).
- Zaballos, P; Mir-Bonafe, JF; Avilés, JA; Banuls, J. Dermoscopy of lipidised dermatofibroma: A morphological study of 13 cases. AUSTRALASIAN JOURNAL OF DERMATOLOGY. 2019; 60(2) 158-160. FI: 1.789. Cuartil: 3. (Letter).
- Bergon-Sendin, M; Pulido-Pérez, A; Suárez-Fernández, R. Neoadjuvant intralesional methotrexate in squamous cell carcinoma of the lip. AUSTRALASIAN JOURNAL OF DERMATOLOGY. 2019; 60(2) 127-131. FI: 1.789. Cuartil: 3. (Article).



- Aguilera-Montilla, N; Bailon, E; Ugarte-Berzal, E; Uceda-Castro, R; Prieto-Solano, M; García-Martínez, E; Samaniego, R; Van den Steen, PE; Opendakker, G; García-Marco, JA; García-Pardo, A. Matrix metalloproteinase-9 induces a pro-angiogenic profile in chronic lymphocytic leukemia cells. *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*. 2019; 520(1) 198-204. FI: 2.985. Cuartil: 2. (Article).
- La Rosee, P; Horne, A; Hines, M; Greenwood, TV; Machowicz, R; Berliner, N; Birndt, S; Gil-Herrera, J; Girschikofsky, M; Jordan, MB; Kumar, A; van Laar, JAM; Lachmann, G; Nichols, KE; Ramanan, AV; Wang, YN; Wang, Z; Janka, G; Henter, JI. Recommendations for the management of hemophagocytic lymphohistiocytosis in adults. *BLOOD*. 2019; 133(23) 2465-2477. FI: 17.543. Cuartil: 1. (Article).
- Rodríguez, RM; Suárez-Álvarez, B; Lavin, JL; Ascension, AM; González, M; Lozano, JJ; Raneros, AB; Bulnes, PD; Vidal-Castineira, JR; Huidobro, C; Martín-Martín, C; Sanz, AB; Ruiz-Ortega, M; Puig-Kroger, A; Corbi, AL; Arauzo-Bravo, MJ; Aransay, AM; López-Larrea, C. Signal Integration and Transcriptional Regulation of the Inflammatory Response Mediated by the GM-/M-CSF Signaling Axis in Human Monocytes. *CELL REPORTS*. 2019; 29(4) 860-. FI: 8.109. Cuartil: 1. (Article).
- Villarrubia, N; Rodríguez-Martín, E; Alari-Pahissa, E; Aragón, L; Castillo-Trivino, T; Eixarch, H; Ferrer, JM; Martínez-Rodríguez, JE; Massot, M; Pinto-Medel, MJ; Prada, A; Rodríguez-Acevedo, B; Urbaneja, P; Gascón-Giménez, F; Herrera, G; Hernández-Clares, R; Salgado, MG; Oterino, A; San Segundo, D; Cuello, JP; Gil-Herrera, J; Cámara, C; Gómez-Gutiérrez, M; Martínez-Hernández, E; Meca-Lallana, V; Moga, E; Muñoz-Calleja, C; Querol, L; Presas-Rodríguez, S; Teniente-Serra, A; Vlaga, A; Muriel, A; Roldan, E; Villar, LM. Multi-centre validation of a flow cytometry method to identify optimal responders to interferon-beta in multiple sclerosis. *CLINICA CHIMICA ACTA*. 2019; 488 135-142. FI: 2.615. Cuartil: 2. (Article).
- Pulido-Pérez, A; Nieto-Benito, LM; Sánchez-Herrero, A; Suárez-Fernández, R. Response to oral ivermectin in three cases of follicular cutaneous larva migrans. *ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA*. 2019; 37(6) 415-416. FI: 1.654. Cuartil: 4. (Letter).
- Rosell-Díaz, AM; Nieto-Benito, LM; Hernández-Aragues, I; Bergon-Sendin, M; Boas, PV. *Dermpath & Clinic: Cutaneous angioleiomyoma*. *EUROPEAN JOURNAL OF DERMATOLOGY*. 2019; 29(4) 447-448. FI: 2.782. Cuartil: 2. (Editorial Material).
- Patel, SY; Carbone, J; Jolles, S. The Expanding Field of Secondary Antibody Deficiency: Causes, Diagnosis, and Management. *FRONTIERS IN IMMUNOLOGY*. 2019; 10 -. FI: 5.085. Cuartil: 1. (Review).
- Rodríguez-Lomba, E; Molina-López, I; Vilas-Boas, PT; Suárez-Fernández, R. IgA deposition in a vegetating plaque on the glans penis: a diagnostic dilemma. *INTERNATIONAL JOURNAL OF DERMATOLOGY*. 2019; 58(3) 64-66. FI: 2.067. Cuartil: 3. (Letter).
- García-Martínez, FJ; Rull, EV; Salgado-Boquete, L; Martorell, A; Pascual, JC; Hernández-Martín, A; Silvente, C; Ciudad-Blanco, C; Esteban, EA; Alfageme-Roldan, F. Intralesional corticosteroid injection for the treatment of hidradenitis suppurativa: a multicenter retrospective clinical study. *JOURNAL OF DERMATOLOGICAL TREATMENT*. 2019; -. FI: 2.156. Cuartil: 2. (Article).
- Montes-Torres, A; Aparicio, G; Rivera, R; Vilarrasa, E; Marcellan, M; Notario, J; Soria, C; Carrascosa, JM; Gómez, FJ; Salgado, L; Velasco, M; Descalzo, MA; Dauden, E; Carretero, G; Torrado, R; Ferrandiz, C; Llamas-Velasco, M; Gómez-García, FJ; Jiménez, R; de la Cueva, P; Galiano, S; Herrera-Ceballos, E; Herrera-Acosta, E; Belinchon, I; López-Estebanz, JL; Ruiz-Genao, D; Alsina, M; Sánchez-Carazo, JL; Ferran, M; BaniAndrés, O; García-Doval, I; Mollet, J; BIOBADADERM Study Grp; Psoriasis Grp AEDV. Safety and effectiveness of conventional systemic therapy and biological drugs in patients with moderate to severe psoriasis and HIV infection: a retrospective multicenter study. *JOURNAL OF DERMATOLOGICAL TREATMENT*. 2019; 30(5) 461-465. FI: 2.156. Cuartil: 2. (Article).
- Avilés-Izquierdo, JA; Ciudad-Blanco, C; Sánchez-Herrero, A; Mateos-Mayo, A; Nieto-Benito, LM; Rodríguez-Lomba, E. Dermoscopy of cutaneous melanoma metastases: A color-based pattern classification. *JOURNAL OF DERMATOLOGY*. 2019; 46(7) 564-569. FI: 3.072. Cuartil: 2. (Article).
- Salinas-Muñoz, L; Campos-Fernández, R; Olivera-Valle, I; Mercader, E; Fernández-Pacheco, C; Lasarte, S; Pérez-Martín, L; Navarro-González, MT;



Sánchez-Mateos, P; Samaniego, R; Relloso, M. Estradiol impairs epithelial CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).

- Martorell, A; Roldán, FA; Rull, EV; Ruiz-Villaverde, R; De Gabriel, JR; Martínez, FG; Sarro, DV; Pastor, MV; Blanco, CC; Palacios, JMS; Bandera, AIR; Ramírez, JCP; Sánchez, CS; De Gorosábel, NM; Wortsman, X. Ultrasound as a diagnostic and management tool in hidradenitis suppurativa patients: a multicentre study. JOURNAL OF THE EUROPEAN ACADEMY OF DERMATOLOGY AND VENEREOLOGY. 2019; 33(11) 2137-2142. FI: 5.248. Cuartil: 1. (Article).
- Davey, RT; Fernández-Cruz, E; Markowitz, N; Pett, S; Babiker, AG; Wentworth, D; Khurana, S; Engen, N; Gordin, F; Jain, MK; Kan, V; Polizzotto, MN; Riska, P; Ruxrungtham, K; Temesgen, Z; Lundgren, J; Beigel, JH; Lane, HC; Neaton, JD; INSIGHT FLU-IVIG Study Grp. Anti-influenza hyperimmune intravenous immunoglobulin for adults with influenza A or B infection (FLU-IVIG): a double-blind, randomised, placebo-controlled trial. LANCET RESPIRATORY MEDICINE. 2019; 7(11) 951-963. FI: 25.094. Cuartil: 1. (Article).
- Benite, LMN; Díaz, AMR; Blanco, VP; Pérez, AP. Cutaneous crust as a key sign in the diagnosis of a patient with fever. MEDICINA CLINICA. 2019; 153(4) 182-182. FI: 1.635. Cuartil: 3. (Editorial Material).
- Boas, PV; Sánchez-Herrero, A; Suárez-Fernández, R; Campos-Domínguez, M. Neonatal ichthyosis and hypotrichosis. PEDIATRIC DERMATOLOGY. 2019; 36(4) 77-78. FI: 1.164. Cuartil: 4. (Editorial Material).
- Mohamed-Salem, R; Fernández, CR; Nieto-Pelegrin, E; Conde-Valentin, B; Rumero, A; Martínez-Quiles, N. Aqueous extract of Hibiscus sabdariffa

inhibits pedestal induction by enteropathogenic E. coli and promotes bacterial filamentation in vitro. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).

- Fortea-Gordo P; Nuño L; Villalba A; Peiteado D; Monjo I; Sánchez-Mateos P; Puig-Kröger A; Balsa A; Miranda-Carús ME. Two populations of circulating PD-1hiCD4 T cells with distinct B cell helping capacity are elevated in early rheumatoid arthritis. RHEUMATOLOGY. 2019; 58(9) 1662-1673. FI: 5.606. Cuartil: 1. (Article).
- Naredo, E; Janta, I; BaniAndrés-Rodríguez, O; Valor, L; Hinojosa, M; Bello, N; Serrano, B; Garrido, J. To what extent is nail ultrasound discriminative between psoriasis, psoriatic arthritis and healthy subjects?. RHEUMATOLOGY INTERNATIONAL. 2019; 39(4) 697-705. FI: 1.984. Cuartil: 3. (Article).

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

- Rodríguez-Lomba, E; Lozano-Masdemont, B; Avilés-Izquierdo, JA. Slow-Growing Salmon-Pink Nodule on the Buttock. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(9) 763-764. (Editorial Material).
- Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Avilés-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).
- Aragues, IH; Álvarez-Santullano, CAV; Fernández, RS; Pérez, AP. Linear atrophy and hypopigmentation after intralesional corticosteroid injection. REUMATOLOGIA CLINICA. 2019; 15(5) 72-73. (Letter).



## 5.02. Molecular biology of HIV

Group director: M<sup>a</sup> ÁNGELES MUÑOZ FERNÁNDEZ

Organisms involved: HGUGM

Type: Consolidated Group

### Research lines

#### Axis 1. Future perspectives of nanomedicine for HIV therapies.

##### Gene and cell therapy

- ▶ L1: Search for strategies in the prevention of HIV, HSV-2, and other sexually transmitted viruses: Intravaginal microbicides.
- ▶ L2: Search for strategies to modulate/activate dendritic cells to boost innate immune responses: Vaccine delivery.

#### Axis 2. Advances in the immunopathology of HIV infection

- ▶ L1: Novel molecular mechanisms associated with central nervous system damage in HIV infection.
- ▶ L2: Search for novel strategies targeting HIV-1 latency and eradication of reservoirs of HIV in the human body.
- ▶ L3: Role of innate immunity in the prevention and control of HIV infection. Biomarkers of inflammation and HIV-1 disease progression in the HIV-infected population.
- ▶ L4: Role of *env* genes in «elite controllers» and their implications for vaccine design.
- ▶ L5: HIV-1 and aging.

#### Axis 3 Immunology of pediatric HIV infection

- ▶ L1: Factors influencing the outcome of innate and adaptive immunity to HIV in children.
- ▶ L2: Factors associated with immunological, virological, and functional responses from disease progression in HIV-infected children.

- ▶ L3: Size of the reservoir and latency in HIV-infected children.
- ▶ L4: Study of miRNA, cDNA, and exosomes in HIV-infected children.
- ▶ L5: Database management. Epidemiology of pediatric HIV infection.
- ▶ L6: Evaluation of mechanisms of immune damage and recovery in the cohort of vertically infected subjects.

#### Axis 4. Human immunological and microbiological responses in small animal models and in human cervical biopsies

### Group members

- **Aguilera Alonso, David:** Researcher.
- **Almale Aso, M<sup>a</sup> Ángeles:** Other. RETICS.
- **Álvarez Losada, Susana:** Postdoctoral.
- **Cañadilla Martín, Vanesa:** Other. Support Technician.
- **Ceña Díez, Rafael:** Predoctoral.
- **Consuegra Fernández, Irene:** Other. RETICS.
- **Espinar Buitrago, M<sup>a</sup> de la Sierra:** Predoctoral.
- **Gallego de la Fuente, Jorge Luis:** Other. RETICS.
- **García Alonso, Dolores:** Researcher.
- **García Merino, Isabel M<sup>a</sup>:** Other. RETICS.
- **Gasco, Samanta:** Other. RETICS.
- **Gómez Rico, Coral:** Other. RETICS.
- **Guerrero Beltrán, Carlos:** Predoctoral.
- **Jiménez de Ory, Santiago:** Management.
- **Jiménez Fuentes, José Luis:** Researcher.
- **Martín Moreno, Alba:** FPU.
- **Mauleon Azpilicueta, Elba:** Other. RETICS.
- **Muñoz Fernández, M<sup>a</sup> Ángeles:** Senior Researcher.
- **Pacheco, Yolanda:** Other. RETICS.
- **Palau Concejo, Paula:** Other. RETICS.
- **Rodríguez Relaño, Ignacio:** Predoctoral.
- **Royo Rubio, Elena:** Predoctoral.
- **Serramía Lobera, M<sup>a</sup> Jesús:** Researcher.
- **Tarancón Díez, Laura:** Other. RETICS.

### Research Projects – Competitive Calls

- Title: **EUROPARTNER. Strengthening and spreading international partnership activities of the Faculty of Biology and Environmental Protection for interdisciplinary research and innovation of the University of Lodz.** NAWA IAP.EUROPARTNER  
Director: Maria Bryszewska  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: European research project of excellence  
Funding body: COST (European Cooperation in Science and Technology).  
Start date: 01/12/2018  
End date: 30/11/2020
- Title: **COST action CA17140: Cancer nanomedicine - from the bench to the bedside (NANO2CLINIC) CA17140**  
Director: OTHER  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: European research project of excellence  
Funding body: COST (European Cooperation in Science and Technology).  
Start date: 01/01/2018  
End date: 30/12/2020
- Title: **Implementación de plataformas para desarrollo de productos efectivos en dermatología (dermatitis atópica, dermatitis por abarsión, psoriasis).** SNEO-20161140  
Director: Muñoz Fernández, M<sup>a</sup> Ángeles / Molina, Eduardo  
Project type: European research project of excellence  
Funding body: CDTI  
Start date: 01/01/2017  
End date: 30/12/2019
- Title: **The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
Director: Fernández-Avilés Díaz, Francisco Jesús  
Colaborator: Muñoz Fernández, M<sup>a</sup> Ángeles  
Project type: Integrated research project of excellence  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019



- Title: Papel de la Nanomedicina en el desarrollo de una cura funcional para el VIH** P117/01115  
 Director Jiménez Fuentes, José Luis  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 31/12/2020
- Title: Efecto de nuevas generaciones de dendrímeros con prevención dual frente al VIH/VHS-2: caracterización y prueba de concepto.** P116/01863  
 Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Río HORTEGA Contract.** CM16/00224  
 Director: Ruiz Saez, Beatriz  
 Project type: Human Resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Young employment contract: Research assistant.** PEJ-2017-AI/BMD-7446  
 Director: Muñoz Fernández, M<sup>a</sup> Ángeles  
 Funding body: Consejería Educación Cultura y Deporte de la Comunidad de Madrid  
 Project type: Human resources  
 Start date: 01/03/2019  
 End date: 28/02/2021
- Title: Young employment contract: Laboratory Technician.** PEJ-2018-TL/BMD-11529  
 Director: Jiménez Fuentes, José Luis  
 Funding body: MICINN  
 Project type: Human resources  
 Start date: 01/01/2018  
 End date: 31/12/2020

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
RETICS	RETIC-RIS - Red de Investigación en SIDA	Collaborating group
RED	Red Iberoamericana de Ciencia y Tecnología para el Desarrollo (CYTED)	Coordinating group
CIBER	CIBER BBN	Associated group
Plataforma ISCIII	Red Nacional de Biobancos	Coordinator group
Others	Pediatric European network for treatment of AIDS (PENTA)	Associated group
Others	Red Española de Estudio de la Tuberculosis Infantil (pTB-Red)	Associated group
Others	European Network of Excellence for Paediatric Clinical Research Task-force in Europe for Drug Development for the Young (TEDDY)	Associated group
Others	ERANet-LAC Network of the European Union, Latin America and the Caribbean Countries on Joint Innovation and Research Activities	Associated group

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Dendrones carbosilano funcionalizados con ácidos grasos: formación de micelas y usos	P 2016 00726	Universidad de Alcalá de Henares - FIBHGM	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
Nanopartículas metálicas estabilizadas con dendrones carbosilano y sus usos	P 2015 00669 (2 patents family)	Universidad de Alcalá de Henares - FIBHGM	Francisco Javier de la Mata, Rafael Gómez, Javier Sánchez-Nieves, Cornelia Peña, José Luis Copa, Juan Soliveri, Jorge Pérez, 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
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 (8 patents family)	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 (2 patents family)	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 patents.

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



### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Julia Díaz Miravalls	Descripción de las neumonías adquiridas en la comunidad por <i>Staphylococcus aureus</i> en niños	David Aguilera Alonso	UCM	01/06/2019

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
M <sup>a</sup> Ángeles Muñoz-Fernández	Documento de consenso del CEVIHP/SEIP/AEP/SPNS respecto al tratamiento antirretroviral en niños y adolescentes infectados por el VIH. Panel de expertos del Colaborativo Español para la Infección VIH Pediátrica (CEVIHP)	Sociedad Española de Infectología Pediátrica (SEIP) de la Asociación Española de Pediatría (AEP) y Secretaría del Plan nacional del Sida

### Publications

Total Impact Factor: 132.3

	Nº	IF
Own publications	11	58.8
Joint publications	21	73.6
First decile publications	2	8.7
First quartile publications	19	95.0
Second quartile publications	11	34.6
Third quartile publications	0	0.0
Fourth quartile publications	2	2.7
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>32</b>	<b>132.3.5</b>

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

- Crichton, S; Belfrage, E; Collins, IJ; Doerholt, K; Judd, A; Le Coeur, S; Spoulou, V; Goodall, R; Scherpbier, H; Smit, C; Goetghebuer, T; Gibb, DM; Noguera, A; Navarro, ML; Ramos, JT; Galli, L; Giaquinto, C; Thorne, C; Santa Ansone; Marczyńska, M; Okhonskaia, L; de Tejada, BM; Jourdain, G; Decker, L; Ene, L; Hainaut, M; Van der Kelen, E; Delforge, M; de Martino, M; Tovo, PA; Patrizia, O; Larovere, D; Ruggeri, M; Faldella, G; Baldi, F; Badolato, R; Montagnani, C; Venturini, E; Lisi, C; Di Biagio, A; Taramasso, L; Giacomet, V; Erba, P; Esposito, S; Lipreri, R; Salvini, F; Tagliabue, C; Cellini, M; Bruzzese, E; Lo Vecchio, A; Rampon, O; Dona, D; Romano, A; Dodi, I; Maccabruni, A; Consolini, R; Bernardi, S; Kuekou, HT; Genovese, O; Olmeo, P; Cristiano, L; Mazza, A; Gabiano, C; Garazzino, S; Pellegatta, A; Pajkrt, D; Scherpbier, HJ; Weijzenfeld, AM; de Boer, CG; Jurriaans, S; Back, NKT; Zaaier, HL; Berkhout, B; Cornelissen, MTE; Schinkel, CJ; Wolthers, KC; Fraaij, PLA; van Rossum, AMC; Vermont, CL; van der Knaap, LC; Visser, EG; Boucher, CAB; Koopmans, MPG; van Kampen, JJA; Pas, SD; Henriët, SSV; van de Flier, M; van Aerde, K; Strik-Albers, R; Rahamat-Langendoen, J; Stelma, FF; Scholvinck, EH; de Groot-de Jonge, H; Niesters, HGM; van Leer-Buter, CC; Knoester, M; Bont, LJ; Geelen, SPM; Wolfs, TFW; Nauta, N; Schuurman, R; Verduyn-Lunel, F; Wensing, AMJ; Reiss, P;

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## 5.03. Autoimmune systemic diseases

Group director: **INDALECIO MONTEAGUDO SÁEZ/JOSÉ MARÍA ÁLVARO GRACIA**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

### Research lines

#### Axis 1. Optimization of biological therapies

- ▶ L1: Biological therapy in rheumatoid arthritis, spondyloarthropathy, systemic lupus erythematosus, and Sjögren syndrome: optimization of treatment.
- ▶ L2: Study and characterization of the immune response in autoimmune diseases treated with biologics.

#### Axis 2. Imaging of rheumatic diseases

- ▶ L3: Imaging techniques applied to rheumatic diseases.
- ▶ L4: Capillaroscopy as a diagnostic and prognostic tool in systemic autoimmune disease.

#### Axis 3. Systemic autoimmune rheumatic diseases

- ▶ L5: Fertility and pregnancy in rheumatic disease.
- ▶ L6: Systemic autoimmune rheumatic diseases (SARDs).
- ▶ L7: Inflammatory myopathy.
- ▶ L8: Coagulation in patients with systemic lupus erythematosus.

#### Axis 4. Cardiovascular risk

- ▶ L9: Cardiovascular risk factors in rheumatoid arthritis, ankylosing spondylitis, and psoriatic arthritis.

#### Axis 5. Chronic pain

- ▶ L10: Chronic musculoskeletal pain of non-inflammatory origin.

#### Axis 6. Early Inflammatory Arthritis

- ▶ L11: Characterization and management of early inflammatory arthritis. Leader: Isabel Castrejón.

#### Axis 7. Outcome measures in Rheumatology

- ▶ L12: Validation of indexes and questionnaires for measuring disease activity. Leader: Isabel Castrejón.

#### Axis 8. Interstitial Pneumopathy in Rheumatologic Diseases

- ▶ L13: Early detection and optimization of treatment in RA-associated IDPS. Leader: Isabel Castrejón.

The professionals of the Rheumatology Service of the HGUGM have great experience and dedication especially in systemic autoimmune diseases and chronic arthritis of adults and children, as well as in the management of biological therapies and new small molecules. The Rheumatology service at the HGUGM has a broad portfolio of services, a high-quality Day Hospital, a Musculoskeletal Ultrasound Unit, Microscopy and Capillaroscopy, a Biological Therapy Unit, a Child Rheumatology Unit and a specialized fertility consultation in rheumatologic patients, who work with high coordination to improve patient care and enhance biomedical research activity. The teaching activity complements the care and research activity, with 8 Rheumatology residents in training, undergraduate students of the medical school and national and international external rotants who come to improve their training and skills in clinical management and techniques used in daily practice.

### Group members

- **Álvaro-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.
- **Martínez Barrio, Julia:** R2. Recognised Researcher.
- **Molina Collada, Juan:** R1. First Stage Researcher.
- **Monteagudo Sáez, Indalecio:** R4. Leading Researcher.
- **Nieto González, Juan Carlos:** R2.
- **Rivera Redondo, Francisco Javier:** R2. Recognised Researcher.
- **Serrano Benavente, Belén:** R1. First Stage Researcher.

### Research Projects – Competitive Calls

- Title: **Procedimiento breve de regulación emocional para la fibromialgia, a través de internet** PSI2017-85447-R  
Director: Vallejo Pareja, Miguel Ángel  
Funding body: MICINN  
Project type: Research project  
Start date: 01/01/2018  
End date: 31/12/2019

### Not managed by FIBHGM

- Title: **Procedimiento breve de regulación emocional para la fibromialgia, a través de internet** PSI2017-85447-R  
Director: MIGUEL A. VALLEJO PAREJA/ JAVIER RIVERA  
Funding body: MICINN  
Project type: UNED Research project  
Start date: 01/01/2018  
End date: 31/12/2019

### Industrial and intellectual property registrations

#### Intellectual property

Title	Reference	Owner	Inventors
Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas	Nº Asiento Registral: 16/2013/5179	FIBHGM	Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez
Taller práctico de Técnicas de Laboratorio de Inmunología e interpretación clínica para médicos	Nº Asiento Registral: 16/2014/6111	FIBHGM	Larissa Valor, Luis Carreño, Diana Hernández
Taller práctico de Técnicas de Laboratorio de Inmunofluorescencia indirecta (IIF «Live») para médicos	Nº Asiento Registral: 16/2014/6112	FIBHGM	Larissa Valor, Fco. Javier López, Diana Hernández
Infiltraciones guiadas por ecografía en reumatología	Nº Asiento Registral: 16/2018/7393	FIBHGM	Juan Carlos Nieto González

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
Alejandro Balsa Criado, Petra Díaz del Campo Fontecha, Jose María Álvaro-Gracia Álvaro, José Luis Andreu Sánchez, Francisco Javier Blanco García, Laura Cano García, Esmeralda Delgado Frías, José Federico Díaz González, Ana Mª Fernández Ortiz, Blanca García Magallón, Luis Gómez Carrera, Carlos González Juanatey, M. Vanesa Hernández Hernández, Antonio Juan Mas, Francisco Javier Narváez García, Ana Ortiz García, Lucía Silva Fernández, Alejandro Tejedor Varillas	Guía de Práctica Clínica para el Manejo de Pacientes con Artritis Reumatoide	Guía en formato electrónico y papel



Publications		Total Impact Factor: 117.9
	Nº	IF
Own publications	4	10.0
Joint publications	20	107.8
First decile publications	5	57.2
First quartile publications	9	76.4
Second quartile publications	9	28.4
Third quartile publications	5	11.1
Fourth quartile publications	1	2.0
Nonindexed publications / No IF	4	-
<b>Total publications (including those without IF)</b>	<b>28</b>	<b>117.9</b>

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

- Aterido, A; Canete, JD; Tornero, J; Ferrandiz, C; Pinto, JA; Gratacos, J; Queiro, R; Montilla, C; Torre-Alonso, JC; Pérez-Venegas, JJ; Fernández Nebro A; Muñoz-Fernández, S; González, CM; Roig, D; Zarco, P; Erra, A; Rodríguez, J; Castaneda, S; Rubio, E; Salvador, G; Díaz-Torne, C; Blanco, R; Willisch Domínguez A; Mosquera, JA; Vela, P; Sánchez-Fernández, SA; Corominas, H; Ramírez, J; de la Cueva, P; Fonseca, E; Fernández, E; Puig, L; Dauden, E; Sánchez-Carazo, JL; López-Esteban, JL; Moreno, D; Vanaclocha, F; Herrera, E; Blanco, F; Fernández-Gutiérrez, B; González, A; Pérez-García, C; Alperi-López, M; Olive Marqués A; Martínez-Taboada, V; González-Alvaro, I; Sanmartí, R; Tomás Roura C; García-Montero, AC; Bonas-Guarch, S; Mercader, JM; Torrents, D; Codo, L; Gelpi, JL; López-Corbeto, M; Pluma, A; López-Lasanta, M; Tortosa, R; Palau, N; Absher, D; Myers, R; Marsal, S; Julia, A. Genetic variation at the glycosaminoglycan metabolism pathway contributes to the risk of psoriatic arthritis but not psoriasis. ANNALS OF THE RHEUMATIC DISEASES. 2019; 78(7) 979-987. FI: 16.102. Cuartil: 1. (Article).
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E; Castellvi, I; Airo, P; Vettori, S; Langhe, E; Hachulla, E; Erler, A; Ananieva, L; Krusche, M; López-Longo, FJ; Distler, JHW; Hunzelmann, N; Hoffmann-Vold, AM; Riccieri, V; Hsu, VM; Pozzi, MR; Ancuta, C; Rosato, E; Mihai, C; Kuwana, M; Saketkoo, LA; Chizzolini, C; Hesselstrand, R; Ullman, S; Yavuz, S; Rednic, S; Caimmi, C; Bloch-Queyrat, C; Allanore, Y; Guiducci, S; Walker, UA; Kyburz, D; Lapadula, G; Maurer, B; Jordan, S; Dobrota, R; Becvar, R; Sierakowsky, S; Bielecka, OK; Sulli, A; Cutolo, M; Cuomo, G; Nicoara, I; Kahan, A; Vlachoyiannopoulos, PG; Montecucco, CM; Caporali, R; Stork, J; Inanc, M; Carreira, PE; Novak, S; Czirjak, L; Varju, C; Kucharz, EJ; Kotulska, A; Kopec-Medrek, M; Widuchowska, M; Cozzi, F; Rozman, B; Mallia, C; Coleiro, B; Gabrielli, A; Farge, D; Wu, C; Marjanovic, Z; Faivre, H; Hij, D; Dhamadi, R; Wollheim, F; Scheja, A; Wuttge, DM; Andreasson, K; Martinovic, D; Balbir-Gurman, A; Trotta, F; Lo Monaco, A; Pellerito, R; Mauriziano, O; Caramaschi, P; Morovic-Vergles, J; Black, C; Denton, C; Damjanov, N; Henes, J; Santamaría, VO; Heitmann, S; Krasowska, D; Matthias, Hasler, P; Burkhardt, H; Himsel, A; Bajocchi, G; Da Silva, JAP; Salvador, MJ; Stamenkovic, B; Stankovic, A; Selmi, CF; De Santis, M; Tikly, M; Denisov, LN; Herrick, A; Muller-Ladner, U; Frerix, M; Tarner, I; Scorza, R; Puppo, F; Engelhart, M; Strauss, G; Nielsen, H; Damgaard, K; Szucs, G; Mendoza, AZ; de la Puente, C; Giraldo, WAS; Midtvedt, O; Reiser, S; Garen, T; Launay, D; Valesini, G; Ionescu, RM; Groseanu, L; Opris, D; Cornateanu, RS; Ionitescu, R; Gherghe, AM; Soare, A; Gorga, M; Bojinca, M; Milicescu, M; Sunderkotter, C; Kuhn, A; Sandorfi, N; Schett, G; Beyer, C; Meroni, P; Ingegnoli, F; Mouthon, L; De Keyser, F; Melsens, K; Cantatore, FP; Corrado, A; Iversen, L; von Muhlen, CA; Bohn, JM; Lonzett, LS; Eyerich, K; Hein, R; Knott, E; Wiland, P; Szmyrka-Kaczmarek, M; Sokolik, R; Morgiel, E; Madej, M; Houssiau, FA; Krummel-Lorenz, B; Saar, P; Aringer, M; Gunther, C; Westhovens, R; Lenaerts, J; Anic, B; Baresic, M; Mayer, M; Uprus, M; Otsa, K; Granel, B; Muller, CD; Radominski, SC; Azevedo, VF; Jiménez, S; Busquets, J; Agachi, S; Groppa, L; Chiaburu, L; Russu, E; Popa, S; Zenone, T; Pileckyte, M; Mathieu, A; Vacca, A; Sampaio-Barros, PD; Yoshinari, NH; Marangoni, RG; Martín, P; Fuocco, L; Stebbings, S; Highton, J; Chapman, P; O'Donnell, J; Stamp, L; Doube, A; Solanki, K; Veale, D; O'Rourke, M; Loyo, E; Li, MT; Mohamed, WAAA; Amoroso, A; Gigante, A; Oksel, F; Yargucu, F; Tanaseanu, CM; Popescu, M; Dumitrascu, A; Tiglea, I; Foti, R; Chiriac, R; Furst, D; Villiger, P; Adler, S; van Laar, J; Kayser, C; Fathi, N; Hassanien, M; Lefebvre, PGD; Rubio, SR; Expósito, MV; Chatelus, E; Sibilia, J; Gottenberg, JE; Chiffot, H; Litinsky, I; Emery, P; Buch, M; Del Galdo, F; Venalis, A; Buttrini, I; Venalis, P; Rugele, R; Karpec, D; Lasky, JA; Cosentino, V; Kerzberg, E; Montoya, F; Bianchi, W; Carneiro, S; Maretta, GB; Bianchi, DV; Limonta, M;



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  - Torrente-Segarra, V; Monte, TCS; Rua-Figueroa, I; De Una-Álvarez, J; Balboa-Barreiro, V; López-Longo, FJ; Galindo-Izquierdo, M; Calvo-Alen, J; Olive-Marqués, A; Mourino-Rodríguez, C; Horcada, L; Sánchez-Atrio, A; Montilla,



## 5.03. AUTOIMMUNE SYSTEMIC DISEASES

C; Salgado, E; Díez-Álvarez, E; Blanco, R; Andreu, JL; Fernández-Berrizbeitia, O; Hernández-Beriain, JA; Gantes, M; Hernández-Cruz, B; Pecondon-Espanol, A; Marras, C; Bonilla, G; Pego-Reigosa, JM; RELESSER Study Grp Spanish Soc; Study Grp Syst Autoimmune Dis. Relationship between damage and mortality in juvenile-onset systemic lupus erythematosus: Cluster analyses in a large cohort from the Spanish Society of Rheumatology Lupus Registry (RELESSER). SEMINARS IN ARTHRITIS AND RHEUMATISM. 2019; 49(1) 126-135. FI: 4.751. Cuartil: 1. (Article).

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- Silva-Fernández, L; Otón, T; Askanase, A; Carreira, P; López-Longo, FJ; Olive, A; Rua-Figueroa, I; Narvaez, J; Ruiz-Lucea, E; Andrés, M; Calvo, E; Toyos, F; Alegre-Sancho, JJ; Tomero, E; Montilla, C; Zea, A; Uriarte, E; Calvo-Alen, J; Marras, C; Martínez-Taboada, VM; Belmonte-López, MA; Rosas, J; Raya, E; Bonilla, G; Freire, M; Pego-Reigosa, JM; Millán, I; Hughes-Morley, A; Andreu, JL; Spanish Soc Rheumatology Syst. Pure Membranous Lupus Nephritis: Description of a Cohort of 150 Patients and Review of the Literature. REUMATOLOGIA CLINICA. 2019; 15(5) 252-257. (Article).
- Nieto-González, JC; Monteagudo, I. Intra-articular joint injections in juvenile idiopathic arthritis: state of the art. REUMATOLOGIA CLINICA. 2019; 15(6) 343-349. (Article).
- Queiro R; Laiz A; Seoane-Mato D; Galindez Agirregoikoa E; Montilla C; Park HS; Bethencourt Baute JJ; Bustabad S; Pinto Tasende JA; Tejon P; Joven Ibáñez B; Ramírez J; Cuervo A; Canete JD; Trenor Larráz P; Ordas C; Alonso S; García-Fernández E; Toniolo E; Moreno Ramos MJ; Beteta MD; Lojo Oliveira L; Navio Marco T; Cebrian L; Barbazan C; Maceiras F; Rodríguez-Moreno J; Steiner M; Muñoz-Fernández S; Novoa Medina FJ; León M; Rubio E; Medina Luezas J; Sánchez-González MD; Arevalo M; Gratacos J; Senabre JM; Rosas JC; Santos Soler G; Nieto-González JC; González C; López Robles A; Álvarez Castro C; Ruiz Montesino MD; Torrente-Segarra V; Fernández-Carballido C; Martínez-Vidal MP; Jovani V; Urruticoechea-Arana A; Cabello Fernández Y; Toledo MD; Almodovar R; Belmonte-Serrano MA; Notario Ferreira I; Raya Álvarez E; Grupo de Trabajo del Proyecto REAPSER. Spanish Registry of Recent-onset Psoriatic Arthritis (REAPSER study): Aims and methodology. REUMATOLOGIA CLINICA. 2019; 15(1) 34-42. (Review).





# 5.05. Pathogenesis of the immunoallergic response

Group director: **JOSÉ MANUEL ZUBELDÍA ORTUÑO**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1: Basic and experimental allergology

- ▶ Line 1: Mechanisms of the allergic response and their regulation.
- ▶ Line 2: Transgenesis and phenotyping.
- ▶ Line 3: Hyperoxia-induced disease.
- ▶ Line 4: Allergenic characterization of noncommercial allergens.

### Axis 2: Uncommon allergic diseases

- ▶ Line 1: Difficult-to-control asthma.
- ▶ Line 2: Hereditary angioedema.
- ▶ Line 3: Eosinophilic esophagitis.
- ▶ Line 4: Activation of mastocytes.

### Axis 3: Pediatric allergy

- ▶ Line 1: Oral immunotherapy with foods.
- ▶ Line 2: Gastrointestinal allergy.
- ▶ Line 3: Anaphylaxis in children.
- ▶ Line 4: Use of social networks in food-allergic children.

## Group members

- **Álvarez Perea, Alberto:** R3. Established Researcher.
- **Baeza Ochoa de Ocariz, M<sup>a</sup> Luisa:** R3. Established Researcher.
- **Cabrera Freitag, Paula:** R3. Established Researcher.
- **Fuentes Aparicio, Victoria:** R1. First Stage Researcher.
- **Infante Herrero, Sonsoles:** R1. First Stage Researcher.
- **Jaqueti Moreno, M<sup>a</sup> Paloma.**
- **Morales Cabeza, Cristina:** R1. First Stage Researcher.
- **Prieto García, Alicia:** R3. Established Researcher.
- **Rojas Pérez Ezquerro, Patricia Eugenia:** R1. First Stage Researcher.
- **Tornero Molina, Pilar:** R1. First Stage Researcher.
- **Zapatero Remón, Lydia:** R4. Leading Researcher.
- **Zubeldía Ortuño, José Manuel:** R4. Leading Researcher.

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of network	Role
CIBER	Centro de Investigación Biomédica en Red CIBERER Group U761	Associated group



## 5.03. PATHOGENESIS OF THE IMMUNOALLERGIC RESPONSE

Publications		Total Impact Factor: 92.0
	Nº	IF
Own publications	10	35.2
Joint publications	11	56.8
First decile publications	5	32.1
First quartile publications	8	51.0
Second quartile publications	9	31.4
Third quartile publications	3	9.1
Fourth quartile publications	1	0.6
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>21</b>	<b>92.0</b>

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- Infante, S; Marco-Martín, G; Zubeldia, JM; Fuentes-Aparicio, V; Álvarez-Perea, A; Cabrera-Freitag, P; Morales-Cabeza, C; Zapatero, L. Oral Food Challenge in Food Protein-Induced Enterocolitis Syndrome by Fish: Is There Any Room for Improvement?. *INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY*. 2019; 179(3) 215-220. FI: 2.917. Cuartil: 3. (Article).
- Zuraw, B; Katelaris, C; Sussman, G; Keith, PK; Yang, W; Hebert, J; Hanzlikova, J; Staubach-Renz, P; Martínez-Saguer, I; Magerl, M; Aygoren-Pursun, E; Farkas, H; Reshef, A; Kivity, S; Neri, S; Crisan, I; Caballero, T; Baeza, ML; Hernández, MD; Li, H; Lumry, W; Bernstein, JA; Hussain, I; Anderson, J; Schwartz, LB; Jacobs, J; Manning, M; Levy, D; Riedl, M; Christiansen, S; Zuraw, BL; Cicardi, M; Craig, T; Longhurst, H; Grattan, C; Bork, K; Kreuz, W; Jacobs, I; Pragst, I; Herget, S; Dalton, S; Clement, C; Mycroft, S; Pawaskar, D; Zhang, Y; Machnig, T; Waldhauser, H; Feuersenger, H; Lawo, JP; Lang, D; Hoernlein, S; Mildenerberger, M; Foeller, K; Ellis, F; Wood, D; Walsh, M; Qu, QL; Mueller-Stark, K; Feussner, A; Kalina, U; Ma, X; Rigsby, S; Scheffler, E; Fischer, JF; Kolb, C; Katelaris, CH; Frankum, B; Keat, K; Philip, B; Lee, JA; Urriola, N; Lee, MW; Sussman, GL; Levi, G; Gould, W; Keith, PK; Ferrie, P; Rosenberg, E; Wasserman, S; Yang, W; O'Quinn, J; Hebert, J; Gagnon, R; Hanzlikova, J; Vachova, M; Stauerbach-Renz, P; Weber, A; Zimmer, S; Gilfert, T; Lang, B; Martínez-Saguer, I; Escuriola-Ettingshausen, C; Magerl, M; Maurer, M; Metz, M; Schoepke, N; Altrichter, S; Hawro, T; Schwabe, D; Graff, J; Behrens, F; Kohm, M; Andarawewa, S; Farkas, H; Temesszentandrasei, G; Kohalmi, VK; Reshef, A; Kidon, M; Kivity, S; Kadar,



- L; Benor, S; Cicardi, M; Bonanni, E; Wu, M; Zanichelli, A; Mansi, M; Neri, S; Rizzotto, A; Giardino, F; Fidone, F; Crisan, I; Varga, M; Iftene, M; Badiu-Tisa, ID; Caballero, T; Cabanas, R; Pedrosa, M; Rivero-Paparoni, D; Gómez-Traseira, C; Alvez, A; Phillips, E; Baeza, ML; Prieto, A; Zubeldia, J; Hernández, MD; Ibáñez, E; Almero, R; Longhurst, H; Buckland, M; Grigoriadou, S; Manson, A; Yeatman, N; Laffan, J; Nasr, I; Ghurye, R; Rehman, T; Craig, T; Schaeffer, C; Ghaffari, G; Kelbel, T; Reddy, V; Buyantseva, L; Mende, C; José, J; Novchicht, T; Li, HH; Scarupa, M; Economides, A; White, M; Kaliner, M; Ward, C; Shaikh, S; Johnson, T; Kosh, L; Dauphin, P; Baker, J; Persons, S; Newman, A; Noonan, MJ; Lumry, WR; Poarch, KP; Tucker, J; Aguilar, D; Noth, D; Bernstein, J; Bernstein, D; Evans, S; Crawford, M; McGuckin, SD; McCollum, JR; Bradley, B; Wagner, C; Cartwright, A; Bonner, J; Anderson, J; Soong, W; Sikora, M; Lemke, M; Luthin, P; Youngblood, B; DeBerry, E; Schwartz, LB; Gilbert, E; Zhao, W; Ward, B; Álvarez, A; Kumar, S; Akl, E; Jacobs, J; Curl, J; Silva, K; Mostofi, T; Schultz, N; Manning, ME; Davis, A; Nelson, J; Levy, DS; Riedl, M; Zuraw, B; Christiansen, SC; COMPACT Investigators. Long-Term Outcomes with Subcutaneous C1-Inhibitor Replacement Therapy for Prevention of Hereditary Angioedema Attacks. *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE*. 2019; 7(6) 1793-. FI: 7.574. Cuartil: 1. (Article).
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  - García-Gutiérrez, I; Acevedo, M; Tornero, P; Matilla, A; Márquez, L; Sánchez-Herrero, A; Prieto-García, A. Severe Maculopapular Exanthema Induced by Regorafenib: Successful Desensitization and Adaptation of a Dosage Regimen. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(1) 53-55. FI: 3.488. Cuartil: 2. (Article).
  - Álvarez-Perea, A; Sánchez-García, S; Muñoz Cano R; Antolin-Amerigo, D; Tsilochristou, O; Stukus, DR. Impact Of "eHealth" in Allergic Diseases and Allergic Patients. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(4) 309-311. FI: 3.488. Cuartil: 2. (Article).
  - Plaza, V; Blanco, M; Delgado, J; Martínez, I; Zubeldia, JM; Molina, J. Survey of Opinion of Spanish Physicians on the Role of Eosinophils in Asthma and Other Diseases. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(4) 298-. FI: 3.488. Cuartil: 2. (Editorial Material).
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  - Cabrera-Freitag, P; Infante, S; Bartolome, B; Álvarez-Perea, A; Fuentes-Aparicio, V; Remon, LZ. Anaphylaxis Related to Passive Second-Hand Exposure to Cannabis sativa Cigarette Smoke in Adolescents. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(6) 456-458. FI: 3.488. Cuartil: 2. (Editorial Material).
  - Noguero-Mellado B; Rojas-Pérez-Ezquerro PD; Tornero Molina P; Ballesteros M; Zubeldia Ortuño JM. Delayed Hypersensitivity Reaction to Lenalidomide: 2 Different Clinical Patterns in the Same Patient. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(2) 103-111. FI: 3.488. Cuartil: 2. (Review).
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## 5.03. PATHOGENESIS OF THE IMMUNOALLERGIC RESPONSE

Protocol to Oxaliplatin: Successful Adjuvant Use of Omalizumab. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(6) 461-. FI: 3.488. Cuartil: 2. (Editorial Material).

- Álvarez-Perea, A; Fuentes-Aparicio, V; Cabrera-Freitag, P; Infante, S; Zapatero, L; Zubeldia, JM; Baeza, ML. Is Self-injectable Epinephrine Being Used by Children With Food Allergy?. *JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY*. 2019; 29(4) 300-. FI: 3.488. Cuartil: 2. (Editorial Material).
- Martín-Muñoz, MF; Lebrero, EA; Zapatero, L; Aparicio, VF; Gibert, MP; Martín, AMP; Muñoz, C; Belver, MT; Martorell-Calatayud, C; Martorell-Aragón es, A; Blasco, C; Vila, B; Gómez, C; Nevot, S; Martín, JMG; Madero, R; Echeverría, L. Egg OIT in clinical practice (SEICAP II): Maintenance patterns and

desensitization state after normalizing the diet. *PEDIATRIC ALLERGY AND IMMUNOLOGY*. 2019; 30(1) 81-92. FI: 4.699. Cuartil: 1. (Article).

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

Group director: **RAFAEL CORREA ROCHA**

Organisms involved: **HGUGM**

Type: **Emerging Group**

### Research lines

#### Axis 1: Immunology of solid organ transplantation

- ▶ Line 1: Cellular immunotherapy with Treg cells in pediatric solid organ transplantation. Leader: Rafael Correa Rocha.

#### Axis 2: Immune regulation in pediatric patients

- ▶ Line 1: Regulation and Immunological Homeostasis in Pediatric Diseases. Leader: Rafael Correa Rocha
- ▶ Line 2: Advanced immunotherapies in Pediatrics. Leader: Rafael Correa Rocha.

#### Axis 3: Advanced immunotherapies and genetic modification of immune cells

- ▶ Line 1: Development of genetically modified cells to induce immune tolerance. Leader: Marjorie Pion
- ▶ Line 2: Exosomes and immune cell communication mechanisms. Leader: Marjorie Pion

### Group members

- **Bernaldo de Quirós Plaza, Esther:** R1. First Stage Researcher.
- **Campos Domínguez, Minia:** R3. Established Researcher.
- **Correa Rocha, Rafael:** R4. Leading Researcher.
- **Fernández Castillo, Marta:** R1. First Stage Researcher.
- **Gallego Valle, Jorge:** R1. First Stage Researcher.
- **González Crespo, Almudena:** Other. Research manager.
- **Hernández Flórez, Diana Carolina:** Other. Research manager.
- **Kennedy Batalla, Rebeca:** R1. First Stage Researcher.
- **López Esteban, Rocío:** Other. Lab Technician.
- **Manso Gil, Sergio:** R1. First Stage Researcher.
- **Martínez Bonet, Marta:** R2. Recognised Researcher.
- **Pion, Marjorie:** R3. Established Researcher.
- **Seoane Reula, M<sup>a</sup> Elena:** R3. Established Researcher.

The Immuno-regulation Laboratory (LIR) led by Rafael Correa Rocha constitutes an emerging group within the Gregorio Marañón Health Research Institute (IISGM), included in Area 5 (Pathology of the Immune System). The group has focused its research on the study of the immunological mechanisms involved in different immune pathologies of pediatric patients. These studies constitute an unpublished line in the center and have resulted in the development of a pioneering clinical trial in the world to prevent rejection in children transplanted from the heart through a therapy with Treg cells. Another principal investigator of the group, Dr. Marjorie Pion, is developing a leading line of research on the genetic modification of immune cells for the development of advanced cellular immunotherapies.



### Research Projects – Competitive Calls

- Title: The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Correa Rocha, Rafael  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Implementación de una terapia celular con células Treg obtenidas de tejido tímico (thyTreg) para prevenir el rechazo a trasplantes. Un nuevo arsenal terapeutico frente a alteraciones inmunes.** DTS18/00038  
 Director: Correa Rocha, Rafael  
 Project type: Technology research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2015  
 End date: 31/01/2019
- Title: Ensayo clinico para evaluar la eficacia de una terapia celular cpon células Treg obtenidas de tejido tímico (thyTreg) en la prevencion de rechazo en niños trasplantados de corazón.** PI18/00495  
 Director: Correa Rocha, Rafael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: Generación de celulas Treg con receptor de Antígeno Quimérico (CAR-Treg) a partir de tejido tímico humano. Un nuevo arsenal terapéutico en Inmunoterapia Celular.** PI18/00506  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: Desarrollo de protocolos de expansión de células. Treg en condiciones GMP para su uso en inmunoterapia celular para la prevención de rechazo a trasplante en pacientes pediátricos.** PI15/00011  
 Director: Correa Rocha, Rafael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 31/07/2019
- Title Ensayo de inmunoterapia celular para prevenir el rechazo a trasplante en niños mediante el aislamiento y re-infusión de células treg autólogas.** ICI14/00282  
 Director: Correa Rocha, Rafael  
 Project type: Clinical Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática(EXOHEP-CM).** S2017/BMD-3727-1  
 Director: Pion, Marjorie  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/10/2018  
 End date: 31/12/2019
- Title: Sara Borrell contract** CD18/00105  
 Director: Martínez Bonet, Marta  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: Predoctoral contract** FI18/00109  
 Director: Fuentelsaz Romero, Sara  
 Project type: Human resources  
 Funding body: Instituto de Salud Carlos III



Start date: 01/01/2019

End date: 31/12/2021

- Title: **Predoxal contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8524  
Director: Correa Rocha, Rafael  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020
- Title: **Predoxal contract (Comunidad de Madrid)** PEJD-2018-PRE/BMD-8094  
Director: Pion, Marjorie  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2019

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Procedimiento de obtención de células T reguladoras derivadas de tejido tímico y uso de dichas células como inmunoterapia celular en trastornos del sistema inmune	P 201830197	FIBHGM	Rafael Correa, Marjorie Pion, Esther Bernaldo de Quirós

\* Reference: P (Patent).

### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
	Marta Fernández Castillo	Estudio de los mecanismos inmunológicos del Síndrome Coronario Agudo, sus estados patológicos y enfermedades asociadas	Rafael Correa Rocha	Diversos organismos oficiales	27/02/2019
Ph Thesis	Abraham Merino López	Characterization Of T-Cell Ontogeny And Other Cell Populations In Pediatric Human Thymus	Manuel Desco Menéndez, Rafael Correa Rocha	UC3M	09/07/2019
Ph Thesis	Rebeca Kennedy Batalla	Perfil inmunológico de pacientes pediátricos con ictiosis. Estudio del efecto de terapias pioneras sobre la clínica y la desregulación inmune observada en ictiosis	Rafael Correa Rocha	UAH	20/02/2019
Ph Thesis	Jimena Pérez Moreno	Papel de las células T reguladoras en la alergia de las proteínas de la leche de vaca no mediada por IGE en la infancia	César Sánchez Sánchez, Rafael Correa Rocha	UCM	06/09/2019



## 5.06. IMMUNE REGULATION AND HOMEOSTASIS IN DISEASES OF THE IMMUNE SYSTEM

Publications		Total Impact Factor: 92.8
	Nº	IF
Own publications	6	88.8
Joint publications	1	4.0
First decile publications	2	82.0
First quartile publications	2	82.0
Second quartile publications	2	6.7
Third quartile publications	2	2.8
Fourth quartile publications	1	1.2
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>8</b>	<b>92.8</b>

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

- López-Abente, J; Bernaldo-de-Quirós, E; Camino, M; Gil, N; Panadero, E; Campos-Domínguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).
- Arteta, ELH; Rivero, PA; Ros, MIM; Domínguez, MC. Isolated skin lesions in a neonate: A case of congenital Langerhans cell histiocytosis. ANALES DE PEDIATRIA. 2019; 90(6) 408-409. FI: 1.313. Cuartil: 3. (Letter).
- Nigrovic PA; Martínez-Bonet M; Thompson SD. Implications of juvenile idiopathic arthritis genetic risk variants for disease pathogenesis and classification. CURRENT OPINION IN RHEUMATOLOGY. 2019; 31(5) 401-410. FI: 4.006. Cuartil: 2. (Article).

- Bardon-Cancho, EJ; Garrido-Colino, C; Hernández-García, B; Parra-Blanco, V; García-Morin, M; Cela, E; Domínguez, MC. Overlap between Angiolymphoid Hyperplasia with Eosinophilia and Kimura's Disease in a Child with Immune Thrombocytopenic Purpura. INDIAN JOURNAL OF DERMATOLOGY. 2019; 64(2) 159-161. FI: 1.523. Cuartil: 3. (Letter).
- Hernández-Martín A; Kennedy-Batalla R; Cañedo E; Bernaldo-de-Quirós E; Carazo-Gallego B; Vera A; Torrelo A; Noguera-Morel L; González-Sarmiento R; Bolling M; Martínez-Bonet M; Pion M; Correa-Rocha R. Imbalance in T-Helper 17 Cells and Targeted Therapy in an Infant with SAM-like Syndrome. NEW ENGLAND JOURNAL OF MEDICINE. 2019; 381(22) 2176-2178. FI: 74.699. Cuartil: 1. (Letter).
- Boas, PV; Sánchez-Herrero, A; Suárez-Fernández, R; Campos-Domínguez, M. Neonatal ichthyosis and hypotrichosis. PEDIATRIC DERMATOLOGY. 2019; 36(4) 77-78. FI: 1.164. Cuartil: 4. (Editorial Material).
- Gutiérrez, C; López-Abente, J; Pérez-Fernández, V; Prieto-Sánchez, A; Correa-Rocha, R; Moreno-Guillen, S; Muñoz-Fernández, MA; Pion, M. Analysis of the dysregulation between regulatory B and T cells (Breg and Treg) in human immunodeficiency virus (HIV)-infected patients. PLOS ONE. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).

### **Other publications**

- Cunin, P; Bouslama, R; Machlus, KR; Martínez-Bonet, M; Lee, PY; Wactor, A; Nelson-Maney, N; Morris, A; Guo, L; Weyrich, A; Sola-Visner, M; Boilard, E; Italiano, JE; Nigrovic, PA. Megakaryocyte emperipolesis mediates membrane transfer from intracytoplasmic neutrophils to platelets. ELIFE. 2019; 8 -. FI: 7.08. Cuartil: 1. (Article).





## 5.07. Infections in pediatric patients

Group director: M<sup>a</sup> LUISA NAVARRO GÓMEZ

Organisms involved: HGUGM

Type: Consolidated Group

### Research lines

#### Axis 1: Bronchiolitis

- ▶ Line 1: Description of early markers of severity in bronchiolitis caused by RSV: IL-8 in respiratory secretions and plasma during admission and its value as a predictor of severity. Viral load will be determined in patients with RSV bronchiolitis, as will its predictive value. Lymphopenia will be evaluated as an early marker of severity during admission in infants with RSV bronchiolitis. Does the severity of RSV bronchiolitis depend on viral genotypes? Leader: Rosa Rodríguez.
- ▶ Line 2: RSV bronchiolitis. Humoral immune response to RSV. Determination of antibodies to RSV surface proteins F and G and their role in the preparation of vaccines against RSV. Study of humoral immunity against RSV proteins preF and postF and G in full-term infants and in premature infants. Leader: Rosa Rodríguez.
- ▶ Line 3: RSV bronchiolitis. Study of inflammatory mediators. Cytokines and their role in the subsequent development of recurrent wheezing. Description of the cytokine profile in RSV bronchiolitis during admission, at 1 month, and at 1 year after discharge. Description of a cytokine profile that makes it possible to predict the development of recurrent postbronchiolitis wheezing. Leader: Rosa Rodríguez.
- ▶ Line 4: Treatment of bronchiolitis in the hospitalized patient. High-flow oxygen therapy in the treatment of bronchiolitis. What is the ideal flow rate? Hypertonic saline solution in the treatment of bronchiolitis. Is it appropriate for all hospitalized patients? Leader: Rosa Rodríguez.
- ▶ Line 5: Impact of admission for RSV bronchiolitis on families. European RSV outcomes study. Estudio EROS Study. ab 140103. Leader: Rosa Rodríguez.
- ▶ Line 6: Evaluation of antiviral efficacy of Lumicitabine in children with respiratory syncytial virus infection. Leader: Rosa Rodríguez.

- ▶ Line 5: Needs for future pharmacoeconomic analysis of RSV vaccines: Assessing the burden of pediatric RSV disease and QALYs lost (Phase I: prospective study). Leaders: Rosa Rodríguez and Felipe González.

#### Axis 2: HIV infection

- ▶ Line 1: Study of the clinical characteristics, immunological-virological status, and associated comorbidities, including characteristics related to bone metabolism, cardiovascular system, and lipodystrophy, as well as antiretroviral treatment strategies in patients from CoRISpe (infected newborns, adolescents, and young adults). Leader: María Luisa Navarro.
- ▶ Line 2: Determination of the HIV reservoir, inflammatory status, immunosenescence, and immune function in pediatric patients, including intestinal microbiota and response to vaccines. Leader: María Luisa Navarro.
- ▶ Line 3: Evaluation of the current situation and outcome of pediatric HIV/HCV-coinfected patients. Liver function and response to treatment. Comparison with a cohort of HCV-monoinfected pediatric patients. Leader: María Luisa Navarro.
- ▶ Line 4: FARO project of CoRISpe: Evaluation of vertically infected adolescents and young adults who have been transferred to adult units. Identify factors associated with loss to follow-up, morbidity, and mortality. Evaluation of stigma, quality of life, drug use, and sexual and reproductive health in these patients, compared with other populations (controls and a horizontal cohort). Leader: María Luisa Navarro.
- ▶ Line 5: Evaluation of the results of neuroimaging and the neurocognitive profile of patients infected by HIV through vertical transmission. Evaluation of the quality of sleep in this population. Leader: María Luisa Navarro.
- ▶ Line 6: Analysis of the clinical situation and development of perinatal comorbidities in exposed noninfected children and the epidemiological

Continued on next page

### Research lines (cont.)

characteristics of recently diagnosed pediatric patients. Leader: María Luisa Navarro.

- ▶ Line 7: Description and comparison of the characteristics of the different populations, mainly those in developing countries. Contribution of our data to cohorts from other countries. Evaluation of the virological parameters of HIV with respect to genotype and subtypes and resistance to antiretroviral drugs. Analysis and comparison of time trends in each of these areas between cohorts. Equatorial Guinea cohort. European cohort. Latin-American cohort. Leader: María Luisa Navarro.
- ▶ Line 8: Activation and immunosenescence during the maturation of the immune system in children infected vertically with HIV. Leader: María Luisa Navarro.

#### Axis 3: Tuberculosis

- ▶ Line 1: Determination of free cytokines in plasma and specific response to tuberculosis. Use as biomarkers in children with active disease and latent tuberculosis. Leader: Begoña Santiago.
- ▶ Line 2: Determination of the use of diagnostic tests (tuberculin skin test, QuantiFERON, chest x-ray, CT, microscopy, culture, PCR) in an outbreak of pediatric tuberculosis in a primary school. Leader: Begoña Santiago.
- ▶ Line 3: Pharmacokinetics (C max, area under the curve, time to maximum concentration) after administration of isoniazid (single daily dose of 10 mg/kg) in the study population, and its equivalent in neonates, infants aged 1-3 months, and infants aged 3-6 months. Leader: Begoña Santiago.
- ▶ Line 4: Registration of cases of pediatric tuberculosis in Spain and description of clinical presentation, diagnosis, therapy, and outcome of cases of pediatric tuberculosis in hospitals belonging to the Spanish Network for the Study of Pediatric Tuberculosis. Leader: Begoña Santiago.
- ▶ Line 5: Creation of a national collection of samples from pediatric patients with tuberculosis, storage in biobanks. Leader: Begoña Santiago.
- ▶ Line 6: Prescription of antituberculosis medication in children in Spain (Phase I of the MAGISTRAL project) and drafting of a consensus document on prescription of antituberculosis drugs in children (Phase II of the MAGISTRAL project). Leader: Begoña Santiago.

- ▶ Line 7: Determination of the sensitivity and specificity of the tuberculin skin test and IGRA in the diagnosis of nontuberculous mycobacterial peripheral adenitis in Spain and Europe. Leader: Begoña Santiago.
- ▶ Line 8: Comparison of the efficacy of different therapeutic approaches (medical and surgical) to nontuberculous mycobacterial peripheral adenitis in children. Leader: Begoña Santiago.
- ▶ Line 9: Evaluation of the efficacy and safety of treatment with linezolid against tuberculosis in the patient aged less than 18 years. Leader: Begoña Santiago.
- ▶ Line 10: Evaluation of risk factors, capacity for contagion, and outcome after treatment of adult-type pulmonary TB in a cohort of children and adolescents with TB in a low-endemic country. Leader: Begoña Santiago.
- ▶ Line 11: Development of a European database in children with pediatric tuberculosis to describe its clinical presentation, diagnosis, therapy, and outcome, as well as various diagnostic and therapeutic approaches throughout Europe. Leader: Begoña Santiago.
- ▶ Line 12: Description of the clinical presentation, diagnosis, therapy, and outcome of tuberculous meningitis in children in Europe. Leader: Begoña Santiago.
- ▶ Line 13: ULTRATB-Xpert MTB/RIF Ultra for the diagnosis of paediatric TB in a low TB burden region. Leader: Begoña Santiago.
- ▶ Line 14: Implementation of a computer-assisted tool for the diagnosis of pediatric tuberculosis (CAD4PTB). Leader: Begoña Santiago.

#### Axis 4: Bone and joint infection in children

- ▶ Line 1: Clinical and epidemiological characteristics, laboratory data, and outcome in children with bone and joint infection. Leader: Jesús Saavedra.
- ▶ Line 2: Etiología más frecuente de las IOA en niños y su repercusión en la presentación y evolución clínicas. Leader: Jesús Saavedra.
- ▶ Line 3: Evaluation of the diagnostic and medical-surgical approach in children with bone and joint infections at the various collaborating centers. Leader: Jesús Saavedra.
- ▶ Line 4: Study of predictors of severity and sequelae in children with bone and joint infections. Leader: Jesús Saavedra.

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## Research lines (cont.)

### Axis 5: Invasive infection by Group A Streptococcus

- ▶ Line 1: Evaluation of the incidence of invasive disease caused by group A Streptococcus over an 11-year period in the Autonomous Community of Madrid. Leader: Jesús Saavedra.
- ▶ Line 2: Epidemiological, clinical, and analytical characteristics and outcome of children with invasive disease caused by group A Streptococcus. Leader: Jesús Saavedra.
- ▶ Line 3: Study of factors predicting severity in children with invasive disease caused by group A Streptococcus. Leader: Jesús Saavedra.
- ▶ Line 4: Study of factors predicting severity and sequelae in children with bone and joint infections. Leader: Jesús Saavedra.

### Axis 6: Fever and neutropenia in the pediatric patient

- ▶ Line 1: Clinical characteristics, laboratory data, and outcome in children admitted with fever and neutropenia. Leader: Jesús Saavedra.
- ▶ Line 2: Epidemiological characteristics and etiologic agents in children admitted with fever and neutropenia. Leader: Jesús Saavedra.
- ▶ Line 3: Study of predictors of severity in children admitted with fever and neutropenia. Cytokine profile and proinflammatory response. Leader: Jesús Saavedra.

### Axis 7: Infections in the patient with sickle cell disease

- ▶ Line 1: Retrospective Study (RETRO-DREP): a) Determine the incidence and epidemiological characteristics of infections in children with sickle cell disease in our setting. b) Determine the clinical characteristics and analytical parameters associated with a greater risk of presenting severe bacterial infection. c) Establish criteria for low risk of severe bacterial infection in order to select patients who could benefit from a more conservative approach. Leaders: Elena Rincón and M<sup>a</sup> Luisa Navarro.
- ▶ Line 2: Prospective Study (F-DREP): a) Determine the incidence of viral infections in children with sickle cell disease admitted with fever in our setting using multiplex PCR with nasopharyngeal exudate. b) Determine the profile of proinflammatory cytokine production in children with sickle cell disease according to the final diagnosis (viral or bacterial infection,

vaso-occlusive crisis, other) and compare it with baseline production and c) Validate the criteria for low risk of severe bacterial infection proposed in the retrospective study. Leaders: Elena Rincón and M<sup>a</sup> Luisa Navarro.

- ▶ Line 3: Study of biomarkers of risk of severe bacterial infection in children with sickle cell disease and fever. Determination of the profile of pro-inflammatory cytokines and the role of multiple PCR for respiratory viruses. Leader: Elena.

### Axis 8: Immunoprophylaxis in special populations

- ▶ Line 1: Vaccination in the patient undergoing immunosuppressive treatment. Leader: M<sup>a</sup> Luisa Navarro
- ▶ Line 2: Vaccination in patients undergoing TPH (hematopoietic progenitor transplantation). Leader: M<sup>a</sup> Luisa Navarro
- ▶ Line 3: Vaccination in patients undergoing TOS (solid organ transplantation). Leader: M<sup>a</sup> Luisa Navarro

### Axis 9: Research plan in other prevalent infectious pathologies in healthy population and in the patient of high complexity

- ▶ Line 1: Study of invasive pneumococcal infection. Leaders: Felipe González y Teresa Hernández Sampelayo.
- ▶ Line 2: Role of viral respiratory co-infections and expression of transcriptional genomic profiles in the severity of pertussis in infants. Leader: Jesús Ruiz.
- ▶ Line 3: Congenital CMV infection. Leader: Jesús Saavedra and Mar Santos.
- ▶ Line 4: ZIKA Infection Network in Pregnancy and Newborns. Leaders: Mar Santos, Begoña Santiago and Marisa Navarro.
- ▶ Line 5: Pediatric Antifungal Optimization Program (POPA). Leaders: Teresa Hernández-Sampelayo and Begoña Santiago.
- ▶ Line 6: Kawasaki National Network (Kawa-RACE). Leaders: Mar Santos and Marisa Navarro.
- ▶ Line 7: Nosocomial infection control and restriction of the use of antibiotics in Pediatrics. RANNIN-KIDS. Leaders: Jesús Saavedra and David Aguilera.

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### Research lines (*cont.*)

- ▶ Line 8: Non-tuberculous mycobacterial infections (NTM) in Spain: clinical-epidemiological, microbiological and pathogenicity study. Leaders: Teresa Hernández-Sampelayo and Elena Rincón.
- ▶ Line 9: Infections after cardiac surgery. Leader: Jesús Saavedra.

#### Other lines

- ▶ Line 1: Zero pain in pediatric patients. Leaders: Blanca Toledo and Rosa Rodríguez.
- ▶ Line 2: Analysis of readmissions in pediatric patients. Leaders: Jimena Pérez and Rosa Rodríguez.
- ▶ Line 3: Factors of severity in asthma. Asthma and obesity. Leaders: Jimena Pérez and Rosa Rodríguez.
- ▶ Line 4: Implementation of a pediatric telemedicine service in Lamu (Kenya) and Meki (Ethiopia). Leader: Rosa Rodríguez.



The infection research group in the pediatric population participates in the IISGM since its creation and is consolidated within it. The group is made up of professionals in the health area who have extensive experience in clinical and translational research.

The main lines of research are:

- Bronchiolitis
- HIV infection
- Tuberculosis
- Osteoarticular infection
- Invasive Streptococcus group A infection
- Fever and neutropenia in pediatric patient
- Infections in the patient with sickle cell disease
- Research in the prevention of infections in the complex pediatric patient
- Congenital infections
- Invasive fungal infection.

In addition, we are very aware of the training in the field of pediatric infectology of junior researchers who are joining, where they play an important role in research and many of them end up carrying out translational research activity and culminating in doctoral thesis.

It highlights networking and collaborations with other national and international research groups. In addition, the group has a cooperation commitment by training professionals from Africa and Latin America, who support their clinical and translational research activity in person and through telemedicine and other information techniques.



## Group members

- **Aguilera Alonso, David:** R1. First Stage Researcher n/a.
- **Carrasco García, Itziar:** R1. First Stage Researcher.
- **Dueñas Moreno, Eva:** R1. First Stage Researcher.
- **González Martínez, Felipe:** R2. Recognised Researcher.
- **González Sánchez, M<sup>a</sup> Isabel:** R1. First Stage Researcher.
- **Hernández Bartolomé, Ángel:** R2. Recognised Researcher n/a.
- **Hernández-Sampelayo Mato, Teresa:** R3. Established Researcher.
- **Hernanz Lobo, Alicia:** R1. First Stage Researcher.
- **Jiménez de Ory, Santiago:** R2. Recognised Researcher.
- **Navarro Gómez, M<sup>a</sup> Luisa:** R4. Leading Researcher.
- **Moure Romano, Roberto:** Other. Nursing.
- **Pérez Moreno, Jimena:** R2. Recognised Researcher.
- **Retamal Martínez, Rocío:** Other. Nursing.
- **Rincón López, Elena:** R1. First Stage Researcher.
- **Rodríguez Fernández, Rosa M<sup>a</sup>:** R3. Established Researcher.
- **Saavedra Lozano, Jesús:** R3. Established Researcher.
- **Santiago García, Begoña:** R3. Established Researcher.
- **Santos Sebastián, Mar:** R1. First Stage Researcher.
- **Toledo del Castillo, Blanca:** R1. First Stage Researcher.

## Research Projects – Competitive Calls

- Title: **Utilidad de nuevos biomarcadores en sangre para el diagnóstico de la tuberculosis pediátrica.** PI17/00711  
Director: Santiago García, Begoña
- Title: **Anticuerpos frente a las proteínas G, PreF y PostF del virus respiratorio sincitial (VRS) en lactantes y respuesta inmune sistémica. Implicaciones para el desarrollo de vacunas.** PI16/00822  
Director: Rodríguez Fernández, Rosa María  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Juan Rodés contract** JR16/00036  
Director: Santiago García, Begoña  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Río Hortega contract** CM18/00100  
Director: Aguilera Alonso, David  
Project type: Human resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Young employment contract: Research.** PEJ-2017-AI/BMD-7405  
Director: Saavedra Lozano, Jesús  
Project type: Human resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 13/12/2019



## 5.07. INFECTIONS IN PEDIATRIC PATIENTS

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
RETICS	Red de Investigación en SIDA	Associated group
Others (Scientific Societies Networks)	Red pediátrica para la prevención, diagnóstico precoz y tratamiento del VIH en niños	Coordinator group
Others (Scientific Societies Networks)	Pediatric Tuberculosis Network European Trialsgroup	Coordinator group
Others (Scientific Societies Networks)	Red Española de Estudio de la Tuberculosis pediátrica	Coordinator group
Others (Scientific Societies Networks)	Grupo de Estudio EREMITA (Estudio de Tuberculosis Resistente en Niños de la Comunidad de Madrid)	Coordinator group
Others (Scientific Societies Networks)	Estudio de la influencia genética en la infección grave en pediatría	Coordinator group
Others (Scientific Societies Networks)	RED de Infección Congénita por CMV	Coordinator group
Others (Scientific Societies Networks)	Pediatric European Network Treatment on AIDS	Coordinator group
Others (Scientific Societies Networks)	Estudio de la Infección Meningocócica	Coordinator group
Others (Scientific Societies Networks)	Pediatric infections Staphylococcus aureus meticilin resistance ESPID	Coordinator group
Others (Scientific Societies Networks)	Estudio de los aspectos neurocognitivos en la Cohorte de infección VIH Pediátrica	Coordinator group
Others (Scientific Societies Networks)	Red para el estudio de la enfermedad invasiva por SGA	Coordinator group

Type (RETIC, CIBER, others)	Name of Network	Role
Others (Scientific Societies Networks)	Red Nacional para el Estudio de la infección osteoarticular	Coordinator group
Others (Scientific Societies Networks)	Estudio Multicéntrico retrospectivo y prospectivo de los factores epidemiológicos clínicos, analíticos y microbiológicos determinantes de la respuesta al tratamiento de la enfermedad de Kawasaki y el riesgo del desarrollo de aneurismas coronarios en niños menores de 14 años de nuestro medio	Coordinator group
Others (Scientific Societies Networks)	Red europea de ZIKA	Coordinator group
Others (Scientific Societies Networks)	Red de Giardiasis pediátrica Nacional	Coordinator group
Others (Scientific Societies Networks)	Grupo de infecciones en drepanocitosis	Associated group
Others (Scientific Societies Networks)	Red de Investigación Traslacional en Infecciones Pediátricas	Associated group
Others (Scientific Societies Networks)	Red Nacional de estudio de Infección congénita por CMV	Associated group
Others (Scientific Societies Networks)	Registro Nacional de casos de infección por ZIKA en el embarazo y recién nacido	Associated group
Others (Scientific Societies Networks)	Sickle cell disease Pediatric Research about INfections Group	Coordinator group



### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Julia Díaz Miravalls	Descripción de las neumonías adquiridas en la comunidad por <i>Staphylococcus aureus</i> en niños	David Aguilera Alonso	UCM	01/06/2019
	Jimena Pérez Moreno	Papel de las células T-reguladoras en la alergia a proteínas de leche de vaca no IgE mediada en la infancia		UCM	06/09/2019

### Clinical Practice Guidelines

Authors	Title	Journal/Reference
María Luisa Navarro Gómez. Panel de expertos de la Sociedad Española de Infectología Pediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS)	Documento de consenso sobre Tratamiento Antirretroviral en niños y adolescentes con infección por el virus de la inmunodeficiencia humana	<a href="https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitarios/GuiasTARpie24may2019.pdf">https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitarios/GuiasTARpie24may2019.pdf</a>
María Luisa Navarro Gómez. Panel de expertos de la Sociedad Española de Infectología Pediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS)	Guía de práctica clínica para el abordaje integral del adolescente con infección por el VIH	<a href="https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitarios/GuiaCompletaAdolescentes_30abril19.pdf">https://www.mscbs.gob.es/ciudadanos/enfLesiones/enfTransmisibles/sida/publicaciones/profSanitarios/GuiaCompletaAdolescentes_30abril19.pdf</a>
David Aguilera-Alonso, Jesús Saavedra-Lozano	Position Statement of the Spanish Association of Paediatrics-Spanish Society of Paediatric Infectious Diseases (AEP-SEIP) on the Treatment of Multidrug-Resistant Bacterial Infections	
Jesús Saavedra. Panel de expertos de la Sociedad Española de Infectología Pediátrica (SEIP) y del Plan Nacional sobre el SIDA (PNS)	Documento de consenso sobre Tratamiento Antirretroviral en niños y adolescentes con infección por el virus de la inmunodeficiencia humana	



## 5.07. INFECTIONS IN PEDIATRIC PATIENTS

Publications		Total Impact Factor: 105.3
	Nº	IF
Own publications	13	24.1
Joint publications	25	81.2
First decile publications	3	22.7
First quartile publications	8	44.7
Second quartile publications	14	36.4
Third quartile publications	12	18.2
Fourth quartile publications	4	6.0
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>41</b>	<b>105.3</b>

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

- Chan, MK; Goodall, R; Judd, A; Klein, N; Chiappini, E; Klimkait, T; Ngo-Giang-Huong, N; Palma, P; Rossi, P; Thorne, C; Turkova, A; Zangari, P; Rojo, P; Babiker, AGA; Fraaij, PL; Pajkrt, D; Marqués, L; Collins, IJ; Gibb, DM; González-Tome, MI; Ramos, JT; Navarro, ML; Noguera-Julián, A; Warszawski, J; Konigs, C; Spoulou, V; Prata, F; Goetghebuer, T; Galli, L; Naver, L; Giaquinto, C; Marczyńska, M; Okhonskaia, L; Malyuta, R; Volokha, A; Ene, L; Gibb, D; Watters, S; Chan, M; McCoy, L; Babiker, A; Marcelin, AG; Calvez, V; Muñoz, MA; Wahren, B; Foster, C; Cotton, M; Robb, M; Ananworanich, J; Claiden, P; Pillay, D; Persaud, D; De Boer, RJ; Schroter, J; Anelone, AJN; Puthanakit, T; Ceci, A; Giannuzzi, V; Luzuriaga, K; Chomont, N; Cameron, M; Cancrini, C; Yates, A; Kuhn, L; Violari, A; Otwombe, K; Pepponi, I; Rocchi, F; Rinaldi, S; Tagarro, A; Lain, MG; Vaz, P; López, E; Nhampossa, T; European Pregnancy Paediat HIV Coh; Early-Treated Perinatally. Predictors of faster virological suppression in early treated infants with perinatal HIV from Europe and Thailand The European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) and Early-treated Perinatally HIV-infected Individuals: Improving Chi. AIDS. 2019; 33(7) 1155-1165. FI: 4.511. Cuartil: 1. (Article).

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## 5.07. INFECTIONS IN PEDIATRIC PATIENTS

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- Publications of the main WOS collection in journals without impact factor:**
- Alcalde, MDI; Asenjo, LC; Rey, CC; Maranes, FGM; Gamero, DB; Lozano, JS; Gómez, MLN; Matos, THS; Sebastian, MS. Characteristics and Disease Course in a Cohort of Children With PFAPA Syndrome in the Community of Madrid, Spain. REUMATOLOGIA CLINICA. 2019; 15(6) 355-359. (Article).
- Other publications**
- Aguilera-Alonso, D; Ruiz, RL; Rubiano, JC; García, MM; García, IV; Mochon, MDO; Sanchis, EM. Epidemiological and clinical analysis of community-acquired Mycoplasma pneumonia in children from a Spanish population, 2010-2015. ANALES DE PEDIATRIA. 2019; 91(1) 21-29. FI: 1.313. Cuartil: 3. (Article).
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# AREA 6

*Area coordinator:*  
**Miguel Martín Jiménez**

## Traslational oncology

**T**he 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

## Translational 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

# 6.01. Interdisciplinary oncology and biotechnology

Group director: **FELIPE CALVO MANUEL**

Organisms involved: **HGUGM**

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:** Postdoctoral.
- **Álvarez González, Ana:** Predoctoral.
- **Álvarez Fernández, Emilio.**
- **Ayala Lázaro, Rafael:** Predoctoral.
- **Blanco Rodríguez, José:** Predoctoral.
- **Calín Lorca, Ana:** Predoctoral.
- **Calvo Manuel, Felipe Ángel:** Senior researcher.

- **Cuervo Dehesa, Miguel Ángel:** Predoctoral.
- **De Ingunza Barón, Lourdes.**
- **De Miguel Campos, Enrique.**
- **Del Valle Hernández, Emilio:** Predoctoral.
- **García Hernández, M<sup>a</sup> Jesús:** Predoctoral.
- **Gómez Espí, Marina:** Postdoctoral.
- **Gómez Cores, Susana:** Predoctoral.
- **González San Segundo, Carmen:** Postdoctoral.
- **López Bote, Miguel Ángel:** Predoctoral.
- **Lozano Barriuso, Miguel Ángel:** Predoctoral.
- **Mediavilla Santos, Lydia.**
- **Moreno Domene, Mercedes:** Predoctoral.
- **Muñoz Fernández, Mercedes.**
- **Ochandiano Caicoya, Santiago.**
- **Orcajo Rincón, Javier.**
- **Peligros Gómez, M<sup>a</sup> Isabel:** Postdoctoral.
- **Prieto Rodríguez, M<sup>o</sup> Jesús.**
- **Ramón Botella, Enrique.**
- **Rodríguez Martín, Marcos:** Predoctoral.
- **Rotger Regí, Amanda.**
- **Ruiz Galán, Gema.**
- **Serrano Andreu, Francisco Javier:** Postdoctoral.
- **Sierra Díaz, Fernando:** Predoctoral.
- **Sole Pesutic, Claudio Vicente:** Postdoctoral.
- **Tousidonis Rial, Manuel Alejandro.**



## 6.01. INTERDISCIPLINARY ONCOLOGY AND BIOTECHNOLOGY

### Cooperative Research Structures

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

### Publications

Total Impact Factor: 82.7

	Nº	IF
Own publications	4	29.2
Joint publications	15	53.5
First decile publications	3	45.6
First quartile publications	5	54.5
Second quartile publications	2	6.1
Third quartile publications	6	16.4
Fourth quartile publications	6	5.7
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>21</b>	<b>82.7</b>

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

- Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernández, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).
- Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernández, CH. Effectiveness of the "cognitive"

biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 228-233. FI: 0.873. Cuartil: 4. (Article).

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## 6.01. INTERDISCIPLINARY ONCOLOGY AND BIOTECHNOLOGY

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## 6.02. Translational medical oncology and personalized cancer therapy

Group director: **MIGUEL MARTÍN JIMÉNEZ**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

The generic objective of research in the Oncology Area is to generate reliable and scientifically relevant information on the individualized treatment of cancer, through translational research, which can allow the selection of antitumor treatment that provides more curative options and less sequelae to each patient. The therapy selection will be essentially based on the genetic / molecular profile of the patient and the tumor. The appropriate selection of cancer patients candidates for sophisticated antitumor therapies (target medical treatments, high definition radiotherapy, cell therapy, hemopoietic progenitor transplantation) available at our center, will allow the most suitable choice for each patient. In addition, the Area will study heir-familial cancer syndromes and other situations of high risk of cancer occurrence, in which various interventions can be very effective in reducing the likelihood of disease occurrence.

### Research lines

#### Axis 1: Scientific leadership, integration, and organization

- ▶ Line 1: Prognostic and predictive value of circulating tumor cells in breast cancer. Leader: Dr. Martín.
- ▶ Line 2: Value of liquid biopsy as a predictor of response in cancer patients. Leader: Dr. Martín

#### Axis 2: International relations, alliances, and visibility

- ▶ Line 1: Search for predictors of response to neoadjuvant chemotherapy with docetaxel carboplatin in patients with triple negative breast cancer. Leader: Dr. Martín

#### Axis 3: Consolidation of innovation

- ▶ Line 1: Genetic counseling. Leader: Dr. Márquez

#### Axis 4: Competitiveness (sustainability) and resources available for research.

- ▶ Line 1: Leader: Dr. Martín

#### Axis 5: Quality and management of research and innovation.

- ▶ Line 1: Immunotherapy for cancer. Leader: Dr. Martín.
- ▶ Line 2: Innovation in treatment of colorectal cancer. Leader: Dr. García Alfonso.
- ▶ Line 3: Innovation in treatment of stomach cancer. Leader: Dr. García Alfonso.
- ▶ Line 4: Innovation in treatment of lung cancer. Leader: Dr. Álvarez.
- ▶ Line 5: Innovation in treatment of genitourinary tumors. Leader: Dr. Arranz.
- ▶ Line 6: Innovation in systemic treatment of brain tumors. Leader: Dr. Márquez.
- ▶ Line 7: Innovation in systemic treatment of melanoma. Leader: Dr. Márquez.
- ▶ Line 8: Innovation in the diagnosis of patients with stage I-III breast cancer. Leader: Dr. Martín.
- ▶ Line 9: Leader: Dr. Martín.
- ▶ Line 10: Organoid development



### Group members

- **Aguado Orihuela, Gema:** R1. First Stage Researcher Physician Assistant.
- **Aguilar Caballero, Iker:** R1. First Stage Researcher. R5.
- **Alonso Martínez, Noelia:** Other. Research Unit.
- **Alva Bianchi, Manuel:** R1. First Stage Researcher. R4.
- **Álvarez Álvarez, Rosa M<sup>a</sup>:** R3. Established Researcher Section Chief.
- **Álvarez Castillo, Enrique Luis:** Other. Research Unit.
- **Aparicio Salcedo, Inmaculada:** R1. First Stage Researcher. R4.
- **Arias García, Ainhoa:** Other. Research Unit.
- **Arranz Arija, José Ángel:** R3. Established Researcher Section Chief.
- **Arregui Valles, Marta:** R1. First Stage Researcher. R4.
- **Ayllon García, Carolina:** Other. Nursing Research Unit.
- **Bernat Gómez, Rebeca:** Other. Research Unit.
- **Blanco Velilla, Alba:** Other. Research Unit.
- **Blanco Codesido, Montserrat:** R2. Recognised Researcher Physician Assistant.
- **Bringas Beranek, Marianela:** R1. First Stage Researcher Resident Doctor R2.
- **Bueno Zamora, Óscar:** R1. First Stage Researcher Physician Assistant.
- **Calles Blanco, Antonio:** R1. First Stage Researcher Physician Assistant.
- **Calvo Ferrándiz, Pilar Aitana:** R2. Recognised Researcher Physician Assistant.
- **Cantero Martín, Marta:** Other. Nursing care.
- **Cañete Gámez, M<sup>a</sup> Isabel:** Other. Research Unit.
- **Carpeño Martín-Caro, Laura:** Other. Research Unit.
- **Cebollero Presmanes, María:** R2. Recognised Researcher Physician Assistant.
- **Ciudad Babiano, Francisco:** Other. Nursing care.
- **De Tomás Palacios, Jorge:** R2. Recognised Researcher Physician Assistant.

- **Del Monte Millán, María:** Other. Research Unit.
- **Delgado Salas, Guadalupe:** Other. Nursing care.
- **Echavarría Díaz-Guardamino, Isabel:** R2. Recognised Researcher Physician Assistant.
- **Escobar Álvarez, Yolanda:** R1. First Stage Researcher Physician Assistant.
- **Esteban Arranz, Magdalena:** Other. Nursing. Research Unit.
- **Fernández González, Sara:** Other. Research Unit.
- **Flores Sánchez, Carmen:** Other. Nursing care.
- **Flórez Peñasco, Sandra:** Other. Research Unit.
- **Galera López, M<sup>a</sup> del Mar:** R1. First Stage Researcher. Physician Assistant.
- **Galindo Barreales, Fernando:** Other. Research Unit.
- **García Laborda, Elsa:** R1. First Stage Researcher Physician Assistant.
- **García Pardo de Santayana, Miguel Ángel:** R1. First Stage Researcher Resident Doctor. R5.
- **García Hidalgo, M<sup>a</sup> Elena:** Other. Nursing care.
- **García Maldonado, Ana:** Other. Research Unit.
- **García Alfonso, M<sup>a</sup> Pilar:** R3. Established Researcher Section Chief.
- **González Blázquez, M<sup>a</sup> Victoria:** Other. Nursing care Research Unit.
- **González del Val Subirats, Ricardo:** R2. Recognised Researcher Physician Assistant.
- **Gras Peral, Inmaculada Concepción:** Other. Nursing. Research Unit.
- **Gutiérrez Alonso, Natalia:** R1. First Stage Researcher Resident Doctor. R2.
- **Gutiérrez Ortiz de la Tabla, Ana:** R1. First Stage Researcher Resident Doctor. R2.
- **Herrero López, Blanca:** R1. First Stage Researcher Intensificated.
- **Ilas, Claudia Renata:** Other. Research Unit.
- **Iruela de Pedro, M<sup>a</sup> Encarnación:** Other. Nursing care.
- **Jerez Gilarranz, Yolanda:** R2. Recognised Researcher Physician Assistant.

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## Group members (cont.)

- **Jiménez Vicente, Mercedes:** Other. Nursing care.
- **Juliao Caamaño, David Salomón:** R1. First Stage Researcher Resident Doctor. R2.
- **Khorsavi Shahi, Parham:** R2. Recognised Researcher Physician Assistant.
- **Llorca Escrivá, Mireia:** Other. Research Unit.
- **Lobato Vidal, Nerea:** Other. Research Unit.
- **López Juárez, Estela:** Other. Research Unit.
- **López López, Cristina:** R1. First Stage Researcher Physician Assistant.
- **López Jiménez, Carlos:** R1. First Stage Researcher Resident Doctor. R1.
- **López-Tarruella Cobo, Sara:** R2. Recognised Researcher Physician Assistant.
- **Luque Molina, M<sup>a</sup> Soledad:** R2. Recognised Researcher Physician Assistant.
- **Márquez Lozano, Gloria:** Other. Research Unit.
- **Márquez Rodas, Iván:** R2. Recognised Researcher Physician Assistant.
- **Martín Alonso, Alhelies:** Other. Nursing care.
- **Martín Jiménez, Miguel:** R4. Leading Researcher Head of service.
- **Martínez Pérez, Mónica:** Other. Nursing care.
- **Martínez Delfrade, Íñigo:** R1. First Stage Researcher Resident Doctor. R5.
- **Massarrah Sánchez, Tatiana:** Other. Nursing. Research Unit.
- **Morón García, Blanca Isabel:** R1. First Stage Researcher Resident Doctor R3.
- **Muñana Villar, Alberto:** Other. Nursing care.
- **Muñoz Martín, Andrés:** R2. Recognised Researcher Physician Assistant.
- **Ocaña Torres, Inmaculada:** Other. Research Unit.
- **Olcoz Monreal, Francisco Javier:** R1. First Stage Researcher Physician Assistant.
- **Ortega Morán, Laura:** R1. First Stage Researcher Physician Assistant.

- **Palomero Plaza, M<sup>a</sup> Isabel:** R1. First Stage Researcher Physician Assistant.
- **Parra Hernández, Irene:** Other. Research Unit.
- **Pérez de la Fuente, Inés:** Other. Research Unit.
- **Pérez Montijano, Marta:** Other. Research Unit.
- **Pérez Ramírez, Sara:** R2. Recognised Researcher Physician Assistant.
- **Picornell Company, Antonio Climent:** Other. R2. Research Unit.
- **Puente Vázquez, Beatriz:** Other. Research Unit.
- **Ramos Medina, Rocío:** Other. R2. Research Unit.
- **Ranz Herranz, M<sup>a</sup> Isabel:** Other. Nursing Research Unit.
- **Reinoso Kuklinski, Silvia:** Other. Nursing care.
- **Rincón Olbés, Patricia:** R1. First Stage Researcher. Physician Assistant.
- **Rodríguez Villar, Cristina:** Other. Research Unit.
- **Romero Picazo, Paula:** Other. Research Unit.
- **Ruiz Bolaños, Ana Belén:** Other. Research Unit.
- **Sabín Domínguez, M<sup>a</sup> Pilar:** R2. Recognised Researcher Physician Assistant.
- **Sánchez Herrero, Rosa M<sup>a</sup>:** Other. Research Unit.
- **Sandoval García, Carmen:** R1. First Stage Researcher. Resident Doctor R5.
- **Soto Alsar, Javier:** R1. First Stage Researcher Resident Doctor R2.
- **Talegón García, María:** Other. Research Unit.
- **Tirado Anula, Victoria Clara:** R1. First Stage Researcher Resident Doctor R3.
- **Toro Carmena, M<sup>a</sup> de:** R1. First Stage Researcher Resident Doctor R3.
- **Torres Pérez-Solero, Gabriela:** R1. First Stage Researcher Physician Assistant.
- **Torvisco Najarro, José M<sup>a</sup>:** Other. Research Unit.
- **Vargas Sánchez, Aroa:** Other. Nursing care.
- **Villarejo López, Lucía:** Other. Research Unit.
- **Zazo León, M<sup>a</sup> Teresa:** Other. Nursing care.



### Research Projects – Competitive Calls

- Title:** Valor predictivo de la carga mutacional en tejido tumoral, plasma y CTCs en la respuesta a docetaxel-carboplatino neoadyuvante en pacientes con cáncer de mama triple negativo. PI18/01775  
 Director: Martín Jiménez, MIGUEL  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title:** Cáncer de mama triple negativo: predicción de respuesta a docetaxel-carboplatino neoadyuvante mediante caracterización de TILS y firmas inmunes basadas en secuenciación masiva de RNA. PI15/00117  
 Director: Martín Jiménez, MIGUEL  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 30/06/2020
- Title:** Células circulantes tumorales (ctcs) como predictor precoz de supervivencia y respuesta al tratamiento en pacientes con cáncer de páncreas localmente avanzado o metastásico después del primer ciclo de quimioterapia. SEOM17/01  
 Director: MUÑOZ MARTÍN, Andrés  
 Project type: Research project  
 Funding body: Fundación SEOM  
 Start date: 02/11/2017  
 End date: 01/11/2019

### Cooperative Research Structures

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

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Método para seleccionar, manipular y aislar células tumorales circulantes en líquidos corporales por transferencia asistida por láser	PCT/ES2018/070064	FIBHGM - UPM	Miguel Martín, María del Monte, Andrés Muñoz, Rocío Ramos, Javier Gayarre, Tatiana Massarrah, Carlos Molpeceres

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

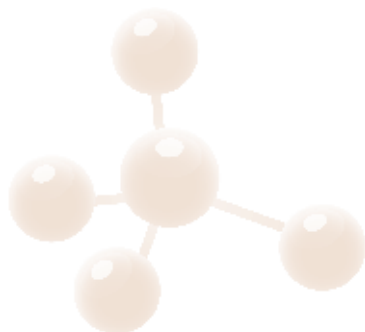
#### Intellectual property

Title	Reference	Owner	Inventors
SMART, application for cancer genetic counseling	Nº Asiento Registral: 16/2015/5724	FIBHGM, UNED, URJC	Iván Márquez, Juan Martínez Romo, Cristina Rodríguez, Susana Borromeo



## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Dominique Farge*, Corinne Frere*, Jean M Connors, Cihan Ay, Alok A Khorana, Andrés Muñoz, Benjamin Brenner, Ajay Kakkar, Hanadi Rafii, Susan Solymoss, Dialina Brillhante, Manuel Monreal, Henri Bounameaux, Ingrid Pabinger, James Douketis, and the International Initiative on Thrombosis and Cancer (ITAC) advisory panel	2019 International Clinical Practice Guidelines for the Treatment and Prophylaxis of Venous Thromboembolism in Patients With Cancer	Lancet Oncol 2019 Published Online September 3, 2019 <a href="http://dx.doi.org/10.1016/S1470-2045(19)30336-5">http://dx.doi.org/10.1016/S1470-2045(19)30336-5</a>
Press MF, Seoane JA, Curtis C, Quinaux E, Guzman R, Sauter G, Eiermann W, Mackey JR, Robert N, Pienkowski T, Crown J, Martin M, Valero V, Bee V, Ma Y, Villalobos I, Slamon DJ	Assessment of ERBB2/HER2 Status in HER2-Equivocal Breast Cancers by FISH and 2013/2014 ASCO-CAP Guidelines.	JAMA Oncol. 2019 Mar 1;5(3):366-375. doi: 10.1001/jamaoncol.2018.6012.
Chacón López Muñoz JI, Cruz Merino L de la, Gavilá Gregori, Martínez Dueñas E, Oliveira M, Seguí Palmer MA, Álvarez López I, Antolin Novoa S, Bellet Ezquerria M, López-Tarruella S	SEOM clinical guidelines in advanced and recurrent breast cancer (2018)	Clin Transl Oncol 21, 31–45 (2019). <a href="https://doi.org/10.1007/s12094-018-02010-w">https://doi.org/10.1007/s12094-018-02010-w</a>



## Publications

Total Impact Factor: 685.8

	Nº	IF
Own publications	16	84.4
Joint publications	50	601.4
First decile publications	19	506.4
First quartile publications	34	584.8
Second quartile publications	16	60.3
Third quartile publications	15	39.2
Fourth quartile publications	1	1.6
Nonindexed publications / No IF	8	-
<b>Total publications (including those without IF)</b>	<b>74</b>	<b>685.8</b>

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

- Domine, M; Massuti, B; Puente, J; Calles, A; Esteban, E; Triguboff, E; Afonso, YS; Girones, R; Aparisi, F; Oramas, J. Observational Prospective Study to Determine the Evolution of the Symptomatic Profile of Metastatic Non-Small Cell Lung Cancer (NSCLC) Patients and Its Relation to the Control of the Disease. ADVANCES IN THERAPY. 2019; 36(6) 1497-1508. FI: 3.871. Cuartil: 1. (Article).
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## 6.02. TRASLATIONAL MEDICAL ONCOLOGY AND PERSONALIZED CANCER THERAPY

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

Group directors: **JOSÉ LUIS DÍEZ MARTÍN** and **ISMAEL BUÑO BORDE**

Organisms involved: **HUGM - UCM**

Type: **Consolidated Group**

## Research lines

### Axis 1: Hematology-oncology in adults

- ▶ Line 1: Transplantation of hematopoietic progenitor cells.
  - 1.1. Transplantation of nonconventional hematopoietic progenitor cells (haploidentical, dual).
  - 1.2. Transplantation of hematopoietic progenitor cells in patients with AIDS.
  - 1.3. Cell therapy (mesenchymal, NK cells, etc.).
  - 1.4. Follow-up of transplantation of hematopoietic progenitors (genetics and flow cytometry).
  - 1.5. Biomarkers for prediction of post-transplant complications (genetic polymorphisms, proteins, etc.).
  - 1.6. Gene/cell therapy with CAR-T cells
- ▶ Line 2: Myeloid neoplasms: Acute myeloid leukemia and myelodysplastic syndrome.
  - 2.1. Treatment with next-generation drugs.
  - 2.2. Genomics of the tumor cell.
  - 2.3. In vitro drug resistance studies.
  - 2.4. Cytotoxicity studies with NK.
- ▶ Line 3: High-grade lymphomas.
  - 3.1. Liquid biopsy (free DNA in plasma) in high-grade lymphomas.
- ▶ Line 4: Chronic myeloid leukemia.
  - 4.1. Studies on discontinuation of tyrosine kinase inhibitors in chronic myeloid leukemia.

- ▶ Line 5: Genetics of hematologic neoplasms.
  - 5.1. Genetic markers for diagnosis, prognosis, and targeted treatment.
  - 5.2. Genomics of hematologic neoplasms: next-generation sequencing.
  - 5.3. Leukemogenesis models.
  - 5.4. Germ genomic alterations.
- ▶ Line 6: Clinical research (clinical trials).
  - 6.1. Molecular targets in the treatment of hematology-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.
- ▶ Line 7: Electronic management of clinical information.

### Axis 2: Pediatric hematology-oncology

- ▶ Line 1: 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 Pediatric Sickle Cell Patient.
- ▶ Line 2: Adjuvant therapy in pediatric hematology-oncology.
- ▶ Line 3: Fanconi anemia.
  - 3.1. Multidisciplinary follow-up in Fanconi's Anemia.
- ▶ Line 4: Solid tumors in children.
- ▶ Line 5: 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:** R1. First Stage Researcher.
- **Beléndez Bieler, Cristina:** R3. Established Researcher.
- **Béliz Mendiola, Cristina:** R1. First Stage Researcher.
- **Borrego Villegas, Laura:** Other.
- **Buño Borde, Ismael:** R4. Leading Researcher.
- **Carbonell Muñoz, Diego:** R1. First Stage Researcher.
- **Castro Labrador, Laura:** R1. First Stage Researcher.
- **Cela de Julián, Elena:** R3. Established Researcher.
- **Chicano Lavilla, María:** R2. Recognised Researcher.
- **Díez Martín, José Luis:** R4. Leading Researcher.
- **Dorado Herrero, Nieves:** R1. First Stage Researcher.
- **Encinas Rodríguez, Cristina:** R1. First Stage Researcher.
- **Font López, Patricia:** R1. First Stage Researcher.
- **García García, Ana M<sup>a</sup>:** Other.
- **García Morín, Marina:** R1. First Stage Researcher.
- **Garrido Colino, Carmen:** R3. Established Researcher.

- **Gómez Centurión, Ignacio.**
- **Hernández Martín, Marta M<sup>a</sup>:** Other. Clinical Trial Manager.
- **Huerta Aragonés, Jorge:** R1. First Stage Researcher.
- **Kwon Kim, Mi:** R3. Established Researcher.
- **Martínez Laperche, Carolina:** R3. Established Researcher.
- **Mata Fernández, Cristina:** R3. Established Researcher.
- **Medin de Block, Hilda Gabriela:** R1. First Stage Researcher.
- **Menárguez Palanca, Francisco Javier:** R3. Established Researcher.
- **Monsalvo Saornil, Silvia:** R1. First Stage Researcher.
- **Muñiz Sevilla, Paula:** R1. First Stage Researcher.
- **Muñoz Martínez, Cristina:** Other. Clinical Trial Manager.
- **Oarbeascoa Royuela, Guillén:** R1. First Stage Researcher.
- **Osorio Prendes, Santiago:** R2. Recognised Researcher.
- **Pascual Izquierdo, Cristina:** R2. Recognised Researcher.
- **Pérez Balseira, Gonzalo:** R1. First Stage Researcher.
- **Pérez Corral, Ana M<sup>a</sup>:** R2. Recognised Researcher.
- **Prieto Medina, María del Mar:** R1. First Stage Researcher.
- **Rubio Azpeitia, Eva:** R2. Recognised Researcher.
- **Suárez González, Julia:** R2. Recognised Researcher.
- **Zamarro Arranz, Rosario:** R1. First Stage Researcher.



## 6.03. GENETICS AND CLINICAL ASPECTS OF HEMATOLOGIC MALIGNANCIES AND HEMATOPOIETIC STEM CELL TRASPLANTATION

### Research Projects – Competitive Calls

- Title: Biomarcadores genómicos y transcriptómicos del sistema inmune para la elaboración de modelos de riesgo de desarrollo de complicaciones post-trasplante hematopoyético.** PI17/01880  
 Director: Buño Borde, Ismael  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2018  
 End date: 31/12/2020
- Title: Infusión post trasplante de células NK del donante, en pacientes con leucemia aguda de mal pronóstico sometidos a trasplante ha ploidéntico no manipulado.** PI15/00879  
 Director: Díez Martín, José Luis  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 30/11/2020
- Title: Bioinformatic contract** CA18/00040  
 Director: Castro Labrador, Laura  
 Project type: Human resources  
 Funding body: Fundación Española Hematología y Hemoterapia (F:E:H:H.)  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: Research Grant** FEHHDC-2018  
 Director: Carbonell Muñoz, Diego  
 Project type: Human resources  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2019  
 End date: 31/12/2019

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
Others (Internacional Consortium)	ICISTEM - International Collaboration to guide and investigate the potential for HIV cure by Stem Cell Transplantation	Collaborating group
CIBER	CIBERER (CIBER de Enfermedades Raras)	Collaborating group
CSUR (Centers, Services and Reference Units. Comunidad de Madrid)	CSUR de Eritropatología Hereditaria	Collaborating group

### Industrial and intellectual property registrations

#### Intellectual property

Title	Reference*	Owner	Inventors
alloGenomics	M 3600830	FIBHGM	Ismael Buño, Milagros González-Rivera, José Luis Díez-Martín, Carolina Martínez-Laperche Elena Buces, Jorge Gayoso, Mi Kwon, David Serrano, Pascual Balsalobre

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



Continued on next page

## Industrial and intellectual property registrations (cont.)

### Intellectual property

Title	Reference	Owner	Inventors
Herramienta informática para la Gestión Electrónica de la Agenda de Trasplante 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 Buces, David Serrano, Pascual Balsalobre, Mi Kwon

## Clinical Practice Guidelines

Authors	Title	Journal/Reference
Marina García Morín	Guía de recomendaciones de la SEHOP para el tratamiento de la leucemia linfoblástica aguda o bifenotípica del lactante menor de un año	Sociedad Española de Hematología y Oncología Pediátricas

## Publications

Total Impact Factor: 102.4

	Nº	IF
Own publications	11	31.6
Joint publications	21	70.8
First decile publications	3	18.4
First quartile publications	10	51.8
Second quartile publications	8	28.1
Third quartile publications	4	7.0
Fourth quartile publications	10	15.4
Nonindexed publications / No IF	4	-
<b>Total publications (including those without IF)</b>	<b>36</b>	<b>102.4</b>

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

- Kwon, M; Bailen, R; Balsalobre, P; Jurado, M; Bermudez, A; Badiola, J; Esquirol, A; Miralles, P; López-Fernández, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solan, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Díez-Martín, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).
- Fernández-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodríguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Pérez-Lago, L; de Viedma, DG; Martín, JLD; Muñoz, P. A Case-Control Study of Real-Life Experience with Ceftolozane-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).
- Sahebi, F; Garderet, L; Kanate, AS; Eikema, DJ; Knelange, NS; Alvelo, OFD; Koc, Y; Blaise, D; Bashir, Q; Moraleda, JM; Dreger, P; Sánchez, JF; Ciurea, S; Schouten, H; Shah, NN; Verbeek, M; Rosler, W; Díez-Martín, JL; Schoenland, S;

## 6.03. GENETICS AND CLINICAL ASPECTS OF HEMATOLOGIC MALIGNANCIES AND HEMATOPOIETIC STEM CELL TRANSPLANTATION

- D'Souza, A; Kroger, N; Hari, P. Outcomes of Haploidentical Transplantation in Patients with Relapsed Multiple Myeloma: An EBMT/CIBMTR Report. *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*. 2019; 25(2) 335-342. FI: 3.853. Cuartil: 2. (Article).
- Raj, K; Eikema, DJ; McLornan, DP; Olavarria, E; Bloke, HJ; Bregante, S; Ciceri, F; Passweg, J; Ljungman, P; Schaap, N; Carlson, K; Zuckerman, T; de Wreede, LC; Volin, L; Koc, Y; Díez-Martín, JL; Brossart, P; Wolf, D; Blaise, D; Di Bartolomeo, P; Vitek, A; Robin, M; Yakoub-Agha, I; Chalandon, Y; Kroger, N. Family Mismatched Allogeneic Stem Cell Transplantation for Myelofibrosis: Report from the Chronic Malignancies Working Party of European Society for Blood and Marrow Transplantation. *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*. 2019; 25(3) 522-528. FI: 3.853. Cuartil: 2. (Article).
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#### ***Publications of the main WOS collection in journals without impact factor***

- Kwon, M; Bailen, R; Pascual-Cascon, MJ; Gallardo-Morillo, AI; Sola, AG; Balsalobre, P; Solan, L; Dorado, N; Muñoz, C; Serrano, D; Martínez-Laperche, C; Buno, I; Anguita, J; Díez-Martín, JL; Grp Espanol Trasplante Hematopoye. Posttransplant cyclophosphamide vs cyclosporin A and methotrexate as GVHD prophylaxis in matched sibling transplantation. *BLOOD ADVANCES*. 2019; 3(3) 360-369. (Article).
- Dreger, P; Sureda, A; Ahn, KW; Eapen, M; Litovich, C; Finel, H; Boumendil, A; Gopal, A; Herrera, AF; Schmid, C; Díez-Martín, JL; Fuchs, E; Bolanos-Meade, J; Goptu, M; Al Malki, MM; Castagna, L; Ciurea, SO; Dominiotto, A; Blaise, D;

Ciceri, F; Tischer, J; Corradini, P; Montoto, S; Robinson, S; Gulbas, Z; Hamadani, M. PTCy-based haploidentical vs matched related or unrelated donor reduced-intensity conditioning transplant for DLBCL. *BLOOD ADVANCES*. 2019; 3(21) 3351-3359. (Article).

- Colombatti, R; Cela, E; Elion, J; Lobitz, S. Editorial for Special Issue "Newborn Screening for Sickle Cell Disease and other Haemoglobinopathies". *INTERNATIONAL JOURNAL OF NEONATAL SCREENING*. 2019; 5(4) -. (Editorial Material).
- Daniel, Y; Elion, J; Allaf, B; Badens, C; Bouva, MJ; Brincat, I; Cela, E; Coppinger, C; de Montalembert, M; Gulbis, B; Henthorn, J; Ketelslegers, O; McMahon, C; Streetly, A; Colombatti, R; Lobitz, S. Newborn Screening for Sickle Cell Disease in Europe. *INTERNATIONAL JOURNAL OF NEONATAL SCREENING*. 2019; 5(1) -. (Review).



## 6.04. Surgical oncology

Group director: **LUIS GONZÁLEZ-BAYÓN**

Organisms involved: **HUGM**

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

- Gago Quiroga, Susana.
- González Bayón, Luis: R4. Senior researcher.
- Lozano Lominchar, Pablo.
- Palencia García, Natividad.
- Vásquez Jiménez, Wenceslao: R3. Postdoctoral.

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
Others	Peritoneal Surface Oncology Group International	Collaborating group
Others	Grupo Español de Cirugía Oncológica Peritoneal	Coordinator group

### Publications

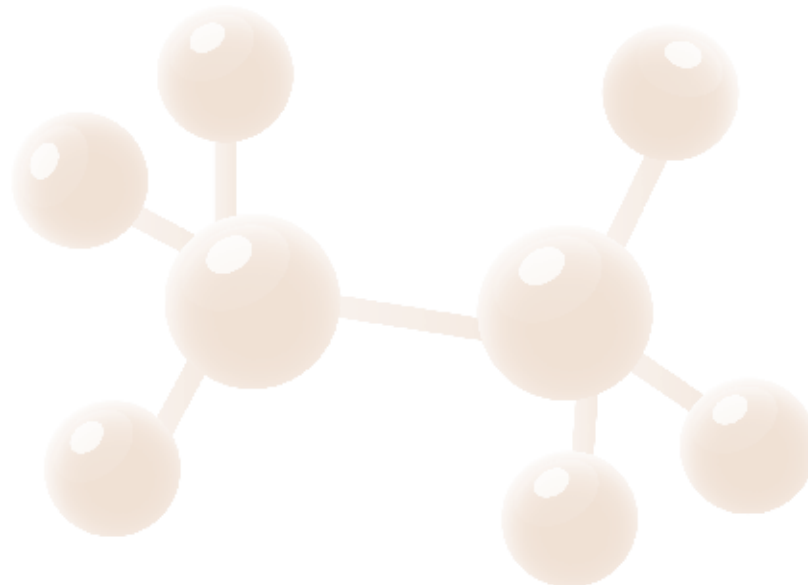
Total Impact Factor: 13.5

	Nº	IF
Own publications	1	0,8
Joint publications	2	12,7
First decile publications	1	10,1
First quartile publications	1	10,1
Second quartile publications	1	2,6
Third quartile publications	0	0,0
Fourth quartile publications	1	0,8
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>3</b>	<b>13.5</b>



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

- Kelly, ME; Glynn, R; Aalbers, AGJ; Alberda, W; Antoniou, A; Austin, KK; Beets, GL; Beynon, J; Bosman, SJ; Brunner, M; Buchler, MW; Burger, JWA; Campain, N; Christensen, HK; Codd, M; Coscia, M; Colquhoun, A; Daniels, I; Davies, RJ; de Wilt, JHW; Deutsch, C; Dietz, D; Eglinton, T; Fearnhead, N; Frizelle, FA; García-Sabrido, JL; George, M; Gentilini, L; Harris, DA; Harji, D; Herriot, AG; Hohenberger, W; Jenkins, JT; Kanemitsu, Y; Loen, CKK; Kim, H; Koh, CE; Kok, N; Kontovounisios, C; Kulu, Y; Law, WL; Laurberg, S; Le, GN; Lydrup, ML; Lynch, AC; Martling, A; Meijerink, J; Merkel, S; McDermott, FD; McGrath, J; Nielsen, MB; Nieuwenhuijzen, GAP; Nordling, MA; Northover, JMA; O'Connell, PR; Patsouras, D; Poggioli, G; Radwan, RW; Rasheed, S; Rasmussen, PC; Rutten, HJT; Sagar, PM; Schizas, A; Shida, D; Smart, N; Solomon, MJ; Stocchi, L; Tekkis, PP; Tsukamoto, S; Turner, W; Tuijnman, J; Ulrich, A; van Leeuwenhoek, A; van Ramshorst, GH; Vásquez-Jiménez, W; Verhoef, C; Versteegen, M; Wakeman, C; Warrier, S; Yip, J; Winter, DC; PelvEx Collaborative. Surgical and Survival Outcomes Following Pelvic Exenteration for Locally Advanced Primary Rectal Cancer Results From an International Collaboration. ANNALS OF SURGERY. 2019; 269(2) 315-321. FI: 10.13. Cuartil: 1. (Article).
- Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; López-Baena, JA; Laso, J; Hernández, I; Olmedilla, L; Sabrido, JLG; Peligros, I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The «Small-for-Flow» Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).
- Lozano, P; Orue-Echebarria, MI; Asencio, JM; Sharma, H; Lisbona, CJ; Olmedilla, L; Pena, JMP; Salcedo, MM; Skaro, A; Velasco, E; Colón, A; Díaz-Zorita, B; Rodríguez, L; Ferreiroa, J; López-Baena, JA. Donor Risk Index Has an Impact in Intraoperative Measure of Hepatic Artery Flow and in Clearance of Indocyanine Green: An Observational Cohort Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(1) 50-55. FI: 0.784. Cuartil: 4. (Article).





# AREA 7

Area coordinator:  
Rafael Bañares Cañizares

## Systemic Diseases and Organ Transplantation

The Area of Systemic Diseases comprises a broad spectrum of mainly clinical research groups. Its most fruitful research lines range from acute and chronic kidney failure to the biology of aging, covering fields such as the pathophysiology of liver and digestive diseases and abdominal organ transplantation. In addition, some of the groups in the Area participate in cooperative research structures funded by the ISCIII, such as the Centro de Investigación Biomédica en Red: Enfermedades Hepáticas y Digestivas (CIBEREHD [*Networked Center for Biomedical Research in Liver and Digestive Diseases*]) and have made a relevant contribution to the development and implementation of clinical practice guidelines or participate in and lead international cooperative academic projects, especially in South America. Similarly, some groups in the Area support European technology projects investigating home application of diagnostic tools and treatment for elderly patients.

The Area of Systemic Diseases is clearly heterogeneous, although several specific axes of activity can be defined.

The first is the clear increase in scientific output and its quality, with preference for emerging groups. The second involves promotion of translational research, by bringing research support platforms and services to clinical groups. Rapid solutions to research problems can only be found through a gradual process of addressing clinical issues in the laboratory. In the third axis, appropriate support and advice enable scaled application of researchers and groups for competitive funding calls, with the aim not only of obtaining financial support but also of addressing evaluations in an enriching competitive environment. Lastly, the Area aims to develop objectives in undergraduate and postgraduate training with the implementation of predoctoral programs in the various groups.





# Groups in AREA 7

## 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. Medical-surgical, physiological, and therapeutic aspects of respiratory diseases
- ▶ 7.06. Regenerative medicine in plastic surgery
- ▶ 7.07. Experimental kidney transplant
- ▶ 7.08. Pediatric endocrinology
- ▶ 7.10. Regeneration and biomaterials in musculoskeletal diseases
- ▶ 7.11. Iron metabolism disorders
- ▶ 7.12. Emergency medicine
- ▶ 7.16. Regenerative medicine and systems development: cardiovascular and osteochondral
- ▶ 7.18. Peritransplant evaluation of the liver
- ▶ 7.19. Perianesthesia assessment
- ▶ 7.20. Anesthesia, toxins, and arrhythmias
- ▶ 7.21. Biopathology of aging
- ▶ 7.22. Neonatal and developmental physiology
- ▶ 7.25. Artificial circulation laboratory
- ▶ 7.26. Evaluation of health services and clinical epidemiology
- ▶ 7.27. Hospital pharmacy and pharmacogenomics
- ▶ 7.28. Clinical nutrition
- ▶ 7.29. Pharmacology and vascular pathophysiology
- ▶ 7.31. Pathophysiology in women, pregnancy, labor, and puerperium
- ▶ 7.32. Physical medicine and rehabilitation

# 7.01. Inflammation and vascular damage in chronic kidney disease, dialysis, and kidney transplant. Renal pathophysiology

Group director: JOSÉ LUÑO FERNÁNDEZ

Organisms involved: HGUGM

Type: Consolidated Group

## Research lines

### Axis 1: Progression of chronic kidney disease

- ▶ L1: Aspirin in the progression of CV risk in patients with CKD. Leader: Dra. Goicoechea.
- ▶ L2: Lipoxins in patients with CKD treated with aspirin. Leaders: Dra. Goicoechea and Dra. Verdalles.
- ▶ L3: Reduction in uric acid levels in patients with CKD: progression of renal damage and CV risk. Leaders: Dra. Goicoechea, Dra. Aragoncillo, Dra. Pérez de José, Dra. Verdalles and Dr. Luño.
- ▶ L4: Blockade of RAS and disease progression in nondiabetic patients with CKD. Leader: Dra. Aragoncillo, Dr. Verde, Dra. Goicoechea.
- ▶ L5: Oral antidiabetics and progression of CKD.
- ▶ L6: Pentoxifylline and progression of CKD.
- ▶ L7: Atrial fibrillation and progression of CKD.

### Axis 2: Vascular access and dialysis complications

- ▶ L1: Physical activity and muscle development in maturation and maintenance of AV fistula for hemodialysis. Leaders: Dra. Aragoncillo, Dra. Abad and Dra. Vega.
- ▶ L2: Catheters Leaders: Dr. Verde, Dra. Abad and Dra. Vega.

### Axis 3: Morbidity, mortality, and cardiovascular risk in dialysis patients

- ▶ L1: Clearance of medium molecular weight uremic toxins bound to proteins: HFR
- ▶ L2: Prevention of sarcopenia in patients with advanced CKD and in dialysis. Leaders: Dra. Abad, Dra. Vega, Dra. Aragoncillo and Dr. Luño.

- ▶ L3: Cardiac arrhythmias and prognosis in patients with advanced CKD and in dialysis. Leaders: Dr. Verde, Dra. Abad and Dra. Vega.
- ▶ L4: MRI in dialysis patients. Evaluation of the cerebral effect of intra-dialysis hypotension episodes. Leaders: Dr. Cedeño, Dra. Abad, Dra. Vega, Dr. Macías and Dr. Luño.
- ▶ L5: Efficacy of CAPD in treatment of refractory heart failure. Leaders: Dra. Abad, Dra. Vega and Dr. Macías
- ▶ L6: Evaluation of convective transport and HF techniques online in the efficacy, tolerance, and long-term prognosis of patients with ESRD. Leaders: Dr. Macías, Dra. Vega and Dra. Abad.
- ▶ L7: Serum bank for CKD, dialysis, and kidney transplant. Leaders: Dra. Abad, Dra. Vega, Dr. Macías and Dr. Luño

### Axis 4: Acute kidney failure

- ▶ L1: Acute kidney failure and progressive renal damage. Leaders: Dr. Lázaro, Dr. Rodríguez Benítez and Dra. Melero.
- ▶ L2: Search for new therapeutic strategies in FRA. Leaders: Lázaro González-Nicolás González, González Guerrero, Pérez-Fernández.
- ▶ L3: FRA, Inflammation and Amplification of Organic Damage. Leaders: Lázaro González-Nicolás González, González-Guerrero, Pérez Fernández.
- ▶ L4: Kidney disorders related to pregnancy. Leaders: Rodríguez-Benitez, Melero.
- ▶ L5. Acute renal failure and metformin. Leaders: Melero, Rodríguez Benítez.
- ▶ L6. Venovenous hemofiltration techniques continue in acute renal failure. Leaders: Rodríguez-Benítez, Melero.

Continued on next page

## Research lines (cont.)

### Axis 5: Hypertension and chronic kidney disease

- ▶ L1: Refractory hypertension and prognosis in patients with CKD. Leaders: Dra. Verdalles, Dra. Pérez de José and Dr. Luño.

### Axis 6: Virus C and renal alterations

- ▶ L1: Treatment of hepatitis C in hemodialysis. Efficacy of various direct antiviral regimens. Leaders: Dra. Abad, Dra. Vega, Dra. Aragoncillo and Dr. Luño.
- ▶ L2: C virus and cryoglobulinemia. Leaders: Perez de Jose, Verdalles, Verde, Goicoechea.

### Axis 7: Morbidity, mortality, and cardiovascular risk in patients with CKD

- ▶ L1: CKD. Leaders: Abad, Bega, Macias, Luño.

### Axis 8: Usefulness of aferesis in the prevention and control of different pathologies

- ▶ L1: PCSK9 inhibitor (evolocumab) +/- apheresis in the treatment of severe hypercholesterolemia. Leaders: Dra. Goicoechea, Dr. Anaya and Dr. Luño.

### Axis 9: Kidney transplant

- ▶ L1: TR Specific Donor Antibodies. Leaders: Rodríguez Ferrero, Anaya.
- ▶ L2: Kidney Transplant Infections. Leaders: Sánchez-Cámara, Macias, Rodríguez-Ferrero, Rengel, Anaya.

Chronic kidney disease (CKD) is a major public health problem. A systematic review, based on population studies from developed countries, described an average prevalence of 7.2% (individuals over 30 years old).

According to data from the EPIRCE study, it affects approximately 10% of the Spanish adult population and more than 20% of those over 60 years of age, and furthermore, it is probably under-diagnosed. In patients followed in Primary Care with diseases as frequent as high blood pressure (HTA) or diabetes mellitus (DM), the prevalence of CKD can reach 35-40%. The magnitude of the problem is even greater considering the increase in morbimortality, especially cardiovascular, related to renal deterioration.

Developing a good level of prevention should be a priority objective at the level of national health systems to avoid this dramatic increase in CKD and its consequences. Our research group aims to contribute to improve the prevention, diagnosis and complications of acute and chronic renal failure with different and wide lines of research in all fields.

Since 2017 we are part of RedinRen as a research group. The Renal Research Network (REDINREN) is a Thematic Network of Cooperative Research (RETIC) funded by the Carlos III Institute of Health Research belonging to the Ministry of Health, Consumer Affairs and Social Welfare, which aims to shorten the distance between research, clinical care and citizens and is a reference in the field of nephrology. REDINREN represents the cooperation of the most outstanding basic, translational and clinical research groups in Spain committed to the health of patients with renal disease ([www.redinren.org](http://www.redinren.org)). We are also a member of the Consortium for Research on Acute Renal Failure of the Community of Madrid (CIFRA2-CM) whose objectives include development of new models of acute renal failure in which to study the development of new models of early diagnostic tools, prognostic biomarkers and new therapeutic approaches (<http://www.cifra2-cm.com/>)



### Group members

- Abad Estébanez, Soraya: R1.
- Anaya Fernández-Lomana, Fernando: R3.
- Aragoncillo Sauco, Inés: R1.
- Arroyo Rueda, David.
- Barraca Núñez, Daniel: R1.
- García Prieto, Ana María: R1.
- García de Vinuesa Rojas, Soledad: R3.
- Goicoechea Diezhandino, Marian: R3.
- González Guerrero, Cristian.
- González-Nicolás González, M<sup>a</sup> Ángeles: R1.
- Lázaro Fernández, Alberto: R3.
- López Gómez, Juan Manuel: R3.
- Luño Fernández, José: R4.
- Macías Carmona, Nicolás: R1.
- Melero Martín, Rosa: R1.
- Pérez de José, Ana M<sup>a</sup>: R2.
- Pérez Fernández, Verónica Astrid.
- Rengel Aranda, Manuel Antonio: R3.
- Rodríguez Benítez, Patrocinio: R1.
- Rodríguez Ferrero, M<sup>a</sup> Luisa: R1.
- Sánchez Cámara, Luis Alberto: R1.
- Tejedor Bravo, Marta: R1.
- Vega Martínez, M<sup>a</sup> Almudena: R2.
- Verdalles Guzmán, Úrsula: R2.
- Verde Moreno, Eduardo: R2.

### Research Projects – Competitive Calls

- 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: 31/12/2020
- Title: **Bloquear las balsas de colesterol del borde en cepillo del túbulo proximal previene el fallo renal inducido por nefropatías pigmentosas. paludismo y rabdomiolisis** SENEPRO18/01  
Director: Lázaro Fernández, Alberto  
Project type: Research project  
Funding body: Fundación Senefro  
Start date: 01/01/2019  
End date: 31/12/2020

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
RETICS	REDINREN	Collaborating group
Others (Scientific Societies Networks)	Consorcio para la Investigación del Fracaso Renal Agudo (CIFRA). Comunidad de Madrid	Collaborating group



## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Uso de la Cilastatina para reducir la nefrotoxicidad en distintos compuestos	PCT/ES2008/070137 (Familia con 22 patentes)	FIBHGM	Alberto Tejedor, Alberto Lázaro, Sonia Camaño, Ana Mª Torres, José Antonio Lázaro, Manuela Castilla, María del Carmen de Lucas
Método de diagnóstico de insuficiencia renal	P201131506	FIBHGM - Universidad de Alcalá de Henares - Fundació PUIGVERT	Ricardo Bosch, Arancha Ortega, Jordi Bover, Alberto Lázaro, Alberto Tejedor
Cilastatin for use in the treatment of sepsis	EP 16382299	FIBHGM	Alberto Tejedor, Alberto Lázaro, Blanca Humanes, Mª Ángeles González-Nicolás

■ Transferred patents.

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

## Clinical Practice Guidelines

Authors	Title	Journal/ Reference
Goicoeche, Verde, Luño	Guías de Práctica Clínica en el Manejo Terapéutico de las Enfermedades Glomerulares	Libro ISBN 978-84-1317-082-4, Editorial Circulo Rojo

## Publications

Total Impact Factor: 76.7

	Nº	IF
Own publications	8	20.1
Joint publications	16	56.6
First decile publications	3	20.4
First quartile publications	12	56.1
Second quartile publications	2	6.4
Third quartile publications	2	3.8
Fourth quartile publications	8	10.5
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>25</b>	<b>76.7</b>

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

- Ortega, A; Olea-Herrero, N; Arenas, MI; Velez-Velez, E; Moreno-Gómez-Toledano, R; Muñoz-Moreno, C; Lázaro, A; Esbrit, P; Tejedor, A; Bosch, RJ. Urinary excretion of parathyroid hormone-related protein correlates with renal function in control rats and rats with cisplatin nephrotoxicity. AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY. 2019; 317(4) 874-880. FI: 3.144. Cuartil: 2. (Article).
- Pérez-Saez, MJ; Covarrubias, OL; Hernández, D; Moreso, F; Melilli, E; de Sousa, E; López-Sánchez, P; Rodríguez-Ferrero, ML; Maruri-Kareaga, N;

## 7.01. INFLAMMATION AND VASCULAR DAMAGE IN CHRONIC KIDNEY DISEASE, DIALYSIS, AND KIDNEY TRANSPLANT. RENAL PATHOPHYSIOLOGY

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Domínguez, F; Pavia, PG; González, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martín-Dávila, P; Navas, E; Oliva, E; del Río, A; Ruiz, S; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; López-Cortés, LE; de Alarcón, A; García, E; Haro, JL; Lepe, JA; López, F; Luque, R; Alonso, LJ; Azcarate, P; Gutiérrez, JMA; Blanco, JR; Villegas, AC; García-Álvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Álvarez, M; Fernández, AL; Martínez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; López, AM; de Zarate, ZO; Matos, JAU; Gloria, GD; Antonio, SP; Leal, JMA; Vázquez, EG; Torres, AH; Blázquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodríguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Yanez, IK; Ballesta, AP; Escobar, EM; Monje, AP; Cabrera, VS; García, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Villoslada, A; Guallar, A; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sánchez, RJ; Almazán, AJ; Freire, AO; González, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martínez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Effect of the type of surgical indication on mortality in patients with infective endocarditis who are rejected for surgical intervention. INTERNATIONAL JOURNAL OF CARDIOLOGY. 2019; 282 24-30. FI: 3.229. Cuartil: 2. (Article).

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JM; Pérez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramírez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworu, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernández, MK; Martínez-Selles, M; Menarguez, MC; Muñoz, P; Rincón, C; Rodríguez-Abella, H; Rodríguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrrena, I; Loeches, B; Moreno, M; Ramírez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Fariñas-Álvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Díez, JG; Duran, RM; Pajarón, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; González, J; Orden, B; Ramos, A; González, ER; Centella, T; Hermida, JM; Moya, JL; Martín-Dávila, P; Oliva, E; del Río, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; García, E; Haro, JL; Lepe, JA; López, F; Luque, R; Alonso, LJ; Azcarate, P; Gutiérrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Álvarez, M; Fernández, AL; Martínez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; López, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sánchez-Porto, A; Vallejo, L; Leal, JMA; Vázquez, EG; Torres, AH; Blázquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodríguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JH; Escobar, EM; Monje, AP; Cabrera, VS; García, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of Tropheryma whipplei endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).

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## 7.01. INFLAMMATION AND VASCULAR DAMAGE IN CHRONIC KIDNEY DISEASE, DIALYSIS, AND KIDNEY TRANSPLANT. RENAL PATHOPHYSIOLOGY

- Macias, N; Abad, S; Aragoncillo, I; Hernández, A; Torres, E; Santos, A; Gómez, JML; Luno, J; Vega, A. Body composition influences the elimination of protein-bound uremic toxins in online hemodiafiltration. NEFROLOGIA. 2019; 39(2) 168-176. FI: 1.544. Cuartil: 4. (Article).
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  - Mencia, JA; Vega, A; Abad, S; Caro, CR; Verdalles, U; Gómez, JML. Influence of calcium concentration in haemodialysis fluid on blood pressure control. NEFROLOGIA. 2019; 39(2) 151-159. FI: 1.544. Cuartil: 4. (Article).
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  - Varas, J; Pérez-Saez, MJ; Ramos, R; Merello, JI; de Francisco, ALM; Luno, J; Praga, M; Aljama, P; Pascual, J; Canaud, B; Gauly, A; Maduell, F; Martín-Malo, A; Stuard, S; Zawada, A; Optimizing Results Dialysis ORD Gr. Returning to haemodialysis after kidney allograft failure: a survival study with propensity score matching. NEPHROLOGY DIALYSIS TRANSPLANTATION. 2019; 34(4) 667-672. FI: 4.531. Cuartil: 1. (Article).
  - Matesanz, CM; de la Gala, F; Rancan, L; Pineiro, P; Simón, C; Tejedor, A; Vara, E; González-Cantero, JL; Garutti, I. Predictive value of plasma cytokines for acute kidney injury following lung resection surgery: prospective observational study. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 242-252. FI: 0.867. Cuartil: 4. (Article).
  - Ramos-Vivas, J; Chapartegui-González, I; Fernández-Martínez, M; González-Rico, C; Fortun, J; Escudero, R; Marco, F; Linares, L; Montejo, M; Aranzamendi, M; Muñoz, P; Valerio, M; Aguado, JM; Resino, E; Ahufinger, IG; Vega, AP; Martínez, L; Fariñas, MC; San Millán, JCR; Rodrigo, E; Morencos, FC; Fábrega, E; Cuadrado, A; Fariñas-Álvarez, C; Gozalo, M; Revillas, FA; Dávila, PM; Martínez, A; Garbajosa, PR; Moreno, A; Bodro, M; Solano, MF; Blanco, MJ; Nieto, J; Machado, M; Olmedo, M; Fernández, SR; Sanz, CR; Rangel, TV; Bento, CA; Recalde, AG; Eworo, A; Fernández-Lomana, FA; Rodríguez-Ferrero, ML; Cámara, LAS; Chaves, F; Cisneros, JD; ENTHERE Study Grp; Spanish Soc Infect Dis Clin Microb; Spanish Network Res Infect Dis REI. Biofilm formation by multidrug resistant Enterobacteriaceae strains isolated from solid organ transplant recipients. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).
- Publications of the main WOS collection in journals without impact factor**
- Galeano-Valle, F; Díaz-Crespo, FJ; Melero-Martín, R; Apaza-Chavez, JE; Del-Toro-Cervera, J; Demelo-Rodríguez, P. Massive generalized crystal-storing histiocytosis associated with extracellular crystalline nephropathy: clinical, immunohistochemical, and ultrastructural studies of a unique disorder and review of the literature. CEN CASE REPORTS. 2019; 8(3) 166-172. (Review).

# 7.02. Pathophysiology and natural history of liver and digestive diseases

Group director: **RAFAEL BAÑARES CAÑIZARES**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

## Research lines

- ▶ L1: Complications of cirrhosis: natural history of liver cirrhosis.
- ▶ L2: Regulatory mechanisms of the permeability of the intestinal barrier and effect on intestinal homeostasis and on the pathogenesis of inflammatory bowel disease.
- ▶ L3: Liver transplant in the 21st century.
- ▶ L4: Role of intercellular communication through exosomes in liver diseases.

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, Adriana:** 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.
- **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 Lledó, Javier:** R1. First Stage Researcher.
- **García Martínez, Rita:** R2. Recognised Researcher.
- **Hernando Alonso, Ana Isabel:** R2. Recognised Researcher.

- **Ibáñez Samaniego, Luis:** R1. First Stage Researcher.
- **López Cauce, Beatriz:** R1. First Stage Researcher.
- **López Ibáñez, María:** R1. First Stage Researcher.
- **Marín Jiménez, Ignacio:** R1. First Stage Researcher.
- **Márquez Pérez, Laura:** R1. First Stage Researcher.
- **Martín Guerra, M<sup>a</sup> Rocío.**
- **Martínez Lozano, Helena:** R1. First Stage Researcher.
- **Martos Vizcaíno, Esperanza:** R1. First Stage Researcher.
- **Matilla Peña, Ana M<sup>a</sup>:** R2. Recognised Researcher.
- **Menchen Viso, Luis Alberto:** R3. Established Researcher.
- **Merino Rodríguez, Beatriz:** R1. First Stage Researcher.
- **Miranda Bautista, José:** R1. First Stage 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 Cristóbal, 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

- Title: Development of dialive, a novel Liver Dialysis Device for the treatment of patients with Acute on Chronic Liver Failure (ACLF).** H2020 ALIVER  
 Director: Bañares Cañizares, Rafael  
 Project type: European research project  
 Funding body: European Union  
 Start date: 01/01/2017  
 End date: 31/12/2020
- Title: The microbiome as a target for precision medicine. A frontier exploration from established to innovative indications.** PIE16/00055  
 Director: Fernández-Avilés Díaz, Francisco Jesús  
 Colaborator: Bañares Cañizares, Rafael  
 Project type: Integrated research project of excellence  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Caracterización de la función cardiaca en la cirrosis: Valor pronóstico e interrelación con la respuesta inflamatoria 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: 31/12/2021
- 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: 31/12/2021
- Title: Cultivo de enteroides derivados de intestino humano para su aplicación en el estudio de la fisiopatología de la barrera epitelial en la enfermedad inflamatoria intestinal.** PI16/02096  
 Director: Menchén VISO, Luis Alberto  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Papel de la deficiencia de la vitamina D en los eventos claves de la cirrosis hepática e impacto de su suplementación.** PI16/00920  
 Director: García Martínez, RITA  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Efectos de la hipotermia terapéutica en el fracaso hepático agudo (FHA) y en la regeneración hepática: Estudio preclínico en cerdos.** PI15/01083  
 Director: Vaquero Martín, Javier  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 30/11/2020
- Title: Desarrollo de terapias nutricionales para el tratamiento de colitis ulcerosa mediante el uso de formulaciones simbióticas.** RTC-2015-3584-1  
 Director: Menchén VISO, Luis Alberto  
 Project type: Research project  
 Funding body: Program RETOS. MICINN/MINECO  
 Start date: 23/01/2015  
 End date: 23/01/2019
- Title: Impacto de la erradicación del vhc sobre el riesgo cardiovascular tras el trasplante hepático.** FISMT17/01  
 Director: Salcedo Plaza, Magdalena  
 Project type: Research project  
 Funding body: Fundación General de Investigación de la Sociedad Madrileña de Transplante  
 Start date: 01/01/2018  
 End date: 31/12/2019



- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepática (EXOHEP-CM)**. S2017/BMD-3727  
Director: Bañares Cañizares, Rafael  
Project type: Research project  
Funding body: Consejería de Educación. Comunidad de Madrid  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Río Hortega Contract**. CM17/00255  
Director: Clemente Sánchez, Ana  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2021
- Title: **Río Hortega Contract**. CM19/00247  
Director: Caballero Marcos, Aránzazu  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/12/2019  
End date: 31/11/2021
- Title: **Incorporación Estable de Doctores. Programa I3**. IEDI-2016-00804  
Director: Vaquero Martín, Javier  
Project type: Human Resources  
Funding body: MINECO  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Young employment Contract :Laboratory Technician** PEJ-2018-TL/BMD-12024  
Director: Vaquero Martín, Javier  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/03/2019  
End date: 28/02/2021
- Title: **La microbiota en la historia natural de la enfermedad hepática y la hipertensión portal** PEJ2018-003826-A

Director: Bañares Cañizares, Rafael  
Project type: Human Resources  
Funding body: MICINN  
Start date: 01/01/2019  
End date: 31/12/2020

- Title: **Young employment Predoctoral Contract** PEJD-2018-PRE/BMD-8807  
Director: Vaquero Martín, Javier  
Project type: Human Resources  
Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
Start date: 01/01/2019  
End date: 31/12/2020

### Cooperative Research Structures

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

### Clinical Practice Guidelines

Authors	Title	Journal/ Reference
Bataller R, Cabezas J, Aller R, Ventura-Cots M, Abad J, Albillos A, Altamirano J, Arias-Loste MT, Bañares R, Caballería J, Caballería L, Carrión JA, Diago M, Fernández Rodríguez C, Gallego R, García-Cortes M, García-Monzón C, Genescà J, Ginés P, Hernandez-Guerra M, Jorquera F, Lligoña A, Molina E, Pareja MJ, Planas R, Tomé S, Salmerón J, Romero-Gómez M	Alcohol-related liver disease. Clinical practice guidelines. Consensus document sponsored by AEEH	Gastroenterol Hepatol. 2019 Dec;42(10):657-676.



**Publications**

Total Impact Factor: 337.5

	Nº	IF
Own publications	14	42.4
Joint publications	32	295.1
First decile publications	15	240.1
First quartile publications	22	277.9
Second quartile publications	12	40.7
Third quartile publications	2	4.0
Fourth quartile publications	10	14.9
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>49</b>	<b>337.5</b>

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

- Iavarone, M; Invernizzi, F; Czauderna, C; Sanduzzi-Zamparelli, M; Bhoori, S; Amadeo, G; Manini, MA; López, MF; Anders, M; Pinter, M; Rodríguez, MJB; Cristobal, MR; Soteras, GA; Pinero, F; Villadsen, GE; Weinmann, A; Crespo, G; Mazzaferro, V; Regnault, H; De Giorgio, M; González-Dieguez, ML; Donato, MF; Varela, M; Worns, MA; Bruix, J; Lampertico, P; Reig, M. Preliminary experience on safety of regorafenib after sorafenib failure in recurrent hepatocellular carcinoma after liver transplantation. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(11) 3176-3184. FI: 7.338. Cuartil: 1. (Article).
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- Fuster-RuizdeApodaca, MJ; Sánchez-Vega, N; Galindo, MJ; Marín-Jiménez, I; de Toro, J; Orozco-Beltran, D; Cotarelo, M; López, JC. The Influence of Patient Experience with Healthcare on the Health-Related Quality of Life of People Living with HIV: An Observational Cross-Sectional Survey. INFECTIOUS DISEASES AND THERAPY. 2019; 8(3) 369-382. (Article).
- Lominchar, PL; Orue-Echebarria, MI; Martín, L; Lisbona, CJ; Salcedo, MM; Olmedilla, L; Sharma, H; Asencio, JM; López-Baena, JA. Hepatic flow is an intraoperative predictor of early allograft dysfunction in whole-graft deceased donor liver transplantation: An observational cohort study. WORLD JOURNAL OF HEPATOLOGY. 2019; 11(9) 689-700. (Article).



## 7.04. Diseases of the critically ill child

Group director: JESÚS LÓPEZ-HERCE CID

Organisms involved: HGUGM

Type: Consolidated Group

### Research lines

#### Axis 1: Diseases of the critically ill child

- ▶ L1: Cardiorespiratory arrest and cardiopulmonary resuscitation in infancy. Leader: Jesús López-Herce Cid.
- ▶ L2: Treatment of acute kidney failure in the critically ill child. Leader: María José Santiago Lozano.
- ▶ L3: Hemodynamic monitoring, tissue perfusion, and treatment of shock. Leader: Javier Urbano Villaescusa.
- ▶ L4: Nutrition and digestive diseases in the critically ill child. Leader: Jesús López-Herce Cid.
  - L4.1: Enteral nutrition in the critically ill child. Leader: Javier Urbano Villaescusa.
  - L4.2: Digestive complications: constipation. Leader: Jorge López González.
  - L4.3: Digestive hemorrhage in the critically ill child. Leader: María José Solana García.
- ▶ L5: Monitoring of sedation and analgesia in the critically ill child. Leader: Santiago Mencía Bartolomé.
- ▶ L6: Respiratory care in the critically ill child. Leader: Jesús López-Herce Cid.
- ▶ L7: Advanced medical simulation. Leader: Santiago Mencía Bartolomé.

The Diseases of the Critically Ill Child research group of liSGM is formed by a team of pediatricians who care for and treat critically ill children.

The group develops experimental, academic, and clinical research lines with projects that bring together translational animal experimentation, clinical research, and application of the results in teaching.

The basic research lines are cardiorespiratory arrest and cardiopulmonary resuscitation, invasive and noninvasive hemodynamic monitoring, nutrition in the critically ill child, kidney failure, continuous renal replacement therapy, and monitoring of analgesia and sedation in critically ill children.

The group's basic objective is to collaborate with other pediatric groups and groups from specialized areas to perform multicenter studies.

The Pediatric Intensive Care research group of HGUGM is a member of the only pediatric research network funded by the Instituto Carlos III—Red de Salud Maternoinfantil y del Desarrollo (Red Samid [*Mother and Child and Developmental Health Network*])—and coordinates the Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPCI [*Latin American Network for the Study of Cardiorespiratory Arrest in Infancy*]).



### Group members

- **Bustinza Arriortúa, Amaya:** R1. First Stage Researcher.
- **Butragueño Laiseca, Laura:** R1. First Stage Researcher.
- **Cieza Asenjo, Raquel.**
- **Del Castillo Peral, Jimena:** R1. First Stage Researcher.
- **Fernández Lafever, Sarah Nicole:** R1. First Stage Researcher.
- **García San Prudencio, Míriam:** R1. First Stage Researcher.
- **González Cortés, Rafael:** R1. First Stage Researcher.
- **Herrera Castillo, Laura.**
- **López González, Jorge:** R1. First Stage Researcher.
- **López-Herce Cid, Jesús:** R4. Leading Researcher.
- **Manrique Martín, Gema:** R1. First Stage Researcher.
- **Mencia Bartolomé, Santiago:** R3. Established Researcher.
- **Sánchez Sánchez, César.**
- **Sánchez Galindo, Amelia:** R1. First Stage Researcher.
- **Santiago Lozano, M<sup>a</sup> José:** R3. Established Researcher.
- **Sanz Álvarez, Débora.**
- **Slocker Barrio, María:** R1. First Stage Researcher.
- **Solana García, M<sup>a</sup> José.**
- **Urbano Villaescusa, Javier:** R3. Established Researcher.

### Research Projects – Competitive Calls

- Title: **Estudio clínico y experimental de parada cardiaca y reanimación cardiopulmonar en pediatría.** PI18/01632  
Director: López-Herce Cid, Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2019  
End date: 31/12/2021
- Title: **Farmacocinética y farmacodinamia de los antibióticos en niños críticamente enfermos tratados con técnicas de depuración extrarenal continua.** PI17/00248
- Director: Santiago Lozano, María José  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020
- Title: **Efecto de la calidad de la reanimación cardiopulmonar en la supervivencia y estado neurológico de los niños que sufren una parada cardiaca.** PI16/00666  
Director: Mencia Bartolomé, Santiago  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019
- Title: **Efecto de la ventilación y el masaje cardíaco sobre la calidad de la reanimación cardiopulmonar: estudio experimental animal y en un modelo de simulación pediátrica.** PI15/00743  
Director: López-Herce Cid, Jesús  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2016  
End date: 31/12/2018
- Title: **Efectos de la resucitación mediante albúmina hipertónica o gela-fundina sobre los parámetros hemodinámicos, de perfusión tisular y de función renal en niños críticamente enfermos.** PI14/02046  
Director: Urbano Villaescusa, Javier  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2015  
End date: 30/06/2019
- Title: **Río Hortega Contract.** CM19/00203  
Director: Manrique Martín, Gema  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/12/2019  
End date: 31/11/2021



- Title: **Río Hortega Contract**. CM17/00210  
Director: García San Prudencio, Myriam  
Project type: Human Resources  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2021

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
RETICS	Red de salud Maternoinfantil y del Desarrollo III	Collaborating group
Others	Red de Salud Maternoinfantil y del Desarrollo (Red Samid [Mother and Child and Developmental Health Network])	Collaborating group
Other	Red Iberoamericana de estudio de la parada cardiorrespiratoria en la infancia (RIBEPCI [Latin American Network for the Study of Cardiorespiratory Arrest in Infancy]).	Collaborating group

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Dispositivo, sistema y procedimiento simulador para entrenamiento de profesionales sanitarios en el manejo de pacientes críticamente enfermos que precisen procedimientos de depuración extrarrenal venovenosa continua	P201330340	FIBHGM – SERGAS – Universidad de Santiago de Compostela	Jesús López-Herce, Santiago Mencia, Antonio Rodríguez

■ Transferred patents.

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

#### Intellectual property

Title	Reference	Owner	Inventors
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, Silvia Manrique Rodríguez

### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Jimena Pérez Moreno	Papel De Las Células T Reguladoras En La Alergia De Las Proteínas De La Leche De Vaca No Mediada Por IGE En La Infancia	César Sánchez Sánchez, Rafael Correa Rocha	UCM	06/09/2019

### Publications

Total Impact Factor: 66.1

	Nº	IF
Own publications	16	40.5
Joint publications	12	25.6
First decile publications	2	6.4
First quartile publications	11	31.7
Second quartile publications	4	11.2
Third quartile publications	11	19.9
Fourth quartile publications	2	3.2
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>30</b>	<b>66.1</b>

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

- Martínez, FG; Sánchez, MIG; del Castillo, BT; Moreno, JP; Muñoz, MM; Jiménez, CR; Fernández, RR. Treatment with high-flow oxygen therapy in asthma exacerbations in a paediatric hospital ward: Experience from 2012 to 2016. ANALES DE PEDIATRIA. 2019; 91(4) 228-236. FI: 1.313. Cuartil: 3. (Article).
- Tunas, MCA; Orive, FJP; Merino, ER; Cid, JLH; Martín, GM; Casas, PG; González, AH; Fraga, CR; Galán, CR; Rodríguez, MRR; Rastrollo, RH; Carrion, FF; Núñez, AR; MOMUCIP RETROSPECTIVE Working Grp. Modes of dying of children in Intensive Care Units in Spain: MOMUCIP study. ANALES DE PEDIATRIA. 2019; 90(2) 72-78. FI: 1.313. Cuartil: 3. (Article).
- Mayordomo-Colunga, J; Cortés, R; Bravo, MC; Mas, RM; Martínez, JLV; Valdovinos, LR; Conlon, TW; Nishisaki, A; Cabanas, F; Sustacha, JAB; Erroz, IO. Point-of-care ultrasound: Is it time to include it in the paediatric specialist training programme?. ANALES DE PEDIATRIA. 2019; 91(3) -. FI: 1.313. Cuartil: 3. (Article).
- Rodríguez-Rey, R; Palacios, A; Alonso-Tapia, J; Pérez, E; Álvarez, E; Coca, A; Mencia, S; Marcos, A; Mayordomo-Colunga, J; Fernández, F; Gómez, F; Cruz, J; Ordoñez, O; Llorente, A. Burnout and posttraumatic stress in paediatric critical care personnel: Prediction from resilience and coping styles. AUSTRALIAN CRITICAL CARE. 2019; 32(1) 46-53. FI: 2.214. Cuartil: 1. (Article).
- Smereka, J; Iskrzycki, L; Makomaska-Szaroszyk, E; Bielski, K; Frass, M; Robak, O; Ruetzler, K; Czekajlo, M; Rodríguez-Núñez, A; López-Herce, J; Szarpak, L. The effect of chest compression frequency on the quality of resuscitation by lifeguards. A prospective randomized crossover multicenter simulation trial. CARDIOLOGY JOURNAL. 2019; 26(6) 769-776. FI: 1.669. Cuartil: 3. (Article).
- González, R; Urbano, J; Solana, MJ; Hervias, M; Pita, A; Pérez, R; Álvarez, R; Teigell, E; Gil-Jaurena, JM; Zamorano, J; Sobrino, A; López-Herce, J. Microcirculatory Differences in Children With Congenital Heart Disease According to Cyanosis and Age. FRONTIERS IN PEDIATRICS. 2019; 7 -. FI: 2.634. Cuartil: 1. (Article).
- Vigil-Vázquez, S; Butragueño-Laiseca, L; López-González, J; García-San Prudencio, M; Rincón-López, E. A Case of Kawasaki Disease Presenting as Severe Myositis. INDIAN JOURNAL OF PEDIATRICS. 2019; 86(11) 1066-1067. FI: 1.508. Cuartil: 3. (Letter).
- Blázquez, ML; Hernani, MT; Calatayud, GA; González-Pinto, LC; Menchen, L; Jiménez, IM; García, BG; Calleja, AL; Sánchez, CS. Transition Care Program of Adolescents With Inflammatory Bowel Disease: Perceptions From A Survey for Patients. INFLAMMATORY BOWEL DISEASES. 2019; 25(3) 22-23. FI: 4.261. Cuartil: 2. (Letter).
- González R; López-Herce J. Mortality of patients with chronic disease: an increasing problem. JORNAL DE PEDIATRIA. 2019; 95(6) 625-627. FI: 2.029. Cuartil: 2. (Article).
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# 7.05B. Physiological and Therapeutic Medico-Surgical Aspects of Respiratory Diseases

Group directors: LUIS PUENTE MAESTU and IGNACIO GARUTTI

Organisms involved: HGUGM

Type: Consolidated Group

## Research lines

### Axis 1: Prevention of respiratory complications of chest surgery

- ▶ L1: Prevention of respiratory complications of thoracic surgery with prophylactic CPAP. Leader: Luis Puente Maestu.
- ▶ L2: Pharmacologic measures for the prevention of acute pulmonary lesions after lung resection surgery. Leader: Fco. Andrés de la Gala.
- ▶ L3: Optimization of one-lung ventilation. Leader: Ignacio Garutti.
- ▶ L4: Prevention of postoperative complications of mechanical ventilation in non-cardiothoracic surgery. Leader: Patricia Piñeiro.

### Axis 2: Epidemiology of respiratory diseases

- ▶ L1: Outcome of patients admitted with respiratory disease. Leader: Javier de Miguel.
- ▶ L2: Characterization of patients with multiple admissions. Leader: Javier de Miguel.
- ▶ L3: Phenotypic characterization of patients with asthma and COPD (ARES, CHACOS, EPOCONSUL, PAGE, NOVELTY and  $\gamma$  ENEAS studies). Leader: Luis Puente Maestu.

### Axis 3: Physiopathology and biology of exercise and skeletal muscle in COPD

- ▶ L1: Effects of pharmacological treatments for COPD and Asthma on aerobic capacity Regenerating and Non-Finalist Studies with GSK. Leader: Luis Puente Maestu.
- ▶ L2: Physical activity in COPD. Leader: Luis Puente Maestu.

### Axis 4: Bronchoscopy in the management and diagnosis of respiratory diseases

- ▶ L1: Prospective registry of bronchial thermoplasty. Leader: Luis Puente Maestu.

- ▶ L2: Bacteriological diagnosis of nosocomial pneumonia. Leader: Javier García López.
- ▶ L3: Cytologic diagnosis of lymphoma using flow cytometry. Leader: Javier García López.
- ▶ L4: Recording the efficacy and safety of endobronchial valves in the treatment of persistent air leak. Leader: Javier García López.

### Axis 5: Development of new pharmacological treatments

- ▶ L1: Clinical trials with the pharmaceutical industry for COPD. Leader: Luis Puente Maestu.
- ▶ L2: Clinical trials with the pharmaceutical industry for asthma. Leader: Luis Puente Maestu.
- ▶ L3: Clinical trials with the pharmaceutical industry for chronic cough. Leader: Luis Puente Maestu.

### Axis 6: Experimental lung transplant model

- ▶ L1: Organ preservation. Leader: Carlos Simón Adiego.

### Axis 7: Management of venous thromboembolic disease

- ▶ L1: Pulmonary embolism and comorbidity. Leader: Javier de Miguel.
- ▶ L2: Studies on adaptation of treatment to CPG. Leader: Javier de Miguel.

### Axis 8: Respiratory disease and sleep

- ▶ L1: Sleep disorders in persons aged >75 years. Leader: Soledad López Martín.
- ▶ L2: Optimization of the management of patients with obesity-hypoventilation with respiratory therapies. Leader: Daniel López Padilla.

### Axis 9: Neuroanatomy of the larynx

- ▶ L1: Anatomical variability of the larynx. Leader: M<sup>a</sup> Teresa Vázquez Osorio.
- ▶ L2: Laryngeal reinnervation. Leader: M<sup>a</sup> Teresa Vázquez Osorio.



It is a multidisciplinary group that includes anesthesiologists, thoracic surgeons, basic researchers and pulmonologists. Their different lines of research include the biology, physiopathology of the lung, airway and respiratory muscles as well as the effect of lung diseases on aerobic capacity and peripheral muscles. The group also has a vocation to develop and participate in clinical studies aimed at lung diseases and the prevention and management of perioratory complications.

## Group members

- **Benedetti, Paola Antonella:** R1. First Stage Researcher.
- **Casanova Barea, Javier.**
- **Cerezo Lajas, Alicia:** R2. Recognised Researcher.
- **Cruz Pardos, Patricia.**
- **De la Gala García, Francisco Andrés:** R3. Established Researcher.
- **De Miguel Díez, Javier:** R1. First Stage Researcher.
- **Fuentes Alonso, Marta:** R1. First Stage Researcher.
- **Gallardo Bermejo, María:** Other: Nursing.
- **García de Pedro, Julia:** R3. Established Researcher.
- **García García, M<sup>a</sup> Cruz.**
- **García López, José Javier:** R3. Established Researcher.
- **Garutti Martínez, Ignacio:** R4. Leading Researcher.
- **Girón Matute, Whalter Iván:** R2. Recognised Researcher.
- **González Casaurrán, Guillermo:** R1. First Stage Researcher.
- **González Moraga, Francisco José:** R1. First Stage Researcher.
- **González Sacristán, Ángela:** R1. First Stage Researcher.
- **Hernández Yáñez, Margarita:** Other: Nursing.
- **Huerta Martínez, Luis Javier:** R1. First Stage Researcher.
- **López Martín, Soledad:** R3. Established Researcher.
- **López Padilla, Daniel Edurdo:** R3. Established Researcher.

- **Ojeda Castillejo, Elena:** R2. Recognised Researcher.
- **Oliva Ramos, Alicia:** R1. First Stage Researcher.
- **Paredes Royano, Sergio.**
- **Pedraza Serrano, Fernando:** R1. First Stage Researcher.
- **Piñeiro Otero, Patricia.**
- **Puente Maestu, Luis:** R4. Leading Researcher.
- **Rancan, Lisa.**
- **Rojas Moreno-Tomé, Rosamaría:** Other: Nursing.
- **Sánchez Pedrosa, Guillermo.**
- **Sánchez Muñoz, Gema:** R2. Recognised Researcher.
- **Sanz Sanz, M<sup>a</sup> del Pilar:** R1. First Stage Researcher.
- **Sañudo Tejero, José Ramón.**
- **Simón Adiego, Carlos María:** R3. Established Researcher.
- **Solano Reina, Segismundo:** R3. Established Researcher.
- **Terán Tinedo Tinedo:** R2. Recognised Researcher.
- **Vara Ameigeiras, Elena.**
- **Vázquez Osorio, M<sup>a</sup> Teresa:** R3. Established Researcher.

**Research Projects – Competitive Calls**

- 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: 31/12/2021
- Title: **Reducción de complicaciones post-operatorias pulmonares mediante una estrategia ventilatoria perioperatoria de apertura pul-monar.** PI18/01611  
 Director: Piñeiro Otero, Patricia  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2019  
 End date: 31/12/2021
- Title: **Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos en riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas: Aportación del análisis genético (GENOBIA-CM)** S2017/BMD-3773  
 Director: Puente Maestu, Luis  
 Project type: Research project  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 31/12/2020

**Cooperative Research Structures**

Type (RETIC, CIBER, others)	Name of Network	Role
RETICS	REDISEC Red de investigación en enfermedades crónicas	Associated group
Others (Red de la Comunidad de Madrid)	GENOBIA Diseño mediante inteligencia artificial de algoritmos predictivos para la identificación de individuos con riesgo de desarrollar sobrepeso/obesidad y sus patologías asociadas. Aporte del análisis genético GENOBIA	Collaborating group Coordinating group (Network training activities)
Others	EPOCONSUL Spanish clinical audit on the medical care for COPD patients	Associated group
Others	CHACOS Study Group. Grupo de estudio para la caracterización del fenotipo mixto asma-epoc	Associated group
Others	SPANISH SLEEP NETWORK	Collaborating group
Others (Red privada financiada por Sanofi)	Registro informatizado de pacientes con enfermedad tromboembólica (RIETE)	Associated group

**Clinical Practice Guidelines**

Authors	Title	Journal/ Reference
Niven R, Aubier M, Bonta P, Puente-Maestu L, Facciolongo N, Ryan D	European Consensus Meeting/ Statement on Bronchial Thermoplasty Who? Where? Who?	Respir Med. 2019 Apr;150:161-164. doi: 10.1016/j.rmed.2019.02.020. Epub 2019 Mar 22. PubMed PMID: 30961945.



**Publications**

Total Impact Factor: 252.8

	Nº	IF
Own publications	25	83.3
Joint publications	22	169.5
First decile publications	5	105.0
First quartile publications	24	199.7
Second quartile publications	13	36.4
Third quartile publications	9	15.9
Fourth quartile publications	1	0.9
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>48</b>	<b>252.8</b>

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

- Garutti, I; Rancan, L; Abubakra, S; Simón, C; Paredes, SD; Ortega, J; Huerta, L; Ramos, S; Vara, E. Effects of Intraoperative Infusion of Esmolol on Systemic and Pulmonary Inflammation in a Porcine Experimental Model of Lung Resection Surgery. ANESTHESIA AND ANALGESIA. 2019; 128(1) 168-175. FI: 4.305. Cuartil: 1. (Article).
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- Puente-Maestu, L; Bermejo, MG; Giron-Matute, WI. Future Diagnostic Techniques in Pulmonology. A Change in Mindset. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 176-176. FI: 4.957. Cuartil: 1. (Letter).
- Cerezo Lajas A; Rodríguez Guzmán MDC; de Miguel Díez J. Hemoptysis Associated With Therapeutic Doses of Acenocoumarol. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(10) 507-508. FI: 4.957. Cuartil: 1. (Editorial Material).
- Lajas, AC; Guzman, MDR; Díez, JD. Left Bronchial Artery Aneurysm. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 492-493. FI: 4.957. Cuartil: 1. (Letter).
- de Granda-Orive JI; Pascual-Lledó JF; Asensio-Sánchez S; Solano-Reina S; García-Rueda M; Martínez-Muñiz MA; Lazaro-Asegurado L; Bujulbasich D; Pendino R; Luhning S; Cienfuegos-Agustin I; Jiménez-Ruiz CA. Is There an Association Between the Degree of Nicotine Dependence and the Motivation to Stop Smoking?. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(3) 139-145. FI: 4.957. Cuartil: 1. (Article).
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- Matabuena, M; Hayes, PR; Puente-Maestu, L. Prediction of Maximal Oxygen Uptake From Submaximal Exercise Testing in Chronic Respiratory Patients. New Perspectives. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(5) 229-230. FI: 4.957. Cuartil: 1. (Editorial Material).
- de Miguel-Díez, J; Martínez, AG; Martínez, CM. Perioperative and Periprocedural Management of Antithrombotic Therapy. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(6) 341-342. FI: 4.957. Cuartil: 1. (Article).
- Amado Diago CA; Puente Maestu L. Regarding the Translation and Validation of the Multidimensional Dyspnea Questionnaire-12. Authors' Response. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 457-458. FI: 4.957. Cuartil: 1. (Editorial Material).
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## 7.05B. PHYSIOLOGICAL AND THERAPEUTIC MEDICO-SURGICAL ASPECTS OF RESPIRATORY DISEASES

- Díez, JD; Lajas, AC; Maestu, LP. Differential Factors in Fume Fever. ARCHIVOS DE BRONCONEUMOLOGIA. 2019; 55(9) 451-452. FI: 4.957. Cuartil: 1. (Editorial Material).
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- de Miguel-Díez, J; Jiménez-García, R; de Andrés, AL; Arnaez, FZ. Effectiveness of an Intervention to Improve Management of COPD using the AUDIT Methodology: Results of the Neumo-Advance Study. CLINICAL DRUG INVESTIGATION. 2019; 39(7) 653-664. FI: 2.267. Cuartil: 3. (Article).
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## 7.05B. PHYSIOLOGICAL AND THERAPEUTIC MEDICO-SURGICAL ASPECTS OF RESPIRATORY DISEASES

JOURNAL OF CARDIOVASCULAR SURGERY. 2019; 60(3) 413-421. FI: 1.415. Cuartil: 3. (Article).

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  - de-Miguel-Díez, J; López-de-Andrés, A; Hernández-Barrera, V; De Miguel-Yanes, JM; Mendez-Bailon, M; Muñoz-Rivas, N; Jiménez-García, R. Trends, characteristics, in-hospital outcomes and mortality in surgical mitral valve replacement among patients with and without COPD in Spain (2001-2015). PLOS ONE. 2019; 14(8) -. Fl: 2.74. Cuartil: 2. (Article).
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  - de Granda-Orive, JI; Pascual-Lledó, JF; Asensio-Sánchez, S; Solano-Reina, S; García-Rueda, M; Martínez-Muñiz, MA; Lazaro-Asegurado, L; Bujulbasich, D; Pendino, R; Luhnig, S; Cienfuegos-Agustin, I; Jiménez-Ruiz, CA. Fagerstrom Test and Heaviness Smoking Index. Are they Interchangeable as a Dependence Test for Nicotine?. SUBSTANCE USE & MISUSE. 2019; 55(2) 200-208. Fl: 1.497. Cuartil: 3. (Article).
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  - De la Gala, F; Pineiro, P; Reyes, A; Simón, C; Vara, E; Rancan, L; Huerta, LJ; González, G; Benito, C; Muñoz, M; Grande, P; Paredes, SD; Aznar, PT; Pérez, A; Martínez, D; Higuero, F; Sanz, D; De Miguel, JP; Cruz, P; Olmedilla, L; Gil, EL; Duque, P; Sánchez-Pedrosa, G; Valle, M; Garutti, I. Effect of intraoperative paravertebral or intravenous lidocaine versus control during lung resection surgery on postoperative complications: A randomized controlled trial. TRIALS. 2019; 20(1) -. Fl: 1.883. Cuartil: 3. (Article).
- Publications of the main WOS collection in journals without impact factor:**
- Rancan, L; Paredes, SD; García, C; Asencio, JM; Garutti, I; Huerta, L; Maranon, G; Simón, C; Zueco, JA; Vara, E. A SURVEY STUDY EXPLORING OPINIONS OF SECOND-YEAR MEDICAL STUDENTS ON THEIR PARTICIPATION IN A FORMAL DEBATE WITH FLIPPED CLASSROOM ACTIVITY. INTED PROCEEDINGS. 2019; 7809-7812. (Proceedings Paper).

## 7.06. Regenerative medicine in plastic surgery

Group directors: ROSA PÉREZ CANO and JOSÉ MARÍA LASSO VÁZQUEZ

Organisms involved: HGUGM

Type: Emerging Group

### Research lines

#### P1: Regenerative medicine

- ▶ L1: Breast reconstruction with stem cells from adipose tissue.
- ▶ L2: Regeneration of peripheral nerves with stem cells.
- ▶ L3: Regeneration in other diseases.

#### P2: Gene therapy with viral delivery vehicles

- ▶ L1: VEGF in the axial nervous system.
- ▶ L2: Peripheral nervous system.
- ▶ L3: Vascular system.

#### P3: Hematopoietic chimerism methods

### Group members

- Arenas Domingo, Luis Javier: R1. First Stage Researcher.
- Cortina Acevedo, Edgar Alfonso: R1. First Stage Researcher.
- Lasso Vázquez, José M<sup>a</sup>: R4. Leading Researcher.
- Nava Pérez, Paola.
- Pérez Cano, Rosa: R4. Leading Researcher.

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Matriz artificial de gel de fibrina endotelizada superproductora de factores proangiogénicos	P200501182 (Familia con 5 patentes)	FIBHGM	José María Lasso, Paola Nava

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

### Publications

Total Impact Factor: 4.9

	Nº	IF
Own publications	2	3.3
Joint publications	1	1.6
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	1	2.0
Third quartile publications	2	3.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>4</b>	<b>4.9</b>

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

- Pascual, PM; Marañillo E; Vázquez T; de Blas, CS; Lasso JM; Sanudo JR. Extracranial Course of the Facial Nerve Revisited. ANATOMICAL RECORD-ADVANCES IN INTEGRATIVE ANATOMY AND EVOLUTIONARY BIOLOGY. 2019; 302(4) 599-608. FI: 1.634. Cuartil: 3. (Article).
- Lasso, JM; Deleyto la Cruz E; González-Pozega, C. Supermicrosurgical lymphovenous anastomosis. CIRUGIA ESPANOLA. 2019; 97(5) 291-291. FI: 1.323. Cuartil: 3. (Editorial Material).
- Lasso, JM; Marañillo, E; Martínez-pascual, P; Goni, E; Vázquez, T; Sanudo, J; Pascual-Font, A. Anatomical study of the masseteric and obturator nerves: Application to face transplant and reanimation procedures. CLINICAL ANATOMY. 2019; 32(5) 612-617. FI: 1.967. Cuartil: 2. (Article).



## 7.07. Experimental kidney transplant

Group director: ENRIQUE LLEDÓ GARCÍA / CARLOS HERNÁNDEZ FERNÁNDEZ

Organisms involved: HGUGM

Type: Emerging Group

### Research lines

- ▶ **Axis 1:** Reconstructive urogenital surgery: use of autologous tissue and grafts for the treatment of urethral stenosis and Peyronie disease. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández.
- ▶ **Axis 2:** Use of pulsatile hypothermic perfusion in non-heart beating donor grafts (Maastricht type 3) and ECDK transplantation. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández.
- ▶ **Axis 3:** Early recovery after laparoscopic surgery for the treatment of cancer of the lower urinary tract (cystectomy). Leaders: Dr. Hernández, Dr. Subira and Dr. Moralejo.
- ▶ **Axis 4:** Multifactorial teaching program in prosthetic surgery of the genitourinary tract. Leaders: Dr. Lledó, Dr. Jara and Dr. Hernández

### Group members

- **Escribano Patiño, Gregorio.**
- **Hernández Fernández, Carlos:** R4. Leading Researcher. I.
- **Herranz Amo, Felipe Bernardo:** R2. Recognised Researcher.
- **Jara Rascón, José:** R2. Recognised Researcher.
- **Lledó García, Enrique:** R4. Leading Researcher.
- **Ogaya Pinies, Gabriel.**
- **Subira Rios, David:** R1. Recognised Researcher.

### Publications

Total Impact Factor: 16.5

	Nº	IF
Own publications	13	11.3
Joint publications	2	5.1
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	3	7.4
Third quartile publications	0	0.0
Fourth quartile publications	12	9.0
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>16</b>	<b>16.5</b>

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

- Subira-Rios, D; Herranz-Amo, F; Moralejo-Garate, M; Cano-Velasco, J; Rendo-Villar, T; Barbas-Bernardos, G; Bueno-Chomon, G; Rodríguez-Fernández, E; Hernández-Fernández, C. Post-surgical complications in patients with bladder cancer treated with cystectomy: Differences between open and laparoscopic approach. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 228-233. FI: 0.873. Cuartil: 4. (Article).
- Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernández, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 241-247. FI: 0.873. Cuartil: 4. (Article).



- Barbas Bernardos G; Herranz Amo F; Cano Velasco J; Cancho Gil MJ; Mayor de Castro J; Aragón Chamizo J; Polanco Pujol L; Hernández Fernández C. Influence of venous tumour extension on local and remote recurrence of stage pT3a pN0 cM0 kidney tumours. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 91-98. FI: 0.873. Cuartil: 4. (Article).
  - Cano-Velasco J; Herranz-Amo F; Barbas-Bernardos G; Polanco-Pujol L; Hernández-Cavieres J; Lledó-García E; Hernández-Fernández C. Differences in overall survival and cancer-specific survival in high-risk prostate cancer patients according to the primary treatment. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 18-25. FI: 0.873. Cuartil: 4. (Article).
  - Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernández, CH. Effectiveness of the "cognitive" biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).
  - Cano-Velasco, J; Herranz-Amo, F; Barbas-Bernardos, G; Polanco-Pujol, L; Verdu-Tartajo, F; Lledó-García, E; Hernández-Fernández, C. Oncological control in high-risk prostate cancer after radical prostatectomy and salvage radiotherapy compared to radiotherapy plus primary hormone therapy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(4) 190-197. FI: 0.873. Cuartil: 4. (Article).
  - Subira-Rios D; Herranz-Amo F; Moralejo-Garate M; Cano-Velasco J; Renedo-Villar T; Barbas-Bernardos G; Bueno-Chomon G; Rodríguez-Fernández E; Hernández-Fernández C. Influence of the laparoscopic approach on cancer-specific mortality of patients with stage pt3-4 bladder cancer treated with cystectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 77-83. FI: 0.873. Cuartil: 4. (Article).
  - Cano-Velasco, J; Herranz-Amo, F; Barbas-Bernardos, G; Polanco-Pujol, L; Lledó-García, E; Hernández-Fernández, C. Incidence of second tumours in high risk prostate cancer patients according to the primary treatment applied. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(6) 305-313. FI: 0.873. Cuartil: 4. (Article).
  - Subira-Rios, D; Herranz-Amo, F; Renedo-Villar, T; Moralejo-Garate, M; del Pozo-Jiménez, G; Bueno-Chomon, G; Rodríguez-Fernández, E; Moncada-Iribarren, I; Hernández-Fernández, C. Influence of laparoscopic access in cancer-specific mortality of patients with pTa-2pNOR0 bladder cancer treated with radical cystectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(2) 71-76. FI: 0.873. Cuartil: 4. (Article).
  - Cano-Velasco, J; Herranz-Amo, F; Pujol, LP; Barbas-Bernardos, G; Morelajo-Garate, M; Subira-Rios, D; Hernández-Fernández, C. Port site and peritoneal metastasis following laparoscopic radical prostatectomy and salvage radiotherapy for prostate adenocarcinoma. ARCHIVOS ESPANOLAS DE UROLOGIA. 2019; 72(9) 974-977. FI: 0.395. Cuartil: 4. (Article).
  - Cano-Velasco, J; Herranz-Amo, F; Peligros-Gómez, I; Barbas-Bernardos, G; Sola-Vendrell, E; Hernández-Fernández, C. Mucin-producing urothelial type prostatic adenocarcinoma with signet ring cells and increased Ca 19.9 and CEA. Case report and literature review. ARCHIVOS ESPANOLAS DE UROLOGIA. 2019; 72(7) 647-652. FI: 0.395. Cuartil: 4. (Review).
  - Pujol, LP; García, EL; Velasco, JC; García, FJG; Rascon, JJ; Fernández, CH. Prostate cryotherapy: General principles. ARCHIVOS ESPANOLAS DE UROLOGIA. 2019; 72(8) 816-824. FI: 0.395. Cuartil: 4. (Article).
  - González, J; Angulo-Morales, FJ; Lledó-García, E. Vascular Injury During Urologic Surgery: Somebody Call My Mother. CURRENT UROLOGY REPORTS. 2019; 20(1) -. FI: 2.307. Cuartil: 2. (Article).
  - Krishnappa, P; Fernández-Pascual, E; Carballido, J; Moncada, I; Lledó-García, E; Martínez-Salamanca, JI. Surgical Management of Peyronie's Disease With Co-Existent Erectile Dysfunction. SEXUAL MEDICINE. 2019; 7(4) 361-370. FI: 1.923. Cuartil: 2. (Review).
  - Angulo, JC; Arance, I; Ojea, A; Carballo, M; Rodríguez, A; Pereira, J; Rebassa, M; Teyrouz, A; Escribano, G; Teba, F; Madurga, B; Martins, FE; Cruz, F. Patient satisfaction with adjustable transobturator male system in the Iberian multicenter study. WORLD JOURNAL OF UROLOGY. 2019; 37(10) 2189-2197. FI: 3.217. Cuartil: 2. (Article).
- Publications of the main WOS collection in journals without impact factor**
- Hevia V; Hassan Zakri R; Fraser Taylor C; Bruins HM; Boissier R; Lledó E; Regele H; Budde K; Figueiredo A; Breda A; Yuan CY; Olsburgh J. Effectiveness and Harms of Using Kidneys with Small Renal Tumors from Deceased or Living Donors as a Source of Renal Transplantation: A Systematic Review. EUROPEAN UROLOGY FOCUS. 2019; 5(3) 508-517. (Article).



## 7.08. Pediatric endocrinology

Group director: M<sup>a</sup> DOLORES RODRÍGUEZ ARNAO

Organisms involved: HGUGM

Type: Associated Group

### Research lines

- ▶ L1: Pediatric endocrinology. Hypothyroidism.
- ▶ L2: Gene therapy: polymorphisms and mutations.
- ▶ L3: Hormone therapy.

### Group members

- **Montero García, Virginia:** R1. First Stage Researcher. I.
- **Morillas Cantero, Isabel:** R1. First Stage Researcher. I.
- **Rodríguez Arnao, M<sup>a</sup> Dolores:** R4. Leading Researcher.
- **Rodríguez Sánchez, Amparo:** R1. First Stage Researcher. I.
- **Roldán Martín, Belén:** R1. First Stage Researcher. I.

### Publications

Total Impact Factor: 3.9

	Nº	IF
Own publications	2	3.9
Joint publications	0	0.0
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	0	0.0
Third quartile publications	2	3.9
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>2</b>	<b>3.9</b>

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

- Sánchez, AR; Guindulain, MJC; Merillas, MA; Segura, SA; Navarro, JCM; Arnao, MDR; Jaume, MC; Sancho, C; Bolado, GG; Calvo, MTM; Rodríguez, JMR; Molina, CT; Soc Espanola Endocrinologia Pediat. Diagnosis and follow-up of patients with congenital hypothyroidism detected by neonatal screening. ANALES DE PEDIATRIA. 2019; 90(4) -. FI: 1.313. Cuartil: 3. (Article).
- Arnao, MDR; Sánchez, AR; López, ID; Fernández, JR; de la Vega, JAB; Fernández, DY; Guindulain, MC; Collado, RC; Sánchez, JP; González, AF; ECOS Spain Study Collaborative Inv. Adherence and long-term outcomes of growth hormone therapy with easypod (TM) in pediatric subjects: Spanish ECOS study. ENDOCRINE CONNECTIONS. 2019; 8(9) 1240-1249. FI: 2.592. Cuartil: 3. (Article).





# 7.10. Regeneration and biomaterials in musculoskeletal diseases

Group director: FRANCISCO JAVIER VAQUERO MARTÍN

Organisms involved: HGUGM - UCM

Type: Associated Group

## Research lines

### Axis 1: Musculoskeletal transplant

- ▶ Line 1: Meniscus transplant. Leader: Prof. Vaquero.
- ▶ Line 2: Allogenic meniscus implants.

### Axis 2: Mesenchymal stromal cells

- ▶ Line 1: MSC infusion in hip necrosis. Leaders: Prof. Vaquero/Dr. Laguna.
- ▶ Line 2: Influence of mechanical factors on culture of MSC in the infrapatellar fat pad. Leader: Prof. Forriol.

### Axis 3: 3D printing

- ▶ Line 1: Tibial and femoral osteotomy with templates. Leader: Prof. Vaquero.
- ▶ Line 2: 3D printing and navigation in tumor culture. Leaders: Dr. Calvo/Dr. Pérez-Mañanes.

### Axis 4: Bone cement

- ▶ Line 1: Mechanical properties after the addition of antibiotics. Leader: Dr. Sanz.
- ▶ Line 2: Microencapsulation of antibiotics. Leader: Dr. Carbó.
- ▶ Line 3: Septic arthritis treated with antibiotic cement. Leader: Dr. Carbó.

### Axis 5: Cytokines and biomarkers in osteoarthritis

- ▶ Line 1: Comparison of biomarkers in arthrosis and ACL breaks. Leader: Dr. Guisasaola.

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.**
- **Calvo Haro, José Antonio:** R1. First Stage Researcher.
- **Carbo Laso, Esther:** R2. Recognised Researcher.
- **Chana Rodríguez, Francisco:** R2. Recognised Researcher.
- **Cuervas Mons, Manuel.**
- **Forriol Campos, Francisco:** R2. Recognised Researcher.
- **López Torres, Irene Isabel.**
- **Matas Díaz, José Antonio:** R1. First Stage Researcher.
- **Narbona Cárceles, Francisco Javier:** R2. Recognised Researcher.
- **Oteo Álvaro, Ángel:** R1. First Stage Researcher.
- **Pérez Mañanes, Rubén:** R3. Established Researcher.
- **Rojo Manaute, José Manuel:** R2. Recognised Researcher.
- **Sanz Ruiz, Pablo:** R2. Recognised Researcher.
- **Vaquero Martín, Javier:** R4. Leading Researcher.



### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
Plataformas ISCIII	Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS)	Coordinating group
CIBER	CIBERSAM. CIBER Salud Mental	Collaborating group

### Publications

Total Impact Factor: 17.8

	Nº	IF
Own publications	4	7.4
Joint publications	3	10.4
First decile publications	0	-
First quartile publications	2	9.5
Second quartile publications	3	6.4
Third quartile publications	0	0.0
Fourth quartile publications	2	1.9
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>10</b>	<b>17.8</b>

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

- Sobrón, FB; Benjumea, A; Alonso, MB; Parra, G; Pérez-Mananes, R; Vaquero, J. 3D Printing Surgical Guide for Talocalcaneal Coalition Resection: Technique Tip. FOOT & ANKLE INTERNATIONAL. 2019; 40(6) 727-732. FI: 2.292. Cuartil: 2. (Editorial Material).
- Cuervas-Mons, M; Sánchez-Pérez, C; Arnal-Burro, J; Vaquero-Martín, J; Chana-Rodríguez, F. Ultrasound-guided supra-acetabular pelvic external fixator (US-SA FIX). INJURY-INTERNATIONAL JOURNAL OF THE CARE OF THE INJURED. 2019; 50 24-29. FI: 2.106. Cuartil: 2. (Article).
- Bravo, B; Guisasaola, MC; Vaquero J; Tirado, I; Gortazar, AR; Forriol, F. Gene expression, protein profiling, and chemotactic activity of infrapatellar fat pad mesenchymal stem cells in pathologies of the knee joint. JOURNAL OF CELLULAR PHYSIOLOGY. 2019; 234(10) 18917-18927. FI: 5.546. Cuartil: 1. (Article).
- Villanueva, M; Iborra, A; Ruiz, MD; Sanz-Ruiz, P. Proximal Ultrasound-Guided Gastrocnemius Recession: A New Ultra-Minimally Invasive Surgical Technique. JOURNAL OF FOOT & ANKLE SURGERY. 2019; 58(5) 870-876. FI: 1.043. Cuartil: 4. (Article).
- Sanz-Ruiz P; Matas-Díez JA; Carbo-Laso E; Pérez-Mañanes R; Vaquero-Martín J. Patient-Specific Instrument Can Improve Functional and Radiographic Results during Learning Curve for Oxford Unicompartmental Knee Arthroplasty. JOURNAL OF KNEE SURGERY. 2019; 32(2) 180-185. FI: 1.986. Cuartil: 2. (Article).
- Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodríguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).
- García-Mato, D; Ochandiano, S; García-Sevilla, M; Navarro-Cuellar, C; Darriba-Alles, JV; García-Leal, R; Calvo-Haro, JA; Pérez-Mananes, R; Salmeron, JI; Pascau, J. Craniostylosis surgery: workflow based on virtual surgical

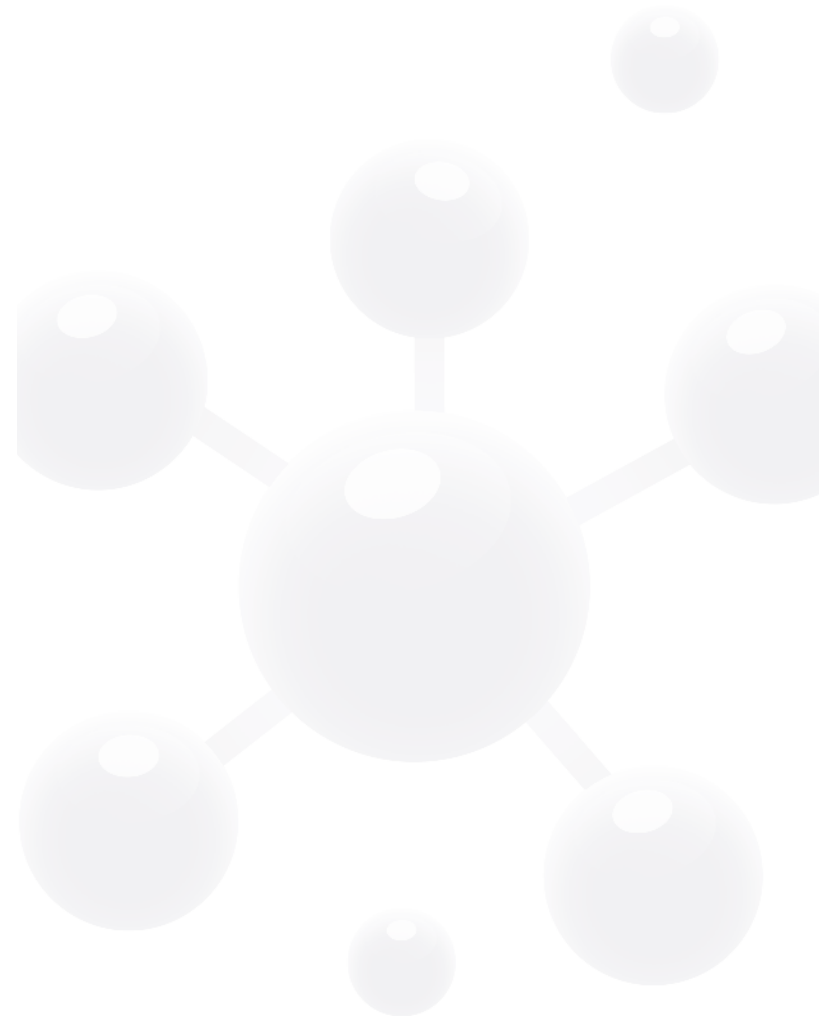
planning, intraoperative navigation and 3D printed patient-specific guides and templates. SCIENTIFIC REPORTS. 2019; 9 -. FI: 3.998. Cuartil: 1. (Article).

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

- Berberich, C; Sanz-Ruiz, P. Risk assessment of antibiotic resistance development by antibiotic-loaded bone cements: is it a clinical concern?. EFORT OPEN REVIEWS. 2019; 4(10) 576-584. (Article).

#### **Other publications**

- López-Torres II; Sanz-Ruiz P; León-Román VE; Navarro-García F; Priego-Sánchez R; Vaquero-Martín J. 3D printing in experimental orthopaedic surgery: do it yourself. EUROPEAN JOURNAL OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY. 2019; 29(5) 967-973. (Article).
- Sanz-Ruiz P; Matas-Díez JA; Calvo-Haro JA; Solans MC; Vaquero-Martín J. Biarticular total femoral spacer for complete bone loss in periprosthetic joint infection. A technical modification. REVISTA ESPANOLA DE CIRUGIA ORTOPEDICA Y TRAUMATOLOGIA. 2019; 63(3) 192-201. (Article).



# 7.11. Iron metabolism disorders

Group director: ROSA PERAITA ADRADOS

Organisms involved: HGUGM

Type: Associated Group

## Research lines

### Axis 1: Genotype

- ▶ L1: Hemochromatosis.
- ▶ L2: Hyperferritinemia.
- ▶ L3: Hereditary hyperferritinemia cataract syndrome.
- ▶ L4: Dysmetabolic iron overload syndrome.

### Axis 2: Phenotype

- ▶ L1: Determination of hormones involved: hepcidin and erythroferrone.
- ▶ L2: Imaging-based diagnosis of iron overload.
- ▶ L3: Iron deficiency and inflammatory anemia.

### Axis 3: Therapy

- ▶ L1: Deficiency: treatment with oral or intravenous iron.
- ▶ L2: Overload: phlebotomy and chelating agents orales y/o parenterales.
- ▶ L3: Hormonal modifiers: hepcidin agonists and antagonists.

### Axis 4: Regional siderosis

- ▶ L1: Restless leg syndrome.
- ▶ L2: Sleep disorders.
- ▶ L3: Neurodegenerative diseases.
- ▶ L4: Endocrine diseases.
- ▶ L5: Heart diseases.

## Group members

- Clavero Olmos, Marta: R1. First Stage Researcher.
- García-Espona Pancorbo, Alejandro: R1. First Stage Researcher.
- Guillén Mesado, Amparo.
- Lillo Triguero, Laura.
- López Aparicio, Ana: R1. First Stage Researcher.
- Matskiv, Nadiya.
- Peraita Adrados, Rosa: R4. Leading Researcher.
- Sánchez Pablo, Miguel Ángel.

## Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Pablo Medrano Martínez	Alteraciones neuropsicológicas en la narcolepsia con cataplejía estudio de casos y controles	María Rosa Peraita Adrados, MJ Ramos Platón	UCM	22/03/2019

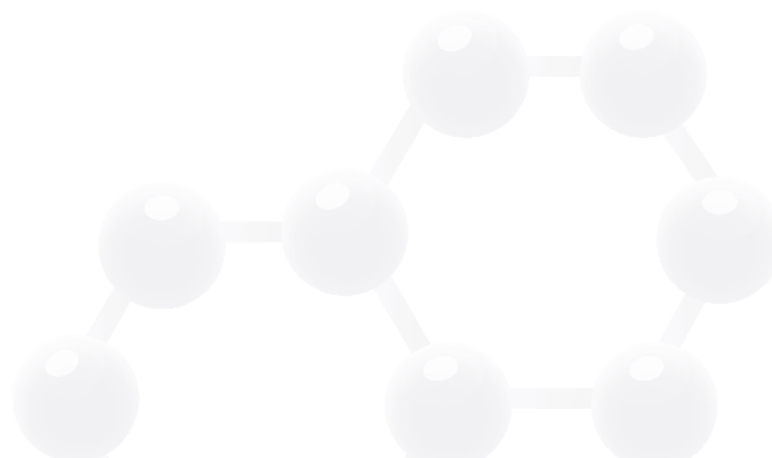
**Publications**

Total Impact Factor: 3.5

	Nº	IF
Own publications	1	1.6
Joint publications	1	1.9
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	0	0.0
Third quartile publications	2	3.5
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>2</b>	<b>3.5</b>

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

- García-García, A; Demelo-Rodríguez, P; Ordieres-Ortega, L; Cervera-Muñoz, E; García-Fernández-Bravo, I; Pulfer, MD; López-Aparicio, A; Galeano-Valle, F; del Toro-Cervera, J. Idiopathic versus Provoked Renal Infarction: Characteristics and Long-Term Follow-Up of a Cohort of Patients in a Tertiary Hospital. KIDNEY & BLOOD PRESSURE RESEARCH. 2019; 44(6) 1432-1440. FI: 1.898. Cuartil: 3. (Article).
- López-Aparicio A; Pulfer D; Lillo-Triguero L. Hepato-cerebral hereditary hemochromatosis in a patient with restless legs syndrome. MEDICINA CLINICA. 2019; 153(6) 260-261. FI: 1.635. Cuartil: 3. (Letter)



## 7.12. Emergency medicine

Group director: **JAVIER MUÑOZ GONZÁLEZ**

Organisms involved: **HUGM**

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, M<sup>a</sup> Jesús:** R1. First Stage Researcher.

### Publications

Total Impact Factor: 7.3

	Nº	IF
Own publications	0	0,0
Joint publications	1	7,3
First decile publications	1	7,3
First quartile publications	1	7,3
Second quartile publications	0	0,0
Third quartile publications	0	0,0
Fourth quartile publications	0	0,0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>1</b>	<b>7.3</b>

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

- Martín-Delgado, MC; Martínez-Soba, F; Masnou, N; Pérez-Villares, JM; Pont, T; Carretero, MJS; Velasco, J; De la Calle, B; Escudero, D; Estebanez, B; Coll, E; Pérez-Blanco, A; Perojo, L; Urunuela, D; Domínguez-Gil, B. Summary of Spanish recommendations on intensive care to facilitate organ donation. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(6) 1782-1791. FI: 7.338. Cuartil: 1. (Article).



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

Group director: **BEGOÑA QUINTANA VILLAMANDOS**

Organisms involved: **HGUGM**

Type: **Emerging Group**

## Research lines

### Axis 1: Ventricular remodeling: natural history, pathophysiology, and treatment

- ▶ Line 1: Immunohistopathology and ultrastructure in ventricular remodeling.
- ▶ Line 2: Pathophysiology of ventricular remodeling.
- ▶ Line 3: Serum biomarkers in heart disease.
- ▶ Line 4: New therapies in the regression of ventricular remodeling.

### Axis 2: Anesthesia in cardiovascular surgery

- ▶ Line 1: Optimization of anesthesia in heart surgery.
- ▶ Line 2: Optimization of anesthesia in mechanical circulatory assist devices.
- ▶ Line 3: Optimization of anesthesia in vascular surgery.

### Axis 3: Vascular remodelling: natural history, pathophysiology, and treatment

- ▶ Line 1: Fetal origin of cardiovascular disease and nutrition.
- ▶ Line 2: Antioxidant and antihypertensive action of liver growth factor.
- ▶ Line 3: Structure and function of vascular remodeling.
- ▶ Line 4: Serum biomarkers of vascular disease.
- ▶ Line 5: New therapies in the regression of vascular remodeling.

## Group members

- **Arnalich Montiel, Ana:** R2. Recognised Researcher.
- **Arribas Rodríguez, Silvia Magdalena:** R2. Recognised Researcher.
- **Delgado Baeza, Emilio:** R3. Recognised Researcher.
- **Delgado Martos, M<sup>a</sup> Jesús:** R2. Recognised Researcher.
- **Fernández Riveira, Carmen:** R2. Recognised Researcher.
- **García Díaz, Jesús.**
- **Gómez de Diego, José Juan:** R2. Recognised Researcher.
- **González García, M<sup>a</sup> del Carmen:** R2. Recognised Researcher.
- **Iglesias de la Vega, Mario:** R2. Recognised Researcher.
- **Martos Rodríguez, Antonia:** R1. First Stage Researcher.
- **Morillas Sendín, Paloma:** R2. Recognised Researcher.
- **Pazó Sayós, Laia:** R2. Recognised Researcher.
- **Quintana Villamandos, M<sup>a</sup> Begoña:** R4. Leading Researcher.



## Research Projects – Competitive Calls

- Title: **SHORT-TERM Esmolol confers cardioprotection persistent after treatment withdrawal. Future therapeutic targets in cardiac remodeling.** PI16/02069  
 Director: Quintana Villamandos, Begoña  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019

### Not managed by FIBHGM

- Title: **Aeroevacuación en un escenario real: nueva herramienta de aprendizaje en las futuras generaciones de estudiantes de medicina.** PIMCD-245  
 Director: Quintana Villamandos, Begoña  
 Project type: Innovation project  
 Funding body: UCM  
 Start date: 09/01/2018  
 End date: 31/12/2020
- Title: **Innovación en la docencia del grado de medicina: aerotransporte de pacientes con alto riesgo de contaminación por enfermedad infecciosa en un escenario real.** PIMCD-333  
 Director: Quintana Villamandos, Begoña  
 Project type: Innovation project  
 Funding body: UCM  
 Start date: 01/01/2019  
 End date: 31/12/2021

## Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Irene González Del Pozo	Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardíaca	María Begoña Quintana Villamandos, Juan Francisco del Cañizo López	UCM	18/09/2019

## Industrial and intellectual property registrations

### Industrial property

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

■ Transferred patents.

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



Publications		Total Impact Factor: 13.6
	Nº	IF
Own publications	6	13.6
Joint publications	0	0.0
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	4	11.2
Third quartile publications	1	2.3
Fourth quartile publications	1	0.2
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>1</b>	<b>13.6</b>

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

- Quintana-Villamandos, B; Delgado-Martos, MJ; Delgado-Baeza, E. Impact of a Multichannel Blocker in Attenuating Intramyocardial Artery Remodeling in Hypertensive Rats through Increased Nitric Oxide Bioavailability. BIOMED RESEARCH INTERNATIONAL. 2019; 2019 -. FI: 2.276. Cuartil: 3. (Article).
- Quintana-Villamandos, B; Pazo-Sayos, L; Arribas, SM; Rodríguez-Rodríguez, P; Boger, RH; Luneburg, N; Delgado-Baeza, E; González, MC. Dronedarone induces regression of coronary artery remodeling related to better global

antioxidant status. HYPERTENSION RESEARCH. 2019; 42(10) 1485-1494. FI: 2.941. Cuartil: 2. (Article).

- Morillas-Sendín, P; del Canizo, JF; Ruiz, M; Delgado-Baeza, E; Quintana-Villamandos, B. Randomized comparison of sevoflurane versus propofol on organ blood flow after partial thoracic aortic cross-clamping. INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE. 2019; 12(1) 1226-1233. FI: 0.166. Cuartil: 4. (Article).
- Quintana-Villamandos, B; Delgado-Martos, MJ; Delgado-Baeza, E. Early reversal cardiac with esmolol in hypertensive rats: The role of subcellular organelle phenotype. PHARMACOLOGICAL REPORTS. 2019; 71(6) 1125-1132. FI: 2.754. Cuartil: 2. (Article).
- Quintana-Villamandos, B; González, MD; Delgado-Martos, MJ; Gutiérrez-Arzapalo, PY; Boger, RH; Luneburg, N; Muñoz, D; Delgado-Baeza, E. The protective effect of dronedarone on the structure and mechanical properties of the aorta in hypertensive rats by decreasing the concentration of symmetric dimethylarginine (SDMA). PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).
- Quintana-Villamandos, B; del Pozo, IG; Pazo-Sayos, L; Bellón, JM; Pedraz-Prieto, A; Pinto, AG; Delgado-Baeza, E. Plasma protein thiolation index (PTI) as a potential biomarker for left ventricular hypertrophy in humans. PLOS ONE. 2019; 14(5) -. FI: 2.74. Cuartil: 2. (Article).

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

- Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Fernandez-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPAÑOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).

## 7.18. Peritransplant evaluation of the liver

Group director: **JOSÉ MARÍA PÉREZ PEÑA**

Organisms involved: **HGUGM**

Type: **Associated Group**

### Research lines

- ▶ L1: Evaluation of early function of the liver graft. Leaders: Dr. Luis Olmedilla Arnal and Dr. José M<sup>a</sup> Pérez Peña.
- ▶ L2: Usefulness of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients during liver transplant. Leader: Jose M<sup>a</sup> Pérez Peña.
- ▶ L3: Influence of anesthetic agents during major liver surgery. Leader: Dr. Luis Olmedilla Arnal

The members of the research group are part of the Anesthesiology and Recovery Department of Hospital Gregorio Marañón. Their care activity is aimed at the field of anesthesia and postoperative recovery in major abdominal surgery. Since 1990, when we started the liver transplant (LT) program in HGU Gregorio Marañón, we have formed part of the anesthesia team responsible for LT and have developed various research lines in this field and in major liver surgery in close collaboration with the Hepatology and Surgery Services. During the last few years, we have been developing the following research lines:

1. Methods for the rapid diagnosis of early graft failure in LT. One of the challenges of LT is that of early diagnosis of graft failure in order to review potential factors involved (especially arterial thrombosis, which can be addressed using surgery) in order to treat them before they become irreversible. One of the methods proposed is indocyanine green clearance, which involves elimination of a dye from vascular circulation exclusively via hepatic uptake and biliary clearance. Our group has developed a research line on the predictive ability of hepatic clearance of indocyanine green in liver graft failure, morbidity and mortality, and early lesions of the biliary tract after LT.
2. Use of cardiac biomarkers and cardiac hemodynamic monitoring in cirrhotic patients undergoing LT. Our group had previously studied the preoperative

evaluation of cardiomyopathy in cirrhotic patients and its influence on intraoperative behavior during LT. We are currently investigating the utility of cardiac biomarkers (troponin and proBNP) and intraoperative monitoring of cardiac and pulmonary hemodynamic parameters during LT with respect to perioperative morbidity and mortality after transplant.

3. Influence of anesthetic agents in major liver surgery and LT. The various anesthetics induce variations in hepatic blood flow, systemic and portal hemodynamics, and modulation of the inflammatory response during liver surgery and LT. Our group is using an experimental porcine model to evaluate the effects of the anesthetics used in clinical practice (sevoflurane and propofol) on liver hemodynamics and function after extensive resection.
4. Our group forms part of a multidisciplinary clinical and experimental research team composed of hepatologists, surgeons, pathologists, biochemists, and anesthesiologists from HGU Gregorio Marañón. In recent years, the team has been developing a research line in a porcine experimental model of the pathophysiological mechanisms that affect in the development of acute liver failure after extensive resection and «small for size» syndrome, as well as the effects of normothermic perfusion on marginal donor liver graft recovery and liver regeneration.

### Group members

- **Duque González, Patricia:** R2. Recognised Researcher.
- **Jiménez de la Fuente, Consolación:** R1. First Stage Researcher.
- **Lisbona Sáez, Cristina Julia:** R2. Recognised Researcher.
- **Olmedilla Arnal, Luis Enrique:** R2. Recognised Researcher.
- **Pérez Peña, José M<sup>a</sup>:** R4. Leading Researcher.
- **Vílchez Monge, Almudena:** R1. First Stage Researcher.



### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Juan Laso Pérez	Comparación del efecto de propofol o sevoflurano sobre la lesión histológica, respuesta inflamatoria y hemodinámica hepática en un modelo porcino de «Small for flow Syndrome»	Luis Enrique Olmedilla Arnal José Manuel Asencio Pascual María Cruz García Martín	UCM	27/11/2019

### Publications

Total Impact Factor: 33.2

	Nº	IF
Own publications	1	1.4
Joint publications	8	31.8
First decile publications	2	19.2
First quartile publications	3	22.4
Second quartile publications	1	2.6
Third quartile publications	4	7.4
Fourth quartile publications	1	0.8
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>12</b>	<b>33.2</b>

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

- Motiño O; Francés DE; Casanova N; Fuertes-Agudo M; Cucarella C; Flores JM; Vallejo-Cremades MT; Olmedilla L; Pérez Pena J; Banares R; Bosca L; Casado M; Martín-Sanz P. Protective Role of Hepatocyte Cyclooxygenase-2 Expression Against Liver Ischemia-Reperfusion Injury in Mice. HEPATOLOGY. 2019; 70(2) 650-665. FI: 14.679. Cuartil: 1. (Article).

- Carraminana, A; Ferrando, C; Unzueta, MC; Navarro, R; Suárez-Sipmann, F; Tusman, G; Garutti, I; Soro, M; Pozo, N; Librero, J; Gallego, L; Ramasco, F; Rabanal, JM; Rodríguez, A; Sastre, J; Martínez, J; Coves, S; García, P; Aguirre-Puig, P; Yepes, J; Lluch, A; López-Herrera, D; Leal, S; Vives, M; Bellas, S; Socorro, T; Trespacios, R; Salazar, CJ; Mugarra, A; Cinnella, G; Spadaro, S; Futier, E; Ferrer, L; Cabrera, M; Ribeiro, H; Celestino, C; Kucur, E; Cervantes, O; Morocho, D; Delphy, D; Ramos, C; Villar, J; Belda, J; Monedero, P; Martínez, S; Comino, O; Coy, A; Armengol, L; Pineiro, P; Cruz, P; Duque, P; de la Gala, FA; Sánchez, G; Olmedilla, L; de la Fuente, E; Erquicia, I; Reyes, A; López, E; Palencia, M; Bunger, B; Ramos, R; Terradillos, E; Almaraz, C; Lujan, LM; López, A; Femenia, F; Botella, S; Cimadevilla, B; Pascual, R; Pardo, S; González, M; López, C; Trabanco, S; Zaldibar, E; Barolome, MJ; Pereira, D; Otero, T; Blanco, L; Reparaz, JR; Ceresuela, R; Castellano, P; Martínez, P; Martínez, O; Franco, J; Hernández, J; Pastor, O; Solera, J; Guerra, E; Dib, ZH; Farina, R; Cabrera, S; Arribas, MP; Sastre, JA; de Celis, I; Pascual, MJ; García-Barberena, B; Arango, E; Amaya, O; Madrid, G; Triana, C; Pabon, S; Díaz, DP; Ortells, F; Pérez, B; Aracil, R; Sánchez, R; Acosta, J; de la Matta, M; González, D; Mirabella, L; Rauseo, M; Lamanna, A; Volta, CA; Ragazzi, R; Cachapuz, M; Correia, I; Parera, A; Argilaga, M; Azparren, G; Bausili, M; Almajano, R; Aragón, C; Colas, A; Cotera, I; Embun, R; Forcada, P; Garcés, C; Gil, F; Gracia, A; Herrero, M; Izquierdo, B; Martínez, P; Muñoz, N; Puertolas, M; Quesada, N; Recuero, JL; Royo, I; Romero, B; Rubio, B; Sandin, F; Sanjuan-Villarreal, TA; Valles-Torres, J; Cordoba, J; Pintor, J; Planas, A; Nieves, JM; García, E; Vallejo, C; Santidrian, S; Rofso, P; Arocas, B; Gutiérrez, A; Charco, P; Parra, MJ; Carbonell, JA; Jurado, A; Serralta, F; Sancho, L; Barcena, E; Lascorz, L; Belmonte, L; Cuervo, J; Florea, R; Martínez, S; Monleon, B; Pérez, S; García, L; Hurtado, L; Pardo, P; Segura, N; Utrera, E; Martín, B; Mellado, P; Arcas, JJ; Martínez, N; Maric, M; Muñoz, LE; González, RC; Busquets, J; Homs, M; Jiménez, A; Pintanel, T; Martínez, E; Moret, E; Sercakacilar, G; Díaz, M; Souteiro, JT; Benito, A; Cebrian, A; Mestres, G; Mohamed, MI; Yousef, SA; Osman, YM; Moreno, A; Tutillo, A; Pilco, H; Pena, A; Llano, M; Carrillo, E; Salazar, C; Domínguez, D; Espinosa, E; iPROVE-OLV Network. Rationale and Study Design for an Individualized Perioperative Open Lung Ventilatory Strategy in Patients on One-Lung Ventilation (iPROVE-OLV). JOURNAL OF CARDIOTHORACIC AND VASCULAR ANESTHESIA. 2019; 33(9) 2492-2502. FI: 2.258. Cuartil: 3. (Article).
- Orue-Echebarria, MI; Vaquero, J; Lisbona, CJ; Lozano, P; Steiner, MA; Morales, A; López-Baena, JA; Laso, J; Hernández, I; Olmedilla, L; Sabrido, JLG; Peligros,

## 7.18. PERITRANSPLANT EVALUATION OF THE LIVER

- I; Sola, E; Carballal, C; Vara, E; Asencio, JM. Comprehensive Characterization of a Porcine Model of The "Small-for-Flow" Syndrome. JOURNAL OF GASTROINTESTINAL SURGERY. 2019; 23(11) 2174-2183. FI: 2.573. Cuartil: 2. (Article).
- Romero-Cristobal, M; Mombiela, T; Caballero, A; Clemente, A; Fernández-Yunquera, A; Díaz-Fontenla, F; Rincón, D; Ripoll, C; Bermejo, J; Catalina, MV; Matilla, AM; Ibáñez-Samaniego, L; Pérez-Pena, J; López-Baena, JA; Díaz-Zorita, B; Fernández-Avilés, F; Salcedo, MM; Banares, R. Clinical Utility of a Risk-Adapted Protocol for the Evaluation of Coronary Artery Disease in Liver Transplant Recipients. LIVER TRANSPLANTATION. 2019; 25(8) 1177-1186. FI: 4.57. Cuartil: 1. (Article).
  - Díaz-Cambronero, O; Lorente, BF; Mazzinari, G; Montanes, MV; Gregorio, NG; Hernández, DR; Arnal, LEO; Navarro, MPA; Schultz, MJ; Errando, CL; Pous, S; Ballester, C; Frasson, M; García-Granero, A; Santacruz, CC; García-Granero, E; Guillen, LS; Mari, AM; Rodrigo, DC; Gerez, JG; Rodríguez, RC; Sanz, MDM; Martín, MR; Ortuzar, JZ; Pérez-Pena, JM; Estelles, MJA; Montero, BA; Jaen, SM; Verdeguer, S; Warle, M; Frau, DC; IPPCollapSe Study Grp. A multifaceted individualized pneumoperitoneum strategy for laparoscopic colorectal surgery: a multicenter observational feasibility study. SURGICAL ENDOSCOPY AND OTHER INTERVENTIONAL TECHNIQUES. 2019; 33(1) 252-260. FI: 3.149. Cuartil: 1. (Article).
  - Duque, P; Garutti, I; Terradillos, E; Ledesma, B; Rancan, L; Simón, C; Vara, E. Modulation of CCL2 Expression by Laparoscopic Versus Open Surgery for Colorectal Cancer Surgery. SURGICAL LAPAROSCOPY ENDOSCOPY & PERCUTANEOUS TECHNIQUES. 2019; 29(2) 101-108. FI: 1.382. Cuartil: 3. (Article).
  - Lozano, P; Orue-Echebarria, MI; Asencio, JM; Sharma, H; Lisbona, CJ; Olmedilla, L; Pena, JMP; Salcedo, MM; Skaro, A; Velasco, E; Colon, A; Díaz-Zorita, B; Rodríguez, L; Ferreiroa, J; López-Baena, JA. Donor Risk Index Has an Impact in Intraoperative Measure of Hepatic Artery Flow and in Clearance of Indocyanine Green: An Observational Cohort Study. TRANSPLANTATION PROCEEDINGS. 2019; 51(1) 50-55. FI: 0.784. Cuartil: 4. (Article).
  - Díaz-Cambronero, O; Mazzinari, G; Errando, CL; Schultz, MJ; Lorente, BF; García-Gregorio, N; Montanes, MV; Arnal, LEO; Martín-De-Pablos, A; Mari, AM; Navarro, MPA; Alberola-Estelles, MJ; Ayas-Montero, B; Matoses-Jaen, S; Verdeguer, S; Inigo, JMA; Domenech, JB; Velez, ME; Cuesta-Frau, D; Pous, S; Ballester, C; Frasson, M; García-Granero, A; Cerdan-Santacruz, C; García-Granero, E; Sánchez-Guillen, L; Robles-Hernández, D; Boquera-Albert, D; Casado-Rodrigo, D; Cosa-Rodríguez, R; Oimedilla-Amai, LE; Rodríguez-Martín, M; Zorrilla-Ortuzar, J; Pérez-Pena, JM; Martín-de-Pablos, A; Valdes-Hernández, J; Gómez-Rosado, JC; Heredia-Pérez, P; Cintas-Catena, J; Flor-Parra, F; Schultz, MJ; Oyonarte, CLE; IPPCollapse-II Study Grp. An individualised versus a conventional pneumoperitoneum pressure strategy during colorectal laparoscopic surgery: rationale and study protocol for a multicentre randomised clinical study. TRIALS. 2019; 20 -. FI: 1.883. Cuartil: 3. (Article).
  - De la Gala, F; Pineiro, P; Reyes, A; Simón, C; Vara, E; Rancan, L; Huerta, LJ; González, G; Benito, C; Muñoz, M; Grande, P; Paredes, SD; Aznar, PT; Pérez, A; Martínez, D; Higuero, F; Sanz, D; De Miguel, JP; Cruz, P; Olmedilla, L; Gil, EL; Duque, P; Sánchez-Pedrosa, G; Valle, M; Garutti, I. Effect of intraoperative paravertebral or intravenous lidocaine versus control during lung resection surgery on postoperative complications: A randomized controlled trial. TRIALS. 2019; 20(1) -. FI: 1.883. Cuartil: 3. (Article).

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

- Duque, P; Quintilla, JM; Varela, JA; Garrido, P; Valencia, O; Maestre, JM. Emotional response to a high-fidelity trauma simulation: An observational study. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 521-527. (Article).
- Colomina, MJ; Olmedilla, L; Villanueva, MA; Bisbe, E; Grp MAPBM. Assessment of the knowledge level of the professional as regards Patient Blood Management in their organisation. Results of the MAPBM project survey. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(6) 315-323. (Article).
- Lominchar, PL; Orue-Echebarria, MI; Martín, L; Lisbona, CJ; Salcedo, MM; Olmedilla, L; Sharma, H; Asencio, JM; López-Baena, JA. Hepatic flow is an intraoperative predictor of early allograft dysfunction in whole-graft deceased donor liver transplantation: An observational cohort study. WORLD JOURNAL OF HEPATOLOGY. 2019; 11(9) 689-700. (Article).



## 7.19. Perianesthesia assessment

Group director: M<sup>a</sup> CARMEN FERNÁNDEZ RIVEIRA

Organisms involved: HGUGM

Type: Associated Group

### Group members

- Del Castillo, Teresa: R1. First Stage Researcher.
- Díaz Ruano, Susana: R1. First Stage Researcher.
- Fernández Fernández, Alejandro: R1. First Stage Researcher.
- Fernández Riveira, M<sup>a</sup> Carmen: R4. Leading Researcher.
- Membrillo Rubalcaba, M<sup>a</sup> José: R1. First Stage Researcher.
- Miguel Guijarro, M<sup>a</sup> 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, M<sup>a</sup> Teresa: R1. First Stage Researcher.
- Valera Cabo, Jesús Alberto: R1. First Stage Researcher.

### Publications Total Impact Factor: 4.8

	Nº	IF
Own publications	1	3.0
Joint publications	1	1.8
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	1	3.0
Third quartile publications	0	0.0
Fourth quartile publications	1	1.8
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>1</b>	<b>4.8</b>

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

- de Lorenzo-Pinto, A; Ortega-Navarro, C; Ribed, A; Giménez-Manzorro, A; Ibáñez-García, S; de Miguel-Guijarro, A; Ginel-Feito, MD; Herranz, A; Sanjurjo-Saez, M. Cancellations of elective surgical procedures due to inadequate management of chronic medications. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2019; 44(4) 561-564. FI: 1.833. Cuartil: 4. (Article).
- Díaz-Ruano, S; López-Pérez, AE; Giron, R; Pérez-García, I; Martín-Fontelles, MI; Abalo, R. Fluoroscopic Characterization of Colonic Dysmotility Associated to Opioid and Cannabinoid Agonists in Conscious Rats. JOURNAL OF NEURO-GASTROENTEROLOGY AND MOTILITY. 2019; 25(2) 300-. FI: 3.008. Cuartil: 2. (Article).

### Publications of the main WOS collection in journals without impact factor

- Duque, P; Quintilla, JM; Varela, JA; Garrido, P; Valencia, O; Maestre, JM. Emotional response to a high-fidelity trauma simulation: An observational study. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 521-527. (Article).



## 7.20. Anesthesia, toxins, and arrhythmias

Group director: **MATILDE ZEBALLOS GARCÍA**

Organisms involved: **HGUGM**

Type: **Associated Group**

### Research lines

#### Axis 1: Anesthetic agents and cardiac electrophysiology

- ▶ L1: Study of anesthetic agents in the electrical properties of the heart. Leader: Matilde Zaballos.
- ▶ L2: Study of the cardiac toxicity of local anesthetics and reversion with antidotes. Leader: Matilde Zaballos.
- ▶ L3: Study of the pharmacokinetics of local anesthetics in peripheral block in animal models and electrophysiological effects.

### Group members

- **Almendral Garrote, Jesús:** R3. Established Researcher.
- **Anadón Baselga, M<sup>a</sup> José:** R2. Recognised Researcher.
- **Callejo Crespo, David:** R1. First Stage Researcher.
- **Quintela Jorge, Óscar:** R1. First Stage Researcher.
- **Sevilla Bayón, Raúl:** R2. Recognised Researcher.
- **Varela García, Olalla:** R1. First Stage Researcher.
- **Zaballos García, Matilde:** R4. Leading Researcher.

### Research Projects – Competitive Calls

- Title: **Evaluación de la eficacia de dos antidotos: bicarbonato sódico versus intralipid en un modelo porcino de farmacotoxicidad cardiaca por ropivacaína. Análisis del impacto en los parámetros hemodinámicos, electrocardiográficos, electrofisiológicos y de las arritmias.**  
PI15/00695  
Director: Zaballos García, Matilde  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2017  
End date: 31/12/2019



Publications		Total Impact Factor: 16.2
	Nº	IF
Own publications	4	13.7
Joint publications	1	2.5
First decile publications	0	-
First quartile publications	2	10.0
Second quartile publications	1	1.4
Third quartile publications	2	4.8
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>6</b>	<b>16.2</b>

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

- Zaballos, M; Zaballos, J; López, S; Fernández-Díez, AI; Lluch-Oltra, A; Mexedo, C; López, A. The LMA((R)) Protector(TM) in anaesthetised, non-paralysed patients: a multicentre prospective observational study. ANAESTHESIA. 2019; 74(3) 333-339. FI: 5.739. Cuartil: 1. (Article).
- Zaballos, M; Callejo, D; Sevilla, R; Quintela, O; López-Menchaca, R; Melone, A; Varela, O; Anadón Baselga MJ; Almendral, J. Comparative Effects of Sodium Bicarbonate and Intravenous Lipid Emulsions on Reversing Bupivacaine-Indu-

ced Electrophysiological Toxicity in a Porcine Experimental Model. ANESTHESIA AND ANALGESIA. 2019; 129(1) 63-72. FI: 4.305. Cuartil: 1. (Article).

- De Diego C; Zaballos M; Quintela O; Sevilla R; Callejo D; González-Panizo J; Anadón MJ; Almendral J. Bupivacaine Toxicity Increases Transmural Dispersion of Repolarization, Developing of a Brugada-like Pattern and Ventricular Arrhythmias, Which is Reversed by Lipid Emulsion Administration. Study in an Experimental Porcine Model. CARDIOVASCULAR TOXICOLOGY. 2019; 19(5) 432-440. FI: 2.284. Cuartil: 3. (Article).
- Espinosa A; Ripolles-Melchor J; Brugada R; Campuzano O; Sarquella-Brugada G; Abad-Motos A; Zaballos-García M; Abad-Torrent A; Prieto-Gundin A; Brugada J. Brugada Syndrome: anesthetic considerations and management algorithm. MINERVA ANESTESIOLOGICA. 2019; 85(2) 173-188. FI: 2.498. Cuartil: 3. (Review).
- Zaballos, M; Del Blanco, B; Sevilla, R; De Diego, C; Anadon, MJ; Jimeno, C; Almendral, J. Differential effects of sevoflurane and propofol on swine cardiac conduction system. VETERINARY ANAESTHESIA AND ANALGESIA. 2019; 46(3) 344-351. FI: 1.368. Cuartil: 2. (Article).

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

- Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Avilés-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. ACTAS DERMO-SIFILIOGRAFICAS. 2019; 110(6) 469-473. (Article).



## 7.21. Biopathology of aging

Group director: **JOSÉ ANTONIO SERRA REXACH**

Organisms involved: **HGUGM**

Type: **Consolidated Group**

### Research lines

- ▶ **Axis 1:** Frailty and cardiovascular disease.
- ▶ **Axis 2:** Frailty and cognition.
- ▶ **Axis 3:** Frailty and hip fracture.
- ▶ **Axis 4:** Physical exercise to prevent disability during hospitalization.
- ▶ **Axis 5:** Use of communication and information technologies (CIT) to help frailty patients with disability.

### Group members

- **Mayordomo Cava, Jennifer:** R2. Recognised Researcher.
- **Montero Fernández, Nuria:** R1. First Stage Researcher.
- **Ortiz Alonso, Javier:** R3. Established Researcher.
- **Serra Rexach, José Antonio:** R4. Leading Researcher.
- **Vidán Astiz, M<sup>a</sup> Teresa:** R3. Established Researcher.
- **Zarralanga Lasobras, Teresa:** R1. First Stage Researcher.

Our group develops its research activity in the clinical field with a clear vocation for translational research. The group is currently made up of three main clinical researchers (Vidán, Ortiz, Serra) capable of successfully participating in competitive calls for projects and human resources.

Our research field covers a wide range of pathology related to ageing, especially linked to fragility: cardiovascular pathology, hip fracture, physical activity, etc. In addition, we have designed interventions to improve the prognosis in hospitalized elderly people (prevention of functional impairment and confusional conditions). Likewise, we have valued the usefulness of ICTs in the care of the elderly. Our most relevant contributions have contributed to modify the clinical practice in such important pathologies as the management of the acute confusional picture or the hip fracture.

Recently we have participated in the design of an Integrated Project of Excellence «Athero-Brain: Heart to Head (H2H) Study», finally funded, in which our group (Dr. Vidán) participates together with the National Center of Cardiovascular Research and the Cardiology Service of the Hospital 12 de Octubre in Madrid.

This solid background has contributed to our group being included as one of the 20 recently created CIBER groups on «fragility and aging» (CIBERFES) that has started in 2017.





## Research Projects – Competitive Calls

- Title: **Entrenamiento físico y educación sanitaria en la prevención del deterioro funcional asociado a la hospitalización en ancianos.** PI17/02021  
Director: Serra Rexach, José Antonio  
Project type: Research project  
Funding body: Instituto de Salud Carlos III  
Start date: 01/01/2018  
End date: 31/12/2020

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
CIBER	CIBERFES. Fragilidad y envejecimiento saludable	Collaborating group

## Publications

Total Impact Factor: 54.0

	Nº	IF
Own publications	1	11.6
Joint publications	11	42.4
First decile publications	4	28.2
First quartile publications	7	39.3
Second quartile publications	3	10.2
Third quartile publications	2	4.5
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>14</b>	<b>54.0</b>

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

- Gual, M; Formiga, F; Ariza-Sole, A; López-Palop, R; Sanchis, J; Marín, F; Vidan, MT; Martínez-Selles, M; Sionis, A; Sánchez-Salado, JC; Lorente, V; Díez-Villanueva, P; Vives-Borras, M; Cordero, A; Bueno, H; Alegre, O; Abu-Assi, E; Cequier, A; LONGEVO-SCA Registry Investigators. Diabetes mellitus, frailty and prognosis in very elderly patients with acute coronary syndromes. AGING CLINICAL AND EXPERIMENTAL RESEARCH. 2019; 31(11) 1635-1643. FI: 2.697. Cuartil: 3. (Article).
- Rossello, X; Miro, O; Llorens, P; Jacob, J; Herrero-Puente, P; Gil, V; Rizzi, MA; Pérez-Dura, MJ; Espiga, FR; Romero, R; Sevillano, JA; Vidan, MT; Bueno, H; Pocock, SJ; Martín-Sánchez, FJ; Fuentes, M; Gil, C; Alonso, H; Garmila, P; Adrada, ER; García, GL; Yanez-Palma, MC; López, SI; Escoda, R; Xipell, C; Sánchez, C; Gaytan, JM; Pérez-Dura, MJ; Salvo, E; Pavon, J; Noval, A; Torres, JM; López-Grima, ML; Valero, A; Juan, MA; Aguirre, A; Morales, JE; Mas, SM; Alonso, MI; Ruiz, F; Franco, JM; Díaz, E; Mecina, AB; Tost, J; Sánchez, S; Carbajosa, V; Pinera, P; Nicolas, JAS; Garate, RT; Alquezar, A; Rizzi, MA; Herrera, S; Roset, A; Cabello, I; Richard, F; Pérez, JMA; Díez, MPL; Álvarez, JV; Morilla, AA; Irímia, A; Javaloyes, P; Marquina, V; Jiménez, I; Hernández, N; Brouzet, B; Ramos, S; López, A; Andueza, JA; Sevillano, JA; Calvache, R; Lorca, MT; Calderón, L; Arriaga, BA; Sierra, B; Mojarro, EM; Becquer, LT; Burillo, G; García, LL; LaSalle, GC; Urbano, CA; García, AB; Padial, SED; Ferrer, ES; Garrido, M; Lucas, FJ; Gaya, R; ICA-SEMES Res Grp. Effect of Barthel Index on the Risk of Thirty-Day Mortality in Patients With Acute Heart Failure Attending the Emergency Department: A Cohort Study of Nine Thousand Ninety-Eight Patients From the Epidemiology of Acute Heart Failure in Emergency Department. ANNALS OF EMERGENCY MEDICINE. 2019; 73(6) 589-598. FI: 5.799. Cuartil: 1. (Article).
- Vicent, L; Ariza-Sole, A; Díez-Villanueva, P; Alegre, O; Sanchis, J; López-Palop, R; Formiga, F; González-Salvado, V; Bueno, H; Marín, F; Llibre, C; Llao, I; Vidan, MT; Abu-Assi, E; Aboal, J; Martínez-Selles, M. Statin Treatment and Prognosis of Elderly Patients Discharged after Non-ST Segment Elevation Acute Coronary Syndrome. CARDIOLOGY. 2019; 143(1-2) 14-21. FI: 1.791. Cuartil: 3. (Article).
- Valenzuela, PL; Castillo-García, A; Morales, JS; Izquierdo, M; Serra-Rexach, JA; Santos-Lozano, A; Lucia, A. Physical Exercise in the Oldest Old. COMPREHENSIVE PHYSIOLOGY. 2019; 9(4) 1281-1304. FI: 6.604. Cuartil: 1. (Article).



## 7.21. BIOPATHOLOGY OF AGING

- Martín-Sánchez, FJ; García, GL; Llorens, P; Jacob, J; Herrero, P; Gil, V; Pastor, AJ; López-Picado, A; Ferrer, MF; Rossello, X; Gil, P; Villanueva, PD; Calvo, E; Bailon, MM; Cuesta-Triana, F; Armengol, JGG; del Castillo, JG; Runtkle, I; Vidan, MT; Comin-Colet, J; Jentoft, AC; Bueno, H; Miro, O; Pérez, CF. Planning to reduce 30-day adverse events after discharge of frail elderly patients with acute heart failure: design and rationale for the DEED FRAIL-AHF trial. EMERGENCIAS. 2019; 31(1) 27-35. FI: 3.173. Cuartil: 1. (Article).
  - Vicent, L; Ariza-Sole, A; Alegre, O; Sanchis, J; López-Palop, R; Formiga, F; González-Salvados, V; Bueno, H; Vidan, MT; Díez-Villanueva, P; Abu-assi, E; Martínez-Selles, M. Octogenarian women with acute coronary syndrome present frailty and readmissions more frequently than men. EUROPEAN HEART JOURNAL-ACUTE CARDIOVASCULAR CARE. 2019; 8(3) 252-263. FI: 3.813. Cuartil: 2. (Article).
  - Vidan, MT; Sánchez, FJM; Sánchez, E; Ortiz, FJ; Serra-Rexach, JA; Martínez-Selles, M; Bueno, H. Most elderly patients hospitalized for heart failure lack the abilities needed to perform the tasks required for self-care: impact on outcomes. EUROPEAN JOURNAL OF HEART FAILURE. 2019; 21(11) 1434-1442. FI: 11.627. Cuartil: 1. (Article).
  - Martín-Sánchez, FJ; Triana, FC; Bossello, X; García, RP; García, GL; Caimari, F; Vidan, MT; Artacho, PR; del Castillo, JG; Llorens, P; Herrero, P; Jacob, J; Gil, V; Pérez, CF; Gil, P; Bueno, H; Miro, O; Martín, PM; Adrada, ER; Santos, MC; Salgado, L; Brizzi, BN; Docavo, ML; Suárez-Cadenas, MD; Xipell, C; Sánchez, C; Aguilo, S; Gaytan, JM; Jerez, A; Pérez-Dura, MJ; Gil, PB; López-Grima, ML; Valero, A; Aguirre, A; Pedragosa, MA; Pinera, P; LazaroAragues, P; Nicolas, JAS; Rizzi, MA; Mateo, SH; Alquezar, A; Roset, A; Ferrer, C; Llopis, F; Pérez, JMA; Díez, MPL; Richard, F; Fernández-Canadas, JM; Carratala, JM; Javaloyes, P; Andueza, JA; Fernández, JAS; Romero, R; Loranca, MM; Rodríguez, VA; Lorca, MT; Calderón, L; Ferrer, ES; Garrido, JM; Mojarro, EM; OAK Register Investigators. Effect of risk of malnutrition on 30-day mortality among older patients with acute heart failure in Emergency Departments. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2019; 65 69-77. FI: 4.329. Cuartil: 1. (Article).
  - Vives-Borras, M; Martínez-Selles, M; Ariza-Sole, A; Vidan, MT; Formiga, F; Bueno, H; Sanchis, J; Alegre, O; Duran-Cambra, A; López-Palop, R; Abu-Assi, E; Sionis, A; LONGEVO-SCA Investigators. Clinical and prognostic implications of delirium in elderly patients with non-ST-segment elevation acute coronary syndromes. JOURNAL OF GERIATRIC CARDIOLOGY. 2019; 16(2) 121-128. FI: 2.491. Cuartil: 2. (Article).
  - Díez-Villanueva, P; Vera, A; Ariza-Sole, A; Alegre, O; Formiga, F; López-Palop, R; Marín, F; Vidan, MT; Martínez-Selles, M; Salamanca, J; Sionis, A; García-Pardo, H; Bueno, H; Sanchis, J; Abu-Assi, E; González-Salvado, V; Llaó, I; Alfonso, F; LONGEVO-SCA Registry Investigators. Mitral Regurgitation and Prognosis After Non-ST-Segment Elevation Myocardial Infarction in Very Old Patients. JOURNAL OF THE AMERICAN GERIATRICS SOCIETY. 2019; 67(8) 1641-1648. FI: 4.18. Cuartil: 1. (Article).
  - Malafarina, V; Rexach, JAS; Masanes, F; Cruz-Jentoft, AJ. Effects of high-protein, high-calorie oral nutritional supplementation in malnourished older people in nursing homes: An observational, multi-center, prospective study (PROT-e-GER). Protocol and baseline population characteristics. MATURITAS. 2019; 126 73-79. FI: 3.63. Cuartil: 1. (Article).
  - Ojeda-Thies, C; Saez-López, P; Currie, CT; Tarazona-Santalbina, FJ; Alarcón, T; Muñoz-Pascual, A; Pareja, T; Gómez-Campelo, P; Montero-Fernández, N; Mora-Fernández, J; Larrainzar-Garijo, R; Gil-Garay, E; Etxebarria-Foronda, I; Caeiro, JR; Díez-Pérez, A; Prieto-Alhambra, D; Navarro-Castellanos, L; Otero-Puime, A; González-Montalvo, JI; Participants RNFC. Spanish National Hip Fracture Registry (RNFC): analysis of its first annual report and international comparison with other established registries. OSTEOPOROSIS INTERNATIONAL. 2019; 30(6) 1243-1254. FI: 3.864. Cuartil: 2. (Article).
- Publications of the main WOS collection in journals without impact factor**
- Vasquez, J; Romero, V; Vilas, P; Serra-Rexach, JA; Vidan, MT. Progressive edemas and generalized telangiectasia: A presentation of Intravascular B-cell Lymphoma. CLINICAL CASE REPORTS. 2019; 7(12) 2429-2432. (Article).
- Other publications**
- González Chavez SA; Romero Estarlich V; Muñoz Yopez S; Ortiz Alonso FJ; Serra Rexach JA. Pileflebitis o trombosis septica portal persistente en paciente nonagenaria. REVISTA ESPANOLA DE GERIATRIA Y GERONTOLOGIA. 2019; 54(1) 56-57. (Article).

## 7.22. Neonatal and developmental physiology

Group director: **MANUEL SÁNCHEZ LUNA**

Organisms involved: **HGUGM**

Type: **Emerging Group**

### Research lines

- ▶ L1: Prevention and treatment of bronchopulmonary dysplasia.
- ▶ L2: Noninvasive respiratory support.
- ▶ L3: High-frequency oscillatory ventilation with very low volumes.
- ▶ L4: Noninvasive administration of pulmonary surfactants.
- ▶ L5: Neonatal neuroprotection.
- ▶ L6: Imaging in neonatology.
- ▶ L7: Development of an incubator for neonatal imaging with nonionizing radiation.
- ▶ L8: Neonatal nutrition and personalized neonatal nutrition.

### Group members

- **Arriaga Redondo, María:** R2. Recognised Researcher.
- **Bernardo Atienza, Ana Belén:** R1. First Stage Researcher.
- **Blanco Bravo, Dorotea:** R2. Recognised Researcher.
- **Caballero Martín, Sylvia:** R1. First Stage Researcher.
- **Chimenti Camacho, Paz:** R1. First Stage Researcher.
- **Franco Fernández, M<sup>a</sup> Luisa:** R1. First Stage Researcher.
- **González Pacheco, Noelia:** R1. First Stage Researcher.
- **Gregorio Hernández, Rebeca.**
- **Maderuelo Rodríguez, Elena:** R1. First Stage Researcher.
- **Marsinyach Ros, M<sup>a</sup> Itziar:** R2. Recognised Researcher.
- **Pérez Pérez, Alba:** R1. First Stage Researcher.
- **Pescador Chamorro, M<sup>a</sup> Isabel:** R1. First Stage Researcher.
- **Ramos Navarro, M<sup>a</sup> Cristina:** R1. First Stage Researcher.
- **Rodríguez Sánchez de la Blanca, Ana:** R1. First Stage Researcher.
- **Sánchez Luna, Manuel:** R4. Leading Researcher.
- **Sánchez Gómez de Orgaz, M<sup>a</sup> del Carmen:** R1. First Stage Researcher.
- **Sanz López, Esther:** R1. First Stage Researcher.
- **Villar Castro, Sonia:** R1. First Stage Researcher.
- **Zamora Flores, Elena:** R1. First Stage Researcher.
- **Zeballos Sarrato, Gonzalo:** R1. First Stage Researcher.
- **Zeballos Sarrato, Susana Elena:** R1. First Stage Researcher.



### Research Projects – Competitive Calls

- 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: 31/12/2020

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
CIBER	CIBERFES. Fragilidad y envejecimiento saludable	Collaborating group
ISCII Platform	Plataforma española de Ensayos clínicos (SCRen)	Collaborating group

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Incubadora para imagen con radiación no ionizante	PCT/ES2007/070214 (Familia con 3 patentes)	FIBHGM	Juan José Vaquero, Manuel Desco, Manuel Sánchez-Luna

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

### Clinical Practice Guidelines

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

### Publications

Total Impact Factor: 18.2

	Nº	IF
Own publications	6	8.6
Joint publications	4	9.7
First decile publications	1	3.7
First quartile publications	2	6.4
Second quartile publications	2	3.9
Third quartile publications	5	6.7
Fourth quartile publications	1	1.2
Nonindexed publications / No IF	2	-
<b>Total publications (including those without IF)</b>	<b>12</b>	<b>18.2</b>

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

- Sarrato, GZ; Luna, MS; Sarrato, SZ; Pérez, AP; Chamorro, IP; Cano, JMB. New Strategies of Pulmonary Protection of Preterm Infants in the Delivery Room with the Respiratory Function Monitoring. *AMERICAN JOURNAL OF PERINATOLOGY*. 2019; 36(13) 1368-1376. FI: 1.474. Cuartil: 3. (Article).
- Castellanos, JLL; Munuzuri, AP; Campillo, CWR; López, ES; Fernández, IB; Redondo, MDS; Gracia, SR; Luna, MS. Recommendations for the care of the umbilical cord in the newborn. *ANALES DE PEDIATRIA*. 2019; 90(6) 408-409. FI: 1.313. Cuartil: 3. (Letter).
- Carmona, ML; Luna, RT; San Román, LO; Ros, IM; Marchena, LN; Paredes, ABM; la Calle, MCV; Spanish Grp Study Pediat Pain. Positioning document of the Spanish Association of Paediatrics Group for the study of paediatric pain on the Registration of Pain as fifth vital sign. *ANALES DE PEDIATRIA*. 2019; 91(5) 348-350. FI: 1.313. Cuartil: 3. (Letter).
- Arteta, ELH; Rivero, PA; Ros, MIM; Domínguez, MC. Isolated skin lesions in a neonate: A case of congenital Langerhans cell histiocytosis. *ANALES DE PEDIATRIA*. 2019; 90(6) -. FI: 1.313. Cuartil: 3. (Article).
- Luna, MS; Munuzuri, AP; Castellanos, JLL; Campillo, CWR; López, ES; Fernández, IB; Redondo, MDS; Gracia, SR; Soc Espanola Neonatologia. An update of the recommendations of the Spanish Neonatology Society for the use of palivizumab as prophylaxis for severe infections due to syncytial respiratory virus in high risk infants. *ANALES DE PEDIATRIA*. 2019; 91(1) -. FI: 1.313. Cuartil: 3. (Article).
- Benders, MJNL; Klebermass-Schrehof, K; Metsaranta, M; Rudiger, M; Poets, CF; Benders, M; Allegaert, K; Naulaers, G; Klebermass-Schrehof, K; Guimaraes, H; Stiris, T; Vanhatalo, S; Metsvaht, T; Engel, C; Maiwald, CA; von Oldershausen, G; Bergmann, I; Weiss, M; Wichera, CJBR; Eichhorn, A; Raubuch, M; Schuler, B; van Veldhuizen, CKW; Lameris, B; Jacobs, Y; van der Vlugt-Meijer, R; Kliniken, T; Griesmaier, E; Salzburg, U; Brandner, J; Tackoen, M; Reibel, R; Cornette, L; Viellevoye, LR; Saik, P; Kaar, R; Andrésson, P; Metsaranta, M; Franz, AR; Carus, CG; Winkler, S; Hoehn, T; Teig, N; Schroth, M; Fusch, C; Thome, UH; Ehrhardt, H; Cattarossi, L; Mauro, I; Baraldi, E; Carnielli, V; Paterlini, MG; Napolitano, M; Faldini, F; Lista, GL; Barbarini, M; Pagani, L; Anna, S; Mastretta, E; Vento, G; Fumagalli, MM; Binotti, NM; van Weissenbruch, MM; van Straaten, HLM; Annink, KV; van Bel, F; Dudink, J; Derks, JB; de Boer, IP; Meijssen, CB; de Haan, TR; van Rooij, LG; van Hillegersberg, JL; van Dongen, M; Dassel, ACM; Dijkman, KP; van Houten, MA; van der Schoor, SRD; Nestaas, E; Mazela, J; Karpinski, L; Vilan, AI; de Pinho, LF; Ferraz, C; Pereira, A; Barroso, R; da Graca, M; Tome, T; Pinto, F; Vento, M; Rodilla, JM; Luz, M; Pico, C; Camprubi, MC; Suazo, JAH; Valverde, E; Lorenzo, JRF; Orgado, JM; Boix, H; Parrilla, FJ; Blanco, D; Moral-Pumarega, MT; Bassler, D; Maletzki, J; Knoepfli, C; Hagmann, C; Kleber, M; Schulzke, S; Stocker, M; Birkenmaier, A; Riedel, T; ALBINO Study Grp. Effect of allopurinol in addition to hypothermia treatment in neonates for hypoxic-ischemic brain injury on neurocognitive outcome (ALBINO): study protocol of a blinded randomized placebo-controlled parallel group multicenter trial for superiority (phase. *BMC PEDIATRICS*. 2019; 19 -. FI: 1.909. Cuartil: 2. (Article).
- Lui, K; Lee, SK; Kusuda, S; Adams, M; Vento, M; Reichman, B; Darlow, BA; Lehtonen, L; Modi, N; Norman, M; Hakansson, S; Bassler, D; Rusconi, F; Lodha, A; Yang, JM; Shah, PS; Marshall, P; Schmidt, P; Dhawan, A; Craven, P; de Waal, K; Simmer, K; Gill, A; Pillow, J; Stack, J; Birch, P; Cooke, L; Casalaz, D; Holberton, J; Stewart, A; Downe, L; Stewart, M; Bajuk, B; Berry, A; Hunt, R; Kilburn, C; De Paoli, T; Bolisetty, S; Paradisis, M; Rieger, I; Koorts, P; Kuschel, C; Doyle, L; Numa, A; Carlisle, H; Badawi, N; Loughran-Fowlds, A; Koh, G; Davis, J; Luig, M; Andersen, C; Chambers, G; Austin, N; Lynn, A; Darlow, B; Edmonds, L; Mildenhall, L; Buksh, M; Battin, M; van den Boom, J; Bouchier, D; Richardson, V; Dineen, F; Rajadurai, VS; Lam, S; Fung, G; Harrison, A; Synnes, A; Cieslak, Z; Sherlock, R; Yee, W; Aziz, K; Fajardo, C; Kalapesi, Z; Sankaran, K; Daspal, S; Seshia, M; Alvaro, R; Mukerji, A; Da Silva, O; Nwaesei, C; Lee, KS; Dunn, M; Lemyre, B; Dow, K; Pelausa, E; Barrington, K; Drolet, C; Piedboeuf, B; Claveau, M; Beltempo, M; Bertelle, V; Masse, E; Canning, R; Makary, H; Ojah, C; Monterrosa, L; Deshpandey, A; Afifi, J; Kajetanowicz, A; Andersson, S; Tammela, O; Sankilampi, U; Saarela, T; Prazad, P; Noguchi, A; McWan, K; Button, B; Stratton, W; Hamvus, A; Raghaven, A; Derrick, M; Hadley, R; Covert, R; Lablanc, O; Weiss, M; Bell, A; Shareef, M; Silvestri, J; Heymann, E; Zangen, S; Smolkin, T; Mimouni, F; Bader, D; Rothschild, A; Strauss, Z; Felszer, C; Omari, H; Tov-Friedman, SE; Bar-Oz, B; Feldman, M; Saad, N; Flidel-Rimon, O; Weisbrod, M; Lubin, D; Litmanovitz, I; Kugelman, A; Shinwell, E; Klinger, G; Nijim, Y; Bin-Nun, A; Golan, A; Mandel, D; Fleisher-Sheffer, V; Kohelet, D; Bakhrakh, L; Hattori, S; Shirai, M; Ishioka, T; Mori, T; Amizuka, T; Huchimukai, T; Yoshida, H; Sasaki, A; Shimizu, J; Nakamura, T; Maruyama, M; Matsumoto, H; Hosokawa,

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- Núñez-Ramiro, A; Benavente-Fernández, I; Valverde, E; Cordeiro, M; Blanco, D; Boix, H; Cabanas, F; Chaffanel, M; Fernández-Colomer, B; Fernández-Lorenzo, JR; Kuligowski, J; Loureiro, B; Moral-Pumarega, MT; Pavon, A; Sánchez-Illana, A; Tofe, I; Hervas, D; García-Robles, A; Parra-Llorca, A; Cernada, M; Martínez-Rodilla, J; Lorente-Pozo, S; Llorens, R; Marqués, R; Vento, M; Hypotop Study Grp. Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. NEONATOLOGY. 2019; 116(1) 76-84. FI: 2.742. Cuartil: 1. (Article).
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#### **Publications of the main WOS collection in journals without impact factor**

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due to maternal uniparental disomy. CASE REPORTS IN PERINATAL MEDICINE. 2019; 8(1) -. (Article).

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Barrington, K; Drolet, C; Piedboeuf, B; Claveau, M; Beltempo, M; Bertelle, V; Masse, E; Canning, R; Mabry, H; Ojah, C; Monterrosa, L; Deshpandey, A; Afifi, J; Kajetanowicz, A; Andersson, S; Tammela, O; Sankilampi, U; Saarela, T; Prazad, P; Noguchi, A; McWan, K; Button, B; Stratton, W; Hamvus, A; Raghaven, A; Derrick, M; Hadley, R; Covert, R; Lablanc, O; Weiss, M; Bell, A; Shareef, M; Silvestri, J; Heymann, E; Zangen, S; Smolkin, T; Mimouni, F; Bader, D; Rothschild, A; Strauss, Z; Felszer, C; Oman, H; Toy-Friedman, SE; Bar-Oz, B; Feldman, M; Saad, N; Flidel-Rimon, O; Weisbrod, M; Lubin, D; Litmanovitz, I; Kngelman, A; Shinwell, E; Klinger, G; Nijim, Y; Bin-Nun, A; Golan, A; Mandel, D; Fleisher-Sheffer, V; Kohelet, D; Bakhrakh, L; Hattori, S; Shirai, M; Ishioka, T; Mori, T; Amiznka, T; Huchimukai, T; Yoshida, H; Sasaki, A; Shimizu, J; Nakamura, T; Maruyama, M; Matsumoto, H; Hosokawa, S; Taki, A; Nakagawa, M; Ko, K; Uozumi, A; Nakata, S; Shimazaki, A; Yoda, T; Numata, O; Imamura, H; Kobayashi, A; 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The International Network for Evaluating Outcomes (iNeo) of neonates: evolution, progress and opportunities. TRANSLATIONAL PEDIATRICS. 2019; 8(3) 170-. (Review).



## 7.25. Artificial circulation laboratory

Group director: **JUAN FRANCISCO DEL CAÑIZO LÓPEZ**

Organisms involved: **HUGGM**

Type: **Emerging Group**

### Research lines

- ▶ L1: Circulatory support devices. Effects of the different types of flow (pulsatile and nonpulsatile) on perfusion of different organs. Leader: Manuel Ruiz Fernández
- ▶ L2: Normothermic perfusion of the isolated liver. Leader: Andrés Rivera Muñoz.
- ▶ L3: Decellularization of the liver. Leader: Ignacio Fernández López.
- ▶ L4: 3D printing of tissues. Leader: Juan Francisco del Cañizo.
- ▶ L5: Simulation of various medical devices. Leader: Juan Francisco del Cañizo.

**E**xperimental group in multidisciplinary animal research composed of professional specialists (cardiac surgery, general surgery, plastic surgery, anesthesia, veterinary, nursing and laboratory technician), which develops several lines of experimental surgical research in liver transplantation pathology, ventricular assistance, 3D organ printing and simulation models. Description of the research group.

### Group members

- **Barrio Gutiérrez, José M<sup>a</sup>:** R2. Recognised Researcher.
- **Beneyto Cruz, Rosario:** Otros. Técnico.
- **Cuerpo Caballero, Gregorio Pablo:** R2. Recognised Researcher.
- **Del Cañizo López, Juan Francisco:** R4. Leading Researcher.
- **Fernández López, Ignacio:** R1. First Stage Researcher.
- **Pérez-Caballero Martínez, Ramón:** R2. Recognised Researcher.
- **Rivera Muñoz, Andrés:** : R1. First Stage Researcher.
- **Ruiz Fernández, Manuel:** R3. Established Researcher.
- **Sicilia Alonso, Javier:** R2. Recognised Researcher.
- **Zamorano Serrano, José Ángel.**



## Research Projects – Competitive Calls

- 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: 31/12/2020
- Title: Perfusión normotérmica de hígado para recuperación de hígados marginales. Isquemia ccaliente, esteatosis y discrepancia de tamaño.**  
 PI15/01987  
 Director: Del Cañizo López, Juan Francisco  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 30/09/2019
- Title: Nuevas Tecnologías de Fabricación y Optimización de Tejidos : La Piel como sistema Modelo**PEJ2018-004026-A  
 Director: Del Cañizo López, Juan Francisco  
 Project type: Programa de Actividades de I+D en Biomedicina  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 06/03/2019  
 End date: 06/03/2023
- Title: Mejora de las prestaciones del area quirurgica del servicio de medicina y cirugia experimental para el apoyo a los investigadores del Instituto de Investigacion Sanitaria del Hospital Gregorio Marañón** S2018/BAA-4480  
 Director: Del Cañizo López, Juan Francisco  
 Project type: Human Resources  
 Funding body: MICINN  
 Start date: 01/01/2019  
 End date: 31/12/2020

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
ISCIII Platform	ITEMAS Innovación en Tecnologías Médicas y Sanitarias PT13/0006/0001	Collaborating group

## Industrial and intellectual property registrations

### Industrial property

Title	Reference*	Owner	Inventors
Equipo y simulación para control de hemorragias	P201730568	FIBHGM – Medical Simulator	Manuel Desco, Juan Francisco del Cañizo
Método y aparato de hemodiafiltración	PCT/ES2007/070081 (Familia con 3 patentes)	FIBHGM	Juan Francisco del Cañizo
Dispositivo de asistencia ventricular	P201331422	FIBHGM	Juan Francisco del Cañizo, Manuel Ruiz
Dispositivo para prevenir la neumonía asociada a ventilación mecánica	U 2014 30814	FIBHGM	Juan Francisco del Cañizo, Emilio Bouza, M <sup>a</sup> Jesús Pérez
Dispositivo para bombeo de sangre de forma tubular, con válvulas activas gobernado por vacío y aplicación del mismo	P9501070 (Familia con 14 patentes)	SERMAS - HGUGM	Juan Francisco del Cañizo

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

## 7.25. ARTIFICIAL CIRCULATION LABORATORY

### Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date defended
Ph Thesis	Irene González del Pozo	Biomarcadores de daño oxidativo y defensa antioxidante en el paciente con hipertrofia ventricular. Estudio observacional, prospectivo y comparativo en pacientes pendientes de cirugía cardiaca	Maria Begoña Quintana Villamandos, Juan Francisco del Cañizo López	UCM	18/09/2019

### Publications

Total Impact Factor: 55.3

	Nº	IF
Own publications	2	4.4
Joint publications	10	50.8
First decile publications	3	34.3
First quartile publications	6	44.3
Second quartile publications	2	6.6
Third quartile publications	2	3.2
Fourth quartile publications	2	1.3
Nonindexed publications / No IF	9	-
<b>Total publications (including those without IF)</b>	<b>21</b>	<b>55.3</b>

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

- Gil-Jaurena, JM; Pérez-Caballero, R; Pardo, C. Upper Ministernotomy for Pulmonary Valve Repair. ANNALS OF THORACIC SURGERY. 2019; 107(5) 305-306. FI: 3.639. Cuartil: 1. (Editorial Material).
- Gil-Jaurena, JM; Pérez-Caballero, R; Pita, A; Pardo, C. Paracorporeal Connection to Heart-Lung Machine in Transplant Surgery With the Berlin Heart Ventricular Assist Device. ANNALS OF THORACIC SURGERY. 2019; 107(2) 151-152. FI: 3.639. Cuartil: 1. (Article).
- Llopis, J; González-Ramallo, V; Goenaga, MA; García-Leoni, ME; Fariñas, MC; Oteo, JA; Carrizo, E; Reguera-Iglesias, JM; Hidalgo-Tenorio, C; Sánchez, FF; Noureddine, M; Rosas, G; Lima, JD; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; López-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodríguez, R; Vitoria, Y; Voces, R; López, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverría, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idígoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Álvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J; Llinares, P; Rey, EM; Mayo, MR; Sánchez, E; Regueiro, DS; Martínez, FJ; Alonso, MD; Castro, B; Rosado, DG; Duran, MD; Gómez, MAM; Lacalzada, J; Nassar, I; Ciezar, AP; Iglesias, JMR; Álvarez, VA; Costas, C; de la Hera, J; Suárez, JF; Fraile, LI; Arguero, VL; Menéndez, JL; Bajo, PM; Morales, C; Torrico, AM; Palomo, C; Martínez, BP; Esteban, AR; García, RR; Asensio, MT; Almela, M; Ambrosioni, J; Azqueta, M; Brunet, M; Bodro, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la María, CG; García-Valls, L; Hernández-Meneses, M; Pérez, JL; Marco, F; Miro, JM; Moreno, A; Nicolas, D; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramírez, J; Rovira, I; Sandoval, E; Sala, M; Sitges, M; Soy, D; Tellez, A; Tolosana, JM; Vidal, B; Vila, J; Adán, I; Bermejo, J; Bouza, E; Celemin, D; Caballero, GC; Montero, AD; Cruz, AF; Mansilla, AG; Leoni, MEG; Ramallo, VG; Hernández, MK; Hualde, AM; Marín, M; Martínez-Selles, M; Menarguez, MC; Muñoz, P; Rincón, C; Rodríguez-Abella, H; Rodríguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Vázquez, P; Moreno, EV; Antorrena, I; Loeches, B; Quirós, AM; Moreno, M; Ramírez, U; Baston, VR; Romero, M; Saldana, A; Balbín, JA; Castillo, CA; Arnaiz, A; Revillas, FADL; Belaustegui, MC; Fariñas, MC; Fariñas-Álvarez, C; Izquierdo, RG; García, I; Rico, CG; Gutiérrez-Cuadra, M; Díez, JG; Pajarón,

M; Parra, JA; Teira, R; Zarauza, J; Domínguez, F; Pavia, PG; González, J; Orden, B; Ramos, A; Centella, T; Hermida, JM; Moya, JL; Martín-Dávila, P; Navas, E; Oliva, E; del Río, A; Stuart, JRR; Rodríguez, SR; Tenorio, CH; Delia, MA; Araji, O; Barquero, JM; Jambrina, RC; de Cueto, M; Acebal, JG; Mendez, I; Morales, I; López-Cortés, LE; de Alarcón, A; García, E; Haro, JL; Lepe, JA; López, F; Luque, R; Alonso, LJ; Azcarate, P; Gutiérrez, JMA; Blanco, JR; García-Álvarez, L; Oteo, JA; Sanz, M; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Álvarez, M; Fernández, AL; Martínez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; López, AM; de Zarate, ZO; Matos, JAU; Domínguez, GG; Sánchez-Porto, A; Leal, JMA; Vázquez, EG; Torres, AH; Blázquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodríguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JH; Yanez, IK; Ballesta, AP; Soriano, V; Escobar, EM; Monje, AP; Cabrera, VS; García, DV; Asenjo, MA; Luna, CC; Morcillo, JN; Seco, MCP; Gelabert, AV; Guallar, CA; Abad, NF; Mangas, PG; Adell, MM; Ruiz, MPP; Porres, JC; Vidal, BA; Trigueros, NC; Espin, MJD; Caro, JAG; Sánchez, RJ; Almazán, AJ; Freire, AO; González, MV; Ramis, PP; Blanco, MAR; Bordes, ERD; Bonet, LV; Munera, MCB; Garaizabal, EE; Martínez, AT; Luque, JCS; Spanish Collaboration Endocarditis. Outpatient Parenteral Antibiotic Treatment for Infective Endocarditis: A Prospective Cohort Study From the GAMES Cohort. CLINICAL INFECTIOUS DISEASES. 2019; 69(10) 1690-1700. FI: 8.313. Cuartil: 1. (Article).

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- Cuerpo, GP; Valerio, M; Pedraz, A; Rodríguez-Abella, H; Mestres, CA; Obrador, EQ; González-Calle, A; Álvarez, RR; García, PM; Bouza, E; Sánchez, FF; Nouredine, M; Rosas, G; Lima, JD; Aramendi, J; Bereciartua, E; Blanco, MJ; Blanco, R; Boado, MV; Lazaro, MC; Crespo, A; Goikoetxea, J; Iruretagoyena, JR; Zuazabal, JI; López-Soria, L; Montejo, M; Nieto, J; Rodrigo, D; Rodríguez, D; Rodríguez, R; Vitoria, Y; Voces, R; López, MVG; Georgieva, RI; Ojeda, G; Bailon, IR; Morales, JR; Cuende, AM; Echeverría, T; Fuerte, A; Gaminde, E; Goenaga, MA; Idigoras, P; Iribarren, JA; Yarza, AI; Urkola, XK; Reviejo, C; Carrasco, R; Climent, V; Llamas, P; Merino, E; Plazas, J; Reus, S; Álvarez, N; Bravo-Ferrer, JM; Castelo, L; Cuenca, J;

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## 7.25. ARTIFICIAL CIRCULATION LABORATORY

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Martínez, BP; Esteban, AR; Asensio, MT; Ambrosioni, J; Armero, Y; Azqueta, M; Brunet, M; Cartana, R; Falces, C; Fita, G; Fuster, D; de la María, CG; Gatell, JM; Pérez, JL; Manzardo, C; Marco, F; Miro, JM; Moreno, A; Ninot, S; Quintana, E; Pare, C; Pereda, D; Pericas, JM; Pomar, JL; Ramírez, J; Rovira, I; Sitges, M; Soy, D; Tellez, A; Vidal, B; Vila, J; Bermejo, J; Bouza, E; Cuerpo, G; de Egea, V; Eworo, A; Cruz, AF; Leoni, MEG; del Vecchio, MG; Ramallo, VG; Hernández, MK; Martínez-Selles, M; Menarguez, MC; Muñoz, P; Rincón, C; Rodríguez-Abella, H; Rodríguez-Creixems, M; Pinilla, B; Pinto, A; Valerio, M; Moreno, EV; Antorrrena, I; Loeches, B; Moreno, M; Ramírez, U; Baston, VR; Romero, M; Saldana, A; Castillo, CA; Arnaiz, A; Berrazueta, J; Bellisco, S; Belaustegui, MC; Duran, R; Fariñas-Álvarez, C; Mazarrasa, CF; Izquierdo, RG; Rico, CG; Díez, JG; Duran, RM; Pajarón, M; Parra, JA; Teira, R; Zarauza, J; Pavia, PG; González, J; Orden, B; Ramos, A; González, ER; Centella, T; Hermida, JM; Moya, JL; Martín-Dávila, P; Oliva, E; del Río, A; Ruiz, S; Tenorio, CH; de Castro, A; de Cueto, M; Gallego, P; Acebal, JG; Bano, JR; García, E; Haro, JL; Lepe, JA; López, F; Luque, R; Alonso, LJ; Azcarate, P; Gutiérrez, JMA; Blanco, JR; de Benito, N; Gurgui, M; Pacho, C; Pericas, R; Pons, G; Álvarez, M; Fernández, AL; Martínez, A; Prieto, A; Regueiro, B; Tijeira, E; Vega, M; Blasco, AC; Mollar, JC; Arana, JCG; Uriarte, OG; López, AM; de Zarate, ZO; Matos, JAU; Nacle, MB; Sánchez-Porto, A; Vallejo, L; Leal, JMA; Vázquez, EG; Torres, AH; Blázquez, A; Valenzuela, GD; Alonso, A; Aramburu, J; Calvo, FE; Rodríguez, AM; Tarabini-Castellani, P; Galvez, EH; Bellido, CM; Pau, JL; Sepulveda, MA; Sierra, PT; Iqbal-Mirza, SZ; Alcolea, EC; Serrano, PE; Roca, JJH; Escobar, EM; Monje, AP; Cabrera, VS; García, DV; Luna, CC; Morcillo, JN; Seco, MCP; Spanish Collaboration Endocarditis. Antimicrobial management of *Tropheryma whipplei* endocarditis: the Spanish Collaboration on Endocarditis (GAMES) experience. *JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY*. 2019; 74(6) 1713-1717. FI: 5.439. Cuartil: 1. (Article).

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- Riveiro, AS; González, JCN; Barrio, JM. Systemic Sclerosis after Bone Marrow Transplantation: A Case with Evidence of Donor-related Disease Transfer. *JOURNAL OF RHEUMATOLOGY*. 2019; 46(9) 1246-1247. FI: 3.35. Cuartil: 2. (Letter).
- Prieto-Arevalo, R; Muñoz, P; Cuerpo, G; Mari-Hualde, A; Castelo-Corral, L; Navas-Elorza, E; Cifuentes-Luna, C; Alonso-Socas, MD; Boix-Palop, L;

Martínez-Selles, M; Spanish Collaboration Endocarditis. Pulmonary Infective Endocarditis. *JOURNAL OF THE AMERICAN COLLEGE OF CARDIOLOGY*. 2019; 73(21) 2782-2784. FI: 20.589. Cuartil: 1. (Letter).

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

- López, LP; Hernández, TC; Menéndez, JL; Caballero, GC; Pérez, RS; Hernández, VB; Guisasola, JS; García-Verdugo, FG; Sos, FH; Grp Trabajo Cardiopatías Congenita; Soc Espanola Cirugia Toracica-Card. Spanish Society of Thoracic-Cardiovascular Surgery registry of interventions in patients with congenital heart disease: 2018, and retrospective of the last 7 years. *CIRUGIA CARDIOVASCULAR*. 2019; 26 35-41. (Review).
- Gil-Jaurena, JM; Pérez-Caballero, R; Pita, A; González-López, MT; Pardo, C; Zamorano, JA; Ramírez, B; Pérez, R; González-Pinto, A. Transplant for congenital heart defects. Tips and pitfalls. *CIRUGIA CARDIOVASCULAR*. 2019; 26 24-29. (Review).
- Pita-Fernández, A; Gil-Jaurena, JM; Pérez-Caballero-Martínez, R; Pardo-Pardo, C; González-López, MT; Rodríguez-Abella-González, H; Irabien-Ortiz, A; Pérez-Pérez, R; Ramírez-Gómez, B; Zamorano-Serrano, J; González-Pinto, A. ABO-incompatible heart transplant in pediatric population. *CIRUGIA CARDIOVASCULAR*. 2019; 26(2) 104-123. (Review).
- Cuerpo, G; Carnero, M; Sos, FH; López, LP; Hernández, TC; Gascón, P; Pedraz, A; Cuenca, J; Silvaj, J; Menéndez, JL; Soc Espanola Cirugia Toracica Card. Cardiovascular surgery in Spain performed in 2018. National registry of interventions of the Spanish Society of Thoracic-Cardiovascular Surgery. *CIRUGIA CARDIOVASCULAR*. 2019; 26(1) 8-27. (Article).
- Sos, FH; Hernández, TC; López, LP; Menéndez, JL; Lucio, CAM; Munguira, JB; García-Puente, J; Sorli, MJD; Guisasola, JS; Nazar, BA; de Ibarra, JIS; Espin, GS; Leal, JMA; Martín, CP; Lecoq, RR; Aroca, JMB; Caballero, GPC; Hernández, VB; Pérez, RS; Legname, V; Garrido, JM; Castillo, JJC; González, ALF; García-Tornel, MJ. SECTCV recommendations document in cardiovascular surgery. 2019 updating of the standards in organization, professional activity, quality of health-care, and training in the specialty. *CIRUGIA CARDIOVASCULAR*. 2019; 26(6) 265-276. (Article).

## 7.25. ARTIFICIAL CIRCULATION LABORATORY

- Menéndez, JL; Caballero, GC; Hernández, TC; López, LP; Guisasaola, JS; García-Verdugo, PG; Sos, FH. Cardiovascular surgery in Spain performed in 2017. National registry of interventions of the Spanish Society of Thoracic-Cardiovascular Surgery. CIRUGIA CARDIOVASCULAR. 2019; 26(6) 248-264. (Article).
- Fernández-Bautista, B; Mata, DP; Parente, A; Pérez-Caballero, R; De Agustin, JC. First Experience with Fluorescence in Pediatric Laparoscopy. EUROPEAN JOURNAL OF PEDIATRIC SURGERY REPORTS. 2019; 7(1) -. (Article).
- Benito-Saz, P; Garrido, A; Quintana-Villamandos, B; Barrio, JM; Ferrnande-Quero, L; Hortal, J. Perforation of the left ventricle wall due to the insertion of a pulmonary artery catheter. A case report. REVISTA ESPANOLA DE ANESTESIOLOGIA Y REANIMACION. 2019; 66(10) 528-532. (Article).

### **Other publications**

- Velasquez-Rodríguez J; Zatarain-Nicolás E; Barrio JM; Ruiz-Fernández M; Valerio M; Fernández-Avilés F. Enterocutaneous Fistula After Heart Transplant: A Consequence of a Left Ventricular Assist Device. REVISTA ESPANOLA DE CARDIOLOGIA (ENGLISH ED.). 2019; 72(7) 595-596. (Article).



## 7.26. Evaluation of health services and clinical epidemiology

Group director: ROSA PLÁ MAESTRE

Organisms involved: HGUGM

Type: Emerging Group

### Research lines

#### Axis 1: Precision medicine, innovation, regenerative medicine, and big data

- ▶ Line 1: Evaluation of health services and public health programs. Leader: Rosa Plá Mestre.
- ▶ Line 2: Patient safety and management of risks resulting from clinical practice. Leader: Alicia Díaz Redondo.
- ▶ Line 3: Prevention of health care-related infections. Leader: Dolores Vigil Escribano.

#### Axis 2: Boosting research in primary care and nursing

- ▶ Line 1: Evaluation of health services and public health services.

### Group members

- Díaz Redondo, Alicia: R1. First Stage Researcher.
- Grande Armesto, Marta Beatriz: R1. First Stage Researcher.
- Izquierdo Membrilla, M<sup>a</sup> Isabel: R1. First Stage Researcher.
- Llorente Parrado, César: R3. Established Researcher.
- López Fresneña, Nieves: R3. Established Researcher.
- Molina Villaverde, Diana.
- Nieto Pereda, Beatriz: R1. First Stage Researcher.
- Plá Mestre, Rosa: R4. Leading Researcher.
- Puente González, Dolores: R1. First Stage Researcher.
- Vigil Escribano, M<sup>a</sup> Dolores.
- Zoni Matta, Ana Clara: R1. First Stage Researcher.

### Publications

Total Impact Factor: 4.4

	Nº	IF
Own publications	0	0.0
Joint publications	2	4.4
First decile publications	0	-
First quartile publications	0	0.0
Second quartile publications	1	3.5
Third quartile publications	0	0.0
Fourth quartile publications	1	0.9
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>3</b>	<b>4.4</b>

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

- Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodríguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. *QUALITY MANAGEMENT IN HEALTH CARE*. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).
- Miranda-Bautista, J; Verdejo, C; Díaz-Redondo, A; Breton, I; Bellón, JM; Pérez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; González-Rio, E; García-Sánchez, C; Marín-Jiménez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. *THERAPEUTIC ADVANCES IN GASTROENTEROLOGY*. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).

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

- Nieto-Benito, LM; Vilas-Boas, P; Zaballos, M; Llorente-Parrado, C; Avilés-Izquierdo, JA. Recommendations on Testing Before Outpatient Dermatologic Surgery. *ACTAS DERMO-SIFILIOGRAFICAS*. 2019; 110(6) 469-473. (Article).



## 7.27. Hospital pharmacy and pharmacogenomics

Group director: **MARÍA SANJURJO SÁEZ**

Organisms involved: **HGUGM**

Type: **Consolidates Group**

### Research lines

**Axis 1: Drug therapy and safety.** Leader: María Sanjurjo Sáez

- ▶ Line 1: Pharmaceutical care and quality in drug therapy.
- ▶ Line 2: Safety in the medication use process.
- ▶ Line 3: Development and professional competence.

**Axis 2. Pharmacogenetics and pharmacogenomics.** Leader: Luis Andrés López Fernández

- ▶ Line 1: Pharmacogenetics and pharmacogenomics.

### Group members

- **Abarca Zabalia, Judith:** R1. First Stage Researcher.
- **Ais Larisgoitia, M<sup>a</sup> Aránzazu:** R1. First Stage Researcher.
- **Amor García, Miguel Ángel:** R1. First Stage Researcher.
- **Aragoneses Durán, M<sup>a</sup> Guadalupe:** R1. First Stage Researcher.
- **Chamorro de Vega, Esther:** R2. Recognised Researcher.
- **Collado Borrel, Roberto:** R2. Recognised Researcher.
- **De Lorenzo Pinto, Ana:** R2. Recognised Researcher.
- **Durán García, M<sup>a</sup> Esther:** R2. Recognised Researcher.
- **Escudero Vilaplana, Vicente:** R2. Recognised Researcher.
- **García Martín, Estela:** R1. First Stage Researcher.
- **García Moreno, Félix Jesús:** R1. First Stage Researcher.
- **García Sánchez, Raquel:** R1. First Stage Researcher.
- **García Sánchez, Sebastián:** R2. Recognised Researcher.
- **García González, Xandra:** R1. First Stage Researcher.
- **Giménez Manzorro, Álvaro:** R2. Recognised Researcher.
- **Gómez Martínez-Sagrera, Patricia:** R1. First Stage Researcher.

- **González Ruiz, Lucía:** R1. First Stage Researcher.
- **González-Haba Peña, Eva:** R2. Recognised Researcher.
- **Herranz Alonso, Ana:** R2. Recognised Researcher.
- **Ibáñez García, Sara:** R2. Recognised Researcher.
- **Lobato Matilla, M<sup>a</sup> Elena:** R1. First Stage Researcher.
- **López Fernández, Luis Andrés:** R3. Established Researcher.
- **Manrique Rodríguez, Sílvia:** R2. Recognised Researcher.
- **Martín Barbero, M<sup>a</sup> Luisa:** R1. First Stage Researcher.
- **Martínez Fernández-Llamazares, Cecilia:** R2. Recognised Researcher.
- **Martínez Ortega, Pilar:** R1. First Stage Researcher.
- **Marzal Alfaro, M<sup>a</sup> Belén:** R2. Recognised Researcher.
- **Melgalejo Ortuño, Alejandra:** R1. First Stage Researcher.
- **Mur Mur, Ana:** R1. First Stage Researcher.
- **Narrillos Moraza, Álvaro.**
- **Ortega Navarro, M<sup>a</sup> Cristina:** R1. First Stage Researcher.
- **Pernia López, M<sup>a</sup> Sagrario:** R1. First Stage Researcher.
- **Revuelta Herrero, José Luis:** R1. First Stage Researcher.
- **Ribed Sánchez, Almudena:** R2. Recognised Researcher.
- **Rodríguez González, Carmen Guadalupe:** R2. Recognised Researcher.
- **Romero Jiménez, Rosa M<sup>a</sup>:** R2. Recognised Researcher.
- **Ruiz Briones, Paula:** R1. First Stage Researcher.
- **Salvador Martín, Sara:** R1. First Stage Researcher.
- **Sánchez Fresneda, M<sup>a</sup> Norberta:** R1. First Stage Researcher.
- **Sanjurjo Sáez, María:** R4. Leading Researcher.
- **Sarobe González, Camino:** R1. First Stage Researcher.
- **Sevilla Fernández, Paula:** R1. First Stage Researcher.
- **Somoza Fernández, Beatriz:** R1. First Stage Researcher.
- **Taladriz Sender, Irene:** R1. First Stage Researcher.
- **Vicente Valor, Juan:** R1. First Stage Researcher.
- **Villanueva Bueno, Cristina:** R1. First Stage Researcher.

### Research Projects – Competitive Calls

- Title: Factores farmacogenómicos y monitorización terapéutica como predictores de respuesta a anti-TNFs en enfermedad inflamatoria intestinal en niños.** PI16/00559  
 Director: López Fernández, Luis Andrés  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Young employment contract: Predoctoral.** PEJD-2018-PRE/BMD-8665  
 Director: López Fernández, Luis Andrés  
 Project type: Human resources  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2019  
 End date: 31/12/2020

### Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
ISCIII Platform	SCREn: Spanish Clinical Research Network	Collaborating group

### Industrial and intellectual property registrations

#### Intellectual property

Title	Reference	Owner	Inventors
Manual para la creación de una unidad funcional de terapias biológicas en pacientes con artritis crónicas	Nº Asiento Registral: 16/2013/5179	FIBHGM	Luis Carreño, Inmaculada de la Torre, Larissa Valor, Tamara del Río, Vicente Escudero, Diana Hernández, Carmen Rodríguez
Recomendaciones sobre el manejo de Infecciones Fúngicas Invasoras (IFIs)	Nº Asiento Registral: 16/2014/5265	FIBHGM	Patricia Muñoz, Emilio Bouza, María Sanjurjo, Carmen Rodríguez, Maricela Valerio
Curso sobre el manejo seguro de los sistemas automatizados de dispensación por el personal sanitaria de Research in nursing de planta y evaluación de su competencia	Nº Asiento Registral: 16/2015/503	FIBHGM	Elena Lobato, María Sanjurjo, Ana Herranz, Carmen Rodríguez
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, Almudena Ribed, Roberto Collado, Sara Ibáñez
NefroRules: Reglas clínicas para aumentar la seguridad del tratamiento en pacientes con insuficiencia renal	Nº Asiento Registral: 16/2016/989	FIBHGM	Sara Ibáñez, María Sanjurjo, Ana Herranz, Carmen Rodríguez, Mª Luisa Martín, Mª Ángeles Goicoechea, Eduardo Verde, José Luño
Thromborules: reglas clínicas para aumentar la seguridad del tratamiento en pacientes anticoagulantes/ antiagregados	Nº Asiento Registral: 16/2017/507	FIBHGM	Sara Ibáñez, Ana de Lorenzo, Ana Herranz, María Sanjurjo, Ana María Rodríguez

Continued on next page

## Industrial and intellectual property registrations (Cont.)

### Intellectual property

Title	Reference	Owner	Inventors
Control-Sugar24: calculadora para la insulinización subcutánea del paciente diabético durante las primeras 24 horas de atención hospitalaria	Nº asiento registro: 16/2017/6705	FIBHGM	Ana de Lorenzo, María Sanjurjo, Raquel García, Rogelio García
PK-GUIDE: Guía para monitorización clínica de fármacos	Nº asiento registro: 16/2017/6956	FIBHGM	Xandra García, Sara Ibáñez, Ana Herranz, Gema Sánchez, Gabriela Rodríguez, 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 registro: 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
Biblioteca de fármacos para bombas de infusión inteligentes en las unidades de cuidados intensivos pediátricos	Nº Asiento Registral: 16/2011/7360	FIBHGM	Amelia Caridad Sánchez y Silvia Manrique Rodríguez

■ Transferred Intellectual Property.

## Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Ph Thesis	Bartosz Kaczmarczyk	Identificación de polimorfismos en el gen DPYD en pacientes con toxicidad grave a fluoropirimidinas	Luis Andrés López Fernández, Eva Miedes Vicente	UPM	11/07/2019
Ph Thesis	María Belén Marzal Alfaro	Modelo de excelencia en la atención farmacéutica al paciente oncohematológico en el ámbito hospitalario	Irene Iglesias Peinado, Vicente Escudero Vilaplana, Carmen Guadalupe Rodríguez González	UCM	03/04/2019
Ph Thesis	Roberto Collado Borrell	Diseño e implantación de una aplicación móvil para el seguimiento farmacoterapéutico de pacientes en tratamiento con antineoplásicos orales	Vicente Escudero Vilaplana, Rosa María Romero Jiménez, Irene Iglesias Peinado	UCM	21/10/2019

## 7.27. HOSPITAL PHARMACY AND PHARMACOGENOMICS

Publications		Total Impact Factor: 69.1
	Nº	IF
Own publications	15	31,8
Joint publications	12	37,3
First decile publications	3	18,1
First quartile publications	7	33,6
Second quartile publications	3	8,8
Third quartile publications	5	10,5
Fourth quartile publications	12	16,1
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>27</b>	<b>69.1</b>

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

- Fernández-Cruz, A; Alba, N; Semiglia-Chong, MA; Padilla, B; Rodríguez-Macias, G; Kwon, M; Cercenado, E; Chamorro-de-Vega, E; Machado, M; Pérez-Lago, L; de Viedma, DG; Martín, JLD; Muñoz, P. A Case-Control Study of Real-Life Experience with Ceftriaxone-Tazobactam in Patients with Hematologic Malignancy and Pseudomonas aeruginosa Infection. *ANTIMICROBIAL AGENTS AND CHEMOTHERAPY*. 2019; 63(2) -. FI: 4.904. Cuartil: 1. (Article).
- Ibáñez-García, S; Rodríguez-González, C; Escudero-Vilaplana, V; Martín-Barbero, ML; Marzal-Alfaro, B; De la Rosa-Trivino, JL; Iglesias-Peinado, I; Herranz-Alonso, A; Saez, MS. Development and Evaluation of a Clinical Decision Support System to Improve Medication Safety. *APPLIED CLINICAL INFORMATICS*. 2019; 10(3) 513-520. FI: 2.147. Cuartil: 3. (Article).
- Mohedano, AMI; Pastor, AG; Pinto, AD; Núñez, ACG. Bolus-to-Infusion Time in Stroke Patients Treated with Alteplase on the CT Table: A Clinical Concern.

CEREBROVASCULAR DISEASES. 2019; 48(1-2) 96-97. FI: 2.698. Cuartil: 2. (Editorial Material).

- Laserna-Mendieta EJ; Salvador-Martín S; Arias-González L; Ruiz-Ponce M; Menchén LA; Sánchez C; López-Fernández LA; Lucendo AJ. Comparison of a new rapid method for the determination of adalimumab serum levels with two established ELISA kits. *CLINICAL CHEMISTRY AND LABORATORY MEDICINE*. 2019; 57(12) 1906-1914. FI: 3.595. Cuartil: 1. (Article).
- Arhip, L; García-Peris, P; Romero, RM; Frías, L; Breton, I; Cambor, M; Mottilla, M; Velasco, C; Morales, A; Carrascal, ML; Herranz, A; Sanjurjo, M; Cuerda, C. Direct costs of a home parenteral nutrition programme. *CLINICAL NUTRITION*. 2019; 38(4) 1945-1951. FI: 6.36. Cuartil: 1. (Article).
- Higuera-Pulgar, I; Ribed, A; Carrascal-Fabian, ML; Romero-Jiménez, RM; Velasco-Gimeno, C; Breton-Lesmes, I; Cambor-Álvarez, M; Cuerda-Compes, C; García-Peris, P. Evolution of nutritional status and survival in patients with cancer on tyrosine kinase inhibitors treatment. *ENDOCRINOLOGIA DIABETES Y NUTRICION*. 2019; 66(8) 472-479. FI: 1.18. Cuartil: 4. (Article).
- Montecatine-Alonso, E; Gil-Navarro, MV; Fernández-Llamazares, CM; Fernández-Polo, A; Soler-Palacin, P; Llorente-Gutiérrez, J; Calvo, MTGT; Esquivel-Mora, MD; Pérez-Rodrigo, I; Cisneros, JM; Goycochea-Valdivia, WA; Neth, O; Benito, CAV; Chavarri-Gil, E; Gallego-Fernández, C; Moreno-Pérez, D; Dolz, E; Tagarro-García, A; Rumbao-Aguirre, J; Gutiérrez-Urbon, JM; Paediat Antimicrobial Defined. Antimicrobial defined daily dose adjusted by weight: a proposal for antibiotic consumption measurement in children. *ENFERMEDADES INFECCIOSAS Y MICROBIOLOGIA CLINICA*. 2019; 37(5) 301-306. FI: 1.654. Cuartil: 4. (Article).
- Delgado-Ortega L; González-Domínguez A; Borrás JM; Oliva-Moreno, J; González-Haba, E; Menjon, S; Pérez, P; Vicente, D; Cordero, L; Jiménez, M; Simón, S; Hidalgo-Vega, A; Moya-Alarcón, C. The economic burden of disease of epithelial ovarian cancer in Spain: the OvarCost study. *EUROPEAN JOURNAL OF HEALTH ECONOMICS*. 2019; 20(1) 135-147. FI: 2.367. Cuartil: 1. (Article).
- García-Martín, E; Pernia-López, S; Martínez-Ortega, PA; Monje, B; Ruiz-Martínez, C; Sanjurjo-Saez, M. Intranasal bevacizumab treatment on epistaxis in hereditary haemorrhagic telangiectasia: a case report. *EUROPEAN JOURNAL*

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- García-Martín, E; Pernia-López, S; Jiménez, RMR; García-Valcarcel, B; Martínez-Ortega, PA; Sanjurjo-Saez, M. The use of autologous serum eye drops for the treatment of ocular surface disorders. EUROPEAN JOURNAL OF HOSPITAL PHARMACY-SCIENCE AND PRACTICE. 2019; 26(4) 226-228. FI: 0.892. Cuartil: 4. (Article).
- Escudero-Vilaplana, V; Revuelta-Herrero, JL; Collado-Borrell, R; Marzal-Alfaro, B; Giménez-Manzorro, A; Herranz-Alonso, A; Sanjurjo-Saez, M. Oral antineoplastic agents: assessment of safety and dose adjustments in clinical practice. EXPERT OPINION ON DRUG SAFETY. 2019; 18(9) 861-868. FI: 3.383. Cuartil: 2. (Article).
- García-Martín, E; Manrique-Rodríguez, S; Fernández-Llamazares, CM; Goicoechea-Díezhondino, M; Álvarez-Blanco, O; García-Morin, M; Sanjurjo-Saez, M. Variability in management and outcomes of therapy with eculizumab in atypical hemolytic uremic syndrome. EXPERT OPINION ON ORPHAN DRUGS. 2019; 7(12) 525-533. FI: 0.805. Cuartil: 4. (Article).
- de la Fuente, JS; Campelo-Gutiérrez, C; Izquierdo-García, E; Esteban, A; Manuel, CJ; Giménez-Manzorro, A; Díaz, BG; Becares, J. Detection of galactomannan content in generic piperacillin-tazobactam products. INFECTIOUS DISEASES. 2019; 51(2) 157-159. FI: 2.494. Cuartil: 3. (Letter).
- Galar, A; Muñoz, P; Valerio, M; Cercenado, E; García-González, X; Burillo, A; Sánchez-Somolinos, M; Juárez, M; Verde, E; Bouza, E. Current use of daptomycin and systematic therapeutic drug monitoring: Clinical experience in a tertiary care institution. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2019; 53(1) 40-48. FI: 4.621. Cuartil: 1. (Article).
- Revuelta-Herrero, JL; García-Sánchez, R; Anguita-Velasco, J; de Lorenzo-Pinto, A; Ortega-Navarro, C; Sanjurjo-Saez, M. Drug safety surveillance within a strategy for the management of non-chemotherapy drug-induced neutropenia. INTERNATIONAL JOURNAL OF CLINICAL PHARMACY. 2019; 41(5) 1143-1147. FI: 1.616. Cuartil: 4. (Article).
- de Lorenzo-Pinto, A; Ortega-Navarro, C; Ribed, A; Giménez-Manzorro, A; Ibáñez-García, S; de Miguel-Guijarro, A; Ginel-Feito, MD; Herranz, A; Sanjur-

jo-Saez, M. Cancellations of elective surgical procedures due to inadequate management of chronic medications. JOURNAL OF CLINICAL PHARMACY AND THERAPEUTICS. 2019; 44(4) 561-564. FI: 1.833. Cuartil: 4. (Article).

- Rodríguez-González, CG; Herranz-Alonso, A; Escudero-Vilaplana, V; Ais-Larigoitia, MA; Iglesias-Peinado, I; Sanjurjo-Saez, M. Robotic dispensing improves patient safety, inventory management, and staff satisfaction in an outpatient hospital pharmacy. JOURNAL OF EVALUATION IN CLINICAL PRACTICE. 2019; 25(1) 28-35. FI: 1.681. Cuartil: 3. (Article).
- Manes-Sevilla, M; Romero-Jiménez, R; Herranz-Alonso, A; Sánchez-Fresneda, M; González-Haba, E; Collado-Borrell, R; Benedi-González, J; Sanjurjo-Saez, M. Drug cost avoidance in clinical trials of breast cancer. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(2) 484-486. FI: 1.85. Cuartil: 4. (Article).
- Osorio, S; Escudero-Vilaplana, V; Reguilón-Gallego, L; Gómez-Centurion, I; Díez, JL; Ferrer-Marín, F. Severe liver toxicity in a chronic myeloid leukemia patient probably induced by a drug interaction between imatinib and sertraline. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(3) 694-698. FI: 1.85. Cuartil: 4. (Article).
- Osorio S; Escudero-Vilaplana V; Gómez-Centurión I; González-Arias E; García-González X; Díez JL. Inadequate response to imatinib treatment in chronic myeloid leukemia due to a drug interaction with phenytoin. JOURNAL OF ONCOLOGY PHARMACY PRACTICE. 2019; 25(5) 1099-1104. FI: 1.85. Cuartil: 4. (Article).
- Berlana, D; Almendral, MA; Abad, MR; Fernández, A; Torralba, A; Cervera-Peris, M; Pineiro, G; Romero-Jiménez, R; Vázquez, A; Ramírez, E; Yebenes, M; Muñoz, A. Cost, Time, and Error Assessment During Preparation of Parenteral Nutrition: Multichamber Bags Versus Hospital-Compounded Bags. JOURNAL OF PARENTERAL AND ENTERAL NUTRITION. 2019; 43(4) 557-565. FI: 2.853. Cuartil: 3. (Article).
- Salvador-Martín, S; García-González, X; García, MI; Blanco, C; García-Alfonso, P; Robles, L; Gravalos, C; Pachon, V; Longo, F; Martínez, V; Sanjurjo-Saez, M; López-Fernández, LA. Comments on: «Clinical utility of ABCB1 genotyping for preventing toxicity in treatment with irinotecan». PHARMACOLOGICAL RESEARCH. 2019; 145 -. FI: 5.893. Cuartil: 1. (Letter).

## 7.27. HOSPITAL PHARMACY AND PHARMACOGENOMICS

- Salvador-Martín, S; López-Cauce, B; Núñez, O; Laserna-Mendieta, EJ; García, MI; Lobato, E; Abarca-Zabalia, J; Sanjurjo-Saez, M; Lucendo, AJ; Marín-Jiménez, I; Menchen, LA; López-Fernández, LA. Genetic predictors of long-term response and trough levels of infliximab in crohn's disease. PHARMACOLOGICAL RESEARCH. 2019; 149 -. FI: 5.893. Cuartil: 1. (Review).
- Alonso, B; Pérez-Granda, MJ; Latorre, MC; Rodríguez, C; Sánchez-Carrillo, C; Muñoz, P; Guembe, M. Is heparinized 40% ethanol lock solution efficient for reducing bacterial and fungal biofilms in an in vitro model?. PLOS ONE. 2019; 14(7) -. FI: 2.74. Cuartil: 2. (Article).
- Ribed, A; de Lorenzo-Pinto, A; Lallana-Sainz, E; Llorente-Parrado, C; Chana-Rodríguez, F; Sanjurjo-Saez, M. Thromboprophylaxis Management in Surgical Patients: The Efficacy of a Protocol in the Electronic Prescription Program. QUALITY MANAGEMENT IN HEALTH CARE. 2019; 28(4) 245-249. FI: 0.852. Cuartil: 4. (Article).
- Monje, B; Giménez-Manzorro, A; Ortega-Navarro, C; Herranz-Alonso, A; Sanjurjo-Saez, M. Trends in hospital consumption of analgesics after the implementation of a pain performance improvement plan. REVISTA BRASILEIRA DE ANESTESIOLOGIA. 2019; 69(3) 259-265. FI: 0.867. Cuartil: 4. (Article).
- Sevilla, MG; Pinto, AD; Sánchez, RG; Navarro, CO. It is possible to mix insulins in the same syringe?. REVISTA CLINICA ESPANOLA. 2019; 219(4) 226-227. FI: 1.304. Cuartil: 3. (Letter).



## 7.28. Clinical nutrition

Group director: **PILAR GARCÍA PERIS / CRISTINA VELASCO**

Organisms involved: **HGUGM**

Type: **Emerging Group**

### Research lines

- ▶ L1: Diagnostic-therapeutic protocol of eosinophilic esophagitis.
- ▶ L2: Quality of life in patients receiving home enteral nutrition.
- ▶ L3: Outcome of a series of HGUGM patients receiving home parenteral nutrition.
- ▶ L4: Role of vitamin D deficiency in key events in cirrhosis of the liver and impact of supplements.
- ▶ L5: Translation into Spanish and validation of the VGS-GP questionnaire
- ▶ L6: Nutritional screening.
- ▶ L7: Evaluation of nutritional status and energy use in patients with Parkinson's disease receiving duodopa.
- ▶ L8: Virtual reality.
- ▶ L9: Evolution of Energy Expenditure and blood levels of amino acids and Acylcarnitines in patients in the hematopoietic precursors transplantation program.
- ▶ L10: Design and evaluation of a comprehensive program of domiciliary care in parenteral nutrition.
- ▶ L11: Study of the quality of life of Nutrihome patients.
- ▶ L12: Retrospective study of cost in patients with NPD and SIC.
- ▶ L13: Review of the long-term evolution of patients operated by vertical gastrectomy by morbid obesity.

### Group members

- **Arhip, Loredana:** R1. First Stage Researcher.
- **Bretón Lesmes, Irene:** R1. First Stage Researcher.
- **Cambor Álvarez, Miguel:** R1. First Stage Researcher.
- **Carrascal Fabián, M<sup>a</sup> Luisa:** Other.
- **De la Cuerda Compés, M<sup>a</sup> Cristina:** R4. Leading Researcher.
- **Frías Soriano, Laura:** R1. First Stage Researcher.
- **Morales Cerchiaro, Ángela Patricia:** 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.

## 7.28. CLINICAL NUTRITION

Publications		Total Impact Factor: 54.9
	Nº	IF
Own publications	7	21.8
Joint publications	11	33.0
First decile publications	5	28.7
First quartile publications	8	39.8
Second quartile publications	1	3.5
Third quartile publications	1	2.3
Fourth quartile publications	8	9.3
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>18</b>	<b>54.9</b>

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

- Guerrero MJ; Del Olmo García MD; Ruiz AH; Hernández JA; Guerrero DB; Antolin SH; Tenorio-Jiménez C; García Zafra MV; Romero FB; Pla MA; Martínez Olmos MA; Lemes IB; De la Vega IR; De Luis Román D. Development of hyponatremia in non-critical patients receiving total parenteral nutrition: A prospective, multicenter study. *CLINICAL NUTRITION*. 2019; 38(3) 969-974. FI: 6.36. Cuartil: 1. (Article).
- Cuerda, C; Muscaritoli, M; Donini, LM; Bague, P; Barazzoni, R; Gaudio, E; Jezek, D; Krznaric, Z; Pirlich, M; Schetgen, M; Schneider, S; Vargas, JA; Van Gossum, A. Nutrition education in medical schools (NEMS). An ESPEN position paper. *CLINICAL NUTRITION*. 2019; 38(4) 1945-1951. FI: 6.36. Cuartil: 1. (Article).
- García, RR; Sobrino, JLB; Pérez, CF; Arino, CM; Mira, SA; Somoza, FJE; Lesmes, IB; Romero, FB. Trends on Diabetes Mellitus's healthcare management in Spain 2007-2015. *DIABETES RESEARCH AND CLINICAL PRACTICE*. 2019; 156 -. FI: 4.234. Cuartil: 1. (Article).
- García-Peris, P; Gimeno, CV; Soriano, LF; Pulgar, IH; Lesmes, IB; Álvarez, MC; de la Cámara, MM; Compes, CC. Protocol of implantation of screening for early detection of nutritional risk in a university hospital. *ENDOCRINOLOGIA DIABETES Y NUTRICION*. 2019; 66(6) 346-352. FI: 1.18. Cuartil: 4. (Article).
- Blasco, LG; Álvarez, MC; García, JCF; Romero, FB. Quo vadis, Endocrinology and nutrition?. *ENDOCRINOLOGIA DIABETES Y NUTRICION*. 2019; 66(7) 425-433. FI: 1.18. Cuartil: 4. (Article).
- Higuera-Pulgar, I; Ribed, A; Carrascal-Fabian, ML; Romero-Jiménez, RM; Velasco-Gimeno, C; Breton-Lesmes, I; Cambor-Álvarez, M; Cuerda-Compes, C; García-Peris, P. Evolution of nutritional status and survival in patients with cancer on tyrosine kinase inhibitors treatment. *ENDOCRINOLOGIA DIABETES Y NUTRICION*. 2019; 66(9) 555-562. FI: 1.18. Cuartil: 4. (Article).
- Pomar, MDB; Hernández, JA; Lesmes, IB; Fuster, GO; García, DD; Paris, AS; Breton, JO; Gómez, JLL; Pérez, LML; Romero, FB; Olmos, MAM; Enterria, PG; Sanz, ML; Peris, PG; Guerrero, DB; Román, DD; Luna, PPG; Virgili, N; Vázquez, C; García, LC; Salgado, AC; Com Gestor Area Nutr SEEN. Training in nutrition for medical residents in endocrinology and nutrition: How have we changed?. *ENDOCRINOLOGIA DIABETES Y NUTRICION*. 2019; 66(8) 472-479. FI: 1.18. Cuartil: 4. (Article).
- Baxter JP; Fayers PM; Bozzetti F; Kelly D; Joly F; Wanten G; Jonkers C; Cuerda C; van Gossum A; Klek S; Boudreault MF; Gilbert A; Jobin M; Staun M; Gillanders L; Forbes A; O'Callaghan M; Faedo CM; Brunelli C; Mariani L; Pironi L; Home Artificial Nutrition and Chronic Intestinal Failure Special Interest Group. An international study of the quality of life of adult patients treated with home parenteral nutrition. *CLINICAL NUTRITION*. 2019; 38(4) 1788-1796. FI: 6.36. Cuartil: 1. (Article).
- Arhip, L; García-Peris, P; Romero, RM; Frías, L; Breton, I; Cambor, M; Motilla, M; Velasco, C; Morales, A; Carrascal, ML; Herranz, A; Sanjurjo, M; Cuerda, C. Direct costs of a home parenteral nutrition programme. *CLINICAL NUTRITION*. 2019; 38(6) 2639-2644. FI: 6.36. Cuartil: 1. (Article).
- Gómez-Hoyos E; Buigues AO; Ballesteros Pomar MD; Casariego AV; Delgado YG; Ocon Breton MJ; Abad González AL; Luengo Pérez LM; Martín PM; Tapia





- Botella Romero F; Elola Somoza FJ; Navarro González E; Fernández Pérez C; Bernal Sobrino JL; Lesmes, IB. Patient care in the Endocrinology and Nutrition Units of the National Health System. The RECALSEEN study. ENDOCRINOLOGIA DIABETES Y NUTRICION. 2019; 66(5) 291-296. FI: 1.18. Cuartil: 4. (Article).
- Cuerda, C; Vasiloglou, ME; Arhip, L. Nutritional Management and Outcomes in Malnourished Medical Inpatients: Anorexia Nervosa. JOURNAL OF CLINICAL MEDICINE. 2019; 8(7) -. FI: 3.303. Cuartil: 1. (Review).
- Pérez-Sánchez, JR; Rodríguez, MA; Díaz-Otero, F; Lesmes, IB. Treatment of idiopathic intracranial hypertension with bariatric surgery. NEUROLOGIA. 2019; 34(7) 493-495. FI: 2.283. Cuartil: 3. (Letter).
- Blanco, AC; Fuster, FML; García, MDD; Casas, NV; Wanden-Berghe, C; Avilés, V; Enguidanos, RA; López, IF; Soria, JBM; González, JCM; Lesmes, IB; Hernández, JA; Villares, JMM; Grpo Trabajo Etica SENPE Soc. Nutritional management of advanced dementia: summary of recommendations of the SENPE Ethic Group. NUTRICION HOSPITALARIA. 2019; 36(4) 988-995. FI: 0.888. Cuartil: 4. (Article).
- Wanden-Berghe, C; Campos, C; Burgos, R; Álvarez, J; Frías, L; Matía, P; Lobo, G; Román, DD; Gonzalo, M; Candela, CG; Olmos, MAM; Calleja, BP; Luengo, LM; Santacruz, N; Rocamora, JAI; Higuera, I; Padín, S; Leyes, P; Sánchez, R; Cardona, D; Martín, MA; Ballesta, C; Suárez, JP; Tejera, C; Bonada, A; Gardez, C; Penacho, MA; Martínez, MJ; Virgili, N; Martín, T; Canovas, B; Maiz, MI; del Olmo, D; Carabana, F; Pares, RM; Mauri, S; Romero, V; García, I; Sánchez-Vilar, O; García, Y; Miserachs, N; Tenorio, C; Apezetxea, A; Pereira, MA; Sánchez, EA; Ponce, MA; Grp NADYA-SENPE. Spanish home enteral nutrition registry of the year 2016 and 2017 from the NADYA-SENPE Group. NUTRICION HOSPITALARIA. 2019; 36(1) 233-237. FI: 0.888. Cuartil: 4. (Article).
- Vilallonga, R; Pereira-Cunill, JL; Morales-Conde, S; Alarcón, I; Bretón, I; Domínguez-Adame, E; Ferrer, J; Ruiz-de-Gordejuela, AG; Goday, A; Lecube, A; García-Almenta, EM; Rubio, M; Tinahones, F; García-Luna, P. A Spanish Society joint SECO and SEEDO approach to the Post-operative management of the patients undergoing surgery for obesity. OBESITY SURGERY. 2019; 29(12) 3842-3853. FI: 3.412. Cuartil: 1. (Article).
- Minambres, I; Rubio, MA; de Hollanda, A; Breton, I; Vilarrasa, N; Pellitero, S; Bueno, M; Lecube, A; Marcuello, C; Goday, A; Ballesteros, MD; Soriano, G; Caixas, A. Outcomes of Bariatric Surgery in Patients with Cirrhosis. OBESITY SURGERY. 2019; 29(2) 585-592. FI: 3.412. Cuartil: 1. (Article).
- Sánchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marín-Jiménez, I; Menchen, L; Fernández, PG; Sánchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernández, F; González, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jiménez, S; Juste, M; La Orden, E; López, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menéndez, C; Monraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Pérez-Moneo, B; Pociello, N; Rivero, MC; Rodríguez, A; Martínez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gómez, T; Vázquez, R; Vecino, R; Álvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benítez, JM; Botella, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernández, L; Ferreiro, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Pérez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramírez, JJ; Ramos, L; Gloria, ERG; Gutiérrez, CR; Rodríguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives. REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. FI: 1.591. Cuartil: 4. (Article).
- Miranda-Bautista, J; Verdejo, C; Díaz-Redondo, A; Breton, I; Bellón, JM; Pérez-Valderas, MD; Caballero-Marcos, A; de Dios-Lascuevas, M; González-Rio, E; García-Sánchez, C; Marín-Jiménez, I; Banares, R; Menchen, L. Metabolic bone disease in patients diagnosed with inflammatory bowel disease from Spain. THERAPEUTIC ADVANCES IN GASTROENTEROLOGY. 2019; 12 -. FI: 3.52. Cuartil: 2. (Article).

## 7.29. Pharmacology and vascular pathophysiology

Group director: FRANCISCO PÉREZ VIZCAÍNO

Organisms involved: HGUGM - UCM

Type: Consolidated Group

### Research lines

- ▶ L1: Pulmonary vascular dysfunction in pulmonary hypertension (PH).
- ▶ L2: Acute respiratory distress syndrome (ARDS).
- ▶ L3: Pulmonary bronchodysplasia (BDP).

**P**ulmonary hypertension is a condition characterized by an increase in pulmonary vascular resistance whose pathophysiology is complex and not yet well characterized. Our interest is mainly focused on the mechanisms involved in pulmonary vasodilation and in the inhibition of cell proliferation in order to identify and design new drugs that may be potentially useful in the treatment of pulmonary hypertension.

Acute lung damage (ALI) or its most severe form, acute respiratory distress syndrome (ARDS), is characterized by pulmonary edema and alveolar collapse leading to severe arterial hypoxemia. Although protective ventilatory support strategies have improved the prognosis of patients, the associated mortality remains unbearably high. Our interest is to characterize the pulmonary vascular inflammatory response associated with acute lung damage and the identification of therapeutic targets to improve the prognosis in these patients.

Our work focuses on analyzing the pathophysiological and therapeutic role of different signaling pathways in these pathologies: 1) Vitamin D and VDR signaling, 2) K<sup>+</sup> channels, 3) Endothelial progenitor cells.

### Group members

- **Barreira Barba, Bianca:** Other. Research Support Technician.
- **Callejo Arranz, María:** R1. First Stage Researcher.
- **Cogolludo Torralba, Ángel:** R3. Established Researcher.
- **Esquivel Ruiz, Sergio Antonio:** R1. First Stage Researcher.
- **Macías Montero, Miguel:** R1. First Stage Researcher.
- **Mondéjar Parreño, Gema:** R1. First Stage Researcher.
- **Moreno Gutiérrez, Laura:** R3. Established Researcher.
- **Olivencia Plaza, Miguel Ángel:** R1. First Stage Researcher.
- **Pérez Vizcaíno, Francisco:** R4. Leading Researcher.



## Research Projects – Competitive Calls

### Not managed by the FIBHGM

- Title: **Vitamina D en la hipertension pulmonar.** SAF2016-77222-R  
 Director: Pérez Vizcaino, Francisco  
 Project type: Research project  
 Funding body: Plan Nacional de I+D (CICYT)  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: **Therapeutic potential of exosomes derived from mesenchymal stem cells and late endothelial progenitor cells in bronchopulmonary dysplasia and pulmonary hypertension.** PI15/01100  
 Director: Moreno Gutiérrez, Laura  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2016  
 End date: 31/12/2019
- Title: **Déficit de vitamina D en los pacientes con hipertensión pulmonar arterial y potencial valor terapéutico de la vitamina D como inhibidor de la proliferación de las células de músculo liso vascular arterial pulmonar.** Beca Actelion  
 Project type: Research project  
 Funding body: Fundación de Pacientes contra la Hipertensión  
 Start date: 01/06/2017  
 End date: 31/05/2019
- Title: **Comunicación por exosomas y otras vesículas extracelulares en la fisiología y fisiopatología hepáticas.** EXOHEP-CM S2017/BMD-3727  
 Project type: Research project  
 Funding body: Comunidad de Madrid  
 Start date: 01/01/2018  
 End date: 31/12/2019

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
CIBER	CIBERES (Enfermedades Respiratorias). CB06/06/1084	Collaborating group

## Publications

Total Impact Factor: 66.2

	Nº	IF
Own publications	7	33.2
Joint publications	7	33.0
First decile publications	3	21.9
First quartile publications	11	57.8
Second quartile publications	3	8
Third quartile publications	0	0.0
Fourth quartile publications	0	0.0
Nonindexed publications / No IF	0	-
<b>Total publications (including those without IF)</b>	<b>14</b>	<b>66.2</b>

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

- Mondéjar-Parreño, G; Moral-Sanz, J; Barreira, B; De la Cruz, A; González, T; Callejo, M; Esquivel-Ruiz, S; Morales-Cano, D; Moreno, L; Valenzuela, C; Pérez-Vizcaino, F; Cogolludo, A. Activation of K(v)7 channels as a novel mechanism for NO/cGMP-induced pulmonary vasodilation. BRITISH JOURNAL OF PHARMACOLOGY. 2019; 176(13) 2131-2145. FI: 7.73. Cuartil: 1. (Article).

## 7.29. PHARMACOLOGY AND VASCULAR PATHOPHYSIOLOGY

- Sánchez, M; Romero, M; Gómez-Guzman, M; Tamargo, J; Pérez-Vizcaino, F; Duarte, J. Cardiovascular Effects of Flavonoids. *CURRENT MEDICINAL CHEMISTRY*. 2019; 26(39) 6991-7034. FI: 4.184. Cuartil: 1. (Review).
- Villamor, E; Moreno, L; Mohammed, R; Pérez-Vizcaino, F; Cogolludo, A. Reactive oxygen species as mediators of oxygen signaling during fetal-to-neonatal circulatory transition. *FREE RADICAL BIOLOGY AND MEDICINE*. 2019; 142 82-96. FI: 6.17. Cuartil: 1. (Review).
- Cogolludo, A; Villamor, E; Pérez-Vizcaino, F; Moreno, L. Ceramide and Regulation of Vascular Tone. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2019; 20(2) -. FI: 4.556. Cuartil: 1. (Review).
- Mondéjar-Parreño, G; Callejo, M; Barreira, B; Morales-Cano, D; Esquivel-Ruiz, S; Filice, M; Moreno, L; Cogolludo, A; Pérez-Vizcaino, F. miR-1 induces endothelial dysfunction in rat pulmonary arteries. *JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY*. 2019; 75(4) 519-529. FI: 2.952. Cuartil: 2. (Article).
- Cunningham, KP; Holden, RG; Escribano-Subias, PM; Cogolludo, A; Veale, EL; Mathie, A. Characterization and regulation of wild-type and mutant TASK-1 two pore domain potassium channels indicated in pulmonary arterial hypertension. *JOURNAL OF PHYSIOLOGY-LONDON*. 2019; 597(4) 1185-1197. FI: 4.547. Cuartil: 1. (Article).
- Mondéjar-Parreño G; Callejo M; Barreira B; Morales-Cano D; Esquivel-Ruiz S; Moreno L; Cogolludo A; Pérez-Vizcaino F. miR-1 is increased in pulmonary hypertension and downregulates Kv1.5 channels in rat pulmonary arteries. *JOURNAL OF PHYSIOLOGY-LONDON*. 2019; 597(4) 1087-1101. FI: 4.547. Cuartil: 1. (Article).
- Kumar, R; Mickael, C; Kassa, B; Sanders, L; Koyanagi, D; Hernandez-Saavedra, D; Freeman, S; Morales-Cano, D; Cogolludo, A; McKee, AS; Fontenot, AP; Butrous, G; Tuder, RM; Graham, BB. Th2 CD4(+) T Cells Are Necessary and Sufficient for Schistosoma-Pulmonary Hypertension. *JOURNAL OF THE AMERICAN HEART ASSOCIATION*. 2019; 8(15) -. FI: 4.605. Cuartil: 1. (Article).
- Álvarez-Cilleros, D; López-Oliva, ME; Morales-Cano, D; Barreira, B; Pérez-Vizcaino, F; Goya, L; Ramos, S; Martín, MA. Dietary Cocoa Prevents Aortic Remodeling and Vascular Oxidative Stress in Diabetic Rats. *MOLECULAR NUTRITION & FOOD RESEARCH*. 2019; 63(18) -. FI: 5.309. Cuartil: 1. (Article).
- Robles-Vera, I; Callejo, M; Ramos, R; Duarte, J; Pérez-Vizcaino, F. Impact of Vitamin D Deficit on the Rat Gut Microbiome. *NUTRIENTS*. 2019; 11(11) -. FI: 4.546. Cuartil: 1. (Article).
- Álvarez-Fuente, M; Moreno, L; Mitchell, JA; Reiss, IK; López, P; Elorza, D; Duijts, L; Ávila-Álvarez, A; Arruza, L; Orellana, MR; Baraldi, E; Zaramella, P; Rueda, S; de Atauri, AGD; Guimaraes, H; Rocha, G; Proenca, E; Thebaud, B; del Cerro, MJ. Preventing bronchopulmonary dysplasia: new tools for an old challenge. *PEDIATRIC RESEARCH*. 2019; 85(4) 432-441. FI: 2.747. Cuartil: 1. (Review).
- Álvarez-Fuente, M; Moreno, L; López-Ortego, P; Arruza, L; Ávila-Álvarez, A; Muro, M; Gutiérrez, E; Zozaya, C; Sánchez-Helguera, G; Elorza, D; Martínez-Ramas, A; Villar, G; Labrandero, C; Martínez, L; Casado, T; Cuadrado, I; del Cerro, MJ. Exploring clinical, echocardiographic and molecular biomarkers to predict bronchopulmonary dysplasia. *PLOS ONE*. 2019; 14(1) -. FI: 2.74. Cuartil: 2. (Article).
- Morales-Cano, D; Callejo, M; Barreira, B; Mondejar-Parreno, G; Esquivel-Ruiz, S; Ramos, S; Martín, MA; Cogolludo, A; Moreno, L; Pérez-Vizcaino, F. Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. *PLOS ONE*. 2019; 14(3) -. FI: 2.74. Cuartil: 2. (Article).
- Herrero, R; Prados, L; Ferruelo, A; Puig, F; Pandolfi, R; Guillamat-Prats, R; Moreno, L; Matute-Bello, G; Artigas, A; Esteban, A; Lorente, JA. Fas activation alters tight junction proteins in acute lung injury. *THORAX*. 2019; 74(1) 69-82. FI: 8.834. Cuartil: 1. (Article).



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

Group directors: **SANTIAGO LIZARRAGA BONELLI** and **JUAN ANTONIO DE LEÓN LUIS**

Organisms involved: **HUGGM**

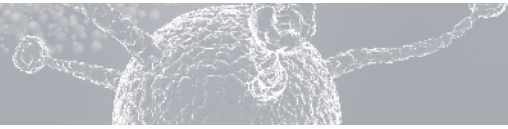
Type: **Emerging Group**

## 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:** R1. First Stage Researcher.
- **Collazos Blanco, Ana.**
- **De León Luis, Juan Antonio:** R4. Leading Researcher.
- **Gámez Alderete, Francisco:** R2. Recognised Researcher.
- **García-Tizón Larroca, Santiago:** R1. First Stage Researcher.
- **Lizarraga Bonelli, Santiago:** R4. Leading Researcher.
- **Llamas Santos, Leticia:** R1. First Stage Researcher I.
- **Mendizábal Vicente, Elsa:** R2. Recognised Researcher.
- **Mercader Cidoncha, Enrique:** R1. First Stage Researcher I.
- **Moreno Molinero, Verónica:** R1. First Stage Researcher.
- **Muñoz-Chapulí Gutiérrez, M<sup>a</sup> 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.
- **Pérez Milán, Federico:** R3. Recognised Researcher.
- **Pintado Recarte, Pilar:** R2. Recognised Researcher.
- **Relloso Cereceda, Miguel:** R3. Recognised Researcher.
- **Ruiz Labarta, Javier:** R1. First Stage Researcher.
- **Trobo Marina, Duna:** R1. First Stage Researcher.
- **Veiga Fernández, Amanda.**
- **Viñuela Benítez, M<sup>a</sup> del Carmen:** R1. First Stage Researcher.



### Research Projects – Competitive Calls

- Title: Papel de la progesterona como inmunoactivador en la lucha contra las candidiasis vaginales y sistémicas: posible efecto antitumoral y sobre la implantación embrionaria.** PI16/00050  
 Director: Relloso Cereceda, Miguel  
 Project type: Research project  
 Funding body: Instituto de Salud Carlos III  
 Start date: 01/01/2017  
 End date: 31/12/2019
- Title: Relación del fallo de implantación embrionaria con la dosis de progesterona sérica** PEJ2018-003326-A  
 Director: Pérez Milán, Federico  
 Project type: Research project  
 Funding body: MICINN  
 Start date: 01/01/2019  
 End date: 31/12/2020
- Title: Young employment contract: Predoctoral** PEJD-2018-PRE/BMD-9513  
 Director: Pérez Milán, Federico  
 Project type: Human resources  
 Funding body: Consejería de Educación e Investigación. Comunidad de Madrid  
 Start date: 01/01/2019  
 End date: 31/12/2020

### Industrial and intellectual property registrations

#### Industrial property

Title	Reference*	Owner	Inventors
Maqueta didáctica armable	U201530218	FIBHGM	Juan Antonio León

■ Transferred patents.

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

#### Intellectual property

Title	Reference	Owner	Inventors
Parto vaginal en 3D	Nº Asiento Registral: 16 /2019 /2823	FIBHGM	Juan Antonio de León

#### Publications

Total Impact Factor: 23.2

	Nº	IF
Own publications	5	10.3
Joint publications	3	12.9
First decile publications	2	8.4
First quartile publications	4	16.9
Second quartile publications	1	2.5
Third quartile publications	2	2.9
Fourth quartile publications	1	0,8
Nonindexed publications / No IF	1	-
<b>Total publications (including those without IF)</b>	<b>9</b>	<b>23.2</b>



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

- Cidoncha, EM; Prats, IA; Cortés, JLE; Torrente, IG; Suh, H. Scarless neck thyroidectomy using bilateral axillo-breast approach: Initial impressions after introduction in a specialized unit and a review of the literature. CIRUGIA ESPANOLA. 2019; 97(2) 81-88. FI: 1.323. Cuartil: 3. (Review).
- Cuello, JP; Ginés, MLM; Kuhle, J; Domínguez, JMG; Ros, AL; Delgado, FR; Higuera, Y; Rivera, AM; Briceno, HG; Larroca, SGT; De León-Luis, J; Michalak, Z; Barro, C; Lafuente, RA; Heras, SM; Velasco, JIF; Tejeda-Velarde, A; Domínguez-Mozo, MI; Muriel, A; de Andrés, C; Villar, LM. Neurofilament light chain levels in pregnant multiple sclerosis patients: a prospective cohort study. EUROPEAN JOURNAL OF NEUROLOGY. 2019; 26(9) 1200-1204. FI: 4.516. Cuartil: 1. (Article).
- Prieto, LJ; Ruiz, Y; Pérez, R; Luis, JD. Prenatal diagnosis of pericallosal lipoma: Systematic review. EUROPEAN JOURNAL OF PAEDIATRIC NEUROLOGY. 2019; 23(6) 764-782. FI: 2.51. Cuartil: 2. (Review).
- Gómez-Hidalgo NR; Mendizabal E; Joigneau L; Pintado P; De León-Luis J. Breast cancer during pregnancy: results of maternal and perinatal outcomes in a single institution and systematic review of the literature. JOURNAL OF OBSTETRICS AND GYNAECOLOGY. 2019; 39(1) 27-35. FI: 0.807. Cuartil: 4. (Review).
- Trobo, D; Pintado, P; Ortega, V; Yllana, F; Hernández, C; Mendizabal, R; De León-Luis, J. Maternal and perinatal outcomes in external cephalic version: prognostic factors for the success of the technique. JOURNAL OF PERINATAL MEDICINE. 2019; 47(7) 717-723. FI: 1.614. Cuartil: 3. (Article).
- Salinas-Muñoz, L; Campos-Fernández, R; Olivera-Valle, I; Mercader, E; Fernández-Pacheco, C; Lasarte, S; Pérez-Martín, L; Navarro-González, MT; Sánchez-Mateos, P; Samaniego, R; Rellosó, M. Estradiol impairs epithelial

CXCL1 gradient in the cervix to delay neutrophil transepithelial migration during insemination. JOURNAL OF REPRODUCTIVE IMMUNOLOGY. 2019; 132 9-15. FI: 4.018. Cuartil: 1. (Article).

- Zvezdanova, ME; Escribano, P; Ruiz, A; Martínez-Jiménez, MC; Pelaez, T; Collazos, A; Guinea, J; Bouza, E; Rodríguez-Sánchez, B. Increased species-assignment of filamentous fungi using MALDI-TOF MS coupled with a simplified sample processing and an in-house library. MEDICAL MYCOLOGY. 2019; 57(1) 63-70. FI: 2.822. Cuartil: 1. (Article).
- Saccone, G; Berghella, V; Locci, M; Ghi, T; Frusca, T; Lanna, M; Faiola, S; Fichera, A; Prefumo, F; Rizzo, G; Bosi, C; Arduino, B; D'Alessandro, P; Borgo, M; Arduino, S; Cantanna, E; Simonazzi, G; Rizzo, N; Francesca, G; Seravalli, V; Miller, JL; Magro-Malosso, ER; Di Tommaso, M; Dall'Asta, A; Galli, L; Volpe, N; Visentin, S; Cosmi, E; Sarno, L; Caissutti, C; Driul, L; Anastasio, H; Di Mascio, D; Panici, PB; Vena, F; Brunelli, R; Ciardulli, A; D'Antonio, F; Schoen, C; Suhag, A; María, Z; Baz, MAA; Magoga, G; Busato, E; Filippi, E; Suárez, MJR; Alderete, FG; Ortuno, PA; Vitagliano, A; Mollo, A; Raffone, A; Vendola, M; Navaneethan, P; Wimalasundera, R; Napolitano, R; Aquino, CI; D'Agostino, S; Gallo, C; Maruotti, GM; Flacco, ME; Baschat, AA; Venturella, R; Guida, M; Martinelli, P; Zullo, F; Monomono Working Grp. Inpatient vs outpatient management and timing of delivery of uncomplicated monochorionic monoamniotic twin pregnancy: the MONOMONO study. ULTRASOUND IN OBSTETRICS & GYNECOLOGY. 2019; 53(2) 175-183. FI: 5.571. Cuartil: 1. (Article).

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

- Alfano, F; Fisac, JEO; García-Sevilla, M; Conde, MH; Zamora, OB; Lizarraga, S; Santos, A; Pascau, J; Carbayo, MJL. PRONE TO SUPINE SURFACE BASED REGISTRATION WORKFLOW FOR BREAST TUMOR LOCALIZATION IN SURGICAL PLANNING. IEEE INTERNATIONAL SYMPOSIUM ON BIOMEDICAL IMAGING. 2019; 1150-1153. (Proceedings Paper).

## 7.32. Physical medicine and rehabilitation

Group directors: **PILAR CRESPO COBO** and **MARTA SUPERVÍA POLA**

Organisms involved: **HUGGM**

Type: **Emerging Group**

### Research lines

- ▶ L1: Infant cardiac rehabilitation.
- ▶ L2: Infant spasticity.
- ▶ L3: Cerebral palsy.
- ▶ L4: Adult cardiac rehabilitation.
- ▶ L5: Exercise for cancer patients.
- ▶ L6: Exercise for children with cerebral palsy.
- ▶ L7: Exercise for patients with bronchiectasis.
- ▶ L8: Efficacy of microsurgical techniques in lymphedema.
- ▶ L9: Primary lymphedema.
- ▶ L10: Efficacy of Kinesio tape in lymphedema.
- ▶ L11: Speech therapy in patients undergoing intraoperative cortical mapping.
- ▶ L12: Efficacy of shock waves.

### Group members

- **Arroyo Riaño, M<sup>a</sup> Olga**: R2. Postdoctoral.
- **Crespo Cobo, Pilar**: R4. Senior researcher.
- **García Delgado, Isabel**: R2. Postdoctoral.
- **López Chicharro, José**: R3. Senior researcher.
- **Moreno Palacios, Antonio**: R2. Postdoctoral.
- **Pérez Ruiz, Margarita**: R3. Senior researcher.
- **Supervía Pola, Marta**: R4. Senior researcher.
- **Úbeda Tikkanen, Ana**: R4. Senior researcher.



Publications		Total Impact Factor: 20.0
	Nº	IF
Own publications	0	0.0
Joint publications	6	20.0
First decile publications	0	-
First quartile publications	2	11.1
Second quartile publications	2	6.5
Third quartile publications	0	0.0
Fourth quartile publications	2	2.5
Nonindexed publications / No IF	3	-
<b>Total publications (including those without IF)</b>	<b>9</b>	<b>20.0</b>

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

- Heine, M; Turk-Adawi, K; Supervia, M; Derman, W; López-Jiménez, F; Naidoo, P; Grace, SL. Cardiac rehabilitation delivery in Africa. *CARDIOVASCULAR JOURNAL OF AFRICA*. 2019; 30(3) 133-137. FI: 0.897. Cuartil: 4. (Editorial Material).
- Abreu, A; Pesah, E; Supervia, M; Turk-Adawi, K; Bjarnason-Wehrens, B; López-Jiménez, F; Ambrosetti, M; Andersen, K; Giga, V; Vulic, D; Vataman, E; Gaita, D; Cliff, J; Kouidi, E; Yagci, I; Simón, A; Hautala, A; Tamuleviciute-Prasciene, E; Kemps, H; Eysymontt, Z; Farsky, S; Hayward, J; Prescott, E; Dawkes, S; Pavy, B; Kiessling, A; Sovova, E; Grace, SL; Global CR Program Survey. Cardiac rehabilitation availability and delivery in Europe: How does it differ by region and compare with other high-income countries? Endorsed by the European Association of Preventive Cardiology. *EUROPEAN JOURNAL OF PREVENTIVE CARDIOLOGY*. 2019; 26(11) 1131-1146. FI: 5.864. Cuartil: 1. (Article).
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- Sánchez, CS; Hernani, MT; Calatayud, GA; Cid, CM; Navas, VM; Marín-Jiménez, I; Menchen, L; Fernández, PG; Sánchez-Canete, AM; Arevalo, A; Aznal, E; Azual, P; Barros, P; Bautista, A; Blanco, M; Blasco-Alonso, J; Bodas, A; Botija, G; Busquets, E; Campoy, C; Carabano, I; Carro, MA; Chicano, FJ; Crujeira, V; Donado, P; Eizaguirre, FJ; Escartin, L; Caamano, F; Cebrian, F; Fernández, F; González, F; Galera, R; Galicia, G; Peris, G; Romero, G; de Caldas, G; Grande, L; Iglesias, C; Irastorza, I; Jiménez, S; Juste, M; La Orden, E; López, MJ; Lorenzo, H; Loverdos, I; Magallares, L; Manzano, MJ; de Carpi, M; Marugan, JM; Masiques, ML; Medina, E; Menéndez, C; Monraveta, M; Moreno, A; Codoceo, M; Ochoa, C; Ortigosa, L; Pena, L; Pérez-Moneo, B; Pociello, N; Rivero, MC; Rodríguez, A; Martínez, R; Romero, J; Rosell, A; Valverde, S; Segarra, O; Solar, A; Soria, M; Torrecilla, J; Torres, R; Gómez, T; Vázquez, R; Vecino, R; Álvarez, V; Aguilar, P; Andreu, M; Arajol, C; Baston, I; Benítez, JM; Botella, B; Calvo, M; Camacho, L; Carrillo, M; Ceballos, D; Crespo, B; Duque, JM; Fernández, L; Ferreira, R; Ferrer, I; Fraile, M; Gallach, M; Gallego, MR; Delgado, G; Guerra, I; Casbas, G; Villalba, H; Huguet, JM; Iborra, M; Leo, E; Lucendo, AJ; Pérez, M; Mesonero, F; Miguel, JO; Penate, M; Galindo, P; Gisbert, P; Piqueras, M; Plaza, R; Ramírez, JJ; Ramos, L; Gloria, ERG; Gutiérrez, CR; Rodríguez-Lago, I; Rubio, S; Sainz, E; Torres, S; Sapina, A; Saro, C; Sese, E; Trapero, AM; Vargas, M; Vega, P; Spanish Soc Pediat Gastroenterolog; Spanish Working Grp Crohns Dis Ulc. Status of transition care in inflammatory bowel disease in Spain. Different medical perspectives.

## 7.32. PHYSICAL MEDICINE AND REHABILITATION

REVISTA ESPANOLA DE ENFERMEDADES DIGESTIVAS. 2019; 111(11) 833-838. Fl: 1.591. Cuartil: 4. (Article).

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

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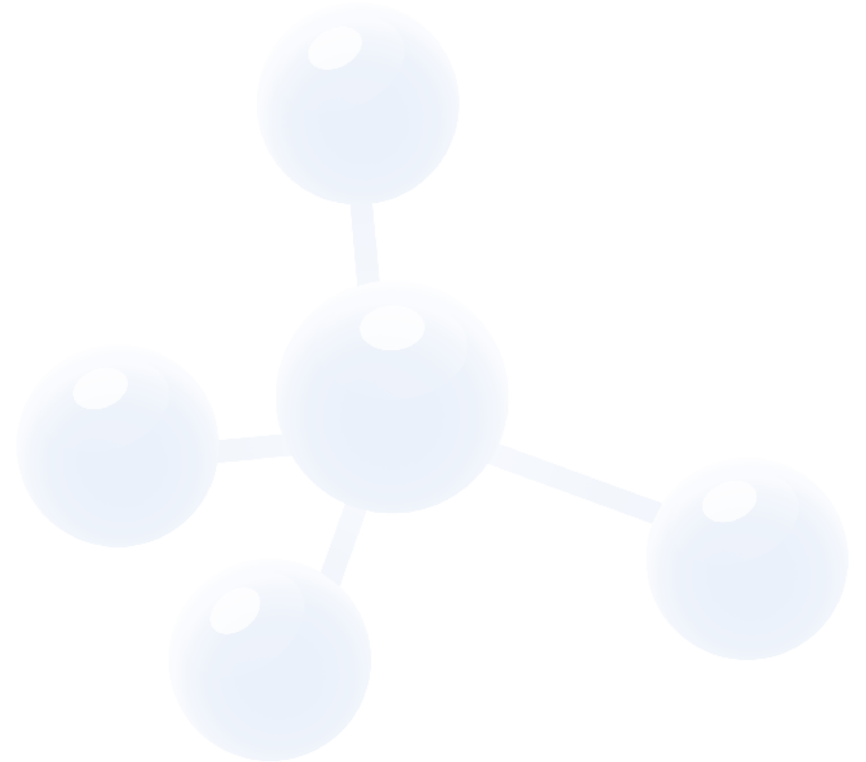
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- Turk-Adawi K; Supervia M; López-Jiménez F; Pesah E; Ding R; Britto RR; Bjarnason-Wehrens B; Derman W; Abreu A; Babu AS; Santos CA; Jong SK; Cuenza L; Yeo TJ; Scantlebury D; Andersen K; González G; Giga V; Vulic D; Vataman E; Cliff J; Kouidi E; Yagci I; Kim C; Benaim B; Estany ER; Fernández R; Radi B; Gaita D; Simón A; Chen SY; Roxburgh B; Martín JC; Maskhulia L; Burdiat G; Salmon R; Lomeli H; Sadeghi M; Sovova E; Hautala A; Tamuleviciute-Prasciene E; Ambrosetti M; Neubeck L; Asher E; Kempes H; Eysymontt Z; Farsky S; Hayward J; Prescott E; Dawkes S; Santibanez C; Zeballos C; Pavy B; Kiessling A; Sarrafzadegan N; Baer C; Thomas R; Hu D; Grace SL. Cardiac Rehabilitation Availability and Density around the Globe. ECLINICALMEDICINE. 2019; 13 31-45. (Article)
- Supervia M; Turk-Adawi K; López-Jiménez F; Pesah E; Ding R; Britto RR; Bjarnason-Wehrens B; Derman W; Abreu A; Babu AS; Santos CA; Jong SK; Cuenza L; Yeo TJ; Scantlebury D; Andersen K; González G; Giga V; Vulic D; Vataman E; Cliff J; Kouidi E; Yagci I; Kim C; Benaim B; Estany ER; Fernández R; Radi B; Gaita D; Simón A; Chen SY; Roxburgh B; Martín JC; Maskhulia L; Burdiat G; Salmon R; Lomeli H; Sadeghi M; Sovova E; Hautala A; Tamuleviciute-Prasciene E; Ambrosetti M; Neubeck L; Asher E; Kempes H; Eysymontt Z; Farsky S; Hayward J; Prescott E; Dawkes S; Santibanez C; Zeballos C; Pavy B; Kiessling A; Sarrafzadegan N; Baer C; Thomas R; Hu D; Grace SL. Nature of Cardiac Rehabilitation Around the Globe. ECLINICALMEDICINE. 2019; 13 46-56. (Article).



# NURSING GROUP

*Area coordinator:*  
**Ana García Pozo**



# Nursing Care Research Group

Group directors: ANA GARCÍA POZO

## Research lines

### Axis 1: Nursing care

- ▶ Line 1: Care for chronically ill patients.
- ▶ Line 2: Care for critically ill patients.
- ▶ Line 3: Physiotherapy and rehabilitation.
- ▶ Line 4: Patient Safety.

### Axis 2: Innovation in health care and services

- ▶ Line 1: Development of applications and patents.
- ▶ Line 2: Advanced practice.
- ▶ Line 3: Design and validation of measuring instruments.

### Axis 3: Management of human resources

- ▶ Line 1: Professional skills and competence.
- ▶ Line 2: Evaluation and measurement of nursing care time.
- ▶ Line 3: Occupational health and work environment.

Research on the care provided by the nursing group is beginning to generate a large number of major, mainly joint projects. Some of these projects are funded with other nursing groups from other hospitals in the Comunidad de Madrid, the Universidad Complutense de Madrid (UCM), Universidad Rey Juan Carlos (URJC), and Universidad Autónoma de Madrid (UAM). These projects are integrated in the research line of health services and care.

The group is composed of nurses from all professional areas (care, teaching, and management), of whom a large number are lecturers at UCM, URJC and UAM.

Its organizational structure is unique in the Madrid health area, in that it provides support and advice and promotes research in nursing through the Unidad de Apoyo a la Investigación de Enfermería (UAIE [Nursing Research Support Unit]).

The group has a strong certified research training plan for nurses and nursing trainees. Similarly, the group runs a large number of activities to promote research, such as one-day courses, prizes for research, and access to documentary and research resources

## Group members

- **Calderari Fernández, Elena:** R2. Recognised Researcher.
- **Cid Expósito, Gema:** R2. Recognised Researcher.
- **Corral Liria, Inmaculada:** R2. Recognised Researcher.
- **De las Pozas Abril, Julia:** R1. First Stage Researcher.
- **Durango Limárquez, M<sup>a</sup> Isabel:** R1. First Stage Researcher.
- **Fernández Arranz, Julita:** R2. Recognised Researcher.
- **Fernández Blanco, Raquel:** R2. Recognised Researcher.
- **García Perea, Eva:** R2. Recognised Researcher.
- **García Pozo, Ana M<sup>a</sup>:** R4. Leading Researcher.
- **González Baz, M<sup>a</sup> 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.
- **Lobo Rodríguez, Carmen:** R2. Recognised Researcher.
- **López Sánchez, Raquel:** R2. Recognised Researcher.
- **Luengo González, Raquel:** R2. Recognised Researcher.
- **Martín Fernández, Milagros:** R1. First Stage Researcher.

- **Martínez Castellanos, Teresa:** R1. First Stage Researcher.
- **Medina Torres, Margarita:** R1. First Stage Researcher.
- **Moro Tejedor, M<sup>a</sup> Nieves:** R2. Recognised Researcher.
- **Oltra Rodríguez, Enrique:** R2. Recognised Researcher.
- **Palacios Ceña, Domingo:** R3. Established Researcher.
- **Pascual Fernández, Cristina:** R2. Recognised Researcher.
- **Peña Granger, M<sup>a</sup> de las Mercedes:** R1. First Stage Researcher.
- **Peña Otero, David:** R2. Recognised Researcher.
- **Ramasco Gutiérrez, Milagros:** R2. Recognised Researcher.
- **Recio Vivas, Ana M<sup>a</sup>:** R2. Recognised Researcher.
- **Robledo Martín, Juana:** R2. Recognised Researcher.
- **Soto Lucía, M<sup>a</sup> Consuelo:** R1. First Stage Researcher.
- **Suárez Bustamante, Rosa:** R1. First Stage Researcher.
- **Toraño Olivera, M<sup>a</sup> José:** R1. First Stage Researcher.
- **Trujillo Gallego, Fernando:** R1. First Stage Researcher.
- **Vaquero Lozano, M<sup>a</sup> Paz:** R1. First Stage Researcher.
- **Velarde García, Juan Francisco:** R2. Recognised Researcher.
- **Visiers Jiménez, Laura:** R2. Recognised Researcher.

## Research Projects - Competitive Calls

- Title: Efectividad de una intervención precoz en el diagnóstico y tratamiento de la hiponatremia para la prevención de caídas en pacientes hospitalizados.** FMM14/09  
 Director: CARMEN LOBO Rodríguez  
 Project type: Research project  
 Funding body: MUTUA MADRILEÑA FOUNDATION  
 Start date: 26/09/2014  
 End date: 24/07/2019

## Cooperative Research Structures

Type (RETIC, CIBER, others)	Name of Network	Role
Plataforma ISCIII	Plataforma Española de Ensayos clínicos SCReN	Collaborating group

## Industrial and intellectual property registrations

### Intellectual property

Title	Reference	Owner	Inventors
Nos vamos de excursión a las Urgencias del Gregorio Marañón	Nº Asiento Registral: 16/2016/3799	FIBHGM	Laura Cervantes, Paula Vázquez, David García

## Doctoral theses, Bachelor theses and Master theses

Type	Candidate	Title	Name/s Director/s	University	Date Defended
Master Thesis	Susana Arias Rivera	Adaptación y validación de escalas de fragilidad en pacientes críticos ingresados en unidades de cuidados intensivos de España	María Nieves Moro Tejedor	URJC	15/07/2019
Master Thesis		Percepción del ambiente educacional de los estudiantes de enfermería durante su período de prácticas asistenciales	María Dolores González Baz	UCM	10/06/2019
Bachelor Thesis		Plan de cuidados estandarizado: paciente hospitalizado con crisis miasténica	María Dolores González Baz	UCM	03/06/2019
Bachelor Thesis		Revisión bibliográfica de la atención al paciente con delirium	María Dolores González Baz	UCM	04/06/2019
Bachelor Thesis		La enfermera escolar: situación actual y necesidades de la población infantil	Raquel López Sánchez	Universidad de Oviedo	18/11/2019
Bachelor Thesis		Cuidados de enfermería en el paciente oncológico pediátrico y la integración de la terapia asistida con animales	Raquel López Sánchez	Universidad de Oviedo	17/07/2019
Bachelor Thesis		La función de la enfermera en el proceso de triaje	Raquel López Sánchez	Universidad de Oviedo	17/07/2019



Publications		Total Impact Factor: 8.5
	Nº	IF
Own publications	3	5.5
Joint publications	2	2.9
First decile publications	0	-
First quartile publications	1	2.8
Second quartile publications	0	0.0
Third quartile publications	1	1.3
Fourth quartile publications	3	4.3
Nonindexed publications / No IF	5	-
<b>Total publications (including those without IF)</b>	<b>10</b>	<b>8.5</b>

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

- Míguez Navarro C; Oikonomopoulou N; Rivas García A; Mora Capín A; Guerrero Márquez G; en representación del Grupo de Analgesia y Sedación de la Sociedad Española de U. Efficacy, safety and satisfaction of sedation-analgesia in Spanish emergency departments. ANALES DE PEDIATRIA. 2019; 90(1) 32-41. FI: 1.313. Cuartil: 3. (Article).
- Sánchez-Camarero, C; Ortega-Santiago, R; Arias-Horcajadas, F; Madoz-Gurpide, A; Miangolarra-Page, JC; Palacios-Cena, D. Altered fine motor control and manual dexterity in people with cocaine dependence: An observational study. AUSTRALIAN OCCUPATIONAL THERAPY JOURNAL. 2019; 66(3) 304-312. FI: 1.055. Cuartil: 4. (Article).
- Álvarez-Villarreal, M; Velarde-García, JF; Chocarro-González, L; Pérez-Corrales, J; Gueita-Rodríguez, J; Palacios-Cena, D. Body Changes and Decreased Sexual Drive after Dialysis: A Qualitative Study on the Experiences of Women at an Ambulatory Dialysis Unit in Spain. INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH. 2019; 16(17) -. FI: 2.849. Cuartil: 1. (Article).

- Bailen, R; Pérez-Corral, AM; Pascual, C; Kwon, M; Serrano, D; Gayoso, J; Balsalobre, P; Muñoz C; Díez-Martín, JL; Anguita, J. Factors predicting peripheral blood progenitor cell mobilization in healthy donors in the era of related alternative donors: Experience from a single center. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 359-366. FI: 1.629. Cuartil: 4. (Article).
- Pascual, C; González-Arias, E; Pérez-Corral, AM; Bailen, R; Gayoso, J; Besson, N; Serrano, D; Kwon, M; Anguita, J; Díez-Martín, JL. Mononuclear cell collection for extracorporeal photopheresis by using the "off-line" system: A comparative study between COBE Spectra and Spectra Optia devices. JOURNAL OF CLINICAL APHERESIS. 2019; 34(4) 373-380. FI: 1.629. Cuartil: 4. (Article).

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

- Sánchez, LG; Flores, MF; Cirujano, ML; Castano, V; Rincón, M. Nutritional intervention in patients with heart failure. 3 month results of a clinical trial. NUTRICION CLINICA Y DIETETICA HOSPITALARIA. 2019; 39(1) 22-31. (Article).

#### **Other publications**

- Osorio Álvarez S; Riestra Rodríguez MDR; López Sánchez R; Alonso Pérez F; Oltra Rodríguez E. Type 1 diabetes mellitus prevalence and care in children under 15 years old in Asturias. ENDOCRINOLOGIA, DIABETES Y NUTRICION. 2019; 66(3) 188-194. (Article).
- Visiers Jimnénez, Laura; Peña Otero, David; Baeza Monedero, Isabel; Recio Vivas, Ana María; Kajander Unkuri, Satu; García, A. Evaluación de competencias entre los profesionales formados en España. Validación al castellano de la escala Nursing Competence Scale. INDEX DE ENFERMERIA. 2019; (25 (1)) -. (Article).
- MORO, M. Actualización Bibliográfica. REVISTA DE ENFERMERÍA Y SALUD MENTAL. 2019; 13 33-35. (Article).
- Peña-Otero D; Eguillor-Mutiloa M; Moro-Tejedor MN; Medina-Torres M; García-Pozo A. PREVENTION OF PRESSURE ULCERS IN NASAL BRIDGE DURING NON-INVASIVE MECHANICAL VENTILATION. DISCUSSION OF RESULTS. ULSTER MED J. 2019; 88(3) 183-183. (Letter).

# 5

## Other research activities

- ▶ Publications generated by clinical researchers associated with the IISGM
- ▶ Publications generated with the participation of the Research Support Services (RSSs)





# Publications generated by clinical researchers associated with the IISGM

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

- Muñoz, M; Antón, A; Castany, M; Gil, A; Martínez, A; Muñoz-Negrete, FJ; Urcelay, J; Moreno-Montañés, J. The EX-PRESS glaucoma shunt versus nonpenetrating deep sclerectomy with Esnoper implant in combined surgery for open-angle glaucoma: a prospective randomized study. ACTA OPHTHALMOLOGICA. 2019; 97(7) 952-961. FI: 3.362. Cuartil: 1. (Article).
- González, E; Arias, F; Szerman, N; Vega, P; Mesias, B; Basurte, I. Coexistence between personality disorders and substance use disorder. Madrid study about prevalence of dual pathology. ACTAS ESPANOLAS DE PSIQUIATRIA. 2019; 47(6) 218-228. FI: 1.681. Cuartil: 3. (Article).
- Lloret-Dura, MA; Panach-Navarrete, J; Martínez-Jabaloyas, JM; Valls-González, L; Cozar-Olmo, JM; Minana-López, B; Gómez-Veiga, F; Rodríguez-Antolin, A; Grp Espanol Canc Prostata. Factors related to early castration resistance in metastatic prostate cancer. Results from the National Prostate Cancer Registry in Spain. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(6) 305-313. FI: 0.873. Cuartil: 4. (Article).
- Subira-Rios, D; Herranz-Amo, F; Renedo-Villar, T; Moralejo-Garate, M; del Pozo-Jiménez, G; Bueno-Chomon, G; Rodríguez-Fernández, E; Moncada-Iribarren, I; Hernández-Fernández, C. Influence of laparoscopic access in cancer-specific mortality of patients with pTa-2pN0 bladder cancer treated with radical cystectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 12-17. FI: 0.873. Cuartil: 4. (Article).
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- García, LE; González, J; Serena, G; Al-Nuss, MA; Morsi, M; DeFaria, W; Ciancio, G. Donor vascular patch for reconstruction of the aorta and inferior vena cava in pediatric en bloc kidney transplantation. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(5) 241-247. FI: 0.873. Cuartil: 4. (Article).
- Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Gil, MJC; Velasco, JC; Rascon, JJ; de Castro, JM; Fernández, CH. Comparison of classical transrectal prostate biopsy versus cognitive registration in rebiopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(10) 562-567. FI: 0.873. Cuartil: 4. (Article).
- Bernardos, GB; Amo, FH; Campos, ED; Cardo, AL; Arriero, AH; Velasco, JC; Gil, MJC; Rascon, JJ; de Castro, JM; Fernández, CH. Effectiveness of the «cognitive» biopsy in the diagnosis of prostate cancer in patients with a previous negative biopsy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(9-10) 515-516. FI: 0.873. Cuartil: 4. (Letter).
- Fernández-Bautista B; Hernández, AP; Rodríguez, RO; Lucena, LB; Madero, JMA. Endourological treatment of symptomatic ureteral stump posnephrectomy. ACTAS UROLOGICAS ESPANOLAS. 2019; 43(1) 39-43. FI: 0.873. Cuartil: 4. (Article).
- González-Álvarez, S; Madoz-Gurpide, A; Parro-Torres, C; Hernández-Huerta, D; Mangado, EO. Relationship between alcohol consumption, whether linked to other substance use or not, and antiretroviral treatment adherence in HIV plus patients. ADICCIONES. 2019; 31(1) 8-17. FI: 3.167. Cuartil: 1. (Article).
- de Pablo, GS; Serrano, JDV; Vallejo, SG; Cerezo, JS; Ruiz, CM. Applications of Developmental Psychopathology. ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY. 2019; 1192 429-451. FI: 2.45. Cuartil: 2. (Article).



- Kwon, M; Bailén, R; Balsalobre, P; Jurado, M; Bermúdez, A; Badiola, J; Esquirol, A; Miralles, P; López-Fernández, E; Sanz, J; Yañez L; Colorado, M; Piñana JL; Dorado, N; Solán, L; Martínez Laperche C; Buño I; Anguita, J; Serrano, D; Díez-Martín, JL; Grupo Español de Trasplante Hematopoyético y Terapia Celular (GETH). Allogeneic stem-cell transplantation in HIV-1-infected patients with high-risk hematological disorders. AIDS. 2019; 33(9) 1441-1447. FI: 4.511. Cuartil: 1. (Article).
- Oikonomopoulou, N; Miguez-Navarro, C; Rivas-García, A; Gamiz, MG; López-López, R; Oliver-Saez, P; Riano-Mendez, B; Farfan-Orte, T; Lobato-Salinas, Z; Rubies-Olives, J; Llena-Isla, P; Lancho-Monreal, EM; Spanish Soc Pediat Emergencies RI. Assessment of proadrenomedullin as diagnostic or prognostic biomarker of acute appendicitis in children with acute abdominal pain. AMERICAN JOURNAL OF EMERGENCY MEDICINE. 2019; 37(7) 1289-1294. FI: 1.911. Cuartil: 2. (Article).
- López-Abente, J; Bernaldo-de-Quirós, E; Camino, M; Gil, N; Panadero, E; Campos-Domínguez, M; Seoane-Reula, E; Gil-Jaurena, JM; Pion, M; Correa-Rocha, R. Immune dysregulation and Th2 polarization are associated with atopic dermatitis in heart-transplant children: A delicate balance between risk of rejection or atopic symptoms. AMERICAN JOURNAL OF TRANSPLANTATION. 2019; 19(5) 1536-1544. FI: 7.338. Cuartil: 1. (Article).
- Segovia, AC; Ledesma, CC; Blázquez, ML; Pérez, AP. Neonate with cervical tumours. ANALES DE PEDIATRIA. 2019; 91(4) 228-236. FI: 1.313. Cuartil: 3. (Article).
- Pérez-Moreno, J; Leal-Barcelo, AM; Isidro, EM; Toledo-del Castillo, B; González-Martínez, F; González-Sánchez, M; Rodríguez-Fernández, R. Detection of risk factors for preventable paediatric hospital readmissions. ANALES DE PEDIATRIA. 2019; 91(3) 180-188. FI: 1.313. Cuartil: 3. (Article).
- Moreno, JP; Navazo, SD; Arteta, ELH; Hernani, MT; Martínez, FG; Sánchez, MIG; Fernández, RR. Influence of nutritional status on clinical outcomes in hospitalised children. ANALES DE PEDIATRIA. 2019; 90(4) 256-257. FI: 1.313. Cuartil: 3. (Editorial Material).
- Tunas, MCA; Orive, FJP; Merino, ER; Cid, JLH; Martín, GM; Casas, PG; González, AH; Fraga, CR; Galán, CR; Rodríguez, MRR; Rastrollo, RH; Carrion, FF; Núñez, AR; MOMUCIP RETROSPECTIVE Working Grp. Modes of dying of children in Intensive Care Units in Spain: MOMUCIP study. ANALES DE PEDIATRIA. 2019; 91(5) 328-335. FI: 1.313. Cuartil: 3. (Article).
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## CELL THERAPY UNIT

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During this year 2019, the funding provided to the FIBHGM by Janssen-Cilag S.A. to support the «Fellowship Program for Scientific Research» came to 125,000 €.