

ANNUAL SCIENTIFIC REPORT 2019

i+12
Instituto de Investigación
Hospital 12 de Octubre



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Presentation

Another year completed and it is a pleasure for me to present you the Annual Activity Report 2019 of the Instituto de Investigación Hospital 12 de Octubre (Instituto i+12). As every year, the aim of the report is to inform you about the scientific activity carried out at the Institute during the past 12 months.

To begin with, I would like to comment that in December 2018 the term of the Instituto i+12 Strategic Plan came to an end, so at the beginning of 2019 the Institute's new Strategic Plan for the period 2019-2023 was presented and implemented. After carrying out an internal, external and benchmark analysis of the situation of the Instituto i+12, the mission, vision and values of the institution were redefined, as did the description of the new objectives and strategic axes of the institute. The new Strategic Plan is structured in 4 Strategic Areas: Sustainability and Development, Communication, Innovation and Quality, and its main objective is to consolidate and grow the activity developed by the Instituto i+12 in recent years.

Among the activities carried out at the Instituto i+12 during 2019 in the field of communication, we should mention that work has been done on including new content on the corporate website and on modifying the design of the page to make it more accessible to users and thus increase the visibility and dissemination of the scientific activity carried out by our professionals.

As has been the case in recent years, in 2019 satisfaction surveys have again been carried out for the Institute's management staff and our team of professionals. The results of these surveys allow us to evaluate the quality of the work carried out by the management structure of the Instituto i+12 with the aim of implementing possible improvement measures.

A highlight activity carried out at the Instituto i+12 in 2019 has been the start-up of a 3D Printing Unit in the Radiotherapy Oncology Department thanks to the intramural funding of a research project. With the creation of this Unit, the aim is to channel all the 3D printing activity that is being carried out in different departments of the 12 de Octubre Hospital.

On the other hand, following the recommendations of the European Union, the Instituto i+12 has worked in 2019 to obtain the European award in human resources "HR Excellence in Research" (HRS4R).

I must stress that the results of the scientific activity presented in this report show, year after year, the clear consolidation of the scientific excellence of the Instituto i+12. The evaluation of the Institute is basically measured in the number and quality of its scientific publications and research projects and the objective data for 2019 is very positive.

The total number of publications by the consolidated and emerging research groups and associated clinical researchers of the Instituto i+12 has increased over the last five years, both in terms of original articles and in reviews and editorials, reaching 935 indexed publications in 2019, with an Accumulated Impact Factor of 5,415.428 points. Of the total publications, 53.16% were published in first quartile journals (Q1) and of these, 43.86% correspond to first decile journals (D1). The data indicated represent a considerable increase with respect to the scientific production generated in 2018 and show the consolidation of the growing trend of scientific production shown in recent years.



In addition, our researchers have obtained funding over the last year to carry out more than 34 research projects, in public and private, national and international competitive calls, 233 research projects are active and 268 clinical trials and observational studies have been contracted. Similarly, during the 2019 academic year, the results of the research work carried out at the Instituto i+12 led to the publication of 31 clinical practice guidelines and members of the Institute directed and/or defended 33 doctoral theses.

In relation to the activity carried out by the Innovation Support Unit (ISU) of the Instituto i+12, it should be noted that, thanks to the good work carried out by its members, the activity of this Unit continues to increase. The ISU has continued to work on disseminating and publicizing its activity by means of information sessions and satisfaction surveys. One of the most important tasks carried out by the ISU is to provide advice to all the professionals of the Instituto i+12 in aspects related to innovation and knowledge transfer, such as the evaluation of ideas, support in the protection of intellectual property rights, the search for technological and/or commercial partners, the development of projects, etc. In 2019, among other things, it is worth highlighting the important support provided by the ISU in the creation (licence agreements/partner agreements, participation of the i+12 Foundation in the share capital) of the "ALTUM SEQUENCING" spin-off in the i+12 healthcare setting. ALTUM is focused on the analysis of diagnostic samples or relapses to identify genetic alterations related to progression, response to drugs and survival.

As in previous years, and aware of the need to establish measures and mechanisms of action necessary to stimulate and promote research activity at the Instituto i+12, the Foundation for Biomedical Research at the 12 de Octubre Hospital included, within its Action Plan for 2019, the necessary funding to publish the intramural calls for aid for the intensification of research and innovation activity, covering different professional profiles. It also included the call for aid for the recruitment of auxiliary staff associated with research projects, the call for aid for the incorporation of a Chief resident/researcher, a highly successful and highly praised call, as well as a call for aid for the financing of intramural projects.

Once again, the annual Activity Report gives us the opportunity to publicly show the achievements and improvements made by our institution, all thanks to the daily effort and complete dedication of all the professionals who are part of the Instituto i+12.

Finally, I would like to congratulate all our researchers, collaborators, managers and other members for the magnificent work done throughout the year and the results obtained.

Thank you very much.

Joaquín Arenas Barbero
Scientific Director, Instituto i+12

Participating Entities

The Instituto de Investigación Hospital 12 de Octubre (Instituto i+12) is a functional structure for multidisciplinary and translational biomedical research aimed at basic, clinical, epidemiological and health services research. The Instituto i+12 was constituted in 2009 through the association of different entities with common interests. The entities that currently make up the Instituto i+12, are as following:



- Servicio Madrileño de Salud (Madrid Health Service), through Hospital Universitario 12 de Octubre and primary care.
- Universidad Complutense de Madrid.
- Universidad Autónoma de Madrid.
- Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT).
- Universidad Europea (UE).
- Fundación para la Investigación Biomédica del Hospital 12 de Octubre.
- Dirección General de Investigación, Docencia y Documentación de la Consejería de Sanidad de la Comunidad de Madrid.

Mission, Vision, and Values

Mission

Develop research and innovation activities in line with state and European quality standards, adapted to social and business demands and aimed at achieving a direct impact on improving the health of the population in collaboration with patients, research centres and related companies".

Vision

"The Instituto i+12 aspires to become a reference centre in multidisciplinary biomedical research, being recognised as a driving force for the generation and dissemination of knowledge, due to its capacity to incorporate the most avant-garde techniques and its alliances with other stakeholders in the sector, especially in the university field and other Health Research Institutes".

Values

- Commitment to patients and the institution
- Sensitivity to society's needs.
- Orientation to excellence through continuous evaluation and improvement.
- Transparency with its members and with third parties.
- Collaboration with other stakeholders.

ORGANIZATIONAL STRUCTURE

Governing Bodies

Goberning Council
Delegated Commission
Directorate
Sub-Directorate

Advisory Bodies

Scientific Advisory Board
Research Committee

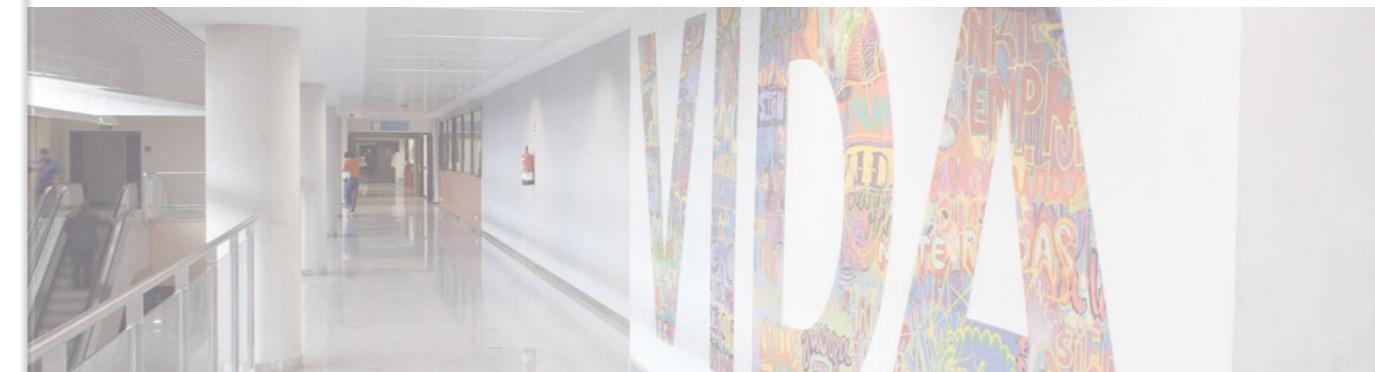
Ethics Committees

Ethics Committee for Research with Medical Products (ECRMP)
Ethics Committee for Animal Welfare

Management and Administration

Financial-Administrative Management Area
Scientific Management Area

General Organizational Structure of Instituto i+12





Consistent with the requisites set out in Article 3 of Royal Decree 279/2016, dated July 5, on certification of Biomedical and Health Research Institutes and as stipulated in Clause 6 of the Cooperation Agreement, the organizational structure of Instituto i+12 includes governing, management, advisory, and operational bodies. The main governing body is the Goberning Council, which includes the Patronato de la Fundación para la Investigación Biomédica del Hospital 12 de Octubre. All of the bodies making up the Instituto i+12 are represented in both the Goberning Council and the Delegated Commission.

As the management body of the Institute, the Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120) is included in the general organizational structure of Instituto i+12 and is complemented by the Scientific Management Area.

Governing Bodies

Goberning Council

The Gobrning Council is the governing body for representation, management, and administration of Instituto i+12. All the organizations that make up Instituto i+12 are represented in this body, as reflected in the Cooperation Agreement and as stipulated in RD 279/2016. The composition of the Gobrning Council is stipulated in clause 7 of the Cooperation Agreement for the creation of Instituto i+12. The Gobrning Council is formed by the persons set out below.

CHAIR

Ana Dávila-Ponce de León Municio

Vice-Councillor of Health Care, Servicio Madrileño de Salud

FIRST VICE-CHAIR

Margarita San Andrés Moya

Vice-rector for Research and Transfer of the UCM. Representative of the Universidad Complutense de Madrid (UCM)

SECOND VICE-CHAIR

Rafael Garesse Alarcón

Rector of the UAM. Representative of the Universidad Autónoma de Madrid (UAM)

MEMBERS

Carmen Martínez de Pancorbo González

Managing Director, Hospital Universitario 12 de Octubre and President of Patronato de la Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Antonio Jesús Roldán Rodríguez-Marín

Member of the Board of Trustees, FIBH120, Vice-Chair

José Nieves González

Member of the Board of Trustees, FIBH120

Mª Andión Goñi Olangua

Member of the Board of Trustees, FIBH120

Joaquín Arenas Barbero

Member of the Board of Trustees, FIBH120 and Director of Instituto i+12

Mª del Puy Goyache Goñi

Member of the Board of Trustees, FIBH120

Mª Ángeles Moro Sánchez

Member of the Board of Trustees, FIBH120

José Luis Pablos Álvarez

Member of the Board of Trustees, FIBH120, and representative of the Research Committee of Instituto de Investigación Hospital 12 de Octubre (i+12)

Javier Árias Díaz

Deacon of the School of Medicine, UCM

José Manuel Cuevza Marcos

Representative of the UAM

Jesús Mª Paramio González

Representative of the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT)

Eva Mª Icarán Francisco

Representative of Universidad Europea (UE)

Agustín Gómez de la Cámara

Representative of the Research Committee of Instituto de Investigación Hospital 12 de Octubre (i+12)

SECRETARY

Mª del Mar López Martín

Director of FIBH120



Delegated Commission

The Delegated Commission is the executive governing body of Instituto i+12. All of the entities from the centers that make up the Institute are represented in this body and in the Gorbening Council, as reflected in the cooperation agreement and as established by the requirements of Royal Decree 279/2016. The Delegated Commission is formed by the following members of the Gorbening Council:

CHAIR

Carmen Martínez de Pancorbo González

Managing Director of Hospital Universitario 12 de Octubre

MEMBERS

Joaquín Arenas Barbero

Scientific Director of Instituto de Investigación Hospital 12 de Octubre (i+12)

Antonio Jesús Roldán Rodríguez-Marín

Representative of Hospital Universitario 12 de Octubre

José Nieves González

Representative of Hospital Universitario 12 de Octubre

Javier Árias Díaz

Representative of UCM

José Manuel Cuezva Marcos

Representative of UAM

Jesús Mª Paramio González

Representative of CIEMAT

Eva Mª Icaran Francisco

Representative of UE

José Luis Pablos Álvarez

Representative of the Research Committee of i+12

Agustín Gómez de la Cámara

Representative of the Research Committee of i+12

SECRETARY

Mª del Mar López Martín

Director of FIBH120

Directorate

Given the guidelines set out in Royal Decree 279/2016, the organizational structure of Instituto i+12 has a Scientific Director, who acts as Director of the Institute and is the person responsible for executive management. The Scientific Director has a series of additional functions.

The Director of Instituto i+12 is appointed and relieved by the Gorbening Council.

The position of Director of Instituto i+12 is currently held by:

Joaquín Arenas Barbero

Sub-Directorate

With the growth and development of Instituto i+12 in recent years, the Scientific Management of the organization considered it necessary to establish the Scientific Sub-Directorate.

The main function of the Scientific Sub-Directorate is to support the management of the Institute in all relevant activities when necessary, in such a way that it streamlines the work of the Scientific Directorate and guarantees appropriate performance of its functions.

The Scientific Subdirector is proposed by the Directorate of the Institute and removed by the Gorbening Council.

In 2019 the position of Scientific Subdirector is held by:

Ignacio Lizasoain Hernández

Head of the Neurovascular Research group of Instituto de Investigación Hospital 12 de Octubre (i+12). Professor. Department of Pharmacology. School of Medicine. UCM.



Advisory Bodies

Scientific Advisory Board

The Scientific Advisory Board is the main advisory body of Instituto i+12. Its priority mission is to monitor the scientific quality of the Institute and to advise the Scientific Directorate and the Governing Bodies.

This committee is formed by a team of professionals who are highly qualified and experienced in the field of research.

The members of the Scientific Advisory Board are appointed and relieved by the Gorbening Council of Instituto i+12. They belong to the committee for 4 years and can be re-elected for the same period.

The members who currently make up the Scientific Advisory Board of Instituto i+12 are the following:

CHAIR

Jerónimo Pachón Díaz

Professor of Medicine, Universidad de Sevilla with a position linked to Hospital Universitario Virgen del Rocío, Sevilla

MIEMBROS

Alvar Agustí García-Navarro

Director of Institut Clínic del Tòrax, Hospital Clínic, Barcelona

Antonio L. Andreu Periz

Scientific Director EATRIS-Europa

Joaquín Vicente Arribas López

Scientific Director, Centro de Investigación Biomédica en Red de Cáncer - CIBERONC. Director of Preclinical Research, Instituto de Oncología Vall D'Hebron – VHI, Barcelona

Carmen Ayuso García

Scientific Director, Instituto de Investigación Sanitaria de la Fundación Jiménez Díaz, Madrid

Rafael Bañares Cañizares

Vice-Deacon for Evaluation of Quality and Innovation, Facultad de Medicina de la UCM, Head of the Digestive Medicine Service, Hospital General Universitario Gregorio Marañón, Madrid

José Fernández Piqueras

Professor of Genetics, Universidad Autónoma de Madrid, Department of Biology, Centro de Biología Molecular Severo Ochoa, CSIC/UAM, Madrid

Ángel Gil de Miguel

Professor of Preventive Medicine and Public Health and Vice-Rector of Cooperation in Development, Volunteering, and Institutional Relations, Universidad Rey Juan Carlos, Madrid

Santiago Moreno Guillén

Head of the Infectious Diseases Department, Hospital Universitario Ramón y Cajal, Professor of Medicine, Universidad de Alcalá, Madrid

Eduard Vieta Pascual

Scientific Director of CIBERSAM, Head of the Department of Psychiatry and Psychology, Hospital Clínic de Barcelona, Professor, Universidad de Barcelona

Empar Lurbe i Ferrer

Professor of Pediatrics, Universidad de Valencia. Head of the Pediatrics Department, Hospital General de Valencia. Head of the Reference Unit against obesity and cardiovascular risk in children and adolescents, Comunidad Valenciana

COORDINATOR

Joaquín Arenas Barbero

Scientific Director, Instituto de Investigación Hospital 12 de Octubre (i+12)

Research Committee

The Research Committee is the body that advises and supports the Scientific Directorate of the Institute in the performance of its functions.

It comprises a minimum of 8 and maximum of 17 members. The Research Committee is presided over by the Directorate of Instituto i+12.

The 9 Areas of Instituto i+12 are represented on the Research Committee through the Area Coordinators and coordinators of staff researchers at the Institute. The Training Coordinator and the Quality Coordinator of the Institute are also part of this Committee.

The members of the Research Committee are appointed and removed by the Gorbening Council on the proposal of the consolidated research groups of the Institute and of the Scientific Directorate. Members belong to the Research Committee for a period of 4 years and may be re-elected for the same period.

The Research Committee of Instituto i+12 is currently composed of the following members:

CHAIR

Joaquín Arenas Barbero

Director, Instituto de Investigación Hospital 12 de Octubre (i+12)

MEMBERS

José Luis Rodríguez Peralto

Coordinator of the Cancer Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Manuel Praga Terente

Coordinator of the Chronic Diseases and Transplantation Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Miguel Ángel Martín Casanueva

Coordinator of the Rare and Genetically Based Diseases Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Agustín Gómez de la Cámara

Coordinator of the Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems Research Area and Training Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12)

Héctor Bueno Zamora

Coordinator of the Cardiovascular Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

José Luis Pablos Álvarez

Coordinator of the Inflammatory Diseases and Immune Disorders Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Rafael Delgado Vázquez

Coordinator of the Infectious Diseases and AIDS Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Eva M^a Carro Díaz

Coordinator of the Neurosciences and Mental Health Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Francisco Javier Fernández Martínez

Coordinator of the Transversal Research Area, Instituto de Investigación Hospital 12 de Octubre (i+12)

Gema Ruiz Hurtado

Head of the Translational Research in Hypertension and Cardiorenal Disease, Instituto de Investigación Hospital 12 de Octubre (i+12)

SECRETARY**María López Berlanga**

Quality Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12)

Ethics Committees

Instituto i+12 has a further 2 advisory bodies whose mission is to evaluate ethical issues both in clinical trials with humans, Ethics Committee for Research with medical products (ECRMP) and in research with animals, Ethics Committee for Animal Welfare.

Ethics Committee for Research with Medical Products (ECRMP)

The Royal Decree on Clinical Trials, RD 1090/2015, dated December 4, defines the Ethics Committee for Research with medical products (ECRMP) as a Research Ethics Committee that is also certified to provide an opinion on a clinical study with medicines and in clinical research with health care products.

Hospital Universitario 12 de Octubre provides Instituto i+12 with the Ethics Committee for Research with medical products (ECRMP) for the evaluation of bioethical issues in clinical trials performed with medicines for use in humans by researchers from the institute.

The current members of the ECRMP of Instituto i+12 are the following:

CHAIR**M^a del Puy Goyache Goñi**

Pharmacist, Hospital Pharmacy

VICE-CHAIR**Luis Manuel Manso Sánchez**

Pharmacist, Hospital Pharmacy

MEMBERS**Jorge Adeva Alfonso**

Physician, Oncology

M^a Luisa Albelda de la Haza

Law Graduate

Sagrario Alegre Alonso

AECC Coordinator

Gonzalo Carreño Gómez-Tarrago

Physician, Hematology

Eva M^a Carro Díaz

Research Comission

Mercedes Catalán González

Physician, Intensive Care


Mar Espino Hernández
Pediatrician, Primary Care
Mª Pilar Hernández Suarez
University Diploma in Nursing
Mª Teresa García Morales
Telecommunications Engineer (Delegate Data Protection)
Ana Jiménez Ubieto
Physician, Hematology
Cristina Martín-Arriscado Arroba
Estatistician
Francisco Javier Mazuecos Gómez
Social Worker, Ayuntamiento de Madrid
Julián Palomino Doza
Physician, Cardiology
Estela Paz Artal
Physician, Immunology
Montserrat Pilas Pérez
University Diploma in Nursing
María del Carmen Riesco Martínez
Physician, Oncology
Yolanda Rodríguez Gil
Physician, Histopathology
Roberto Rodríguez Jiménez
Physician, Psychiatry
David Sánchez Guzmán
Physician, Primary Care
Rafael San Juan Garrido
Physician, Microbiology
Raquel Siguín Gómez
Pharmacist, Hospital Pharmacy
Sarahí Elisabeth Valdez Acosta
Clinical (Technical Secretary CElm)
Raquel Sopeña Sutil
Physician, Urology
SECRETARY
María Ugalde Díez
Doctor of Biological Sciences
Ethics Committee for Animal Welfare

Hospital Universitario 12 de Octubre has an Ethics Committee for Animal Welfare composed of members of the Instituto de Investigación Hospital 12 de Octubre. Taking into consideration the law set out in Royal Decree 53/2013, the members of this Committee are the following:

CHAIR
José Luis Pablos Álvarez
Representative of the Research Committee, Instituto de Investigación Hospital 12 de Octubre (i+12)
MEMBERS
Miguel Ángel Martín Casanueva
Head of Translational Research Platforms
María López Berlanga
Quality Coordinator, Instituto de Investigación Hospital 12 de Octubre (i+12)
Ángel Tejido Sánchez
Representative of the Academic Committee, H120
SECRETARY
Montserrat Grau Sanz
Specialist in Animal Welfare



Management and Administration

Financial-Administrative Management Area

The Financial-Administrative Management Area of Instituto i+12 is the technical unit of Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120). It is organized into 5 main units.

- Quality and Strategic Planning Unit - María López Berlanga.
- Innovation Support Unit - María López Berlanga, Mercedes Avilés Escudero, M^a Isabel de Mier Barragán.
- Training Unit - Agustín Gómez de la Cámara.
- Project Management Unit - María Ugalde Díez, Fernando Valero Bonilla.
- Information Systems Unit - Gustavo Roig Domínguez, Victoria Pilar García Vaquero.
- Technical Secretary, Ethics Committee - María Ugalde Díez, Sarahí Valdez Acosta, Sara Pérez de Lara.
- Scientific Documentation Service - José Manuel Estrada Lorenzo.

HEAD

M^a del Mar López Martín

Director, FIBH120

- Accounting Unit - Eva Montero Sánchez, Montserrat Arias Ramos.
- Project Follow-up Unit - Elvira Romero Molina, Carmen Racionero Tirados.
- Billing, Private Management and Clinical Trials Unit - Asunción Chacón Sánchez, Lupe Torrejón Navarro, María Pie de Lobo.
- Human Resources Unit - Sara Palacios Bermejo.
- Purchases Unit - María Pie de Lobo.

Scientific Management Area

After the constitution and start-up of Instituto i+12, the management structure was gradually strengthened year after year with the incorporation of various units that made it possible to extend the portfolio of management services the Institute offered, thus diversifying its activities.

These units were organized into the Scientific Management Area, with the aim of creating an integrated structure for management by the professionals of Instituto i+12.

The Scientific Management Area is currently made up of the following units:

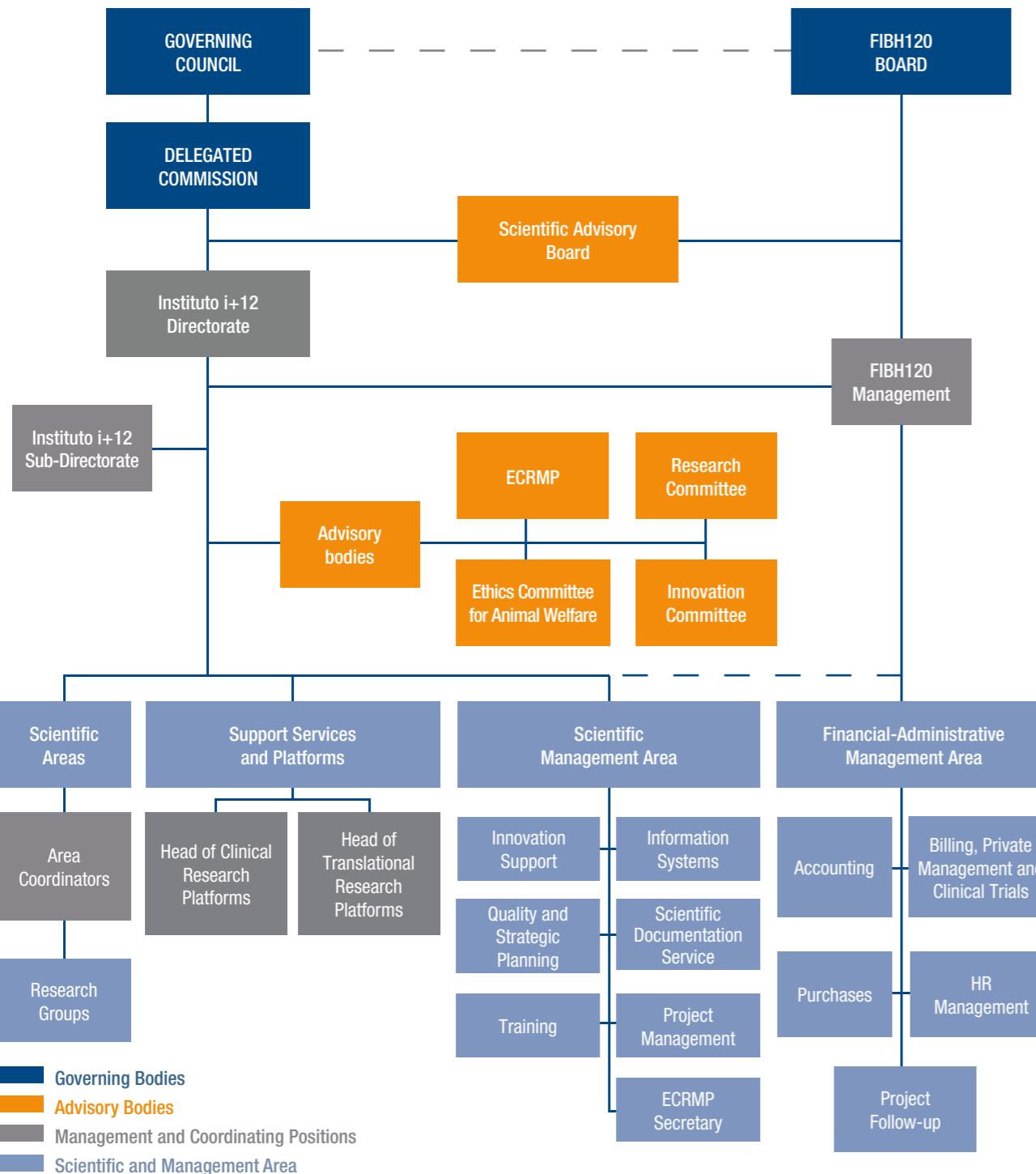
HEADED BY

Joaquín Arenas Barbero

Scientific Director, Instituto de Investigación Hospital 12 de Octubre (i+12).



General Organizational Structure of Instituto i+12



HUMAN AND TECHNOLOGICAL RESOURCES

Human Resources

Contracts for Researchers and Technicians

Care Staff who Benefited from Grants for Intensification of Research Activity

Technological Resources

Translational Research Support Platforms

Genomics Unit
Proteomics Unit
Cytometry Unit
Confocal Microscopy Unit
Bioinformatics Unit
Animal Facility and Experimental Operating Rooms

Clinical Research Support Platforms

Scientific Support Unit
Biobank

Other Support Services at Instituto i+12

Scientific Documentation Service
Innovation Support Unit i+12



Human Resources

The list of contracts for researchers and technicians funded by the different bodies and programs in Instituto de Investigación Hospital 12 de Octubre (i+12) that were active in 2019 are set out below.

BIOINFORMATIC TECHNICIAN	1
Support bioinformatic technician to the research contracts	1
RESEARCHERS	39
Stabilization Program contracts - ISCIII	4
Stabilization Program contracts - MICINN	1
Researcher contracts SNS-Miguel Servet-ISCIII	9
Juan Rodés contracts	3
Researchers' platform	8
CIBER researchers	14
RESEARCHERS WHO HAVE COMPLETED SPECIALIZED TRAINING IN HEALTH CARE	7
Río Hortega-ISCIII researchers	4
Researchers who have completed specialized training in health care-i+12	2
Research and Teaching - Chief Resident i+12	1
POSTDOCTORAL RESEARCHERS	4
Sara Borrell contracts-ISCIII	1
Juan de la Cierva-MICINN	1
Talent Attraction Programme Contracts - Comunidad de Madrid	1
Postdoctoral-i+12 contracts	1
PREDICTORAL RESEARCHERS	10
Predictoral Researchers in Training in Health Research-ISCIII	2
Enterprise Doctorates in Science and Technology - ISCIII	3
Grant/Contract for Training of University Teaching Staff FPU-MEC	4
Grant/Contract for Training of Researchers FPI-MICINN	1
RESEARCHERS ASSIGNED TO RESEARCH PROJECTS	239
Researchers Assigned to i+12 Projects	39
Researchers Assigned to ECM – i+12 Projects	84
Researchers Assigned to Public Projects	52
Researchers Assigned to Private Projects	64

SUPPORT TECHNICIANS	22
Technician Stabilization Program Contracts – ISCIII	2
Support Technician Contracts – Comunidad de Madrid	18
Research Support Technicians – i+12	2
TOTAL	322

Contracts funded by public bodies and awarded in 2019 are set out below.

Management contracts in health research at the IIS-ISCIII:

Mª Isabel de Mier Barragán

Predictoral contracts for training in health research (PFIS)-ISCIII:

Marta García López

Mikel Mancheño Losa

Cristina Sánchez Carabia

Sara Borrell-ISCIII contracts:

Jonay Poveda Núñez

Miguel Servet II-ISCIII contracts:

María Mittelbrunn Herrero

Río Hortega-ISCIII contracts:

Óscar Cabrera Marante

Fernando Caravaca Fontán

Anna La Salvia

Rocío Laguna Goya

Mikel Mancheño Losa

Raquel Núñez Ramos

Raúl Recio Martínez

Isabel Rodríguez Goncer

Juan Rodés-ISCIII contracts:

Paloma Talayero Giménez de Azcarate

Jon Zugazagoitia Fraile

Grants for incorporation of trainees in research groups and laboratory technicians cofunded by the European Social Fund via the Operational Youth Employment Program (YEL) - Consejería de Educación e Investigación. Comunidad de Madrid (Call 2018 - Resolution 2019):

1 laboratory technician contrac, tutoring by:

▪ Miguel Ángel Martín Casanueva

2 research assistant contracts, tutored by:

- Luis Miguel Allende Martínez
- Jesús Hernández Gallego

Grants for incorporation of trainees in research groups and laboratory technicians cofunded by the European Social Fund via the Operational Youth Employment Program (YEI) - Consejería de Ciencias, Universidades e Innovación. Comunidad de Madrid:

2 laboratory technician contracts, tutored by:

- María del Carmen Fiuza Luces
- Luis Miguel Ruilope Urioste

2 laboratory technician contracts, tutored by:

- Estela Paz Artal
- Gema Ruiz Hurtado

Grants for incorporation of Predoctoral Researchers and Postdoctoral Researchers cofounded by the European Social Fund via the Operational Youth Employment Program and Youth Employment Initiative (YEI) - Consejería de Ciencias, Universidades e Innovación. Comunidad de Madrid:

4 contracts for predoctoral researchers, tutored by:

- Rafael Delgado Vázquez
- Rocío García Carbonero
- Joaquín Martínez López
- Cristina Ugalde Bilbao

Grants to attract research talent to join research groups in the Comunidad de Madrid - Consejería de Educación e Investigación. Comunidad de Madrid:

Juan Manuel Coya Raboso

Grants for pre-doctoral contracts for the training of doctors - Agencia Estatal de Investigación:

Carmen Domínguez Alonso

Grants for training university teachers (FPU) - Secretaría de Estado de Universidades, Investigación, Desarrollo e Innovación. Ministerio de Ciencia, Innovación y Universidades:

Eva Castellano Esparza

Guillermo Moreno Muñoz

Alba Santos Ramos

Grant to fund the incorporation of a Head of Residents/Researcher at Instituto de Investigación Hospital 12 de Octubre - i+12:

Cristina Cases Pérez

Grant to fund the incorporation of a support technician for the Proteomics Unit of i+12:

Inés García-Consuegra Galiana

Grant for the recruitment of a support technician for the Genomics Unit - i+12:

María Consolación Pascual Pérez

Grants associate research project i+12:

- Luis Álvarez Vallina
- Rosa Ayala Díaz
- José Luis Bernal Sobrino
- Julia Carracedo Añón
- Patricia E. Carreira Delgado
- Eva M^a Carro Díaz
- M^a de los Llanos Casanova Hernández
- Rafael Delgado Vázquez
- Francisco Javier Fernández Martínez
- Ana Isabel Flores de la Cal
- M^a Dolores Folgueira López
- Miguel Gallardo Delgado
- M^a Esther Gallardo Pérez
- Mónica García Álvarez
- Alberto García Redondo
- José M^a González Granado
- Alfonso Lagares Gómez-Abascal
- Juan José Lahuerta Palacios
- Ignacio Lizasoain Hernández
- Corina Lorz López
- Miguel Ángel Martín Casanueva
- Francisco Martínez Azorín
- María Mittelbrunn Herrero
- M^a Jesús Morán Bermejo
- José Luis Pablos Álvarez
- Estela Paz Artal
- Luis Paz-Ares Rodríguez
- Ángel Ramírez Merino
- Roberto Rodríguez Jiménez
- José Luis Rodríguez Peralto
- Daniel Rueda Fernández
- Luis Miguel Ruilope Urioste
- Gema Ruiz Hurtado
- Cristina Sánchez García

Pablo Serrano Balazote
 Antonio Serrano Hernández
 Alfredo Tagarro García
 Cristina Ugalde Bilbao
 Ester Viedma Moreno

Postdoctoral research contract. Programme for the Promotion of R&D&I in i+12:

Mónica García Álvarez

Research grant program funded by Janssen Cilag aimed at the following research groups:

Incorporation of research staff in the i+12 research project entitled: "Impacto de la implantación de una consulta 2.0 en la efectividad y seguridad de los pacientes con terapia antineoplásica oral" - i+12:

- Marta González Sevilla

Incorporation of research staff in the i+12 research project entitled: "Proyecto de gestión de enfermos que reciben trasplante hematopoyético" - i+12:

- Nuria Herrero de la Iglesia
- Yasmin Anfalis Hasg-Hamdo

Incorporation of a trainee in the i+12 research project entitled: "Desde una aproximación multidisciplinar a la atención integral al paciente oncológico" - i+12:

- Diana Paredes Ruiz

Incorporation of a trainee in the i+12 research project entitled "Aplicabilidad de inhibidores de CDK4 en el cáncer de vejiga" - i+12:

- Carolina Rubio Martín

Incorporation of a trainee in the i+12 research project entitled: "Estudio de cohorte de pacientes con infección por VIH del Hospital Universitario 12 de Octubre (COHORTE VIH-DOC)" - i+12:

- Adriana Pinto Martínez

Predoctoral Aids in Oncology - Financed by Fundación Científica Asociación Española contra el Cáncer (AECC):

Incorporation Predoctoral Researcher for development oncological research Project i+12 entitled: "Búsqueda y validación de biomarcadores predictivos de respuesta a la inhibición de FGR en cáncer de pulmón".

- Santiago García Borrego

Incorporation Predoctoral Researcher for development oncological research Project i+12 entitled: "Estudio del perfil metabolómico en tumores neuroendocrinos".

- Anna La Salvia

AECC Scientific Foundation grants for cancer research personnel - Senior Clinical Researcher:

Senior clinical researcher to carry out a research project in the field of oncology at i+12 entitled: "Evaluación del papel de SRC en la resistencia farmacológica y estudio como potencial diana terapéutica en cáncer colorrectal metastásico BRAF mutado".

- M^a del Carmen Riesco Martínez

Clinical research infrastructures for research groups - i+12:

Agustín Blanco Echevarría - Servicio de Medicina Interna

- 2 portable high resolution digital colour ultrasound scanners.
- Associated project: Dyslipemia Circle.

Bárbara Muñoz Amat - Neonatology Department

- Ecographer, with neonatal probes for small lines, echocardiography probes and convex probe for neonatal brain echo.
- Associated project: CloSed.

Care Staff who Benefited from Grants for Intensification of Research Activity

Intensification contracts for research activity in the National Health System (SNS)-ISCIII:

Enrique Morales Ruiz
 Antonio Serrano Hernández

Intensification contracts for specialist doctors attached to the Cancer Research Area - i+12:

Nerea Castro Quismondo
 Cristina Grávalos Castro
 José Antonio Núñez Sobrino
 Luis Robles Díaz

Intensification contracts for specialist doctors attached to the Cancer Research Area - i+12:

Juan Luis Antón-Pacheco Sánchez
 Fernando Arribas Ynsaurriaga
 Julián Benito León
 Daniel Blázquez Gamero
 Teresa Cavero Escribano
 Eva M^a Ciruelos Gil
 Guillermo Antonio de Velasco de Oria de Rueda
 Laura Domínguez Pérez
 Pilar Escribano Subias
 Elisa Fernández Cooke
 Adolfo Fontenla Cerezuela
 Rocío García Carbonero

Carlos Jesús Gómez Martín
 Ignacio Herraiz García
 Antonio Laluez Blanco
 Manuel Lizasoain Hernández
 José Antonio López Martín
 Francisco López Medrano
 Jaime Lora-Tamayo Morillo-Velarde
 Mª Liz Paciello Coronel
 Carmen Rosa Pallás Alonso
 Ana Pérez de Ayala Balzola
 Santiago Ponce Aix
 Luis Manuel Prieto Tato
 Rafael San Juan Garrido
 Eva Mª Sánchez Morla
 Juan Manuel Sepúlveda Sánchez
 Jorge Solís Martín
 Pilar Tejada Palacios

Intensification contracts for research activity for Specialized Physicians pertaining to research groups- i+12:

Rosa Mª Ayala Díaz
 José Manuel Caro Teller
 Mª Teresa Cedena Romero
 Javier de la Serna Torroba
 María de Lagarde Sebastián
 Cristina Domínguez González
 María Galindo Izquierdo
 Iván Tomás Gómez Blázquez
 Carlos Grande García
 Ana Rosario Hernández Voth
 Lara Carmen Iglesias Docampo
 Mª Jesús Jiménez Cerezo
 Beatriz Esther Joven Ibáñez
 Luis Manuel Manso Sánchez
 Elena Martín Hernández
 Alberto Mendoza Soto
 Montserrat Morales Conejo
 Juan Antonio Núñez Sobrino
 Julián Palomino Doza

Federico Pulido Ortega
 Inmaculada Rapado Martínez
 Raquel Rivera Díaz
 Antonia Rodríguez Izquierdo
 Pablo Rojo Conejo
 Rafael Salguero Bodes
 Santiago Sarnago Cebada
 Jorge Solís Martín
 Alberto Villarejo Galende

Intensification contracts for research activity associated with research projects for Nursing Staff - i+12:
 Mª Luz Romero Madueño

Intensification contracts of research activity for nonclinical healthcare specialized technical personnel for the development of an innovation project – i+12.
 Antonio Martín González
Intensification contracts of training activities - i+12:
 Fernando Sarnago Cebada

Technological Resources

Research support services cooperate in the activities of groups from Instituto i+12. Each service maintains state-of-the-art technology infrastructure within its area and is designed to simulate new technologies as they appear and develop.

The services are available to all users and are highly competitive. The units themselves carry out research projects together with their own and external research groups in order to improve the technologies and methodologies used.

The research support services that the Instituto i+12 makes available to its researchers are the following:

Translational Research Support Platforms

Genomics Unit

The Genomics Unit of Instituto i+12 has 2 laboratories in the Research Center of Hospital Universitario 12 de Octubre and in the Outpatient Activity Center (sixth floor). The primary objective of the Genomics Unit is to provide research support and scientific advice to the various research groups of Instituto i+12. It has technologically advanced equipment for the development and updating of methodologies of interest for research staff. The services offered can be used by researchers from Instituto i+12 and other public and private institutions.

Services Offered

Sanger sequencing

- De novo sequencing and resequencing.
- Fluorescence-labelled DNA fragment analysis.
- Microsatellite analysis (STRs, VNTRs).
- Ad hoc mutation analysis (SNPs).

Massive sequencing

- Small genome sequencing.
- Gene panels and region of interest sequencing.
- Transcriptome and exome sequencing.
- Detection of pathogens.
- ChIP-Seq. Nonidentified protein binding region analysis.
- miRNA sequencing.

Real-time PCR

- Development and analysis of quantitative PCR data in real time.
- Assays for absolute or relative quantification of transcriptional profiles.
- Allele discrimination assays (SNPs) (detection of polymorphisms at nucleotide level).
- Assays to detect presence/absence of a target using an internal positive control and generation of dissociation curves.
- Advice on design of experiments and on optimal primers and probes for quantitative PCR assays using "Primer Express" and "LightCycler Probe Design".

Other

- Quality control (integrity) of samples of DNA, RNA, and proteins.
- High-precision spectrophotometric analysis in various initial samples: nucleic acids, microarrays, proteins, cell cultures, etc.
- Automated extraction of nucleic acids and proteins from various biological samples.

Facilities and Infrastructures

The Genomics Unit has the following equipment:

- Real-time quantitative PCR, AB 7500 Fast, Life Technologies (2).
- Real-time quantitative PCR, LightCycler 480, Roche.
- Real-time quantitative PCR, LightCycler 96, Roche.
- Automatic sequencer, ABI 3130XL, Life Technologies.
- System for documentation of gels and analysis of images, Chemidoc XRS, Bio Rad.
- NanoDrop ONE spectrophotometer.
- Concentrator Plus, Eppendorf.
- 2100 Bioanalyzer, Agilent.
- Nucleic acid extractor, Maxwell 16.
- PGM ion sequencer, Life Technologies.
- S5 XL ion sequencer, Life Technologies.
- 2 NextSeq 500 sequencer, Illumina.
- NextSeq 550 sequencer, Illumina.
- MiSeq sequencer, Illumina.
- ePCR One Touch 2, Life Technologies.
- Robot, Ion Chef, Life Technologies.
- Thermal cyclers; GeneAmp PCR System 9800, Applied Biosystems; PCR system 2400, Perkin Elmer; Verity, Life Technologies (3).

Activity

The Genomics Unit is structured into different areas depending on the technological equipment. The results of activity in 2019 in these areas are as follows:

NGS platforms

Teams	Runs	Samples
S5	146 runs	2637
PGM	180 runs	693 (estimate)
NextSeq 500	117 runs	702 (estimate)
NextSeq 550 (Exomas)	85 runsx12	1020
Nexseq 500 (NIPT)	62 runs x48	2976
MiSeq	69 runs	698 (estimate)

Capillary Sequencing Platform (Sanger)

Genetic Analyser 3130xl – 18,310 samples

PCR and Real Time PCR

Teams	Runs
Real Time Fast 7500 CAA Applied	211 runs
Real Time LC 480 II Roche	260 runs
Real Time Fast 7500 CI Applied	86 runs
Termocicladores*	983 runsx12

* 2720 Thermal Cycler X2, 2400 Thermal Cycler, 9800 Thermal Cycler, Verity Thermal Cycler x4

Staff

Coordinator: Francisco Javier Fernández Martínez

Technical Manager: Juan Carlos Rubio Muñoz

Laboratory Technician: M^a Consolación Pascual Pérez

Proteomics Unit

The Instituto i+12 has been supported by the Proteomics Unit since 2007. The main objectives of this unit are to provide support to researchers, promote scientific research and disseminate the latest techniques developed, all of which are focused on the area of Proteomics.

Proteomics consists of a set of tools that enable the study of the molecular pathogenesis of the disease by identifying specific biomarkers that make it possible to diagnose, classify, reach prognosis and predict the disease, as well as to define new therapeutic targets or to predict behaviour in response to different drugs.

Services Offered

The Proteomics Unit offers researchers different services in proteomics as well as seminars and training courses.

The Proteomics Laboratory offers a diverse range of protein analysis services, some of which require outsourcing. In this case, we have an advisory service, since these services require close technical-scientific interaction to determine the best analysis strategy to be used.

In all cases, priority will be given to samples sent by the research groups from the Institute and from other academic entities affiliated to the Institute. The analyses requested by external users (other research institutions and private companies) will be subject to evaluation by the Head of the Unit.

The Proteomics Unit offers the following services:

1. Separation of proteins and differential expression analysis.
 - a. 2D gel electrophoresis for conventional analysis of protein mixes.
 - b. 2D electrophoresis for quantitative differential analysis with “DIGE Technology”.
 - c. Multiple isobaric labelling.
2. Identification of proteins both in gel and in solution.
3. Separation and analysis of protein complexes under native conditions: BLUE NATIVE. This analysis is performed both in 1D and in 2D and represents transfer of the proteins to the membrane or staining and cutting of gel bands for later identification of proteins.
4. Theoretical and practical assistance in the specific design of different types of immunoblotting.
5. 1D differential expression analysis or staining and cutting of gel bands for later identification of proteins.
6. Multiplex analysis of proteomic biomarkers.

Facilities and Infrastructure

The Proteomics Unit is able to take advantage of these techniques and methodologies, thanks to the following high-tech equipment:

Luminex MAGPIX® system

- The MAGPIX system is a versatile multiplex platform capable of performing qualitative and quantitative analysis of proteins and nucleic acids in a wide variety of samples. This system requires much less sample than many other technologies and can perform up to 50 tests in a single reaction well, greatly reducing the volume of samples, reagents and labour while improving productivity.

EttanTM, 2D-PAGE electrophoresis system

- The system is composed of the IPGphor™ III unit, which is integrated in the isoelectrofocusing system for the first dimension. It enables application of immobilized pH strips using the support of the IPGphor™ Manifold, which makes it possible to run 12 strips simultaneously. The IPGphor™ III unit includes a control software to generate graphs that register changes in voltage, current, and volts-hour that occur throughout the isoelectrofocusing program.
- The DALTsix electrophoresis unit, where second dimension electrophoresis is performed, has a tray that makes it possible to run 6 gels simultaneously, thus reducing experimental variability in each of these gels. In addition, it has a gel cassette system that makes it possible to run 6 gels at once.
- Both devices are stabilized using the MultiTemp™ III system (GE Healthcare), which provides reliable and reproducible control of temperature using circulation of liquids at a constant temperature to the external electrophoresis devices. The generous 200-W cooling capacity makes it possible to connect up to 2 vertical electrophoresis devices simultaneously for greater reproducibility of the assays.

Liquid phase isoelectrofocusing fractionator, 3100 OFFGEL (Agilent)

- Preparative isoelectrofocusing in liquid phase: The Offgel Agilent 3100 fractionator resolves complex mixes of proteins or peptides according to their isoelectric point (pI), thus achieving high-resolution fractionations. The resultant fractions remain in solution, thus considerably facilitating their recovery for LC/MS analysis in conventional gels. The results are highly reproducible.

2100 Bioanalyzer (Agilent Technologies)

- System based on microfluid capillary electrophoresis, which enables it to determine, quantify, and show the quality of total protein extracts.

Device for analysis and documentation of gels, ImageQuant LAS 4000 (GE Healthcare)

- Systems for automated analysis of images combining optimal capture and image analysis with ImageQuantTL software. The system uses a 3.2-megapixel CCD camera that makes it possible to acquire digital images of chemiluminescent, stained, or fluorescent membranes and gels, with an effective resolution of 6.3 megapixels.

Device for analysis and documentation of gels, ChemiDoc MP Imaging System (Bio Rad)

- System designed to cover multiplex fluorescence applications, chemoluminescence, and other general applications for gel documentation using a CCD camera.

Device for analysis and documentation of gels, Gel DocTM EZ (Bio Rad)

- Compact and automated image analysis system that combines optimal capture and analysis of images with Image Lab software. The system makes it possible to document minigels stained with fluorescent colorants or visible colorants, photographic plates, and stain-free gels (Stain-Free, Bio-Rad).

ImageScanner III (GE Healthcare)

- High-resolution scanner for digitalization and densitometry of gels with visible stains.

Nucleic acid extractor, Maxwell 16 de Promega

- Polyhistidine-tagged protein extractor that makes it possible to reduce purification time for this type of tagged protein while processing a larger number of samples.

Activity

The activity carried out in the Proteomics Unit in 2019 was as follows:

Gel DocTM EZ (Bio Rad)

Research Group	No. of Analyses
Immunoncology and Immunotherapy	55
Translational Haematology	35
Tissue Engineering	5
Rare, Mitochondrial and Neuromuscular Diseases	425
Research on ALS	95
Immunodeficiencies and Transplant Immunology	31
Research on Physical Activity and Health	15

EnSpire (Perkin Elmer)

Research Group	No. of Analyses
Thoracic and Clinical-Translational Oncology	82
Skin Oncology	15
Neuro-Oncology	1
Translational Haematology	197
Immuno-Oncology and Immunotherapy	17
Rare, Mitochondrial and Neuromuscular Diseases	25
Research in ALS	1
Porphyrias, Hemochromatosis, and Anaemias	211
Translational Research in Hypertension and Cardiorenal Disease	473
Immunodeficiencies and Immunology of Transplants	16
Asthma and Immunoallergic Diseases	13
Inflammatory and Autoimmune Diseases	122
Virology - HIV/AIDS	20
Neurodegenerative Diseases	249
Regenerative Medicine	59
Genetics and Inheritance	1
Proteomics Unit Technician	63

ImageQuant Las4000 (GE)

EttanTM, 2D-PAGE electrophoresis system

Research Group	No. of Analyses
Thoracic and Clinical-Translational Oncology	174
Skin Oncology	12
Neuro-Oncology	30
Rare, Mitochondrial and Neuromuscular Diseases	109
Research in ALS	1
Porfirias-Hemocromatosis-Anemias	19
Investigación Traslacional en Hipertensión y Enfermedad Cardiorrenal	205
Asthma and Immunoallergic Diseases	72
Inflammatory and Autoimmune Diseases	114
Neurodegenerative Diseases	969
Regenerative Medicine	94
Proteomics Unit Technician	225

Manager

Technical Manager: Inés García-Consuegra Galiana

Research Group	No. of Analyses	Nº Hours
Proteomics Unit Technician	4	296
<i>Proteomics Techniques: Western Blot, Blue Native, MAGPIX, Stains, Spot Excision</i>		
Research Group	No. of Analyses	Nº Hours
Thoracic and Clinical-Translational Oncology	7	52,5
Oncology	4	20
Rare, Mitochondrial and Neuromuscular Diseases	8	544
Research in ALS	9	72
Asthma and Immunoallergic Diseases	6	53
Inflammatory and Autoimmune Diseases	14	80,5
Neurodegenerative Diseases	5	69,4
Translational Research with iPS Cells	4	53,5
Neurovascular	3	72
Animal Laboratory	3	84

Cytometry Unit

Instituto i+12 is supported by the Flow Cytometry Unit, located in the Research Center building of Hospital Universitario 12 de Octubre.

The activity of the equipment manager is summarized as follows:

- Definition of general norms for the use of the various high-technology devices.
- Advice to the various developing research groups, fine tuning and analysis of new protocols for the various devices.
- Specific training for new users.

Flow cytometry makes it possible to simultaneously measure multiple optical characteristics of particles and cells in a suspension. Measurement is based on the dispersion of light and emission of fluorescence from particles illuminated by a light source. Flow cytometry is a fast, sensitive, and semiquantitative method for the simultaneous characterization of various parameters of a single cell in a suspension.

Services Offered

The Flow Cytometry Unit enables researchers from Instituto i+12 to apply the following techniques and methodologies:

- Analysis of heterogeneous cell populations.
- Immunophenotyping study.
- Analysis of the cell cycle, apoptosis, and cell viability.
- Analysis of the efficacy of transfection and transduction.
- Analysis of intracellular signaling pathways.

Facilities and Infrastructure

In order to carry out these techniques and methodologies, the Flow Cytometry Unit of Instituto i+12 has the following high-technology equipment:

- Flow cytometer, FACSCalibur (Becton Dickinson).

Activity

In 2019, 18 users from 5 research areas of the Instituto i+12 (Cancer, Rare and Genetically Based Diseases, Inflammatory Diseases and Immune Disorders, Neurosciences and Mental Health and the Transversal Area) used the flow cytometry equipment.

No use by staff from outside the Institute has been recorded.

Manager

Technical Manager: Gabriel Criado Carrasco

Confocal Microscopy Unit

Instituto i+12 is supported by the Confocal Microscopy Unit, which is located in the Research Center building of Hospital Universitario 12 de Octubre.

The managers of the unit are responsible for the following:

- Defining the general norms for the use of the confocal microscope, thus providing a considerable improvement in performance and better application of the device.
- Arranging annual external maintenance of the device to ensure that it functions correctly and contacting the technical service when necessary.
- Advising developing research groups and fine tuning of experiments and protocols with the device.
- Specific training (initial training) for new users.

Services Offered

The Confocal Microscopy Unit enables researchers from Instituto i+12 to apply the following techniques and methodologies:

Confocal microscopy

1. *In vivo* physiological studies:

1. Quantification of intracellular calcium (Fluo-3AM, Fluo-4AM, MagFluo-4).
 2. Determination of plasma membrane potential (di4ANEPS) and mitochondrial membrane potential (TMRM, TMRE).
 3. Determination of oxidative stress (DHE, GSH, MitoSOX, lipid peroxidation).
 4. FAD/Redox.
 5. Colocalization and interaction of proteins (FRET).
2. Immunofluorescence and detection of probes (cell proliferation and apoptosis, cellular and subcellular localizations, diffusion studies).
 3. Subcellular localizations using fluorescent proteins.
 4. 3D studies (Z-Stack).
 5. Counterstaining: Complex labeling of Golgi bodies (lectin HPA, protein Grasp68), the endoplasmic reticulum (Rianodine, Calnexin), mitochondria (Mitotracker Red/Green), microfilaments (phalloidin), and nuclear labeling (IP, Hoechst, DAPI...).

Facilities and Infrastructure

In order to run these techniques and methodologies, the Confocal Microscopy Unit of Instituto i+12 has the following high-technology equipment:

- Spectral confocal microscope, LSM510 META ConfoCor 3 (ZEISS).

Activity

In 2019, the following use of the Confocal Microscopy Unit has been recorded:

Research Group	Total time of use	Total time of use (hours)
Translational Biophysics	2 days 30 minutes	48.5
Translational Haematology	16 hours and 30 minutes	16.5
Rare, Mitochondrial and Neuromuscular Diseases	9 days 8 hours	224
Translational Research in Hypertension and Cardiorenal Disease	25 days 7 hours	607
Inflammatory and Autoimmune Diseases	4 hours 30 minutes	4.5
Neurodegenerative Diseases	7 days 17 hours	185
Translational Research with iPS Cells	2 days 14 hours	62

Total use: 47 days 19 hours 30 minutes (1147.5 hours).

Managers

Gema Ruiz Hurtado and Fernando Bartolomé Robledo

Bioinformatics Unit

The Bioinformatics Unit was created to respond to the growing demand for processing and analysis of data mainly from the new massive sequencing platforms (next-generation sequencing, NGS).

Its main functions are as follows

- Provide the necessary support for the analysis of NGS results.
- Supervision of sequencer servers, the computation cluster, and the data storage system.
- Similarly, the Unit aims to train and cooperate with different users in the application and development of bioinformatics tools that can prove useful in specific cases.

Services Offered

The main services offered by the Bioinformatics Unit of the Instituto i+12 are as follows:

- Maintenance of the bioinformatics infrastructure of i+12:
 - Supervision and administration of the computer equipment involved in the mass sequencing processes: sequencer servers, computer cluster and storage systems.
 - Maintenance and improvement (extension) of the current computer equipment.
 - Installation, maintenance and optimisation of the data analysis software required at any given time.

- Support and advice on mass sequencing results analysis processes to the different professionals of the Instituto i+12 and safe storage of results from NGS.
- Generation and standardisation of protocols: Development of analysis pipelines that take advantage of the existing infrastructure.
- Genomic data analysis service for professionals of the Instituto i+12.
- Basic training in bioinformatics to people involved in the analysis of NGS results.

Facilities and Infrastructure

- NGS sequencing servers. i+12-Genómica:
 - Dell Precision T7500: 2x Intel Xeon X5650 (6 cores), 48GB RAM, 11TB.
 - Dell PowerEdge T630: 2x Intel Xeon E5-2680v3 (12 cores), 128GB RAM, 28TB.
 - HP Z400: Intel Xeon W3550 (4 cores), 12GB RAM, 620GB.
- “Quimera” i+12-CPD H120 Cluster:
 - 2 R423-E3 management nodes: 4x Intel Xeon E5-2650v2 (8 cores), 128GB RAM.
 - 4 R421-E3 computer servers: 8x Intel Xeon E5-2650v2 (10 cores), 320GB RAM, 2x GPU K20m (5GB).
 - Storage cabinet: E2700 (130TB).
- Dell T7610 workstation (2x Intel Xeon E5-2630v2 (6 cores), 64GB RAM, 2.3TB). Rare, mitochondrial, and neuromuscular diseases group.
- Dell T7610 workstation (2x Intel Xeon E5-2630v2 (6 cores), 64GB RAM, 2.3TB). Genetics and heredity group.
- Dell T7600 workstation (2x Intel Xeon E5-2630 (6 cores), 64GB RAM, 2.4TB). Translational hematology group.
- NAS Synology: RS18017XS+ (100TB), DS1813+ (38TB), DS415Play (6TB).

Activity

In 2019, 30 requests have been made to the platform registered through the Google Forms form:

(<https://docs.google.com/forms/d/e/1FAIpQLSc3FXF78HuoD4vEehsUAlaPqXhiLBJDz3CBD56xGKwTKIzvA/viewform>)

Fourteen of these requests were related to the request for bioinformatic analysis, of which 12 were requests for whole-exome sequencing (WES) from primary data to annotated variant file and 2 were requests from VCF to annotated variant file. A total of 273 patients/samples were processed and 15 complementary bioinformatic analyses were performed in the case of WES and 16 patients in the case of VCF annotations.

Of the remaining 16 requests, 14 were individual consultations of platform users, 1 request for a face-to-face meeting and 1 issue related to infrastructure.

Staff

Coordinator: Francisco Javier Fernández Martínez

Technical Manager: Aitor Delmiro Magdalena

Bioinformatician: Jorge Docampo Cordeiro

Animal Facility and Experimental Operating Rooms

The Animal Facility and Experimental Operating Rooms Unit is a support unit for research and teaching that aims to ensure that all studies based on animal models are carried out with the highest quality and guaranteeing animal welfare. It is aimed at researchers from Instituto i+12 and external centers.

The mission of the Unit is to support research and teaching activities associated with the use of animals for experiments that justify the objectives sought. The opportunity to carry out such research is evaluated in terms of the potential benefits.

All of the animals kept at the facility are housed in line with Spanish legislation on protection of animals used for experiments and other scientific purposes (Royal Decree 53/2013 and Law 32/2007). Housing and handling conditions reflect the recommendations of the Commission of the Council of Europe dated June 18, 2007. Since 2007, the center has had an Animal Welfare Committee and is registered under number ES280790001164.

The functions carried out are follows:

- Housing for the maintenance and care of experimental animals, thus guaranteeing their welfare.
- Regular health checks to ensure that the animals are in good health and thus to obtain reliable and reproducible results.
- To fulfill the needs of the users by providing them with the advice and equipment necessary to carry out research with experimental animals.
- To ensure the fulfillment of all legal and ethical regulations associated with the use of animals for experiments and for other scientific purposes, including teaching.

Services Offered

Services to groups from i+12

- Advice on preparing experimental procedures.
- Evaluation of procedures by the CEBA.
- Drafting of reports.
- Processing of documentation to the relevant authority.

General services

- Veterinary advice on animal welfare and on the choice of the most appropriate model, conditions for maintenance, feeding, and reproduction.
- Service for anesthesia, monitoring, and postoperative care of animals.
- Sterilization of surgical material.
- Training of staff involved in animal experimentation.
- Housing and monitoring of animals.

- Specific tasks for support and assistance with surgical procedures and models: administration of products, sampling, inoculation of cells, blood and fluid extraction, anesthesia, euthanasia, necropsy, postoperative sampling and care.

Facilities and Infrastructure

The Animal Facility and Experimental Operating Room Unit forms part of the Research Center of Hospital Universitario 12 de Octubre. It occupies the ground floor of the Teaching Building.

It currently has an overflow area to house rodents, mice (*Mus musculus*), and rats (*Rattus norvegicus*), and another to house rabbits (*Oryctolagus cuniculus*). There are also ventilated racks for immunodepressed mice and a specific area for pigs (*Sus scrofa*).

The number of rooms available makes it possible to separately house the various species used in experiments. One room is used for quarantine of new animals and another is used for special handling or observations.

The surgical area fulfills all the requirements of current legislation. It is separated from the animal house, has two-way scrub rooms, a common presurgical area, an operating room for large animals, and a microsurgery room.

Manager

Technical Manager: Montserrat Grau Sanz

Clinical Research Support Platforms

Scientific Support Unit

The Scientific Support Unit cooperates with researchers from Instituto i+12 by providing consultancy services and addressing issues associated with methodology, epidemiology, statistics, information technology, and teaching.

The main functions of the Scientific Support Unit are as follows:

- To provide scientific support in methodology, epidemiology, biostatistics, and information technology for activities associated with research, scientific output, and clinical practice (B.O.E. 18/05/91).
- Coordination, scientific consultancy and support for management, streamlining and improvement of research projects in national and international official public calls.
- Development of in-house research projects in health science. Development of detailed procedures and methods that facilitate research support. Development of and in-depth approaches to specific thematic areas through coordination with other centers, units, and various national and international cooperative research structures, RETICs, CIBER, Spanish Clinical Trial Platform (Plataforma Española de Ensayos Clínicos, SCREN), agencies, and other international bodies.

- Internal and external collaboration, teaching, and consultancy: Instituto de Salud Carlos III, Dirección General de Investigación, Formación e Infraestructuras Sanitarias de la Consejería de Sanidad de la Comunidad de Madrid, Ministerio de Sanidad, Servicios Sociales e Igualdad, (Consejo Asesor del Ministerio), and various universities, especially Universidad Complutense de Madrid.

Services Offered

Interviews

Requests for information, advice, or a technical or scientific opinion. These comprise all queries for which telematic, statistical, or computer applications are not necessary. They are ad hoc and are resolved in a single appointment. The researcher is advised to formulate his/her query after personal review of the subject or situation to be addressed and provide basic documentation (scientific, legal, or technical) before the interview.

Consultancy

This area addresses requests for the solution to scientific processes or problems that require qualified attention, human and material resources, and time. A working calendar is created with a series of planned appointments linked by objectives, tasks, and outcomes, with a start and end date. All queries have a financial cost.

In this case, the Scientific Support Unit will assess the problem using the appropriate means depending on the objectives, hypotheses, or processes put forward by the researcher. Once the work is complete, the research will receive the results in the form of a document, together with all of the working files used in the analysis.

Delivery time for the results will depend on the complexity of the study, the availability of unit personnel, and the workload involved in the query. Consultancy services should be reserved sufficiently in advance depending on the objectives.

In specific cases, the nature of the work to be performed may necessitate consting in terms of an overall price for the project instead of a cost per hour. The project will depend on the deadline, the materials needed, the degree of involvement of the Scientific Support Unit, and the origin of the applicant. The user will not have to pay for the estimate, except in the case of large-scale projects where preparation of an estimate requires previous analyses.

Activity

- Number of consultancies provided in 2019:
434 consultancy services - Provision of methodological support, statistical support, IT support, legal and ethical support and support in data management and protection in: research projects, clinical trials, scientific publications, final degree works and doctoral theses.

- SCReN PLATFORM. Trials supervised by the Research and Scientific Support Unit in 2019:

Twenty clinical trials were supervised by the Unit: 8 were provided with statistical methodological support and data management and 12 were provided with regulatory support and monitoring.

Staff

Manager: Agustín Gómez de la Cámara

Members of the Unit

Rosa M^a Vega Viaña, M^a Teresa García Morales, Clara Eugenia Calleja Fernández, Pilar Cancelas Navia, Cristina Martín-Arriscado Arroba, David Lora Pablos, Mariano Barroso García, M^a del Carmen Romero Ferreiro.

Biobank i+12

The i+12 Biobank regulates the management of samples on data generated during clinical practice at Hospital Universitario 12 de Octubre for their subsequent use in biomedical research. The Biobank guarantees the quality, safety, and traceability of the samples stored, as well as the procedures associated with the functioning of the unit with respect to the biological material requested. One of the main objectives of the Biobank is that of ensuring the competitiveness and excellence of national and international biomedical research, while always ensuring fulfillment of current legislation and protecting the rights of donors.

i+12 Biobank was authorized by the Consejería de Sanidad de la Comunidad de Madrid in 2013, and was registered in the Registro Nacional de Biobancos, which depends on Instituto de Salud Carlos III (ISCIII), N°. B.0000657, as stipulated in Royal Decree 1716/2011 on basic requirements for authorization and functioning of biobanks for the purpose of biomedical research and processing of human samples. In addition, i+12 Biobank is a member of the Plataforma Red Nacional de Biobancos at the request of ISCIII (PT17/0015/001).

Services Offered

Services

- Hosting and custody of human samples.
- Release of human samples for biomedical research and provision of clinical data within the requirements of current legislation.
- Frozen histology and paraffin-embedded samples.
- Immunohistochemical samples.
- Nucleic acid extraction.
- Mutation studies.
- Design and updating of techniques and procedures for the collection, processing, and conservation of human biological samples.
- Ethical and legal advice on the conservation and potential use of human biological samples in research projects.

Collections

- Urology collection
- Hematology collection
- Immunology collection
- Genetic collection
- Tumor bank collection
- Cardiology collection
- Psychiatry collection
- Dermatology collection
- Allergy collection
- DRECE collection
- NEDICES collection
- Healthy blood donor collection

Facilities and Infrastructure

i+12 Biobank is located in the Histopathology Department and occupies 96 m² divided into 2 areas: the reception and laboratory area and the cryopreservation area.

The flow of samples and associated data in and out is managed in the reception and laboratory area, with 2 members of staff, namely, the biobank technicians, who are equipped with 2 computers, 2 printers, a label reader, and an application for managing samples and data in order to guarantee traceability. This area is also home to the technical coordination office and the aliquoting and processing laboratory (sample processing, nucleic acid extraction, sample quality control). The processing laboratory is equipped with a -20°C refrigerator, a laminar flow hood, 2 centrifuges, a robot for extracting nucleic acids, a NanoDrop device, a bioanalyzer, a cryotome, a thermocycler, and a microscope.

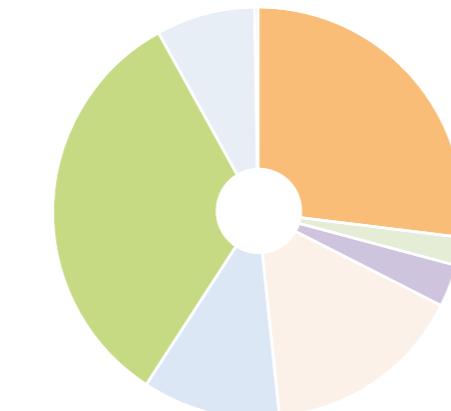
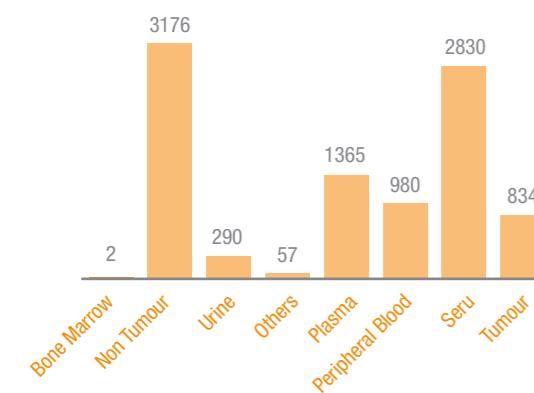
The equipment for maintaining samples frozen is situated in the cryopreservation area. In all, the equipment comprises 12 ultralow temperature freezers (-80°C) equipped with CO₂ cartridges, a nitrogen container, an alarm center, and a center for monitoring and controlling temperature.

Activity

In 2019, the i+12 Biobank recorded the following activity:

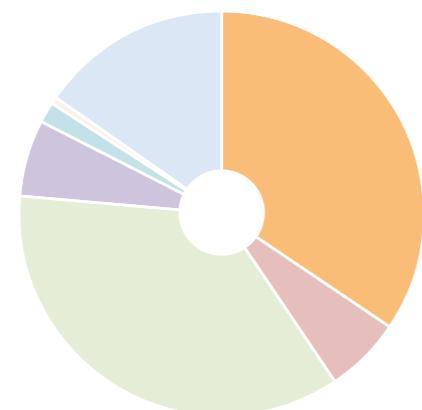
▪ Sample collection acquisition and implementation

▫ Type of sample:



Non-Tumour in Block, Frozen	2338	Serum in DNA, Frozen	1
Non-Tumour in Glass, Paraffin-Fixed	1	Serum in Others, Frozen	2818
Non Tumour in Others, Frozen	170	Tumour in Block, Frozen	668
Urine in Others, Frozen	290	Tumour in Others, Frozen	2
Others in Block, Fresh	1	DNA	1
Plasma in Others, Frozen	1358	Bone Marrow in Block, Paraffin-Fixed	2
Peripheral Blood in Others, Frozen	948		

▫ Origin of sample



Patology	3285
Blood Bank	596
Cardiobank Collection	8
NEDICES Collection	3400
i+12 Research Institute	591
Neuromuscular	151
Paediatrics	56
Heart Transplant	1447

▪ Assignment of samples by projects

Title of the project	Agency	Institution	No. of cases transferred	Type of samples
RASA1 and ERAS as new genes causing breast cancer: studies for new therapies against triple negative tumours	ISCIII	CIEMAT	32	Tumour in Glass, Paraffin-Fixed
Paniculitic Lymphomas and simulators. Molecular markers of diagnosis and directed therapy	FIS	IISFJD	32	Non-Tumour in Others, Paraffin-Fixed
Modulation of innate and adaptive immunity by ICOS, its ligand and PI3 kinase isoforms: development of new therapies	AES Intra mural	ISCIII	24	Peripheral Blood in Block, Fresh
Involvement of lipid-resolution mediators in the development of myocarditis	CIBER CV (ISCIII)	IDIPAZ	70	Non-Tumour in Others, Frozen
Clinical-genomic correlation and cellular study of pathological mechanisms and pharmacological screening in patients with mitochondrial-oxphos diseases	FIS	i+12	6	Non-Tumour in Block, Frozen
Characterisation of the immune profile of small cell lung carcinoma (SCLC) and its relationship with the molecular profile. Prognostic and predictive implications	Fondos propios	i+12	51	Tumour in Glass, Paraffin-Fixed
Study of the therapeutic potential of physical exercise in mitochondrial diseases. Implication of oxidative stress	FIS-MINECO/FEDER	i+12	586	Non-Tumour in Block Frozen
				Non-Tumour in Block, Paraffin-Fixed
				Non-Tumour in Glass, Frozen
				Non-Tumour in Glass, Paraffin-Fixed
				Serum in DNA, Frozen

Staff

Scientific Director: José Luis Rodríguez Peralto

Technical coordinator: Alicia Maroto Pérez

Other Support Services at Instituto i+12

Scientific Documentation Service

Researchers at Instituto i+12 are supported by the Library of Hospital Universitario 12 de Octubre, which acts as a scientific documentation service. The Library provides access to information resources (complete texts from scientific journals and electronic books, databases, scientific output), library services (loans, consultations, bibliographic searches), and reading rooms where researchers can work and study.

The Library's online platform, which is known as the Virtual Library of Hospital Universitario 12 de Octubre, provides users with the services and sources available to facilitate care work, teaching, and research. The Virtual Library is accessed via a personal code and password.

The main services offered by the Library are as follows: requests for articles (requests to other health service libraries for articles not available at our library), requests for bibliographic searches, training of users in bibliographic searches, and access to information resources in coordination with the Continuing Professional Development Service and Academic Committee, consultations on impact factors and quartiles of scientific publications, book loans, access to reading rooms, and access to Internet in the computer suite.

A more detailed description of the Scientific Documentation Department can be found on the website of the 12 de Octubre University Hospital Library, at: <http://cendoc.h12o.es/blog/>

Staff

Manager: José Manuel Estrada Lorenzo

Interlibrary loan management: Gema Serrano (library assistant)

Management of the collection-repository : M^a José Muñoz (library clerk)

Book collection management: Francisco Javier Villanueva Leiguarda (library assistant)

Innovation Support Unit i+12

The objective of the Innovation Support Unit (UAI i+12) is to develop activities in innovation under conditions of excellence and quality by promoting collaboration and cooperation with other centers and research groups from Instituto i+12.

UAI i+12 aims to channel innovative ideas in different phases of the innovation funnel, from conception to market launch.

The philosophy of UAI i+12 is one of working in an environment of open innovation, where both patients and suppliers and industry can participate in the innovation process, together with personnel from Instituto i+12.

UAI i+12 comprises a multidisciplinary team of professionals who give the necessary advice for turning ideas into products or services that provide new solutions.

UAI i+12 is a member of the Plataforma de Innovación en Tecnologías Médicas y Sanitarias (ITEMAS), which is promoted by Instituto de Salud Carlos III as a component of the integral vision of innovation in this setting.

The functions of UAI i+12 are organized into 3 main areas:

1. Legal protection of innovation

- Promotion of a culture of innovation at i+12.
- Preparation of reports on the technical aspects with respect to the innovative ideas that has been identified.
- Requests and follow-up of projects, registration and maintenance of conventions (patents, utility models).
- Request, follow-up, and registration of trademarks.
- Technological surveillance in the setting of i+12.
- Definition of advice on strategies for the protection IP.

2. Transfer and marketing:

- Identification of license holders for the portfolio of inventions at i+12.
- Attendance at BROKERAGE events.
- Advertising of technological offer of inventions from IIS i+12, and presentation on the European platform TECHNOLOGY TRANSFER EEN and Plataforma ITEMAS.
- Drafting of licensing agreements, co-ownership of IP, technology transfer, confidentiality, and R&D&i agreements with companies.
- Publication of the activities of UAI i+12 at national and international events.
- Search for synergies with other networks and innovation alliances.

3. Training and search for funding:

- Organization of training on innovation (courses, seminars, "innovation pills").
- Organization of institutional day courses on innovation.
- Support in the presentation of proposals to calls on innovation in health care.
- Search for potential partners to participate in collaborative projects within the framework of the H2020 program.
- Identification and search for public/private funding applied to our setting.
- Search for opportunities for public procurement of innovative products and services.

Staff

Manager: María López Berlanga

Members of the Unit: Mercedes Avilés Escudero, Isabel de Mier Barragán

RESEARCH ACTIVITY

Research Projects

Clinical Trials

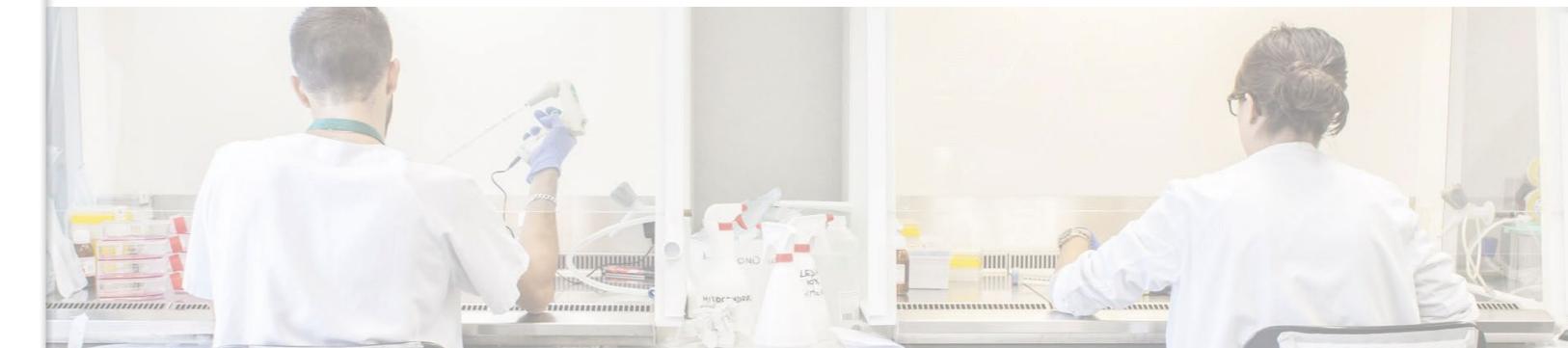
Participation in Collaborative Research Networks

Collaborative Research Networks (RETICS)

Research Support Platforms in Health Science and Technology

Networked Biomedical Research Groups (CIBER)

Other Networks and Collectives



Research Projects

In 2019, Instituto i+12 was divided into 9 key Research Areas, each headed by an Area Coordinator. The individual area is formed by various research groups, each of which is led by a Group Director. There are currently 62 research groups at the Instituto i+12.

Instituto i+12 also has Associated Clinical Researchers/Groups, that is, professionals from Instituto i+12 who carry out scientific work without meeting the minimum criteria to be considered a research group.

The following table shows the number of active research projects in 2019 managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120) for the 9 Research Areas and Associated Clinical Researchers/Groups. We are included only the projects with a financial support higher than € 10.000,00.

Research areas of Instituto i+12	Active projects
Cancer	63
Chronic Diseases and Transplantation	15
Rare and Genetically Based Diseases	24
Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	16
Cardiovascular	24
Inflammatory Diseases and Immune Disorders	16
Infectious Diseases and AIDS	26
Neurosciences and Mental Health	20
Transversal	12
Associated Clinical Researchers/Groups	17
TOTAL	233

The table below shows the distribution of active projects with respect to the funding body.

Funding body	Active projects
Instituto de Salud Carlos III (ISCIII)	108
Fundación Mutua Madrileña (FMM)	12
Commission of The European Communities	7
Fundación Científica Asociación Española Contra el Cáncer	6
Ministerio de Economía y Competitividad (MINECO)	3
Comunidad Madrid	3

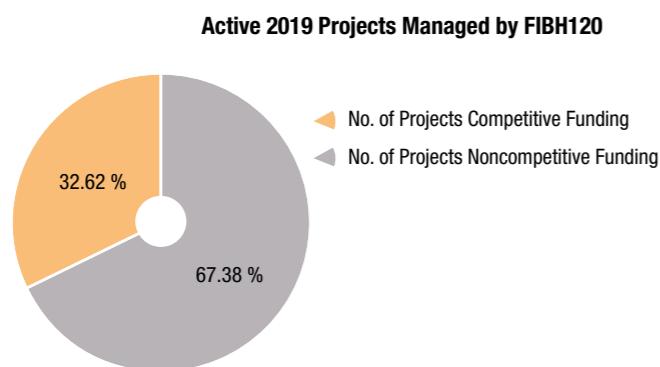
Funding body	Active projects
EIT HEALTH	3
Fundación Casa del Corazón	2
Fundación Española Oncología Médica	2
Consejo Superior de Investigaciones Científicas	1
University of Miami	1
Atresmedia Corporación	1
Fundación Madrileña de Nefrología	1
Fundación Renal Íñigo Álvarez de Toledo	1
Fundación Alicia Koplowitz	1
Fundación Anemia de Falconi	1
Fundación General de Investigación de la Sociedad Madrileña de Trasplantes	1
Fundación Merck Salud	1
Fundación para la Investigación Médica Aplicada	1
Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica	1
Other (Noncompetitive)	76
TOTAL	233

Next table show the Active Research Projets in 2019 according to the type of founding for the 9 Research Areas and Associated Clinical Researcher/Groups.

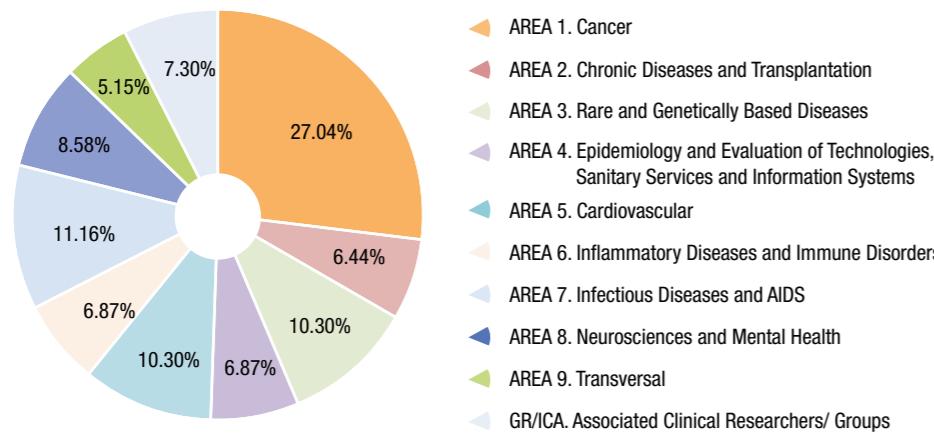
i+12 Research Area	No. of projects Competitive funding	No. of projects Noncompetitive funding	Total Projects
AREA 1 Cancer	37	26	63
AREA 2 Chronic Diseases and Transplantation	10	5	15
AREA 3 Rare and Genetically Based Diseases	22	2	24
AREA 4 Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	12	4	16
AREA 5 Cardiovascular	15	9	24
AREA 6 Inflammatory Diseases and Immune Disorders	10	6	16
AREA 7 Infectious Diseases and AIDS	24	2	26

i+12 Research Area		No. of projects Competitive funding	No. of projects Noncompetitive funding	Total Projects
AREA 8	Neurosciences and Mental Health	13	7	20
AREA 9	Transversal	9	3	12
GR/ICA	Associated Clinical Researchers/Groups	5	12	17
TOTAL		157	76	233

The following graph shows the distribution of projects active in 2019 according to the type of funding:



The following graph shows the distribution of projects active projects managed by FIBH120 in 2019 by research area:



As the figure shows, in terms of distribution by area, the Research Area with the largest number of projects in 2019 was the Cancer Research Area, followed by the Infectious Diseases and AIDS Research Area and the Areas of Rare and Genetically Based Diseases and Cardiovascular.

Below, we set out the **public and private competitive research projects** funded by various bodies and granted during 2019:

Commission of the European Communities - Horizon 2020:

- REACH: Russian European Alliance for research among women, Children and adolescents impacted by HIV, TB and HCV. A1- Grupo/ Investigador Clínico Asociado. PI- Ana Carmen Martínez de Aragón Calvo.
- Empirical treatment against cytomegalovirus and tuberculosis in severe pneumonia in HIV-infected infants: a randomized controlled clinical trial. A7- Investigación Traslacional en Enfermedades Infecciosas Pediátricas. PI- Pablo Rojo Conejo.

EIT Health - Promoting innovation in health:

- Prediction medical device for rheumatoid arthritis: Scale-up of an on-line prediction platform that improves the quality of life of patients with rheumatoid arthritis through the personalised and efficient prescription of biological medicines. A6- Inflammatory and Autoimmune Diseases. PI- José Luis Pablos Álvarez.
- Blood biomarkers to improve the management of mild traumatic brain injury. A8- Neurotraumatología y Hemorragia Subaracnoidea. PI- Alfonso Lagares Gómez Abascal.
- Use of electronic health records as esource; multicenter European study, comparing manual data collection in an ECRF to data collection using EHR2EDC technology. A4- Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems. PI- Agustín Gómez de la Cámara.

Health Research Projects-ISCIII

- Precision medicine in Acute Myeloid Leukaemia: Detection of drug-resistant patients and development of new therapeutic approaches. A1- Translational Haematology. PI- Rosa María Ayala Díaz.
- Nuclear IKK1 as a therapeutic target for ageing disorders. A1- Genitourinary and Cellular and Molecular Oncology. PI- María de los Llanos Casanova Hernández.
- Optimisation of covalent KRASG12C inhibitor therapy in non-small cell lung cancer (NSCLC). A1- Thoracic and Clinical-Translational Oncology. PI- Irene Ferrer Sánchez.
- SFKS-mediated chemoresistance in BRAF-mutated colorectal cancer Development of new therapeutic strategies. A1- Digestive cancer. PI- Rocío García Carbonero.
- Role of tryptophan and its metabolites in cancer-associated cachexia, in patients and in murine models A1- Thoracic and Clinical Translational Oncology. PI- José Antonio López Martín.
- Advanced molecular diagnosis of type X Adenomatous Polyposis: Analysis of non-coding alterations. A1- Digestive cancer. PI- Daniel Rueda Fernández.
- Decoding the role of factor H-Related Proteins in complement-related renal diseases. A2- Clinical Nephrology. PI- Manuel Praga Terente.

- Cellular metabolism as a new therapeutic target to prevent multimorbidity and cardiovascular disease. A3- Regulation of Cellular Homeostasis PI- María Mittelbrunn Herrero.
- Cardiovascular health study in women with a history of early pre-eclampsia A5- Perinatal Medicine. PI- Alberto Galindo Izquierdo.
- Randomised clinical trial for induction of term labour in intrauterine growth restriction: vaginal dinoprostone versus Foley catheter. A5- Perinatal Medicine. PI- Ignacio Herraiz García.
- Telomere shortening in systemic sclerosis: clinical and translational studies. A6- Inflammatory and Autoimmune Diseases. PI- Gabriel Criado Carrasco.
- Hypersensitivity to beta-lactam antibiotics: Actual prevalence and impact on quality of life and on the economy of the public health system. A6- Asthma and Immunoallergic Diseases. PI- Esther Barrionuevo Sánchez.
- Host genomic susceptibility in congenital cytomegalovirus infection (GECKO STUDY) A7- Translational Research Group on Paediatric Infectious Diseases. PI- Daniel Blázquez Gamero.
- KAWA-GENE. Study of the genetic factors associated with the susceptibility to the development of aneurysms in patients diagnosed with Kawasaki Disease in Spain. A7- Translational Research Group on Paediatric Infectious Diseases. PI- Elisa Fernández Cooke.
- Dynamics of bacterial translocation and alteration of the intestinal microbiome in acute infection and progression of HIV infection. A7- Virology and HIV/AIDS. PI- Mónica García Álvarez.
- Evaluation of an individualised strategy for cytomegalovirus prophylaxis based on specific cellular immunity in intermediate-risk kidney transplant recipients. A7- Infectious Pathologies. PI- Francisco López Medrano.
- Implementation of whole genome sequencing (WGS) technology in the study of multi-resistant bacteria, impact on microbiological surveillance and infection control. A7- Molecular Epidemiology of Hospital and Emerging Infections. PI- Ester Viedma Moreno.
- Factors influencing functionality in the community of patients with first psychotic episodes: Longitudinal study of neurocognition, social cognition and clinical symptoms (PEP2F). A8- Cognition and Psychosis. PI- Roberto Rodríguez Jiménez.

Grants for research projects 2019 - Fundación de Investigación Médica Mutua Madrileña

- New tools for the detection and monitoring of Traumatic Axonal Injury. A8- Neurotraumatology and Subarachnoid Haemorrhage. PI- Ana M^a Castaño León.
- Genomic characterisation of germline and somatic mutations in paediatric patients with refractory epilepsy. AT- Genetics and Inheritance. PI- Sonia Mayo de Andrés.
- Multicentre study of glutaric aciduria type I: clinical, radiological and neurocognitive characterisation. Preparation of a national register. Associated Clinical Group. Paediatrics. PI- Berta Zamora Crespo.

Grants for the implementation of synergistic R&D projects in new and emerging scientific areas at the frontier of science and of an interdisciplinary nature - Consejería de Educación e Investigación. Comunidad de Madrid:

- Intraoperative classification of brain tumours using 3D immersive models in the Community of Madrid. A8- Neurotraumatology and Subarachnoid Haemorrhage. PI- Alfonso Lagares Gómez-Abascal.

ALS Strategy - Comunidad de Madrid:

- Study of the oligogeneity of the ALS population in the Community of Madrid for the selection of patients for clinical trials. A3- ALS research Group. PI- Alberto García Redondo.

Grants for research projects 2019 - Fundación Científica de la Asociación Española contra el Cáncer:

- Exploring new therapies for bladder cancer through the combination of epigenetic inhibitor and CAR-NK cells. A1- Genitourinary and Cellular and Molecular Oncology. PI- M^a Lucía Morales Rodríguez.

Grants for research projects 2019 - Fundación Casa del Corazón:

- Contribution of exercise haemodynamics in the early diagnosis of chronic thromboembolic disease and in its prognostic stratification. A5- Research in Heart Failure - Pulmonary Hypertension. PI- M^a del Pilar Escribano Subias.

Grants for research projects 2019 - Fundación General de Investigación de la Sociedad Madrileña de Trasplante:

- Study of factors associated with the appearance of pre-transplant antiphospholipidic antibodies and their impact on the evolution of renal transplantation. A2- Tissue Engineering. PI- Antonio Serrano Hernández.

Grant for Sarcoma Research (13th José María Buesa Grant) - Grupo Español de Investigación en Sarcomas (GEIS):

- Identification of the molecular susceptibilities of soft tissue sarcomas, through the computational analysis of the human protein interactome. A1- Thoracic and Clinical-Translational Oncology. PI- José Antonio López Martín.

Scholarships of the Sociedad Española de Sueño for research 2019:

- REM sleep behaviour disorder and other sleep disorders, in patients with MELAS syndrome. A8- Neurodegenerative diseases. PI- Alejandro Herrero San Martín..

"Europe Research" revitalisation actions - 2019 - Agencia Estatal de Investigación:

- Multi-omic approach for the early diagnosis of Alzheimer's and Parkinson's disease. A8- Neurodegenerative diseases. PI- Julián Benito León.

Grants for research projects 2019 - i+12:

- Identification of non-invasive biomarkers and new therapeutic targets in patients with eosinophilic oesophagitis. A6- Asthma and Immunoallergic Diseases. PI- M^a del Carmen Diéguez Pastor.
- Implication of mitochondrial dysfunction and its relationship with intestinal microbiota in non-alcoholic fatty liver disease. Associated Clinical Investigator/Group. PI- Mercedes Pérez Carreras.
- Exome sequencing in patients with congenital dyserythropoietic anaemia. A3-Porphyria, Haemochromatosis and Anaemia. PI- M^a Josefa Morán Jiménez.
- Programme to promote R&D&I. A6- Inflammatory and Autoimmune Diseases. PI- Alfredo Javier García González.
- Evaluation of the diagnostic usefulness of a highly sensitive methodology for the detection of microsatellite instability applied to

constitutional mismatch repair deficiency syndrome - CMMRD. A1- Digestive Cancer. PI- Daniel Rueda Fernández.

- Comparison of the analgesic effect of high intensity magnetic stimulation versus low intensity magnotherapy in low back pain. Associated Clinical Investigator/Group. PI- María Carmona Bonet.
- Impact of hospitalisation on intestinal resistance and mobilome in patients admitted to intensive care units: bases for strengthening the microbiological surveillance strategy in the 12 de Octubre University Hospital - Pilot study in ICU. A7- Molecular Epidemiology of Hospital and Emerging Infections. PI- Jennifer Villa García.
- Validity of CNB and image-guided FAN to evaluate pathological complete response after neoadjuvancy in HER2 and TN subtypes of breast cancer - Preliminary study. Associated Clinical Investigator/Group. PI- Sara Jiménez Arranz.
- Development of a customised vaginal mould using 3D digital printing for high dose rate brachytherapy in cervical cancer. Associated Clinical Investigator/Group. PI- Alejandro Ferrando Sánchez. PI- Alejandro Ferrando Sánchez.
- Cardiac-healthy changes and their relationship with mortality in the general Spanish population (DRECE): Bayesian analysis. A4- Clinical Epidemiology, Evaluation of Health Technologies and Information Techniques. PI- David Lora Pablos.
- Prognostic value of haematuria in a cohort of patients with IgA nephropathy (IgAN) > 65 YEARS New pathogenic pathways of haematuria with development of future therapeutic targets. A2- Kidney Transplant. PI- Elena Gutiérrez Solís.
- Effect of a sports advice consultation on physical activity in paediatric patients with congenital cardiopathy. A5- Perinatal Medicine. PI- Marta Flores Fernández.
- CHEMOBRAIN: Neuropsychological assessment of cognitive impairment associated with chemotherapy treatment in a sample of breast cancer patients. Associated Clinical Investigator/Group. PI- Almudena Narváez Arróspide.
- Study of lymphoma risk in patients with autoimmune lymphoproliferative syndrome Prospective and retrospective study. A6- Immunodeficiencies and Immunology of Transplants. PI- Javier Blas Espada.
- Patient safety in cardiology: Validation of the Global Trigger (GT) tool and its application in the evaluation of the effectiveness of an action plan to reduce adverse effects. A5- Translational Multidisciplinary Cardiovascular Research. PI- Roberto Martín Asenjo.

Clinical Trials

During 2019, the number of clinical studies (clinical trials and observational studies) were contracted in our institution. Of these 268 studies, 217 correspond to research groups from Instituto i+12 (Stable Consolidated, Consolidated, or Emerging), whereas the remaining 51 are Associated Clinical Researchers/Groups.

The following table shows the number of clinical trials and studied by area and research group.

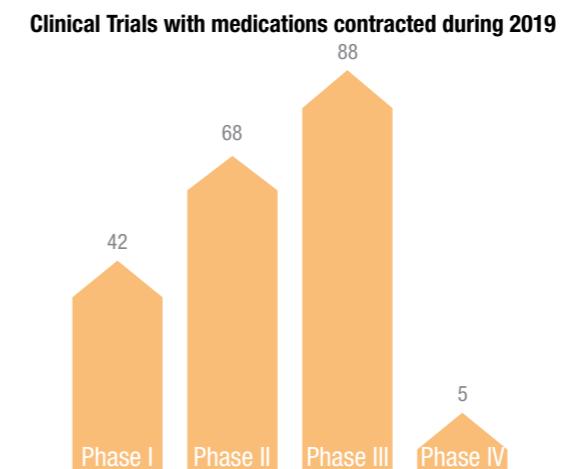
Research Area	Number
Area 1. Cancer	142
Translational Haematology	37
Neuro-Oncology	3
Cutaneous Oncology	5
Thoracic and Clinical-Translational Oncology	38
Genitourinary and Cellular and Molecular Oncology	23
Breast and Gynecologic Cancer	21
Digestive Cancer	16
Area 2. Chronic Diseases and Transplantation	14
Respiratory Diseases	5
Bone Metabolism, Diabetes and Nutrition	3
Clinical Nephrology	3
Male's Integral Health	3
Area 3. Rare and Genetically Based Diseases	3
Rare, Mitochondrial and Neuromuscular Diseases	3
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	3
Clinical Practice Appropriateness and Patient Safety	1
Maternal and Child Health	2
Area 5. Cardiovascular	13
Translational Multidisciplinary Cardiovascular Research	3
Research on Heart Failure – Pulmonary Hypertension	8
Research in Cardiovascular Image	2
Area 6. Inflammatory Diseases and Immune Disorders	17
Inflammatory and Autoimmune Disease	15
Immunodeficiencies and Immunology of Transplants	2

Area 7. Infectious Diseases and AIDS	17
Virology-HIV/AIDS	5
Infectious Pathologies	3
Translational Research Group on Pediatric Infectious Diseases	8
Molecular Epidemiology of Hospital and Emerging Infections	1
Area 8. Neurosciences and Mental Health	6
Neurodegenerative Diseases	3
Neurotraumatology and Subarachnoid Hemorrhage	3
Area 9. Transversal	2
Regenerative Medicine	2
TOTAL	217
Other Researchers	51
TOTAL	268

Clinical studies and trials contracted in 2019 by research groups from Instituto i+12 are distributed according to the type of research as follows:

TRIALS / STUDIES	NUMBER
CLINICAL TRIALS WITH DRUGS	PHASE I 42
	PHASE II 68
	PHASE III 88
	PHASE IV 5
CLINICAL TRIALS WITH HEALTH CARE PRODUCTS	7
EXTENSION/OTHER	2
TOTAL	212
OBSERVATIONAL STUDIES	56
TOTAL	268

The following graph shows the distribution of clinical trials with medications contracted during 2019.



The number of clinical studies (clinical trials and observational studies) active at the Instituto i+12 in 2019 is indicated below.

TRIALS / STUDIES	NUMBER	
	PHASE I	PHASE II
CLINICAL TRIALS WITH DRUGS	111	247
	364	25
	18	9
	TOTAL	774
CLINICAL TRIALS WITH HEALTH CARE PRODUCTS		
EXTENSION/OTHER		
TOTAL	186	960
OBSERVATIONAL STUDIES		

The following table details the number of active clinical trials and research in 2019 by research area.

Research Area	Number
Area 1. Cancer	541
Area 2. Chronic Diseases and Transplantation	58
Area 3. Rare and Genetically Based Diseases	9
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	6
Area 5. Cardiovascular	58
Area 6. Inflammatory Diseases and Immune Disorders	68
Area 7. Infectious Diseases and AIDS	48
Area 8. Neurosciences and Mental Health	27
Area 9. Transversal	2
Associated Clinical Researchers/ Groups	143
TOTAL	960

Participation In Collaborative Research Networks (RETICS, CIBER, and Others)

Collaborative Research Networks (RETICS)

In 2019, a total of 18 research groups from Instituto de Investigación Hospital 12 de Octubre participated in Collaborative Research Networks (RETICs).

	Network	Participating groups
ARADYAL	Red de Asma, Reacciones Adversas y Alergia	<ul style="list-style-type: none"> ▪ Asthma and Immunoallergic Diseases - M^a del Carmen Diéguez Pastor - Principal Investigator: RD16/0006/0010.
INVICTUS PLUS	Red de Enfermedades Vasculares Cerebrales	<ul style="list-style-type: none"> ▪ Neurovascular Research - Jaime Díaz Guzmán - Principal Investigator: RD16/0019/0022. ▪ Tissue Engineering - Antonio Martínez Salio, member of the team - RD16/0019/0022. ▪ Neurovascular Disease - Ignacio Lizasoain Hernández - Principal Investigator: RD16/0019/0009.
RIER	Red de Investigación en Inflamación y Enfermedades Reumáticas	<ul style="list-style-type: none"> ▪ Inflammatory and Autoimmune Diseases - José Luis Pablos Álvarez - Principal Investigator and Coordinator. RD16/0012/0001. ▪ Molecular and Cellular Bases in Rheumatic Diseases - Rosa M^a Pérez Gomáriz - Principal Investigator: RD16/0012/0008.
RedinRen	Red de Investigación Renal	<ul style="list-style-type: none"> ▪ Clinical Nephrology - Manuel Praga Terente - Principal Investigator. RD16/0009/0012.
SAMID	Red de Investigación en Salud Materno Infantil y del Desarrollo	<ul style="list-style-type: none"> ▪ Maternal and Child Health - Carmen Rosa Pallás Alonso - Principal Investigator: RD16/0022/0011. ▪ Perinatal Medicine - Alberto Galindo Izquierdo, member of the team - RD16/0022/0011. ▪ Immunodeficiencies and Immunology of Transplants - Estela Paz Artal, member of the team - RD16/0022/0006.
RTA	Red de Trastornos Adictivos	<ul style="list-style-type: none"> ▪ Addiction and Comorbidity - Gabriel Rubio Valladolid - Principal Investigator: RD16/0017/0017. ▪ Addiction and Comorbidity - M^a Isabel Colado Megía - Principal Investigator: RD16/0017/0021. ▪ Cognition and Psychosis - Francisco Arias Horcajadas, member of the team - RD16/0017/0021.
REIPI	Red Española de Investigación en Patologías Infecciosas	<ul style="list-style-type: none"> ▪ Infectious Pathologies - José M^a Aguado García - Principal Investigator: RD16/0016/0002. ▪ Molecular Epidemiology of Hospital and Emerging Infections - Fernando Chaves Sánchez, member of the team - RD16/0016/0002.
RIS	Red Española de Investigación en SIDA	<ul style="list-style-type: none"> ▪ Virology-HIV/AIDS - Rafael Rubio García - Principal Investigator: RD16/0025/0024. ▪ Translational Research on Pediatric Infectious Diseases - Pablo Rojo Conejo, member of the team - RD16/0025/0024.
TerCel	Red de Terapia Celular	<ul style="list-style-type: none"> ▪ Lymphoid Differentiation - Agustín Gregorio Zapata González - Principal Investigator: RD16/0011/0002.



	Network	Participating groups
REDISSEC	Red de Investigación en Servicios de Salud en Enfermedades Crónicas	<ul style="list-style-type: none"> ▪ Research in Complex Patients and the Health System - Ángel Alberquilla Menéndez-Asenjo, member of the team - RD16/0001/0004. ▪ Research in Health Services and Results - Tomás Gómez Gascón, member of the team - RD16/0001/0004.
RedIAPP	Red de Investigación en Actividades Preventivas y de Promoción de la Salud	<ul style="list-style-type: none"> ▪ Cardiovascular Risk - César Minué Lorenzo - Principal Investigator: RD16-0007-0013. ▪ Research in Health Services and Results - Esther Tapias Merino, member of the team - RD16-0007-0013.

Research Support Platforms in Health Science and Technology

Eighth research groups from Instituto i+12 participated in the Research Support Platforms in Health Science and Technology of ISCIII in 2019.

	Platform	Participating groups
BIOBANKS	Plataforma de Biobancos	<ul style="list-style-type: none"> ▪ Cutaneous Oncology - José Luis Rodríguez Peralto - Principal Investigator: PT17/0015/0013. ▪ Immunodeficiencies and Immunology of Transplants - Estela Paz Artal, member of the research team of project PT17/0015/0013. ▪ Translational Haematology - Manuela Fernández Guijarro, member of the research team of project PT17/0015/0013.
ITEMAS	Plataforma de Innovación en Tecnologías Médicas y Sanitarias	<ul style="list-style-type: none"> ▪ Rare, mitochondrial, and neuromuscular Diseases - Joaquín Arenas Barbero - Principal Investigator: PT17/0005/0006. ▪ Thoracic and Clinical-Translational Oncology - Luis Paz-Ares Rodríguez, member of the research team of project PT17/0005/0006. ▪ Maternal and Child Health - Carmen Rosa Pallás Alonso, member of the research team of project PT17/0005/0006. ▪ Infectious Pathologies - Francisco López Medrano, member of the research team of project PT17/0005/0006. ▪ Translational Haematology - Joaquín Martínez López, member of the research team of project PT17/0005/0006.
EE.CC	Plataforma de Unidades de Investigación y Ensayos Clínicos	<ul style="list-style-type: none"> ▪ Clinical Epidemiology, Health Technologies and Information and Communication Techniques - Agustín Gómez de la Cámara - Principal Investigator: PT17/0017/0011.

Networked Biomedical Research Groups (CIBER)

Nineteen groups from the Instituto de Investigación Hospital 12 de Octubre (i+12) participated in CIBER during 2019.

	CIBER	Participating groups
CIBERESP	CIBER de Epidemiología y Salud Pública	<ul style="list-style-type: none"> ▪ Clinical Epidemiology, Health Technologies and Information and Communication Techniques - Agustín Gómez de la Cámara: Lead Researcher of project CB06/02/0077.
CIBERNED	CIBER de Enfermedades Neurodegenerativas	<ul style="list-style-type: none"> ▪ Neurodegenerative Diseases - Eva Mª Carro Díaz: Lead Researcher of project CB06/05/0022.
CIBERES	CIBER de Enfermedades Respiratorias	<ul style="list-style-type: none"> ▪ Respiratory Diseases - Carlos Álvarez Martínez: Lead Researcher of project CB06/06/0041.
CIBERER	CIBER de Enfermedades Raras	<ul style="list-style-type: none"> ▪ Rare, Mitochondrial, and Neuromuscular Diseases - Miguel Ángel Martín Casanueva: Lead Researcher of project CB06/07/0016 and coordinator of the Mitochondrial Diseases Area. ▪ Translational Energetic Metabolism - José Manuel Cuezva Marcos: Lead Researcher of project CB06/07/0017. ▪ Pathophysiology of Mitochondrial Biogenesis - Rafael Garesse Alarcón: Lead Researcher of project CB06/07/0013.
CIBERSAM	CIBER de Salud Mental	<ul style="list-style-type: none"> ▪ Translational Psychiatry: Juan Carlos Leza Cerro - Lead Researcher of project CB07/09/0026. ▪ Luis Agüera Ortiz - member of the research team of project CB07/09/0007. ▪ Cognition and Psychosis - Roberto Rodríguez Jiménez - Lead Researcher of project GCV17/SAM/2.
CIBER-BBN	CIBER de Bioingeniería, Biomateriales y Nanomedicina	<ul style="list-style-type: none"> ▪ Intelligent Biomaterials Research - María Vallet Regí: Lead Researcher of project CB06/01/1037.
CIBERCV	CIBER de Enfermedades Cardiovasculares	<ul style="list-style-type: none"> ▪ Heart Failure - Pulmonary Hypertension- Juan Francisco Delgado Jiménez: Lead Researcher of project CB16/11/00502. ▪ Translational Multidisciplinary Cardiovascular Research - Héctor José Bueno Zamora: member of the research team of project CB16/11/00502. ▪ Research in Cardiovascular Image - Jorge Solís Martín: member of the research team of project CB16/11/00502. ▪ Translational Research in Hypertension and Cardorenal Disease - Gema Ruiz Hurtado: member of the research team of project CB16/11/00502.

	CIBER	Participating groups
CIBERONC	CIBER de Cáncer	<ul style="list-style-type: none"> ▪ Thoracic and Clinical-Translational Oncology - Luis Gonzaga Paz-Ares Rodríguez: Lead Researcher of project CB16/12/0442. ▪ Digestive Cancer - Rocío García Carbonero: member of the research team of project CB16/12/0442. ▪ Translational Haematology - Juan José Lahuerta Palacios; Joaquín Martínez López; Rosa Mª Ayala Díaz: members of the Researcher team of project CB16/12/00369. ▪ Genitourinary and Cellular and Molecular Oncology - Jesús Mª Paramio González: Lead Researcher of project CB16/12/00228. ▪ Breast and Gynecologic Cancer - Manuel Navarro Espinel: member of the research team of project CB16/12/00228.
CIBERFES	CIBER de Fragilidad y Envejecimiento Saludable	<ul style="list-style-type: none"> ▪ Research on Physical Activity and Health - Alejandro Lucía Mulas: member of the research team of project CB16/10/00314.

Other Networks and Collectives

R&D activity programs between research groups from the Autonomous Community of Madrid in Technologies in biomedicine, cofunded with operational programs from the European Social Fund and European Regional Development Fund, 2014-2020:

- **SINOXPHOS-CM** - P2018/BAA-4403 - Soluciones interdisciplinares con control de edición génica al déficit bioenergético OXPHOS.
 - Cristina Ugalde Bilbao - Rare, mitochondrial, and neuromuscular diseases Group.
- **NANOBIOCARGO-CM** - P2018/NMT-4389 - Nanocontainers and nano-vehicles aimed at transporting and releasing bioactive agents.
 - Francisco Monroy Muñoz - Translational Biophysics Group.
 - Jesús Pérez Gil - Pulmonary Surfactant and Respiratory Diseases Group.
- **IMMUNOTHERCAN-CM** - B2017/BMD-3733 - Inmunidad Tumoral e Inmunoterapia del Cáncer.
 - José Antonio López Martín - Thoracic and Clinical-Translational Oncology Group
- **AGES-CM 2-CM** - B2017/BMD-3740 - Ambiente y Genes en Esquizofrenia.
 - Roberto Rodríguez Jiménez - Cognition and Psychosis Group.
 - Juan Carlos Leza Cerro - Translational Psychiatry Group.
- **GENOBIA-CM** - B2017/BMD-3773 - 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.
 - Miguel León Sanz - Bone Metabolism, Diabetes, and Nutrition Group.
- **NEUROMETAB-CM** - B2017/BMD-3700 - Bases Metabólicas de la Neurodegeneración.
 - Eva Mª Carro Díaz - Neurodegenerative Diseases Group.
- **RAREGENOMICS-CM** - B2017/BMD-3721 Red de Recursos Genómicos, Funcionales, Clínicos y Terapéuticos para el Estudio de las Enfermedades Raras Neurológicas.

- Miguel Ángel Martín Casanueva - Rare, Mitochondrial, and Neuromuscular Diseases Group.
- Rafael Garesse Alarcón - Pathophysiology of Mitochondrial Biogenesis Group.
- **ELA-MADRID-CM** - B2017/BMD-3813 - Diseño y Desarrollo de Fármacos Innovadores para el Tratamiento de la Esclerosis Lateral Amiotrófica.
 - Alberto García Redondo - ALS Research Group.
- **COMPLEMENTO II-CM** - B2017/BMD-3673 - El Sistema del Complemento en Salud y Enfermedad.
 - Manuel Praga Terente - Clinical Nephrology Group.
 - José Ramón Regueiro González-Barros - Lymphocyte Immunobiology Group.
- **NANODENDMED II-CM** - B2017/BMD-3703 - Nanosistemas Dendríticos como Agentes y Vectores Terapéuticos en Distintas Aplicaciones Biomédicas (II).
 - Pablo Luis Ortiz Romero - Cutaneous Oncology Group.
- **NIETO-CM** - B2017/BMD-3731 - Nanoterapia Dirigida a Inmunidad Entrenada para la Aceptación de Trasplante de Órganos.
 - Estela Paz Artal - Immunodeficiencies and Immunology of Transplants.
- **ITACA-CM** - B2017/BMD-3738 - Investigación Traslacional en Arritmias Cardiacas Hereditarias.
 - Fernando Arribas Ynsaurriaga - Translational Multidisciplinary Cardiovascular Research Group
- **MULTI-TARGET & VIEW-CM** - B2017/BMD-3688 - Imagen Multimodal de la Respuesta Terapéutica a Estrategias Multidiana en Enfermedades Neurológicas.
 - Ignacio Lizasoain Hernández - Neurovascular Research Group.
- **AVANCELL-CM** - B2017/BMD-3692 - Advanced Precision Therapies in Cellular and Tissue Regeneration and Repair.
 - Agustín Gregorio Zapata González - Lymphoid Differentiation Group
- **ILUNG-CM** - B2017/BMD-3884 - Terapias Personalizadas y Nanotecnología en Cáncer de Pulmón.
 - Luis Gonzaga Paz-Ares Rodríguez - Thoracic and Clinical-Translational Oncology Group.

SCIENTIFIC ACTIVITY: RESULTS

Publications Indexed in The Journal Citation Reports (JCR 2018)
Clinical Practice Guidelines
Technology Transfer Activities and IPR Portfolio





Publications Indexed in the Journal Citation Reports (JCR 2018)

The Annual Scientific Report 2019 was drafted after analyzing journals indexed in the ISI Web of Knowledge for both science and social science. The JCR 2018 impact factor was applied.

As is our usual practice, the sum total of the impact factor took into account only original articles, reviews, and editorials and excluded other types of publications (eg, reports to scientific meetings, letters to the editor) that, while shown in the report, do not contribute an impact factor to the total number of publications. We have also calculated the total number of publications and the global impact factor taking into account the number of letters published.

Analysis

The analysis of the scientific output of Instituto i+12 is very important when evaluating scientific activity, since it enables us to see the evolution and quality of research by members of the Institute's members over the years and to measure how we have advanced.

The total scientific output of Instituto i+12 has increased in recent years. The total number of indexed publications by consolidated and emerging groups and by associated clinical researchers at Instituto i+12 during 2019 was 935 (original articles, reviews, and editorials), with an overall impact factor (IF) of 5.415,428 points and a mean impact factor (MIF) of 5,790, that is, increase the scientific production generated by Instituto i+12 in 2019. This indicates a consolidation of the growing trend in scientific production observed in recent years.

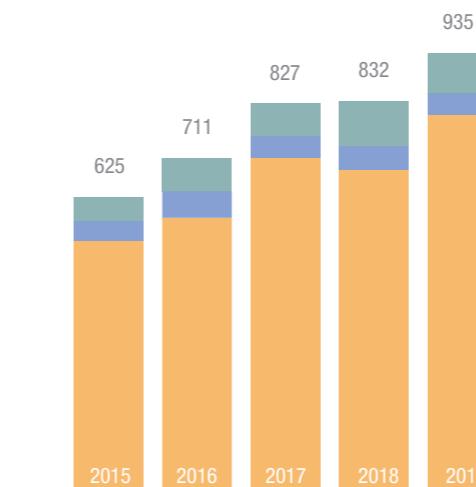
The following table shows the scientific output generated in 2019 by professionals from Instituto i+12 distributed by decile and quartile with the cumulative impact factor (CIF).

2019	Total publications	Publications in indexed journals (JCR 2018)	Σ IF (JCR 2018)	D1	Σ IF D1 (JCR 2018)	Q1	Σ IF Q1 (JCR 2018)
Articles	892	802	4,782.158	197	2,834.028	432	3,896.146
Reviews	96	87	376.884	12	110.794	43	266.229
Editorial material	57	46	256.386	9	146.691	22	201.176
Total	1.045	935	5,415.428	218	3,091.513	497	4,363.551
Letters	82	76	451.22	21	324.439	33	383.054
Total	1.127	1.011	5,866.648	239	3,415.952	530	4,746.605

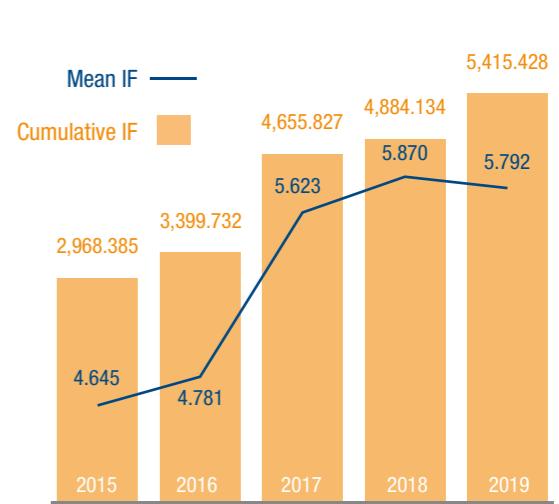
2019	Q2	Σ IF Q2 (JCR 2018)	Q3	Σ IF Q3 (JCR 2018)	Q4	Σ IF Q4 (JCR 2018)
Articles	187	591.643	112	212.798	71	81.571
Reviews	21	71.104	11	24.742	12	14,809
Editorial material	10	34.708	6	8.260	8	12.242
Total	218	697.455	129	245.800	91	108.622
Letters	16	12.888	26	45.190	11	10.088
Total	224	710.343	155	290.99	102	1118.710

The graph below shows a comparison of the overall scientific output of Instituto i+12 for 2015-2019:

Annual Distribution of the No. of Publications (2015-2019)



Annual Distribution of CIF and MIF (2015-2019)





Similarly, the scientific output of the consolidated and emerging groups of Instituto i+12 has increased over the last 5 years, in terms of both original articles and reviews and editorial material, reaching 825 publications in 2019, with a cumulative impact factor (CIF) of 4,993.715 points and a mean impact factor (MIF) of 6,053.

The impact factor was calculated based on the 2018 Journal Citation Reports (JCR), and, as stated above, only original articles, proceedings papers, reviews, and editorial material were taken into account.

Of all the publications generated by consolidated and emerging groups from Instituto i+12, 56.26% were published in first-quartile journals (Q1). Of these, 45.11% were from first-decile journals (D1).

2019	Total Publications	Publications in indexed journals (JCR 2018)	Σ IF (JCR 2018)	D1	Σ IF D1 (JCR 2018)	Q1	Σ IF Q1 (JCR 2018)
Articles	761	703	4,397.989	183	2,700.720	388	3,629.567
Reviews	89	81	349.849	11	101.136	41	248.855
Editorial material	48	41	245.877	9	146.691	21	196.962
Total	898	825	4,993.715	203	2,948.547	450	4075.384
Letters	66	63	413.688	19	312.612	29	359.055
Total	964	888	5,407.403	222	3,261.159	479	4,434.439

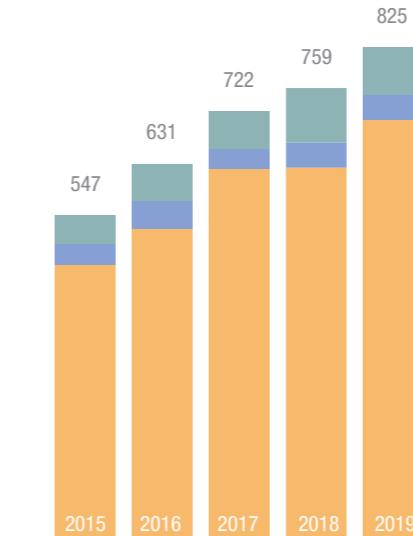
2019	Q2	Σ IF Q2 (JCR 2018)	Q3	Σ IF Q3 (JCR 2018)	Q4	Σ IF Q4 (JCR 2018)
Articles	164	523.199	94	180.972	57	64.251
Reviews	18	61.928	11	24.742	11	14.324
Editorial material	10	34.708	4	5.001	6	9.206
Total	192	619.835	109	210.715	74	87.781
Letters	4	10.547	19	35.725	11	8.361
Total	196	630.382	128	246.440	85	96.142

The following table shows a comparison of the scientific output generated by consolidated and emerging groups from i+12 during the last 5 years.

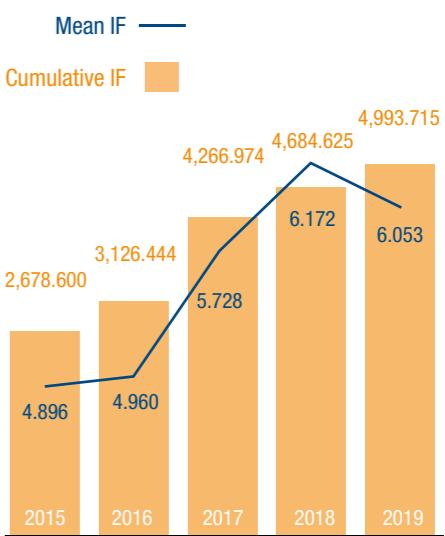
Publications	No. 2015	Σ IF (JCR 2014)	No. 2016	Σ IF (JCR 2015)	Nº 2017	Σ IF (JCR 2016)	No. 2018	Σ IF (JCR 2017)	No. 2019	Σ IF (JCR 2018)
Articles	464	2,321.536	521	2,565.137	620	3,690.800	623	3,958.996	703	4,397.989
Reviews	48	194.622	64	267.796	66	339.410	92	446.848	81	349.849
Editorial material	35	162.442	46	293.511	36	236.764	44	278.781	41	245.877
Total	547	2,678.600	631	3,126.444	722	4,266.974	759	4,684.625	825	4,993.715
Meand IF		2015		2016		2017		2018		2019
		4.90		4.96		5.73		6.17		6.05

The following graphs show the distribution over the last 5 years (2015-2019) of the number of publications generated by the investigators of the consolidated and emerging groups of i+12 and the distribution of the Mean Impact Factor and the Accumulated Impact Factor of these publications:

Annual Distribution of the No. of Publications (2015-2019)



Annual Distribution of CIF and MIF (2015-2019)



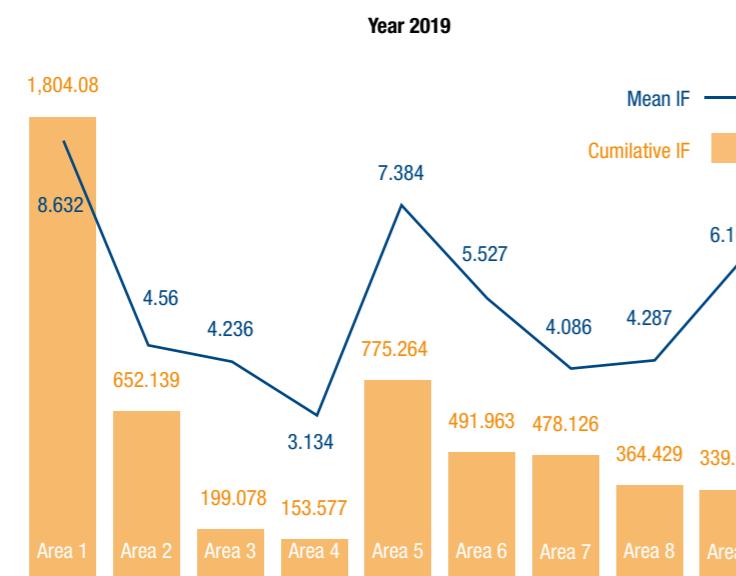
REVIEWS	48	64	66	92	81
EDITORIALS	35	46	36	44	41
ARTICLES	464	521	620	623	703



The following table summarizes the distribution of the total number of publications (articles, reviews, and editorial material) and the impact factor for the 9 research areas¹ of Instituto i+12.

Research area	No. of publications 2019	Σ IF (JCR 2018)	Mean IF (JCR 2018)
Area 1. Cancer	209	1,804.079	8.632
Area 2. Chronic Diseases and Transplantation	143	652.139	4.560
Area 3. Rare and Genetically Based Diseases	47	199.078	4.236
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	49	153.577	3.134
Area 5. Cardiovascular	105	775.264	7.384
Area 6. Inflammatory Diseases and Immune Disorders	89	491.963	5.527
Area 7. Infectious Diseases and AIDS	117	478.126	4.086
Area 8. Neurosciences and Mental Health	85	364.429	4.287
Area 9. Transversal	55	339.219	6.167

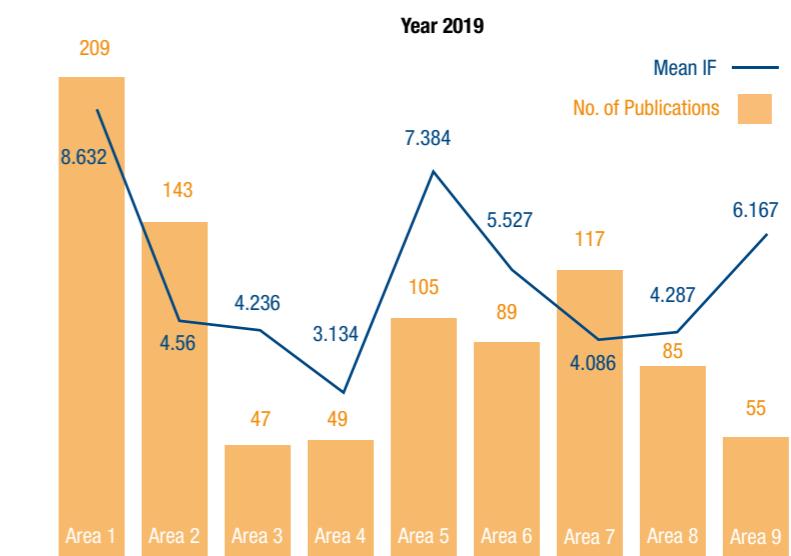
Graph showing the cumulative IF and mean IF for the 9 research areas of Instituto i+12:



¹Publications in which several research areas have participated are taken into consideration in each of them



Graph showing the total number of publications and mean IF of the 9 research areas of Instituto i+12.



The following table shows the total number of publications and cumulative impact factor by research group¹.

Research group	Publications	CIF
Thoracic and Clinical-Translational Oncology	40	473.957
Translational Multidisciplinary Cardiovascular Research	50	463.564
Translational Haematology	40	363.081
Genitourinary and Cellular and Molecular Oncology	39	361.911
Digestive Cancer	31	226.089
Breast and Gynecologic Cancer	25	224.529
Translational Research in Hypertension and Cardiorenal Disease	25	191.353
Virology-HIV/AIDS	38	180.762
Lymphocyte Immunobiology	21	173.971
Research on Physical Activity and Health	25	173.525
Inflammatory and Autoimmune Diseases	28	170.409
Clinical Nephrology	28	163.003
Rare, Mitochondrial, and Neuromuscular Diseases	35	149.785
Respiratory Diseases	21	130.826
Research on Heart Failure – Pulmonary Hypertension	25	125.632

¹Publications in which several research areas have participated are taken into consideration in each of them



Research group	Publications	CIF
Research on Intelligent Biomaterials	20	121.902
Infectious Pathologies	36	121.312
Translational Research on Pediatric Infectious Diseases	30	116.339
Immunodeficiencies and Immunology of Transplants	27	96.430
Clinical Epidemiology, Health Technologies and Information and Communication Techniques	19	93.292
Neurodegenerative Diseases	22	90.071
Cutaneous Oncology	10	86.829
Critical Patient	22	85.606
Molecular Epidemiology of Hospital and Emerging Infections	22	80.432
Neuro-Oncology	23	74.111
Ageing, Neuroimmunology and Nutrition	18	73.352
Translational Psychiatry	18	72.25
Cognition and Psychosis	17	62.193
Neurovascular Research	8	61.614
Kidney Transplant	9	53.060
Maternal and Child Health	22	52.590
Abdominal Organ Transplant	12	50.783
Neurotraumatology and Subarachnoid Haemorrhage	10	44.329
Tissue Engineering	9	43.303
Immuno-Oncology and Immunotherapy	7	40.567
Asthma and Immunoallergic Diseases	10	38.55
Male's Integral Health	15	37.162
Translational Energetic Metabolism	5	30.723
Addictions and Comorbidity	10	30.692
Bone Metabolism Diabetes and Nutrition	10	29.311
Research on ALS	5	27.756
Translational Research in Leishmaniasis	7	27.394
Pulmonary Surfactant and Respiratory Diseases	6	23.88
Translational Research with Ipsi Cells	5	21.221
Molecular and Cellular Bases in Rheumatic Diseases	5	20.12
Mitochondrial Membranes Laboratory	4	18.653

Research group	Publications	CIF
Perinatal Medicine	10	17.806
Research in Cardiovascular Imaging	4	15.918
Medical Chemistry Laboratory	2	15.712
Pathophysiology of Mitochondrial Biogenesis	3	13.109
Regenerative Medicine	2	10.87
Regulation of Cellular Homeostasis	2	9.839
Research in Complex Patients and Health System	6	9.66
Translational Biophysics	3	8.105
Translational Research in Malaria	2	7.551
Care Research	3	6.096
Clinical Practice Appropriateness and Patient Safety	4	5.511
Genetics and Inheritance	1	3.929
Lymphoid Differentiation	1	2.64
Porphyrias, Haemochromatosis and Anemia	2	2.507
Research in Health Services and Results	1	1.932
Research on Cardiovascular Risk	1	1.277

The following table lists the journals in which publications were generated by i+12 professionals and the total number of publications (articles, reviews, editorial materials) in 2018.

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
ACS MED CHEM LETT	3.737	1	3.737		Q2
ACS NANO	13.903	2	27.806	D1	Q1
ACS OMEGA	2.584	2	5.168		Q2
ACTA BIOMATER	6.638	7	46.466	D1	Q1
ACTA NEUROCHIR	1.834	2	3.668		Q3
ACTA NEUROL SCAND	2.852	1	2.852		Q2
ACTA NEUROPATHOL COM	5.883	1	5.883		Q1
ACTA OPHTHALMOL	3.153	1	3.153		Q1
ACTA PAEDIATR	2.265	4	9.06		Q2
ACTAS ESP PSIQUIATRI	1.479	1	1.479		Q3
ACTAS UROL ESP	1.136	4	4.544		Q4



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
ADDICT BIOL	4.223	1	4.223		Q1
ADV EXP MED BIOL	2.126	1	2.126		Q2
AGING CLIN EXP RES	2.331	1	2.331		Q3
AGING DIS	4.232	1	4.232	D1	Q1
AGING-US	5.515	1	5.515		Q1
AIDS	4.499	3	13.497		Q1
ALIMENT PHARM THER	7.731	2	15.462	D1	Q1
ALZ DIS ASSOC DIS	2.378	1	2.378		Q2
ALZHEIMERS RES THER	6.142	1	6.142	D1	Q1
AM J CARDIOL	2.843	1	2.843		Q2
AM J DERMATOPATH	1.106	1	1.106		Q4
AM J HEMATOL	6.137	1	6.137		Q1
AM J HUM GENET	9.924	1	9.924	D1	Q1
AM J NEPHROL	2.961	2	5.922		Q1
AM J NEURORADIOL	3.256	1	3.256		Q1
AM J RESP CRIT CARE	16.494	1	16.494	D1	Q1
AM J TRANSPLANT	7.163	4	28.652	D1	Q1
AM J TROP MED HYG	2.315	1	2.315		Q2
AM SURGEON	0.61	1	0.61		Q4
AN PEDIATR	1.166	12	13.992		Q3
ANGEW CHEM INT EDIT	12.257	1	12.257	D1	Q1
ANN CLIN TRANSL NEUR	4.656	4	18.624		Q2
ANN EMERG MED	5.209	2	10.418	D1	Q1
ANN INTERN MED	19.315	1	19.315	D1	Q1
ANN NEUROL	9.496	1	9.496	D1	Q1
ANN ONCOL	14.196	10	141.96	D1	Q1
ANN RHEUM DIS	14.299	5	71.495	D1	Q1
ANN VASC SURG	1.179	1	1.179		Q4
ANTIMICROB AGENTS CH	4.715	1	4.715		Q1
ANTIMICROB RESIST IN	3.224	1	3.224		Q1
ANTIOXIDANTS-BASEL	4.52	1	4.52	D1	Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
ANTIVIR RES	4.13	1	4.13		Q1
APPL SCI-BASEL	2.217	1	2.217		Q2
ARCH ARGENT PEDIATR	0.506	2	1.012		Q4
ARCH BRONCONEUMOL	4.214	7	29.498		Q1
ARCH DIS CHILD-FETAL	3.776	1	3.776	D1	Q1
ARCH ESP UROL	0.335	1	0.335		Q4
ARCH GERONTOL GERIAT	2.611	1	2.611		Q3
ARCH ORTHOP TRAUM SU	1.973	1	1.973		Q2
ARTHIT CARE RES	4.53	1	4.53		Q2
ARTHRITIS RES THER	4.148	1	4.148		Q1
ARTHRITIS RHEUMATOL	9.002	3	27.006	D1	Q1
ATEN PRIM	1.346	1	1.346		Q3
ATHEROSCLEROSIS	4.255	1	4.255		Q1
AUST CRIT CARE	2.515	1	2.515		Q1
AUST OCCUP THER J	1.278	1	1.278		Q4
AUTOIMMUN REV	7.716	2	15.432		Q1
BASIC RES CARDIOL	6.47	1	6.47	D1	Q1
BEHAV BRAIN RES	2.77	1	2.77		Q2
BEILSTEIN J NANOTECH	2.269	1	2.269		Q2
BIOCONJUGATE CHEM	4.349	1	4.349		Q1
BIOGERONTOLOGY	3.805	2	7.61		Q2
BIOINFORMATICS	4.531	1	4.531	D1	Q1
BIOMOLECULES	4.694	1	4.694		Q2
BJOG-INT J OBSTET GY	5.193	1	5.193	D1	Q1
BJU INT	4.524	1	4.524		Q1
BLOOD	16.562	4	66.248	D1	Q1
BLOOD CANCER J	7.895	1	7.895	D1	Q1
BLOOD PRESSURE	2.292	1	2.292		Q3
BMC CANCER	2.933	1	2.933		Q3
BMC HEALTH SERV RES	1.932	1	1.932		Q3
BMC INFECT DIS	2.565	1	2.565		Q3



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
BMC MED	8.285	1	8.285	D1	Q1
BMC MUSCULOSKEL DIS	2.002	1	2.002		Q3
BMC PEDIATR	1.983	2	3.966		Q2
BMC PREGNANCY CHILDB	2.413	1	2.413		Q2
BMC PULM MED	2.184	2	4.368		Q2
BMC UROL	1.583	1	1.583		Q3
BMC VET RES	1.792	1	1.792		Q1
BMJ OPEN	2.376	3	7.128		Q2
BONE JOINT J	4.301	1	4.301	D1	Q1
BRAIN BEHAV IMMUN	6.17	3	18.51	D1	Q1
BRAIN IMPAIR	0.958	1	0.958		Q3
BREAST	3.494	1	3.494		Q1
BREAST CANCER RES	5.676	1	5.676		Q2
BREAST J	2.433	1	2.433		Q3
BRIT J ANAESTH	6.199	1	6.199	D1	Q1
BRIT J CANCER	5.416	2	10.832		Q1
BRIT J DERMATOL	6.714	1	6.714	D1	Q1
BRIT J HAEMATOL	5.206	3	15.618		Q1
CANCER CELL	23.916	1	23.916	D1	Q1
CANCER CHEMOTH PHARM	3.008	2	6.016		Q2
CANCER MANAG RES	2.243	1	2.243		Q3
CANCERS	6.162	6	36.972		Q1
CARCINOGENESIS	4.004	1	4.004		Q2
CARDIOL YOUNG	0.943	1	0.943		Q4
CARDIOLOGY	1.561	2	3.122		Q3
CARDIOVASC DRUG THER	4.181	1	4.181		Q1
CELL DEATH DIS	5.959	2	11.918		Q1
CELLS-BASEL	5.656	3	16.968		Q2
CHEM COMMUN	6.164	1	6.164		Q1
CIR ESPAN	0.835	3	2.505		Q3
CIRCULATION	23.054	1	23.054	D1	Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
CLIN CANCER RES	8.911	3	26.733	D1	Q1
CLIN CARDIOL	2.455	3	7.365		Q3
CLIN DRUG INVEST	2.158	1	2.158		Q3
CLIN ENDOCRINOL	2.897	1	2.897		Q2
CLIN EPIDEMIOL	3.178	1	3.178		Q2
CLIN EXP ALLERGY	4.741	2	9.482		Q2
CLIN EXP OPHTHALMOL	3.411	1	3.411		Q1
CLIN EXP RHEUMATOL	3.238	3	9.714		Q2
CLIN GASTROENTEROL H	7.958	1	7.958		Q1
CLIN GENET	4.104	1	4.104		Q2
CLIN IMMUNOL	3.548	1	3.548		Q2
CLIN INFECT DIS	9.055	1	9.055	D1	Q1
CLIN J AM SOC NEPHRO	6.243	3	18.729	D1	Q1
CLIN LUNG CANCER	4.117	2	8.234		Q2
CLIN MICROBIOL INFEC	6.425	2	12.85	D1	Q1
CLIN NUTR	6.402	2	12.804		Q1
CLIN ORAL IMPLAN RES	3.825	1	3.825	D1	Q1
CLIN REHABIL	2.738	1	2.738		Q1
CLIN RHEUMATOL	2.293	1	2.293		Q3
CLIN TRANSL ONCOL	2.441	11	26.851		Q3
CLIN TRANSPLANT	1.667	1	1.667		Q3
COCHRANE DB SYST REV	7.755	1	7.755	D1	Q1
COMPR PHYSIOL	6.246	1	6.246	D1	Q1
COMPUT STRUCT BIOTEC	4.72	1	4.72		Q1
CONTACT DERMATITIS	5.504	1	5.504		Q1
CRIT CARE MED	6.971	1	6.971		Q1
CRIT REV ONCOL HEMAT	5.012	5	25.06		Q1
CURR MED RES OPIN	2.345	1	2.345		Q2
CURR MICROBIOL	1.595	1	1.595		Q4
CURR ONCOL	1.862	1	1.862		Q4
CURR OPIN CRIT CARE	2.54	1	2.54		Q2



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
CURR OPIN ORGAN TRAN	2.574	1	2.574		Q3
CURR VASC PHARMACOL	2.583	1	2.583		Q2
DIABETES RES CLIN PR	3.239	1	3.239		Q1
DIAGN CYTOPATHOL	1.402	1	1.402		Q3
DIALOGUES CLIN NEURO	4.867	1	4.867		Q1
DIGEST LIVER DIS	3.037	1	3.037		Q2
EMBO J	11.227	1	11.227	D1	Q1
EMERGENCIAS	3.35	6	20.1		Q1
ENDOCR CONNECT	2.474	1	2.474		Q3
ENDOCRINE	3.296	1	3.296		Q3
ENDOCRINOL DIAB NUTR	0.934	2	1.868		Q4
ENDOSCOPY	6.381	1	6.381	D1	Q1
ENFERM INFEC MICR CL	1.685	10	16.85		Q4
ESC HEART FAIL	3.407	2	6.814		Q2
EUR CHILD ADOLES PSY	3.74	1	3.74	D1	Q1
EUR EAT DISORD REV	3.154	1	3.154		Q1
EUR GERIATR MED	1.233	1	1.233		Q4
EUR HEART J	23.239	9	209.151	D1	Q1
EUR HEART J SUPPL	1.321	1	1.321		Q3
EUR HEART J-ACUTE CA	3.734	6	22.404		Q2
EUR HEART J-CARD PHA	6.723	1	6.723	D1	Q1
EUR J ANAESTH	4.14	1	4.14		Q1
EUR J CANCER	6.68	5	33.4		Q1
EUR J CANCER CARE	2.421	1	2.421	D1	Q1
EUR J CARDIO-THORAC	3.847	1	3.847		Q1
EUR J CLIN MICROBIOL	2.591	5	12.955		Q2
EUR J EMERG MED	1.383	1	1.383		Q2
EUR J ENDOCRINOL	5.107	1	5.107		Q1
EUR J HAEMATOL	2.217	1	2.217		Q3
EUR J HEART FAIL	13.965	4	55.86	D1	Q1
EUR J HUM GENET	3.65	2	7.3		Q2

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
EUR J INTERN MED	3.66	5	18.3		Q1
EUR J MED CHEM	4.833	1	4.833	D1	Q1
EUR J MED GENET	2.022	1	2.022		Q3
EUR J NEUROL	4.387	1	4.387		Q1
EUR J NUTR	4.449	2	8.898		Q1
EUR J PHARM BIOPHARM	4.708	1	4.708		Q1
EUR NEUROPSYCHOPHARM	4.468	2	8.936		Q1
EUR PSYCHIAT	3.941	1	3.941		Q1
EUR RESPIR J	11.807	5	59.035	D1	Q1
EUR UROL	17.298	2	34.596	D1	Q1
EUROPACE	6.1	2	12.2		Q2
EUROSURVEILLANCE	7.421	1	7.421	D1	Q1
EXP GERONTOL	3.08	1	3.08		Q2
EXPERT OPIN DRUG DEL	5.4	2	10.8		Q1
EXPERT OPIN INV DRUG	4.031	1	4.031	D1	Q1
EXPERT OPIN ORPHAN D	0.763	1	0.763		Q4
EXPERT OPIN THER PAT	3.699	1	3.699	D1	Q1
EXPERT REV HEMATOL	2.505	1	2.505		Q3
EXPERT REV MOL DIAGN	3.099	1	3.099		Q1
EXPERT REV PROTEOMIC	2.963	1	2.963		Q1
FAM PRACT	1.986	1	1.986		Q2
FASEB J	5.391	5	26.955	D1	Q1
FETAL DIAGN THER	2.04	1	2.04		Q2
FETAL PEDIATR PATHOL	0.626	1	0.626		Q4
FOOD CHEM	5.399	1	5.399	D1	Q1
FOOT ANKLE SURG	1.363	1	1.363		Q3
FORENSIC SCI MED PAT	1.815	1	1.815		Q2
FREE RADICAL BIO MED	5.657	2	11.314		Q1
FRONT CELL DEV BIOL	5.206	1	5.206		Q1
FRONT ENDOCRINOL	3.634	2	7.268		Q2
FRONT GENET	3.517	1	3.517		Q2



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
FRONT HUM NEUROSCI	2.87	1	2.87		Q2
FRONT IMMUNOL	4.716	13	61.308		Q1
FRONT MICROBIOL	4.259	2	8.518		Q2
FRONT NEUROANAT	2.923	1	2.923	D1	Q1
FRONT NEUROL	2.635	2	5.27		Q2
FRONT NEUROSCI-SWITZ	3.648	3	10.944		Q2
FRONT PEDIATR	2.349	1	2.349		Q1
FRONT PHARMACOL	3.845	2	7.69		Q1
FRONT PHYSIOL	3.201	3	9.603		Q1
FRONT PSYCHIATRY	3.161	2	6.322		Q2
FUTURE ONCOL	2.279	3	6.837		Q3
GASTROENT HEPAT-BARC	1.126	3	3.378		Q4
GASTROENTEROLOGY	19.233	1	19.233	D1	Q1
GENE CHROMOSOME CANC	2.94	1	2.94		Q2
GENES-BASEL	3.331	1	3.331		Q2
GENET MED	8.683	1	8.683	D1	Q1
GROWTH HORM IGF RES	2.167	1	2.167		Q4
GUT	17.943	1	17.943	D1	Q1
GYNECOL ONCOL	4.393	1	4.393	D1	Q1
HAEMATOLOGICA	7.57	4	30.28	D1	Q1
HEALTH QUAL LIFE OUT	2.318	1	2.318		Q2
HEART	5.082	1	5.082		Q1
HISTOCHEM CELL BIOL	2.64	1	2.64	D1	Q1
HIV MED	3.734	1	3.734		Q2
HORM METAB RES	2.423	1	2.423		Q3
HUM BRAIN MAPP	4.554	1	4.554		Q1
HUM MUTAT	4.453	3	13.359		Q1
HYPERTENS RES	3.217	1	3.217		Q2
HYPERTENSION	7.017	2	14.034	D1	Q1
IMMUN AGEING	4.25	1	4.25		Q2
IMMUNITY	21.522	2	43.044	D1	Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
INFECT DIS-NOR	2.191	1	2.191		Q3
INJURY	1.834	1	1.834		Q2
INT ANGIOL	1.279	1	1.279		Q3
INT J ANTIMICROB AG	4.615	3	13.845		Q1
INT J BIOMETEOROL	2.377	1	2.377		Q2
INT J CANCER	4.982	3	14.946		Q1
INT J CARDIOL	3.471	2	6.942		Q2
INT J CARDIOVAS IMAG	1.86	1	1.86		Q3
INT J ENV RES PUB HE	2.468	2	4.936		Q1
INT J GERIATR PSYCH	3.141	1	3.141		Q1
INT J GYNECOL CANCER	1.746	2	3.492		Q2
INT J MOL SCI	4.183	12	50.196		Q1
INT J RHEUM DIS	1.938	1	1.938		Q4
INT J SPORTS MED	2.132	1	2.132		Q2
INT J UROL	2.107	1	2.107		Q2
INTENS CARE MED	18.967	2	37.934	D1	Q1
INTERACT CARDIOV TH	1.931	1	1.931		Q3
INTERN MED J	1.767	1	1.767		Q3
J ALLER CL IMM-PRACT	7.55	1	7.55		Q1
J ALLERGY CLIN IMMUN	14.11	1	14.11	D1	Q1
J ALZHEIMERS DIS	3.517	2	7.034		Q2
J AM CHEM SOC	14.695	1	14.695	D1	Q1
J AM COLL CARDIOL	18.639	4	74.556	D1	Q1
J AM GERIATR SOC	4.113	1	4.113	D1	Q1
J AM MED DIR ASSOC	4.899	2	9.798		Q1
J AM SOC ECHOCARDIOG	6.111	1	6.111		Q1
J ANTIMICROB CHEMOTH	5.113	1	5.113	D1	Q1
J ASSIST REPROD GEN	2.82	1	2.82		Q2
J ASTHMA	2.081	1	2.081		Q3
J BIOL CHEM	4.106	1	4.106		Q2
J BREAST CANCER	2.558	1	2.558		Q4



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
J CANCER RES CLIN	3.332	1	3.332		Q2
J CANCER RES THER	1.392	1	1.392		Q4
J CARDIOTHOR VASC AN	1.882	1	1.882		Q3
J CARDIOTHORAC SURG	1.47	1	1.47		Q3
J CARDIOVASC ELECTR	2.91	1	2.91		Q2
J CARDIOVASC PHARM	2.371	1	2.371		Q2
J CELL MOL MED	4.658	2	9.316		Q2
J CELL PHYSIOL	4.522	1	4.522	D1	Q1
J CLIN HYPERTENS	2.444	1	2.444		Q2
J CLIN IMMUNOL	4.128	1	4.128		Q1
J CLIN INVEST	12.282	2	24.564	D1	Q1
J CLIN MED	5.688	5	28.44		Q1
J CLIN MICROBIOL	4.959	3	14.877		Q1
J CLIN NEUROSCI	1.593	1	1.593		Q3
J CLIN ONCOL	28.245	4	112.98	D1	Q1
J CLIN PSYCHIAT	4.023	1	4.023	D1	Q1
J CRIT CARE	2.783	2	5.566		Q3
J CROHNS COLITIS	7.827	2	15.654		Q1
J DERMATOL TREAT	2.112	1	2.112		Q2
J DTSCH DERMATOL GES	3.924	2	7.848		Q1
J ENDOUROL	2.267	2	4.534		Q2
J EXP MED	10.892	2	21.784	D1	Q1
J EXTRACELL VESICLES	11	1	11	D1	Q1
J FUNCT FOODS	3.197	1	3.197		Q1
J GERIATR CARDIOL	1.763	1	1.763		Q2
J HEPATOL	18.946	2	37.892	D1	Q1
J HOSP INFECT	3.704	2	7.408		Q1
J HYPERTENS	4.209	2	8.418		Q1
J IMMUNOTHER CANCER	8.676	1	8.676	D1	Q1
J INFECT DIS	5.045	1	5.045		Q1
J INFECTION	5.099	2	10.198		Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
J INHERIT METAB DIS	4.287	1	4.287		Q2
J INVEST ALLERG CLIN	3.802	5	19.01		Q2
J LAPAROENDOSC ADV S	1.322	2	2.644		Q3
J LIPID RES	4.743	1	4.743		Q2
J MATERN-FETAL NEO M	1.569	2	3.138		Q3
J MECH BEHAV BIOMED	3.485	1	3.485		Q2
J MED CHEM	6.054	2	12.108	D1	Q1
J MED GENET	5.899	1	5.899		Q1
J MED INTERNET RES	4.945	1	4.945	D1	Q1
J MICROBIOL IMMUNOL	2.455	1	2.455		Q2
J MINIM INVAS GYN	2.414	1	2.414		Q1
J MOL CELL CARDIOL	5.055	1	5.055		Q2
J MOL DIAGN	4.426	1	4.426		Q1
J MOL LIQ	4.561	1	4.561		Q1
J NANOBIOTECHNOL	5.345	2	10.69	D1	Q1
J NEURAL ENG	4.551	1	4.551		Q1
J NEUROL	4.204	1	4.204		Q1
J NEUROL NEUROSUR PS	8.272	1	8.272	D1	Q1
J NEUROL SCI	2.651	1	2.651		Q2
J NEUROPSYCHOL	2.468	1	2.468		Q2
J NEURORADIOLOGY	2.467	1	2.467		Q2
J NEUROSCI	6.074	1	6.074		Q1
J NEUROTRAUM	3.754	2	7.508		Q2
J ONCOL PHARM PRACT	1.826	1	1.826		Q4
J OPHTHALMOL	1.58	2	3.16		Q3
J PAEDIATR CHILD H	1.688	1	1.688		Q3
J PATHOL	5.942	1	5.942	D1	Q1
J PEDIAT HEMATOL ONC	0.947	2	1.894		Q4
J PEDIAT INF DIS SOC	2.269	2	4.538		Q2
J PEDIAT OPHTH STRAB	1.054	1	1.054		Q4
J PEDIATR SURG	2.092	2	4.184		Q2



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
J PEDIATR-US	3.739	1	3.739	D1	Q1
J PERINAT MED	1.361	2	2.722		Q3
J PHARMACEUT BIOMED	2.983	1	2.983		Q2
J PROTEOME RES	3.78	1	3.78		Q1
J PROTEOMICS	3.537	1	3.537		Q2
J PSYCHOPHARMACOL	4.221	1	4.221		Q2
J RHEUMATOL	3.634	1	3.634		Q2
J SLEEP RES	3.432	1	3.432		Q2
J SPORT SCI	2.811	1	2.811		Q2
J SURG ONCOL	3.114	1	3.114		Q2
J SURG RES	1.872	1	1.872		Q3
J THORAC ONCOL	12.46	3	37.38	D1	Q1
J THROMB HAEMOST	4.662	1	4.662		Q1
J VIRAL HEPATITIS	4.016	1	4.016		Q2
JAIDS-J ACQ IMM DEF	3.863	1	3.863		Q2
JAMA CARDIOL	11.866	1	11.866	D1	Q1
JAMA INTERN MED	20.768	2	41.536	D1	Q1
JAMA ONCOL	22.416	2	44.832	D1	Q1
JAMA-J AM MED ASSOC	51.273	1	51.273	D1	Q1
JPEN-PARENTER ENTER	4.109	1	4.109		Q3
KARDIOL POL	1.674	1	1.674		Q3
KIDNEY INT	8.306	4	33.224	D1	Q1
LANCET	59.102	4	236.408	D1	Q1
LANCET DIABETES ENDO	24.54	1	24.54	D1	Q1
LANCET GLOB HEALTH	15.873	2	31.746	D1	Q1
LANCET HIV	14.753	2	29.506	D1	Q1
LANCET INFECT DIS	27.516	1	27.516	D1	Q1
LANCET NEUROL	28.755	1	28.755	D1	Q1
LANCET ONCOL	35.386	4	141.544	D1	Q1
LARYNGOSCOPE	2.343	1	2.343		Q1
LEUKEMIA	9.944	2	19.888	D1	Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
LEUKEMIA LYMPHOMA	2.674	4	10.696		Q2
LEUKEMIA RES	2.066	2	4.132		Q3
LIVER INT	5.542	1	5.542		Q1
LUNG CANCER	4.599	6	27.594		Q1
MALARIA J	2.798	2	5.596		Q1
MAT SCI ENG C-MATER	4.959	1	4.959		Q1
MATERN CHILD NUTR	3.305	1	3.305		Q1
MECH AGEING DEV	3.603	1	3.603		Q1
MED CLIN-BARCELONA	1.277	6	7.662		Q3
MED INTENSIVA	1.982	9	17.838		Q3
MED MYCOL	2.851	1	2.851	D1	Q1
MED ONCOL	3.252	1	3.252		Q3
MED PHYS	3.177	1	3.177		Q1
MEDICINE	1.87	2	3.74		Q3
MEDITERR J HEMATOL I	1.586	1	1.586		Q4
MICROB CELL FACT	4.402	1	4.402		Q1
MICROB PATHOGENESIS	2.581	1	2.581		Q3
MOL GENET METAB	3.61	2	7.22		Q1
MOL GENET METAB REP	1.845	1	1.845		Q3
MOL IMMUNOL	3.064	2	6.128		Q2
MOL NEUROBIOL	4.586	6	27.516		Q1
MOL PHARMACEUT	4.396	2	8.792		Q1
MOVEMENT DISORD	8.061	2	16.122	D1	Q1
NANOMATERIALS-BASEL	4.034	1	4.034		Q2
NANOSCALE	6.97	1	6.97		Q1
NAT COMMUN	11.878	1	11.878	D1	Q1
NAT MED	30.641	5	153.205	D1	Q1
NAT REV MICROBIOL	34.648	1	34.648	D1	Q1
NATURE	43.07	1	43.07	D1	Q1
NEFROLOGIA	1.439	6	8.634		Q4
NEONATOLOGY	2.554	1	2.554		Q1



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
NEOPLASIA	3.837	1	3.837		Q1
NEPHROL DIAL TRANSPL	4.198	4	16.792		Q1
NEUROBIOL AGING	4.398	1	4.398		Q1
NEUROCIRUGIA	0.519	3	1.557		Q4
NEUROENDOCRINOLOGY	6.804	6	40.824		Q1
NEUROLOGIA	2.038	2	4.076		Q3
NEUROMUSCULAR DISORD	2.612	2	5.224		Q2
NEW ENGL J MED	70.67	3	212.01	D1	Q1
NUCLEUS-PHILA	2.157	1	2.157		Q3
NUTR HOSP	0.759	8	6.072		Q4
NUTR METAB CARDIOVAS	3.34	1	3.34		Q2
NUTRIENTS	4.171	6	25.026		Q1
OBES RES CLIN PRACT	2.056	1	2.056		Q3
OBSTET GYNECOL SURV	2.113	1	2.113		Q4
ONCOGENE	6.634	1	6.634	D1	Q1
ONCOLOGIST	5.252	4	21.008		Q2
OPEN FORUM INFECT DI	3.371	3	10.113		Q2
ORPHANET J RARE DIS	3.687	4	14.748		Q2
OSTEOPOROSIS INT	3.819	1	3.819		Q2
OTOLARYNG HEAD NECK	2.31	1	2.31		Q2
OXID MED CELL LONGEV	4.868	2	9.736		Q2
P NATL ACAD SCI USA	9.58	2	19.16		Q1
PANCREATOLOGY	3.241	1	3.241		Q2
PEDIATR CRIT CARE ME	2.798	2	5.596		Q1
PEDIATR DERMATOL	1.178	2	2.356		Q4
PEDIATR EMERG CARE	1.119	1	1.119		Q3
PEDIATR INFECT DIS J	2.317	5	11.585		Q2
PEDIATR NEPHROL	2.816	1	2.816		Q1
PEDIATR PULM	2.801	1	2.801		Q2
PHARMACEUTICS	4.773	1	4.773		Q1
PHYS CHEM CHEM PHYS	3.567	1	3.567		Q1

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
PHYS REV E	2.353	2	4.706		Q1
PLOS COMPUT BIOL	4.428	1	4.428		Q1
PLOS NEGLECT TROP D	4.487	2	8.974	D1	Q1
PLOS ONE	2.776	23	63.848		Q2
PSYCHIAT CLIN NEUROS	3.489	1	3.489		Q2
PSYCHIAT RES	2.208	1	2.208		Q2
PSYCHOL MED	5.641	1	5.641	D1	Q1
PULM CIRC	2.075	2	4.15		Q3
PURE APPL CHEM	2.35	1	2.35		Q3
RADIOOTHER ONCOL	5.252	3	15.756		Q1
REDOX BIOL	7.793	2	15.586	D1	Q1
REV CLIN ESP	1.043	2	2.086		Q3
REV ESC ENFERM USP	0.945	1	0.945		Q4
REV ESP CARDIOL	5.126	6	30.756		Q1
REV ESP ENFERM DIG	1.858	8	14.864		Q4
REV ESP MED NUCL IMA	0.928	1	0.928		Q4
REV ESP QUIM	0.76	5	3.8		Q4
REV ESP SALUD PUBLIC	0.635	2	1.27		Q4
REV IBEROAM MICOL	1.597	1	1.597		Q4
REV MED CHILE	0.485	1	0.485		Q4
REV MED VIROL	3.702	1	3.702		Q1
REV NEUROLOGIA	0.485	5	2.425		Q4
REV PSIQUIATR SALUD	2.927	4	11.708		Q2
RHEUMATOL INT	2.2	2	4.4		Q3
RHEUMATOLOGY	5.149	1	5.149		Q1
RSC ADV	3.049	1	3.049		Q2
SCAND J IMMUNOL	2.563	1	2.563		Q3
SCAND J MED SCI SPOR	3.631	1	3.631		Q1
SCAND J RHEUMATOL	2.706	1	2.706		Q3
SCHIZOPHR RES	4.569	2	9.138		Q1
SCHIZOPHRENIA BULL	7.289	2	14.578	D1	Q1



Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
SCI REP-UK	4.011	25	100.275		Q1
SEIZURE-EUR J EPILEP	2.765	1	2.765		Q3
SEMIN ARTHRITIS RHEU	5.072	2	10.144		Q1
SEMIN CANCER BIOL	9.658	1	9.658	D1	Q1
SEMIN CELL DEV BIOL	5.46	3	16.38	D1	Q1
SEMIN THROMB HEMOST	3.401	2	6.802		Q2
SENSORS-BASEL	3.031	2	6.062		Q1
SLAS DISCOV	2.192	1	2.192		Q3
SOFT MATTER	3.399	1	3.399		Q1
STEM CELL RES	3.929	2	7.858		Q1
STROKE	6.046	2	12.092	D1	Q1
SUPPORT CARE CANCER	2.754	1	2.754		Q1
SURGERY	3.476	1	3.476		Q1
TER PSICOL	0.6	1	0.6		Q4
THER ADV ENDOCRINOL	3.543	1	3.543		Q4
THER ADV GASTROENTER	3.961	1	3.961		Q2
THER ADV MED ONCOL	5.67	1	5.67		Q1
THER ADV PSYCHOPHARM	3	1	3		Q2
THERANOSTICS	8.063	1	8.063	D1	Q1
THROMB HAEMOSTASIS	4.733	1	4.733		Q1
THROMB RES	3.266	2	6.532		Q2
TRANSFUSION MED	1.9	1	1.9		Q3
TRANSL ANDROL UROL	2.113	1	2.113		Q2
TRANSL RES	4.915	1	4.915	D1	Q1
TRANSPL INFECT DIS	2.112	1	2.112		Q3
TRANSPL P	0.959	4	3.836		Q4
TRANSPLANT REV-ORLAN	2.615	1	2.615		Q2
TRANSPLANTATION	4.593	2	9.186	D1	Q1
TRAVEL MED INFECT DI	4.868	1	4.868		Q1
TRENDS IMMUNOL	13	1	13	D1	Q1
TRIALS	1.975	1	1.975		Q3

Journal	IF (JCR 2018)	No. of Publications	CIF	Decile (D)	Quartile (Q)
UROLOGY	1.861	1	1.861		Q3
VACCINE	3.269	1	3.269		Q2
VIRULENCE	4.775	1	4.775	D1	Q1
VIRUS RES	2.736	1	2.736		Q2
WORLD J GASTROENTERO	3.411	1	3.411		Q2
WORLD J PEDIATR	1.169	1	1.169		Q3
WORLD NEUROSURG	1.723	1	1.723		Q3
No. of Journals = 483		5.792 (MIF)	935	5,415.428	



Clinical Practice Guidelines

In 2019, the results of the research work carried out by the professionals of the Instituto i+12 led to the publication of 31 Clinical Practice Guidelines:

1. Crespo, J, Albillos, A, Buti, M, Calleja, JL, García-Samaniego, J, Hernández-Guerra, M, Serrano, T, Turnes, J, Acin, E, Berenguer, J, Berenguer, M, Colom, J, **Fernández, I**, Fernández Rodríguez C, Forns, X, García, F, Granados, R, Lazarus, JV, Molero, JM, Molina, E, Pérez Escanilla F, Pineda, JA, Rodríguez, M, Romero, M, Roncero, C, Saiz de la Hoya P, Sánchez Antolín G. Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH). 2019. *Gastroenterología y Hepatología*. 42(9): 579 - 592. IF: 1.126 - Article.
2. Crespo J, Albillos A, Buti M, Calleja JL, García Samaniego J, Hernández Guerra M, Serrano T, Turnes J, Acin E, Berenguer J, Berenguer M, Colom J, **Fernández I**, Fernández Rodríguez C, Forns X, Garcia F, Grandados R, Lazarus J, Molero JM, Molina E, Pérez Escanilla F, Pineda JA, Rodriguez M, Romero M, Roncero C, Saiz de la Hoya P, Sánchez Antolín G. Elimination of hepatitis C. Positioning document of the Spanish Association for the Study of the Liver (AEEH). *Revista Española de Enfermedades Digestivas*. 2019;111(11):862-73. IF: 1.858 - Article.
3. Gordon CE, Berenguer MC, Doss W, Fabrizi F, Izopet J, Jha V, Kamar N, Kasiske BL, Lai CL, **Morales JM**, Patel PR, Pol S, Silva MO, Balk EM, Earley A, Di MY, Cheung M, Jadoul M, Martin P. Prevention, Diagnosis, Evaluation, and Treatment of Hepatitis C Virus Infection in Chronic Kidney Disease: Synopsis of the Kidney Disease: Improving Global Outcomes 2018 Clinical Practice Guideline. *Annals of Internal Medicine*. 2019;171(7):496-504. IF: 19.315 - Article.
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5. Ramos JT, **Romero CA, Belda S**, Candel FJ, Gallego BC, Fernandez-Polo A, Antolin LF, Colino CG, Navarro ML, Neth O, Olbrich P, Rincon-Lopez E, **Contreras JR**, Soler-Palacin P, Spanish Soc Paediatric Infect Dis, Traslational Res Network Pediat In. Clinical practice update of antifungal prophylaxis in immunocompromised children. *Revista Española de Quimioterapia*. 2019;32(5):410-25. IF: 0.760 - Review.
6. Cantón Blanco A, Lozano Fuster FM, Del Olmo García MºD, Virgili Casas MN, Wanden-Berghe Lozano C, Avilés V, Ashbaugh Enguídanos R, Ferrero López I, Molina Soria JB, **Montejo González JC**, Bretón Lesmes I, Álvarez J, **Moreno Villares JM**. Manejo nutricional de la demencia avanzada: resumen de recomendaciones del Grupo de Trabajo de tica de la SENPE. *Nutrición Hospitalaria*. 2019;36(4):988-95. IF: 0.759 - Article.
7. Gutierrez Gutierrez G, Diaz-Manera J, Almendrote M, Azriel S, Eulalio Barcena J, Cabezudo Garcia P, **Camacho Salas A**, Casanova Rodriguez C, Cobo Esteban AM, Diaz Guardiola P, Fernandez-Torron R, Gallano Petit MP, Garcia Pavia P, Gomez Gallego M, Gutierrez Martinez AJ, Jerico I, Kapetanovic Garcia S, Lopez de Munain Arregui A, Martorell L, Moris de la Tassa G, Moreno Zabaleta R, Munoz-Blanco JL, Olivar Roldan J, Pascual Pascual SI, Peinado Peinado R, Perez H, Poza Aldea JJ, Rabasa M, Ramos A, Rosado Bartolome A, Rubio Perez MA, Urtizberea JA, Zapata-Wainberg G, **Gutierrez-Rivas E**. Clinical guide for the diagnosis

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9. **Ponce S**, Bruna J, Juan O, Lopez R, Navarro A, Ortega AL, Puente J, Verger E, **Bartolome A**, Nadal E. Multidisciplinary expert opinion on the treatment consensus for patients with EGFR mutated NSCLC with brain metastases. *Critical Reviews In Oncology Hematology*. 2019;138:190-206. IF: 5.012 - Review.
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13. Singer P, Blaser AR, Berger MM, Alhazzani W, Calder PC, Casaer MP, Hiesmayr M, Mayer K, **Montejo JC**, Pichard C, Preiser JC, van Zanten ARH, Oczkowski S, Szczerlik W, Bischoff SC. ESPEN guideline on clinical nutrition in the intensive care unit. *Clinical Nutrition*. 2019;38(1):48-79. IF: 6.402 - Article.
14. Neumann FJ, Sousa-Uva M, Ahlsson A, Alfonso F, Banning AP, Benedetto U, Byrne RA, Collet JP, Falk V, Head SJ, Jüni P, Kastrati A, Koller A, Kristensen SD, Niebauer J, Richter DJ, Seferovic PM, Sibbing D, Stefanini GG, Windecker S, Yadav R, Zembala MO; ESC Scientific Document Group. 2018 ESC/EACTS Guidelines on myocardial revascularization. *European Heart Journal*. 2019;40(2):87-165. IF: 23.239 - Article.
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Technology Transfer Activities and IPR Portfolio

During 2019, the Innovation Support Unit of Instituto i+12 (UAI i+12) was particularly active in the area of innovation, thus demonstrating that the Unit is now consolidated.

Innovation in Figures 2019

- 16** Patent Families in Force.
- 4** New Patent Applications (3 Spanish Applications, 1 European Patent).
- 1** International Extension via PCT.
- 1** Spanish Trademark Application (IC+12 InveCuid).
- 4** PI Rights License Agreements, 1 Commercial Exploitation Agreement.
- 1** Spin-off constituted, "ALTUM SEQUENCING".
- 8** Agreements with third parties (alliances, framework and specific agreements, CDAs and MTAs).

Patent Families in Force in 2019

1. Catheter Applicator and Catheter incorporating applicator.
2. RNA interference for the treatment of Autoimmune Lymphoproliferative Syndrome Type IA.
3. Biomarker for the Diagnosis, Prognosis and Monitoring of Early-Onset Colorectal Cancer.
4. Combination of anti-EGFR and anti-FGFR drugs for use in the treatment of lung tumours.
5. Determination of miRNAs in urine as a diagnostic method for bladder cancer.
6. Ostomy Fixation Device for the Prevention of Hernia.
7. HM - Procedure for obtaining a protective polymer mask for non-invasive ventilation systems.
8. HM - Facial Protector for the Prevention of Pressure Ulcers in Patients Undergoing Non-Invasive Mechanical Ventilation.
9. FGFR Inhibitors for Use in the Treatment of Lung Cancer.
10. Artificial Immunocomplexes and their Use as Calibres in Circulating Immunocomplex Detection Systems B2GP1-AB2GP1.
11. Method for Quantifying the Level of Minimal Residual Disease in a Subject.
12. Método pronóstico para identificar riesgo de recidiva en pacientes de cáncer de riñón tipo carcinoma renal de células claras estadios I y II y kit.
13. Nanocapsule Compositions for the Control Released of Agents of Therapeutic Interest.

14. Predictive Panel of Albuminuria Development in Hypertensive Patients under Chronic Treatment. Metabolic Response Profile to Hypertension and Albuminuria.
15. Continuous Pasteurizer at High Temperatures and Short Times for Human Milk.
16. Procedure for the Elaboration of Lipidic Nanoparticles as Target Cells.

The activity carried out at UAI i+12 during 2019

Innovation Funnel

- As of 31.12.2019, since the creation of the UAI i+12: 8 ideas captured without evaluation, 9 ideas under evaluation, 5 ideas under development, 16 ideas in transfer and 9 ideas in the market.
- 2019: 3 ideas captured without evaluation, 5 ideas under evaluation, 0 ideas under development, 2 ideas in transfer and 1 idea in the market.

Industrial Property

- During 2019, work has been done on the management of a total of 5 new PI rights applications (3 national patents, 1 European patent and 1 PCT extension), as well as the application for a Spanish trademark:
 - Title: Nanocapsule Compositions for the Control Released of Agents of Therapeutic Interest.
 - Number: PCT/EP2019/050425.
 - Type: PCT.
 - Inventors: Pablo Luis Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, M^a Rocío Villegas Díaz, Alejandro Baeza García.
 - Owners: Universidad Complutense de Madrid (60%), Fundación i+12 (40%).
 - Date of application: 09/01/2019.
- Title: Method for Determining the Presence or Absence of Minimal Residual Disease (MRD) in a Subject who has been Treated for a Disease.
- Number: EP19382730.
- Type: Patente Europea.
- Inventors: Joaquín Martínez López, Rosa M^a Ayala Díaz, Santiago Barrio García, Inmaculada Rapado Martínez, Esther Onecha.
- Owners: Fundación i+12 (80%), Centro Nacional de Investigaciones Oncológicas (20%).
- Date of application: 27/08/2019.
- Title: Células Madre de la Decidua Parietalis de la Placenta para su Uso en la Incontinencia Urinaria de Esfuerzo Crónico.
- Number: P201931035.
- Type: Patente Española.
- Inventors: Ana Isabel Flores de la Cal, Paz de la Torre Merino, M^a Jesús Pérez Lorenzo, Álvaro Alcázar Garrido, Eloy Muñoz Gállego, Ana Rosa Masero Casasola, M^a del Carmen Gutiérrez Vélez, José Medina Polo, Jesús Alfredo Grande García, Alicia García García Porrero.
- Owners: Fundación i+12 (100%).
- Date of application: 22/11/2019.



▫ Title: Derivados de Sulfuro como Potenciales Agentes Antivirales.

Number: P201931084.

Type: Patente Española.

Inventors: Carmen Gil Ayuso-Gontán, Ana Martínez Gil, Nuria Campillo Martín, Covadonga Alonso Martí, Rafael Delgado Vázquez, Fátima Lasala Sánchez.

Owners: Consejo superior de Investigaciones Científicas (60%), Instituto nacional de Investigación y Tecnología Agraria y Alimentaria (20%), Fundación i+12 (20%).

Date of application: 05/12/2019.

▫ Title: Aplicador para Catéter y Método de Uso.

Number: P201931127.

Type: Patente Española.

Inventors: Francisco López Medrano.

Owners: Fundación i+12 (100%).

Date of application: 18/12/2019.

▫ Title: "IC+12 InveCuid".

Number: M4011063.

Type: Marca Comercial Española.

Owners: Fundación i+12 (100%).

Date of application: 20/03/2019.

Processes for Public Procurement of Innovation

- Through UAI i+12, we have participated in the drafting of a proposal for public procurement launched by the European Commission within the framework of the H2020 program. "Innovation Procurement: Next generation sequencing (NGS) for routine diagnosis".

Application for Innovation Calls

- Preparation, presentation and participation of the UAI i+12 in the proposal "Development and Validation of a Bladder Cancer Diagnosis/Prognosis System based on the Determination of miRNAs in Urine Samples" within the framework of the 2019 Strategic Health Action Technological Development Projects call.
- Preparation and presentation of the "MedTech4All" proposal to the H2020-MSCA-ITN-2019 call (Marie Skłodowska-Curie Innovative Training Networks) in collaboration with the Universidad Politécnica de Madrid

Programs for Innovation in Health Care

- Participation in the BLADIMIR project "New Diagnostic Method for Bladder Cancer" led by Dr. Marta Dueñas and Dr. Jesús María Paramio, in the HEALTHSTART programme of the Madri+d Knowledge Foundation. Third finalist with 12,000 euros.
- Participation in the project "Software for the Improvement of Hospital Management Based on Combined Results" led by Dr. Héctor Bueno in the HEALTHSTART programme. Project among the 13 finalists, 2,000 euros.
- Participation in the project "Treatment for Muscular Diseases Based on the Use of Liposome Vehicles" led by Dr. Inés García-Consegra in the HEALTHSTART programme. Obtaining 2,000 euros for activities related to this project.

Activity in the Framework of Plataforma ITEMAS

- Participation in Working Groups:
 - "Fomento de la Cultura Innovadora [Promotion of an Innovation Culture]". The UAI i+12 has led the organisation and management of 8 training pills for ITEMAS managers and collaborators. It has also fulfilled the objectives and deliverables assigned during its participation in this Working Group.
 - "Best Practices". The UAI i+12 has participated in the objectives assigned
- Attendance at the General Assembly of ITEMAS (Barcelona, 7-8 November 2019) .

Training Actions

- 3rd Edition training course: "INNOVACIÓN: Aspectos clave en el desarrollo de ideas [INNOVATION: Key aspects in the development of ideas]" (25/03/2019 – 28/03/2019). The course is aimed at health care and non-health care personnel of Instituto i+12 and professionals from the Community of Madrid. Duration: 15 hours.
- Participation of the UAI i+12 as a speaker in the ITEMAS training pill "Industrial/Intellectual Property Regulatory Framework" for research staff of NODOS ITEMAS at a national level. 20/06/2019.

Alliances and Search for Partners

- Signature of 2 confidentiality agreements.
- Signature of 6 Material Transfer Agreements with third parties: 2 at national level and 4 at international level.

Transfer Actions

- Search for licensees for the portfolio of Instituto i+12 patents, presented via technology offer forms for each of the inventions (available on the institutional website www.imas12.es).
- Publication for an offer of technology with respect to the european patent "Nanocapsule Compositions for the Control Released of Agents of Therapeutic Interest" in the European Platform Enterprise Europe Network with access to potential licensees beyond the member states of the EU.
- Support in the creation (licence agreements/partner agreements, participation of the i+12 Foundation in the share capital) of the "ALTUM SEQUENCING" spin-off in the i+12 healthcare setting, led by the Head of the Haematology Department of the 12



de Octubre Hospital, Dr Joaquín Martínez López, head of the Translational Haematology Research group. ALTUM focuses on the analysis of diagnostic samples or relapses to identify genetic alterations related to progression, response to drugs and survival.

- European Patent License “Method for quantifying minimal residual disease in a subject”, to the spin-off ALTUM SEQUENCING.
- 1 joint license (Fundación i+12-CNIO) of the European patent “Method for Determining the Presence or Absence of Minimal Residual Disease (MRD) in a Subject who has been Treated for a Disease”, to the spin-off ALTUM SEQUENCING.
- Commercial exploitation agreement of the patent “Continuous Pasteurizer for Human Milk” with one of the co-owners of this patent, SIVE FLUID SYSTEMS.
- Licence of the SEPiR+12 SYSTEM tool to the company CIDI SALUD.
- 1 Know-How License related to the European Patent “Method for Quantifying the MRD in a Subject”.

Outreach Activities by UAI i+12

- Organisation of the conference “Patents as a Tool for Searching for Patents” in collaboration with the Spanish Patent and Trademark Office, held on 04/04/2019.
- Participation of the UAI i+12 as a speaker at the El Escorial Summer Courses “Ostomy Lessons”, 15/07/2019.
- Participation of the UAI i+12 as a speaker in the “Master’s Degree in Biomedical Engineering” led by the UPM’s Higher Technical School of Engineering, 23/09/2019
- Presentation by the UAI i+12 of the poster “Innovation Management at i+12” at the “9th International Congress on Technology, Science and Society” held in Madrid, 3-4/10/2019
- Participation of the UAI i+12 as a speaker at the “II Conference on Innovation in Health Sciences” held at the Hospital Infanta Leonor, 13/11/2019.



TRAINING ACTIVITIES

Courses

Conferences, Meetings and Congresses

i+12 Sessions

Seminars at the i+12 Research Center

Doctoral Theses





In 2019, Instituto de Investigación Hospital 12 de Octubre carried out a series of training activities as part of its annual training plan. These activities were aimed at providing specific training in science to all the professionals who form part of Instituto i+12. The activities are set out below.

Courses

In 2019, Instituto i+12 held various training courses on research:

- Twenty Sixth edition of the course “Bases metodológicas de la Investigación Biomédica”. Director: Agustín Gómez de la Cámara. On-line and face-to-face course. January 22 to February 21, 2019.
- XXII Course in Dermatopathology, 8 and 9 March 2019, from 9:00 to 19:00h. Face-to-face course.
- First Steps in Clinical Research course. 11 and 12 March 2019. Face-to-face course.
- FINE training: Training oriented to the neurodevelopment of children and their families, 21 and 22 March 2019, from 9:00 to 17:00h. Face-to-face course.
- Innovation Course: Key Aspects for the Development of Ideas (3rd Edition), 25-28 March 2019. 15 teaching hours. Face-to-face course.
- Hands-on workshop “Difficult Lines”, 29 March 2019, from 10:00 to 15:00h.
- XIII Foetal Ultrasound Course, 28 and 29 November 2019, from 8:30 to 19:00h. Face-to-face course.
- First Steps in Clinical Research. 11 and 12 de March 2019. Face-to-face course.

Conferences, Meetings and Congresses

In 2019, Instituto i+12 also held different types of seminars and one-day informative science sessions:

- III Scientific Meeting of the Research Network on Inflammation and Rheumatic Diseases (RIER), 7 March 2019.
- III Research Conference for Residents, 13-14 March 2019.
- Open Day for Future Residents, 20 March 2019.
- II Conference on Case Reports, 23 April 2019.
- New Residents Welcome Day, 28 May 2019.
- IX Ana María Martínez Scientific Nursing Competition, 29 May 2019.
- II Conference on Biologics, Safety and Infection (BI-SEIF), 18 September 2019.
- V International Congress on CPR, Critical Care and Emergencies, 14-16 October 2019.
- IV Conference for Patients with Breast Cancer, 15 October 2019.
- Conference on Multidisciplinary Approach of the Patient with Non-Alcoholic Fatty Liver Disease and Alcohol, 24 October 2019.
- V Conference on Infections Associated with the Healthcare Environment in Paediatrics, 12 November 2019.
- Multidisciplinary Management of Advanced Ovarian Cancer, 14 November 2019.
- XIII National Congress of the Services for the Prevention of Occupational Risks in the Healthcare Setting, 13-15 November 2019.
- I Multidisciplinary Conference on HPV Infection in Immunosuppressed Patients, 20 November 2019.
- IV Conference for Families and Patients on Congenital Cytomegalovirus, 23 November 2019.
- VI Organ Transplant Update Conference, 3-4 December 2019.
- IV Cardiovascular Risk Update Conference, 16 December 2019.
- II Annual Meeting of Patients for Cardiovascular Health, 20 December 2019.



i+12 Sessions

The i+12 research sessions are events organised by the Instituto i+12 whose aim is to raise awareness among the stakeholders, i+12 researchers, the scientific community, patient groups and society in general, of the research activities carried out mainly by the professionals who form part of the institution. In addition to making known the knowledge generated at the Institute, they also aim to strengthen the collaborations between the research groups that participate in the sessions, as well as to be able to establish new collaborations with external researchers.

The implementation of the i+12 research sessions requires good planning to guarantee the availability of speakers who will produce attractive and interesting content for the recipients of the information to be transmitted and to facilitate the attendance of the greatest possible number of participants at the research sessions.

These sessions are generally given by i+12 professionals, although on many occasions researchers and/or professionals of recognised prestige from other institutions are invited to participate, presenting different topics of interest to the scientific community.

Since the i+12 research sessions planned by the Institute are open to any type of interested public, they are actively disseminated.

The following i+12 sessions have been held in 2019.

DATE	TITLE	SPEAKER
12/02/2019	Sesión Presentación Acción Estratégica en Salud 2019	Joaquín Arenas Barbero
1/03/2019	Soluciones para terapia celular de GE Healthcare	Jules Bourgon*
12/03/2019	La gripe de 1918-19 como revulsivo científico, social y sanitario en España y su pervivencia más allá de la creación de la OMS	Mª Isabel Porras Gallo*
15/03/2019	Anticuerpos y antimateria: papel de la InmunoPET en la medicina personalizada del cáncer	Miguel Ángel Morcillo Alonso
1/04/2019	Mi Trayectoria Científica	María Vallet Regí
4/04/2019	Patentes, herramienta clave para la investigación en el entorno sanitario	Carmen Toledo de la Torre*
7/05/2019	Cardiotoxicidad por antraciclinas: mitocondria como diana terapéutica	Borja Ibáñez Cabeza*
21/06/2019	Medicina Genómica. ¿Dónde estamos?	Carmen Ayuso García*
3/07/2019	Función de Tau en la Neurona	Jesús Ávila de Grado*
26/09/2019	Los Organismos Financiadores de la Investigación y el Acceso Abierto	Elena Primo Peña*
10/10/2019	Presentación de la Memoria Anual de Actividad 2018 del Instituto de Investigación Hospital 12 de Octubre	Joaquín Arenas Barbero
12/11/2019	Autores, Firmas e Identidad Digital	José Manuel Estrada Lorenzo
10/12/2019	Grupo de Investigación en Cuidados del i+12 - InveCuid	Santiago Pérez García

* External speaker

Seminars at the i+12 Research Center

Fortnightly research seminars are held at the i+12 for all the staff of the Institute and are usually conducted by the researchers of the i+12, in which aspects related to the scientific activity carried out by the research group are reported, as well as the main results obtained by the research group in the last period. The audience for these seminars is mainly the Institute's own researchers, but anyone interested may attend.

During 2019 the following i+12 research seminars have been held:

- 14 January 2019 - Fernando Bartolomé Robledo: Rare and Genetically Based Diseases - Instituto i+12. "Dinámica mitocondrial en modelos de enfermedad de Alzheimer".
- 28 January 2019 - Carlos Carretero Puche: Digestive Cancer Group - Instituto i+12. "La heterogeneidad del cáncer de colon: Desde los sistemas de clasificación por análisis de transcriptoma hasta la clínica".
- 11 February 2019 - Mª Eugenia G. Barderas: Laboratorio Fisiopatología Vascular - Hospital Nacional de Paraléjicos. "Nueva perspectiva en el estudio de la albúminuria resistente y otras patologías".
- 25 February 2019 - Irene Gómez Manjón: Genetics and Inheritance Group - Instituto i+12. "Rentabilidad diagnóstica de los arrays en prenatal".
- 11 March 2019 - Fátima Lasala Sánchez. Virology-HIV/AIDS Group - Instituto i+12. "Adaptación a la especie humana del Virus Ébola".
- 25 March 2019 - Ángela Mª Marrugal Lorenzo: Thoracic and Clinical-Translational Oncology Group - Instituto i+12. "Identificación de los mecanismos moleculares subyacentes a la inhibición de HSP90 en pacientes con cáncer de pulmón no microcítico".
- 8 April 2019 - Luis Javier Serrano Ramos: Regenerative Medicine Group - Instituto i+12. "Desarrollo de terapia génica basada en CRISPR para el tratamiento del déficit de factor V".
- 22 April 2019 - Asunción Martín Ruiz-Valdepeñas: Research on Physical Activity and Health Group - Instituto i+12. "Desarrollo de un modelo murino de pulmón no célula pequeña: Respuesta a inmunoterapia y a ejercicio físico".
- 6 April 2019 - Mª Teresa Agulló Ortuño: Thoracic and Clinical-Translational Oncology Group - Instituto i+12. "Estudio de biomarcadores predictores de respuesta a Pemetrexed en pacientes con NSCLC".
- 20 April 2019 - Sandra Tapiol Santos: Digestive Cancer Group - Instituto i+12. "Caracterización molecular de cáncer colorrectal múltiple".
- 3 April 2019 - Gloria Álvarez Llamas: Laboratorio de Inmunoalergia y Proteómica - Fundación Jiménez Díaz. "Metabolismo, perfil proteico y riesgo cardiovascular en población asintomática e hipertensión".
- 17 June 2019 - Cristina Sánchez Carabias: Neurotraumatology and Subarachnoid Haemorrhage Group - Instituto i+12. "Valor de nuevos marcadores pronósticos en el traumatismo cranoencefálico: volumetría en TC, RM craneal, técnicas avanzadas (difusión y tractografía) y biológicos".
- 4 November 2019 - Dr. Miguel Gallardo Delgado: Translational Haematology Group - CNIO. "hnRNPk, oncogen o supresor de tumores".
- 18 November 2019 - Dr. Óscar Rogero Marín: Immunoassay Sales Specialist, Life Science I Research Solutions. "Single Molecule Counting: Cuantificación Digital de Biomarcadores Poco Abundantes con Alta Precisión y Exactitud".



- 25 November 2019 - Beatriz Rubio Cuesta: Digestive Cancer Group - Instituto i+12. "SRC como potencial diana terapéutica en tumores colorrectales BRAF mutados".
- 2 December 2019 - Dra. M^a Eugenia G. Baderas: Laboratorio Fisiopatología Vascular, Hospital Nacional de Paraléjicos, Toledo. "Nueva perspectiva en el estudio de la albuminuria resistente y otras patologías".
- 16 December 2019 - Daniel Borrego Hernández: Research Group in Amyotrophic Lateral Sclerosis (ALS) - Instituto i+12. "Puesta a punto de un algoritmo molecular de diagnóstico en pacientes con ELA y/o DLFT".

Seminars on Cancer Immunotherapy

Dr. Luis Álvarez Vallida, Head of the Immuno-oncology and Immunotherapy Research Group, organises an annual cycle of "Cancer Immunotherapy Seminars", given by experts in the field from different national institutions.

- 15 January 2019 • Marisol Soengas: Centro Nacional de Investigaciones Oncológicas (CNIO), Madrid. "Imaging and targeting metastatic niches in melanoma".
- 12 February 2019 • Sonia Guedan: IDIBAPS-Hospital Clinic Barcelona. "Chimeric Antigen Receptor (CAR) modified T-cells for the treatment of cancer".
- 13 March 2019 • Joaquín Arribas: Vall d'Hebron Institute of Oncology, Barcelona. "Redirecting T cells against cancers".
- 9 April 2019 • Rafael Sirera: Universidad Politécnica de Valencia. "The heterogeneity in the immune contexture in cancer and its clinical significance".
- 14 May 2019 • Pedro Berraondo: Centro de Investigación Médica Aplicada (CIMA), Pamplona. "An RNA tool for Cancer Immunotherapy".
- 11 June 2019 • Julio Delgado: Hospital Clinic Barcelona. "Clinical experience with an academic Chimeric Antigen Receptor (CAR)".

Doctoral Theses Directed or Defended in 2019 by Researchers from the Institute

The training activity of the Instituto i+12 is reflected in the doctoral theses. In 2019, the research groups of the Instituto i+12 participated in a total of 32 doctoral theses (7 of them with an international mention*), either by directing or authoring them.

The following table lists all theses directed or defended by i+12 researchers.

Name	Title	University	Date defended	Research Area/Group	Director(s)
Yanira Ruiz Heredia	Desarrollo de estrategias de medicina personalizada para el tratamiento del mieloma múltiple	Complutense de Madrid	10/02/2019	Cancer/Translational Haematology	Joaquín Martínez López Jon Ballesteros Nobell
Cristina Nuevo Tapiolas	Regulación de la OXPHOS mediada por IF1 y su papel como diana terapéutica en cáncer	Autónoma de Madrid	26/04/2019	Cancer/Translational Energy Metabolism	José Manuel Cuevaz Marcos
Laura Ojeda Márquez	Papel de la Interleuquina-11 en la biología del adenocarcinoma pulmonar (*)	Complutense de Madrid	12/11/2019	Cancer/Thoracic and Clinical-Translational Oncology	Luis Paz-Ares Rodríguez Irene Ferrer Sánchez
Cristina Segovia de Andrés	Preclinical study of potential therapeutic strategies based on epigenetics for bladder (*)	Alcalá de Henares	17/06/2019	Cancer/Genitourinary and Cellular and Molecular Oncology	Jesús M ^a Paramio González Mónica Martínez Fernández
Carolina Rubio Martín	Preclinical analysis of compounds with anti-tumor capacity in urothelial cancer	Complutense de Madrid	07/10/2019	Cancer/Genitourinary and Cellular and Molecular Oncology	Jesús M ^a Paramio González Marta Gloria Dueñas Porto
Diana Marisol Valencia Núñez	Inflamación y daño endotelial en cirugía coronaria (*)	Córdoba	15/01/2019	Chronic Diseases and Transplantation/ Ageing, Neuroimmunology and Nutrition	Julia M ^a Carracedo Añón
Caroline Hunsche	Intervenciones nutricionales en modelos de envejecimiento prematuro y cronológico	Complutense de Madrid	05/09/2019	Chronic Diseases and Transplantation / Ageing, Neuroimmunology and Nutrition	Mónica de la Fuente del Rey
Irene Martínez de Toda Cabeza	Marcadores de velocidad de envejecimiento y predictores de longevidad (*)	Complutense de Madrid	20/09/2019	Chronic Diseases and Transplantation / Ageing, Neuroimmunology and Nutrition	Mónica de la Fuente del Rey



Name	Title	University	Date defended	Research Area/Group	Director(s)
Oana Anisa Nutu	Trasplante hepático por carcinoma hepatocelular. Utilización de injertos procedentes de donación en muerte circulatoria no controlada versus injertos de donantes en muerte encefálica	Complutense de Madrid	08/05/2019	Chronic Diseases and Transplantation / Abdominal Organ Transplant	Luis Carlos Jiménez Romero Alberto Marcacuzco Quinto Iago Justo Alonso
Maria García-Conde Delgado	Resultados a largo plazo del trasplante hepático mediante la utilización de injertos hepáticos procedentes de donantes con muerte circulatoria (Maastricht tipo II)	Complutense de Madrid	16/12/2019	Chronic Diseases and Transplantation / Abdominal Organ Transplant	Luis Carlos Jiménez Romero Alejandro Manrique Municio Iago Justo Alonso
Lucía Fernández Gassó	Análisis poblacional de las hospitalizaciones por insuficiencia cardiaca en la Región de Murcia 2003-2013: tendencias, reingresos y pronóstico (*)	Complutense de Madrid	29/11/2019	Cardiovascular/ Research on Heart Failure – Pulmonary Hypertension	Domingo Pascual Figal Federico Soria Arcos
Carlos Andrés Quezada Loaiza	Manejo de la hipertensión arterial pulmonar: estratificación pronostica y opciones terapéuticas	Complutense de Madrid	20/05/2019	Cardiovascular/ Research on Cardiovascular Imaging	Mª del Pilar Escribano Subias
Cecilia Villalaín González	Crecimiento intrauterino restringido tardío: optimización del diagnóstico y tratamiento	Complutense de Madrid	27/05/2019	Cardiovascular/ Perinatal Medicine	Ignacio Herráiz García Alberto Galindo Izquierdo
Raquel Toribio Fernández	Biological and pathological role of A-type lamins in T-cell mediated immune response (*)	Autónoma de Madrid	18/01/2019	Inflammatory Diseases and Immune Disorders / Inflammatory and Autoimmune Disease	José Mª González Granado
Mohamed Ramadan Mohamed	Role of the JNK genes for disease progression in the NEMO model	RWTH Aachen	24/09/2019	Inflammatory Diseases and Immune Disorders / Lymphocyte Immunobiology	Christian Trautwein Francisco Javier Cubero
Alejandro Briones Contreras	Modelos celulares de inmunodeficiencias congénitas de linfocitos T: aplicación a estudios de expresión y señalización	Complutense de Madrid	26/11/2019	Inflammatory Diseases and Immune Disorders / Lymphocyte Immunobiology	José Ramón Regueiro González-Barros Paula Cárdenas
Francisco Luis Cano Romero	Linfocitos T cooperadores foliculares circulantes en trasplante renal	Complutense de Madrid	15/11/2019	Inflammatory Diseases and Immune Disorders / Immunodeficiencies and Immunology of Transplants.	Rocío Laguna Goya Estela Paz Artal

Name	Title	University	Date defended	Research Area/Group	Director(s)
Isabel Fradejas Villajos	Diagnóstico de Strongyloides stercoralis en un hospital de tercer nivel: retos y mejoras	Autónoma de Madrid	10/10/2019	Infectious Diseases and AIDS / Molecular Epidemiology of Hospital and Emerging Infections	Ana Pérez de Ayala Balzola José Miguel Rubio Muño
Julia Origuen	Evaluación del significado de la bacteriuria asintomática en trasplantados renales: estudio prospectivo randomizado de profilaxis vs no profilaxis	Complutense de Madrid	22/01/2019	Infectious Diseases and AIDS / Infectious Pathologies	Rafael San Juan Francisco López Medrano José Mª Aguado García
Ana Barrios Rascón	Importancia de los parámetros de la repolarización ventricular en el ECG en la enfermedad de Kawasaki	Universidad Europea	15/03/2019	Infectious Diseases and AIDS / Translational Research on Pediatric Infectious Diseases	Alfredo Tagarro García
Estela Jiménez López	Neurocognición y resultado funcional en el trastorno bipolar con síntomas psicóticos	Castilla-La Mancha	03/05/2019	Neurosciences and Mental Health / Cognition And Psychosis	José Luis Santos Gómez Eva Mª Sánchez Morla
Miguel Ortiz del Castillo	Ánálisis avanzado de registros de electroretinografía multifocal aplicado al diagnóstico de esclerosis múltiple	Alcalá de Henares	20/06/2019	Neurosciences and Mental Health/ Cognition and Psychosis	Luciano Boquete Vázquez Eva Mª Sánchez Morla
Iosune Torio Palmero	Conciencia de enfermedad en esquizofrenia: relación con sintomatología y cognición	Complutense de Madrid	08/11/2019	Neurosciences and Mental Health/ Cognition and Psychosis	Roberto Rodríguez Jiménez
Lorena Alicia Martín Arnal	Let's read comics and texts! A comparative study performed with children and adults (*)	Autónoma de Madrid	29/11/2019	Neurosciences and Mental Health/ Cognition and Psychosis	José Antonio León Cascón Ricardo Olmos Albacet
David Andrés Pérez Martínez	Evaluación y desarrollo de una consulta médica virtual en un servicio de neurología: eficiencia, seguridad y satisfacción de un modelo de consulta de visita única y evaluación virtual de resultados	Complutense de Madrid	25/10/2019	Neurosciences and Mental Health/ Neurodegenerative Diseases	Jorge Matías-Guiu Guia
Marta Cicuendez López-Ocaña	Valor de la resonancia magnética en el diagnóstico y pronóstico de la lesión axonal difusa en el traumatismo craneoencefálico grave	Complutense de Madrid	11/01/2019	Neurosciences and Mental Health/ Neurotraumatology and Subarachnoid Hemorrhage	Alfonso Lagares Gómez-Abascal Ana Ramos



Name	Title	University	Date defended	Research Area/Group	Director(s)
Santiago Cepeda Chafla	Factores de riesgo de progresión hemorrágica de los hematomas intracerebrales traumáticos	Complutense de Madrid	11/10/2019	Neurosciences and Mental Health/ Neurotraumatology and Subarachnoid Hemorrhage	Alfonso Lagares Gómez-Abascal Pedro Antonio Gómez López
Ana Mª Castaño León	Herramientas pronósticas en los pacientes con traumatismo craneoencefálico	Complutense de Madrid	20/09/2019	Neurosciences and Mental Health/ Neurotraumatology and Subarachnoid Hemorrhage	Alfonso Lagares Gómez-Abascal Pedro Antonio Gómez López
Cristina Abuín Martínez	Implicación de la vía kinurenina en los efectos inmediatos y a largo plazo inducidos por 3,4-metilendioximetanfetamina (MDMA, éxtasis) en cerebro de rata	Complutense de Madrid	26/07/2019	Neurosciences and Mental Health/ Addictions and Comorbidity	Mª Isabel Colado Megía Mª Esther O'Shea Gaya Rebeca Vidal Casado
Violeta Medina Alonso	Demencia vascular: búsqueda de dianas terapéuticas en un modelo preclínico	Complutense de Madrid	25/11/2019	Neurosciences and Mental Health/ Neurovascular Research	Mª Ángeles Moro Sánchez Ignacio Lizasoain Hernández Macarena Hernández Jiménez
Javier Salvador Morales	Beneficios del ejercicio físico en población con cáncer pediátrico: Evidencias epidemiológicas y clínicas	Universidad Europea	05/12/2019	Transversal/ Research on Physical Activity and Health	Alejandro Lucía Mulas Carmen Fiua Luces
Miguel Gisbert Garzarán	Stimuli-Responsive Mesoporous Nanomatrices for Drug Delivery.	Complutense de Madrid	29/10/2019	Transversal/ Research on Intelligent Biomaterials	Miguel Manzano García

COMMUNICATION ACTIVITIES





The communication and dissemination of information is one of the main tools that an institution has to improve its visibility in the environment and to favour the development of its activities in collaboration with other entities and similar groups.

Among the strategic objectives identified in the Instituto i+12 Strategic Plan for the period 2019-2023 is to increase the Visibility of i+12. To achieve this strategic objective, communication, both internal and external, is a fundamental tool.

In this regard, with the aim of ensuring that the knowledge generated by the professionals who make up the Instituto i+12 is adequately disseminated and effectively reaches the scientific community and the general public, the Institute has identified and defined a series of priority communication channels which it includes in its Integral Communication Plan.

For both internal and external communication to be effective, it is critical to periodically evaluate the communication channels implemented, so that the most effective channels and those that need to be reinforced can be identified.

The ultimate goal of the Communication Plan is to improve the visibility of the Institute as a reference centre in the field of biomedical research and to promote its image in the society.

The following is a list of the number of news items, mainly associated with professionals from the Instituto i+12 linked to HU120, which were broadcast by different media throughout 2019.

No. of press releases issued	9
Number of news items published in the written press	15
Number of news items published in the specialised press	101
Number of news items published in the digital press	86
News in other audiovisual media: Radio	33
News in other audiovisual media: TV	47

The website of an institution is the first point of contact for any person or entity interested in knowing its structure, activity and results obtained. A dynamic and updated website offers a sense of activity and continuous improvement.

The Instituto i+12's website is considered a priority communication channel, and is therefore an instrument through which all the information about the institution, as well as its activity and results, can be disseminated in a comprehensive manner.

The number of visits to the Instituto i+12's website during 2019 was 112,723.



FINANCIAL REPORT





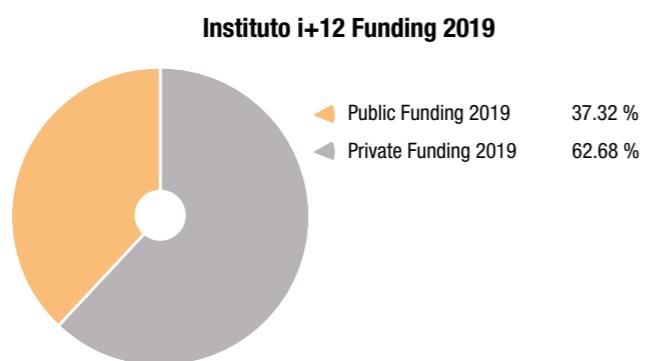
Income and Expenses 2019

During 2019, Instituto de Investigación Hospital 12 de Octubre obtained funding to the value of €22,673,143.53 (income collected in 2019).

The following table shows the financial resources corresponding to the year 2019 classified by source of funding.

	Income 2019	% Income
Public Funding	8,462,714.13 €	37.32%
Private Funding	14,210,429.40 €	62.68%
TOTAL	22,673,143.53 €	

The following figure shows the distribution of financial resources by type of funding.



The total funds obtained in 2019 are indicated below according to their **Competitive and Non-Competitive origin**.

	Income 2019	% Income
Competitive Financing	9,305,728.80 €	41.04%
Non-Competitive Financing	13,367,414.73 €	58.96%
TOTAL	22,673,143.53 €	

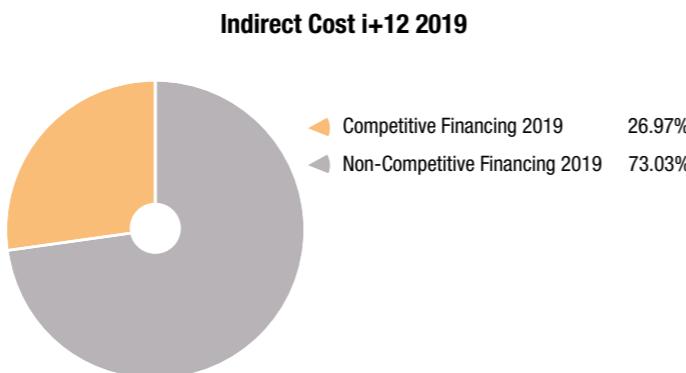
The distribution of the economic resources obtained in 2019 according to their **Competitive and Non-Competitive origin and source of financing** is shown below.

COMPETITIVE FINANCING	
PUBLIC FUNDING 2019	
INSTITUTO DE SALUD CARLOS III (ISCIII)	4,706,940.22 €
MICINN	168,518.07 €
PROYECTOS EUROPEOS	2,916,422.45 €
UNIVERSIDAD MIAMI	52,313.41 €
CAM	495,519.98 €
OTRAS INSTITUCIONES	123,000.00 €
TOTAL	8,462,714.13 €
PRIVATE FUNDING 2019	
AECC	340,084.00 €
FUNDACIÓN MAPFRE	3,000.00 €
FUNDACIÓN MUTUA MADRILEÑA	186,579.42 €
OTRAS INSTITUCIONES	313,351.25 €
TOTAL	843,014.67 €
TOTAL	9,305,728.80 €
NON-COMPETITIVE FINANCING	
CLINICAL TRIALS AND OBSERVATIONAL STUDIES	9,587,827.05 €
COTRACTS/AGREEMENTS/DONATIONS	3,166,871.45 €
TRAINING	490,540.79 €
OTHERS	122,175.44 €
TOTAL	13,367,414.73 €



Indirect cost income from funds collected in 2019 is shown below according to their origin.

INDIRECT COST	
Competitive Financing	821,993.64 €
Non-Competitive Financing	2,226,096.03 €
TOTAL	3,048,089.67 €



The use of indirect costs obtained in 2019 is indicated below.

As usual, the Fundación para la Investigación Biomédica del Hospital 12 de Octubre included in its Action Plan for 2019 the necessary funding derived from indirect costs to finance the following actions:

- Research staff costs: co-financing of ISCIII HR programmes and co-financing of HR stabilisation programmes.
- Actions to support research:
 - A call for grants for the intensification of research and innovation activity, aimed at different professional profiles (medical staff, nursing staff, non-medical technical specialist healthcare staff).
 - Call for grants for the incorporation of a Chief Resident/Researcher.
 - A call for grants for postdoctoral contracts, post-specialist health training contracts, clinician-researcher contracts, contracts associated with different groups or units.
 - Call for contracts to staff research groups with active research projects that do not have HR funding.
 - Call for grants to finance research projects.
- Expenses related to the areas of Research Management (Economic-Administrative Management and Scientific Management).

The table shows the information related to the Foundation's expenses and income in 2019, included in its **Income Statement**.

INCOME	
User Contributions	11,641,286.18 €
Income from promotions, sponsors and collaborations	956,050.25 €
Subsidies charged to the surplus of the financial year	8,079,715.02 €
Donations and legacies charged to the surplus of the financial year	1,183,642.50 €
Depreciation and results	38,507.96 €
Financial Income	4,894.76 €
TOTAL	21,904,096.67 €

EXPENSES	
Expenditure on grants and other	4,690,598.94 €
Procurement	3,835,31.,27 €
Staff costs	8,923,642.02 €
Other expenses of the activity	4,063,61.,88 €
Depreciation of fixed assets	350,505.00 €
Financial expenses	37,381.99 €
TOTAL	21,901,060.10 €



Balance Sheet

The following table shows the summary information about the assets and liabilities of the Foundation, which are included in its Balance Sheet.

ASSETS	
NON-CURRENT ASSETS	
Intangible assets	65,174.41 €
Tangible fixed assets	1,833,197.29 €
Long-term financial investments	3,000,150.00 €
CURRENT ASSETS	
Users and other debtors of own activity	2,140,845.39 €
Trade and other receivables	6,215,949.84 €
Short-term financial investments	23,372,670.62 €
Short-term accruals	763,642.49 €
Cash and cash equivalents	1,796,463.61 €
TOTAL ASSETS	39,188,093.65 €

LIABILITIES	
OWN FUNDS	
Own funds	3,897,237.35 €
Grants, donations and legacies received	2,778,369.51 €
NON-CURRENT LIABILITIES	
Long-term debt	905,200.89 €
CURRENT LIABILITIES	
Short-term provisions	15,809,259.24 €
Short term debts	14,698,101.21 €
Trade and other payables	1,099,925.45 €
TOTAL LIABILITIES	39,188,093.65 €

RESEARCH AREAS AND GROUPS

Area 1. Cancer

Area 2. Chronic Diseases and Transplantation

Area 3. Rare and Genetically Based Diseases

Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems

Area 5. Cardiovascular

Area 6. Inflammatory Diseases and Immune Disorders

Area 7. Infectious Diseases and AIDS

Area 8. Neurosciences and Mental Health

Area 9. Transversal

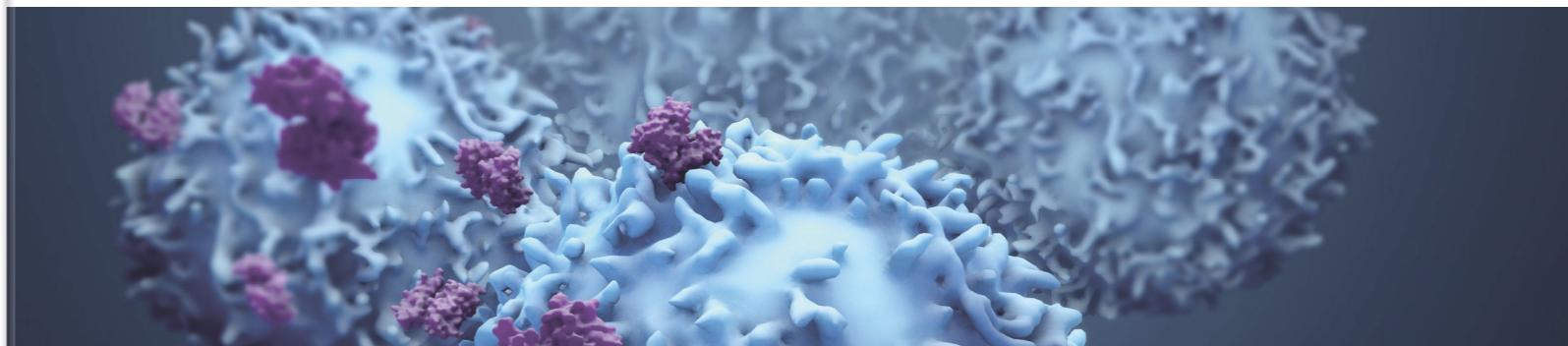




AREA 1. CANCER

COORDINATOR: JOSÉ LUIS RODRÍGUEZ PERALTO

Translational Biophysics
Translational Energic Metabolism
Translational Haematology
Neuro-Oncology
Cutaneous Oncology
Thoracic and Clinical-Translational Oncology
Genitourinary and Cellular and Molecular Oncology
Breast and Gynecologic Cancer
Digestive Cancer
Immunooncology and Immunotherapy
Lymphoid Differentiation





The Cancer Area of the Instituto de Investigación Hospital 12 de Octubre (Instituto i+12) is made up of 11 research groups that make up the basic, translational and clinical profile. The researchers come from university and clinical institutions, thus making it possible to work on benchmark research lines both in the field of healthcare, as demonstrated by the high volume and complexity of the clinical trials carried out, and by their extensive experience in first-rate basic and translational research projects.

The mission of the Cancer Area is to innovate and generate greater knowledge in the prevention, diagnosis and treatment of cancer.

Cooperative development objectives in this area

- **Identification of new predictive biomarkers.** The overall objective is to discover potential new predictive biomarkers for cancer therapies, including immunotherapy and targeted therapies.
- **Validation of new predictive biomarkers in large cohorts of patients with different tumours.** The potential biomarkers discovered will be evaluated in selected patient cohorts (prospective and retrospective), including clinical trials, treated with targeted agents and immune checkpoint inhibitors.
- **Implementation of new technologies for the analysis of biomarkers in the clinical context.** Standardise the use of new techniques for the analysis of biomarkers in clinical laboratories and assess whether these techniques could eventually replace or complement current methodologies.
- **Develop a national platform to integrate data on the determination of biomarkers and the clinical evolution of patients.** To create a national network of centres involved in biomarker assessment in order to standardise methodologies, share information and evaluate analytical and clinical results related to new therapies and therapies already in use in routine cancer care practice.
- **To develop a database based on the integration of clinical, pathological and molecular data of patients and tumours.**
- **Develop standardised procedures and an external quality assurance (EQA) programme for biomarker testing.**
- **Analyse clinical and economic results** (access to personalised treatments and new clinical trials, effectiveness of biomarker determination and personalised therapies).



List of the five most relevant publications of the Cancer Area during 2019

The following are the 5 most relevant publications in the Cancer Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. **Paz-Ares L**, Dvorkin M, Chen Y, Reinmuth N, Hotta K, Trukhin D, Statsenko G, Hochmair MJ, Özgüroglu M, Ji JH, Voitko O, Poltoratskiy A, **Ponce S**, Verderame F, Havel L, Bondarenko I, Kazarnowicz A, Losonczy G, Conev NV, Armstrong J, Byrne N, Shire N, Jiang H, Goldman JW, CASPIAN investigators. Durvalumab plus platinum-etoposide versus platinum-etoposide in first-line treatment of extensive-stage small-cell lung cancer (CASPIAN): a randomised, controlled, open-label, phase 3 trial. *Lancet*. 2019; 394(10212): 1929-39. IF: 60.392 - D1 - Article.
2. Powles T, Kockx M, Rodriguez-Vida A, Duran I, Crabb SJ, Van der Heijden MS, Szabados B, Pous AF, Gravis G, Herranz UA, Protheroe A, Ravaud A, Maillet D, Mendez MJ, Suarez C, Linch M, Prendergast A, van Dam PJ, Stanoeva D, Daelemans S, Mariathasan S, Tea JS, Mousa K, Banchereau R, **Castellano D**. Clinical efficacy and biomarker analysis of neoadjuvant atezolizumab in operable urothelial carcinoma in the ABACUS trial. *Nature Medicine*. 2019; 25(11): 1706-14. IF: 36.130 - D1 - Article.
3. **Segovia C**, San Jose-Eneriz E, **Munera-Maravilla E**, **Martinez-Fernandez M**, Garate L, Miranda E, Vilas-Zornoza A, **Lodewijk I**, **Rubio C**, **Segrelles C**, Valcarcel LV, Rabal O, Casares N, **Bernardini A**, **Suarez-Cabrera C**, **Lopez-Calderon FF**, Fortes P, Casado JA, Dueñas M, **Villacampa F**, Lasarte JJ, **Guerrero-Ramos F**, **de Velasco G**, Oyarzabal J, **Castellano D**, Agirre X, Prosper F, **Paramio JM**. Inhibition of a G9a/DNMT network triggers immune-mediated bladder cancer regression. *Nature Medicine*. 2019; 25(7): 1073-81. IF: 36.130 - D1 - Article.
4. **Zugazagoitia J**, Ramos I, Trigo JM, Palka M, Gomez-Rueda A, Jantus-Lewintre E, Camps C, Isla D, Iranzo P, **Ponce-Aix S**, Garcia-Campelo R, Provencio M, Franco F, Bernabe R, Juan-Vidal O, Felip E, de Castro J, Sanchez-Torres JM, Faul I, Lanman RB, Garrido P, **Paz-Ares L**. Clinical utility of plasma-based digital next-generation sequencing in patients with advanced-stage lung adenocarcinomas with insufficient tumor samples for tissue genotyping. *Annals of Oncology*. 2019; 30(2): 290-6. IF: 18.274 - D1 - Article.
5. **Rubio C**, Martinez-Fernandez M, **Segovia C**, Lodewijk I, **Suarez-Cabrera C**, **Segrelles C**, Lopez-Calderon F, **Munera-Maravilla E**, **Santos M**, **Bernardini A**, **Garcia-Escudero R**, **Lorz C**, **Gomez-Rodriguez MJ**, **de Velasco G**, **Otero I**, **Villacampa F**, **Guerrero-Ramos F**, Ruiz S, **de la Rosa F**, Dominguez-Rodriguez S, Real FX, Malats N, **Castellano D**, **Duenas M**, **Paramio JM**. CDK4/6 Inhibitor as a Novel Therapeutic Approach for Advanced Bladder Cancer Independently of RB1 Status. *Clinical Cancer Research*. 2019; 25(1): 390-402. IF: 10.107 - D1 - Article.

TRANSLATIONAL BIOPHYSICS

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Monroy Muñoz, Francisco (R4)

Beltrán de Heredia Rodríguez, Elena - Predoctoral Researcher (R1)
 Benavente Barzana, Mercedes - Manager
 Carreras Romeo, M^a Pilar - Postdoctoral Researcher (R2)
 Herráez Aguilar, Diego - Postdoctoral Researcher (R2)
 Kharbedia, Mikheil - Predoctoral Researcher (R1)

López Menéndez, Horacio - Postdoctoral Researcher (R2)
 Luque Rioja, Clara - Predoctoral Researcher (R1)
 Maitín López, Ana M^a - Predoctoral Researcher (R1)
 Ortiz Romero, María - Predoctoral Researcher (R1)
 Santiago García, José Antonio - Doctoral Researcher (R3)

Active Projects of the Research Group Not
 Managed by Fundación para la
 Investigación Biomédica del Hospital 12
 de Octubre (FIBH120)

▪ **Title:** NUCLEUX MADRID-CM - El Núcleo Celular: Un Encuentro entre la Física y la Biología en la Última Frontera de la Vida.

Principal Investigator: Francisco Monroy Muñoz

Project No.: Y2018BIO-5207

Funding Body: Comunidad de Madrid

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** NANOBIOCARGO - El Núcleo Celular: Un Encuentro entre la Física y la Biología en la Última Frontera de la Vida.

Principal Investigator: Francisco Monroy Muñoz

Project No.: P2018NMT-4389

Funding Body: Comunidad de Madrid

Start date: 01/01/2019

End date: 31/12/2022

▪ **Title:** Microfluidic-assisted fabrication of artificial microniches for bone marrow stem cells.

Project No.: EC H2020-MSCA-IF-2015-705163

Funding Body: European Comission

Start date: 01/07/2016

End date: 17/07/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	3	8.105
TOTAL	3	8.105

- Perrotton J, Ahijado-Guzman R, Moleiro LH, Tinao B, Guerrero-Martinez A, Amstad E, Monroy F, Arriaga LR. Microfluidic fabrication of vesicles with hybrid lipid/nanoparticle bilayer membranes. *Soft Matter*. 2019; 15(6): 1388-95. IF: 3.399 Article.
- Santiago JA, Chacon-Acosta G, Monroy F. Membrane stress and torque induced by Frank's nematic textures: A geometric perspective using surface-based constraints. *Physical Review E*. 2019; 100(1-1): 12704. IF: 2.353 Article.
- Beltran-Heredni E, Monroy F, Cao-Garcia FJ. Mechanical conditions for stable symmetric cell constriction *Physical Review E*. 2019; 100(5): 52408. IF: 2.353 Article.
- Beltran-Heredni E, Tsai FC, Salinas-Almaguer S, Cao FJ, Bassereau P, Monroy F. Membrane curvature induces cardiolipin sorting. *Communications Biology*. 2019; 2: 225. IF: N/A Article.
- Kharbedia M, Monroy F. Universality classes of surface wave turbulence as probed by laser Doppler velocimetry in viscous fluids. *arXiv preprint arXiv*. 2019; 1906.05279. IF: N/A Article.

Patents

▪ **Title:** Procedimiento para la elaboración de nanopartículas lipídicas, y nanopartículas lipídicas con los macrófagos cerebrales como células diana.

Number: P201800272

Type: Spanish patent

Inventors: Borja García Bueno, Aline Sayd Gaban, Francisco Monroy Muñoz, Lara Hernández Moleiro, Juan Carlos Leza Cerro

Owners: Fundación i+12 (20%), UCM (80%)

Date of application: 12/12/2018

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

TRANSLATIONAL ENERGIC METABOLISM

CENTER: Universidad Autónoma de Madrid (UAM)

GROUP LEADER: Cuevza Marcos, José Manuel (R4)

Esparza Molto, Pau Bernat - Predoctoral Researcher (R1)
 Dominguez Zorita, Sonia - Predoctoral Researcher (R1)
 Formentini, Laura - Postdoctoral Researcher (R2)
 Nuevo Tapioles, Cristina - Predoctoral Researcher (R1)
 Núñez de Arenas Flores, Cristina - Support Technician

Romero Carramiña, Inés - Predoctoral Researcher (R1)
 Sánchez González, Cristina - Predoctoral Researcher (R1)
 Sánchez Garrido, Brenda - Support Technician
 Santacatterina, Fulvio - Postdoctoral Researcher (R2)
 Torresano Cicuendez, Laura - Predoctoral Researcher (R1)

Active Projects of the Research Group Not
 Managed by Fundación para la
 Investigación Biomédica del Hospital 12
 de Octubre (FIBH120)

- Title:** Genotipado y fenotipado proteómico, metabolómico y funcional en el síndrome de Kearns-Sayre para la identificación de nuevos biomarcadores y opciones terapéuticas.

Principal Investigator: Fulvio Santacatterina

Project No.: ER20P2AC713

Funding Body: Proyecto ACCI (CIBERER)

Start date: 01/02/2020

End date: 31/12/2021

Project managed by UAM

- Title:** Papel de la bioenergética mitocondrial sobre el "secretoma" del músculo esquelético durante el ejercicio y en patología.

Principal Investigator: Laura Formentini

Project No.: SAF2016-76028-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2017

End date: 31/12/2019

Project managed by UAM

- Title:** La mitocondria y su disfunción en patología: papel de IF1.

Principal Investigator: José Manuel Cuevza Marcos

Project No.: SAF2016-75916-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2017

End date: 31/12/2019
 Project managed by UAM

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	5	30.723
TOTAL	5	30.723

- Esparza-Molto PB, Nuevo-Tapioles C, Chamorro M, Najera L, Torresano L, Santacatterina F, Cuevza JM. Tissue-specific expression and post-transcriptional regulation of the ATPase inhibitory factor 1 (IF1) in human and mouse tissues. *FASEB 2019; Journal.* 33(2): 1836-51. IF: 5.391 - Article.
- Ogando J, Sáez ME, Santos J, Nuevo-Tapioles C, Gut M, Esteve-Codina A, Heath S, González-Pérez A, Cuevza JM, Lacalle RA, Mañes S. PD-1 signaling affects cristae morphology and leads to mitochondrial dysfunction in human CD8 + T lymphocytes. *Journal for Immunotherapy of Cancer.* 2019; 7(1): 151. IF: 8.676 - Article.
- Najera L, Alonso-Juarranz M, Garrido M, Ballestin C, Moya L, Martínez-Díaz M, Carrillo R, Juarranz A, Rojo F, Cuevza JM, Rodríguez-Peralto JL. Prognostic implications of markers of the metabolic phenotype in human cutaneous melanoma. *British Journal of Dermatology.* 2019; 181(1): 114-27. IF: 6.714 - Article.
- García-Aguilar A, Martínez-Reyes I, Cuevza JM. Changes in the Turnover of the Cellular Proteome during Metabolic Reprogramming: A Role for mtROS in Proteostasis. *Journal of Proteome Research.* 2019; 18(8): 3142-55. IF: 3.780 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- González-Llorente L, Santacatterina F, García-Aguilar A, Nuevo-Tapioles C, González-García S, Tirpakova Z, Toribio ML, Cuevza JM. Overexpression of Mitochondrial IF1 Prevents Metastatic Disease of Colorectal Cancer by Enhancing Anoikis and Tumor Infiltration of NK Cells. *Cancers.* 2019; 12(1): 22. IF: 6.162 - Article.

End Master Investigations Directed on the Group

- Student:** Sonia Domínguez Zorita
Title: Ablation of IF1 in Colon Triggers Mitochondrial and Immune Stress Responses that Compromise Mice Viability
Director: José Manuel Cuevza Marcos, Fulvio Santacatterina
Master: Máster en Biomedicina Molecular (UAM)

Theses Defended or Directed on the Group

- Candidate:** Cristina Nuevo Tapioles
Title: Regulación de la OXPHOS mediada por IF1 y su papel como diana terapéutica en cáncer
Director/s: José Manuel Cuevza Marcos
Date Defended: 26/04/2019
University: Universidad Autónoma de Madrid
International Mention: No

TRANSLATIONAL HAEMATOLOGY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADERS: Martínez López, Joaquín (R4), Lahuerta Palacios, Juan José (R4)

Aguilar Garrido, Pedro - Predoctoral Researcher (R1)

Ayala Díaz, Rosa Mª - Doctoral Researcher (R4)

Bárrio García, Santiago - Doctoral Researcher (R2)

Calbacho Robles, María - Doctoral Researcher (R4)

Carreño Gómez-Tarragona, Gonzalo - Bachelor Researcher

Castellano Esparza, Eva - Predoctoral Researcher (R1)

Cedena Romero, Mª Teresa - Doctoral Researcher (R4)

Colao Reynolds, Patricia - Bachelor Researcher

Cuenca Navarro, Isabel - Predoctoral Researcher (R1)

de la Serna Torroba, Javier - Doctoral Researcher (R4)

del Moral Saez, Patricia - Bachelor Researcher

Encinas Mayoral, Jessica - Predoctoral Researcher (R1)

Fernández Casanova, Lucía - Collaborator (CNIO)

Fernández Martínez, Adrián - Collaborator (CNIO)

Fernández Guijarro, Manuela - Clinical Researcher

Gallardo Delgado, Miguel - Doctoral Researcher (R4)

García Baquero, Irene - Support Technician

García Mozo, Elena - Manager

García Ortiz, Almudena - Support Technician

Garrido García, Vanesa - Support Technician

Gil Sánchez, Mª Esther - Administrative

Giménez Sánchez, Alicia - Support Nurse

González Medina, José - Bachelor Researcher

Goñi Burgos, Raquel - Coordinator EE.CC.

Grande García, Carlos - Doctoral Researcher (R4)

Guerra Torres, Mª José - Support Nurse

Gutiérrez de la Peña, Alba - Coordinator EE.CC.

Guzmán García, Alma - Coordinator EE.CC.

Jiménez Ubieto, Ana Isabel - Doctoral Researcher (R4)

Juárez Rufián, Alexandra - Support Technician

Juez Gastañaga, Carolina - Coordinator EE.CC.

Leivas Aldea, Alejandra - Doctoral Researcher (R2)

Linares Gómez, María - Doctoral Researcher (R3)

Maroto Martín, Elena - Predoctoral Researcher (R1)

Martín Ramos, Mª Luisa - Clinical Researcher

Martínez Sánchez, Mª Pilar - Doctoral Researcher (R4)

Merino González, Isabel - Manager

Morales Fernández, Mª Luz - Predoctoral Researcher (R1)

Moreno Sanz, Laura - Support Technician

Morillo Vélez, Carlos - Support Nurse

Navarro Aguadero, Miguel Ángel - Support Technician

Onecha de la Fuente, Mª Esther - Predoctoral Researcher (R1)

Ortiz Ruiz, Alejandra - Collaborator (CNIO)

Paciello Coronel, Mª Liz - Doctoral Researcher (R4)

Portasany Trovo, Mª del Pilar - Coordinator EE.CC.

Rapado Martínez, Mª Inmaculada - Doctoral Researcher (R3)

Redondo Velao, Sara - Clinical Researcher

Rivero Ruiz, Ana - Coordinator EE.CC.

Rodríguez García, Alba - Predoctoral Researcher (R1)

Rodríguez Izquierdo, Antonia - Doctoral Researcher (R4)

Román Rodríguez, Francisco José - Doctoral Researcher (R2)

Rosa Rosa, Juan Manuel - Doctoral Researcher (R2)

Rufián Vázquez, Laura - Support Technician

Ruiz Ramírez, Raquel - Support Nurse

Sánchez Pérez, Ricardo - Doctoral Researcher (R3)

Sánchez Pina, José Mª - Clinical Researcher

Sánchez Vega, Laura - Support Technician

Santos Molina, Elena - Coordinator EE.CC.

Serrano Sanz, Sandra - Support Technician

Torrero Alia, María - Support Nurse

Valeri Lozano, Antonio - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	NO. of Projects
Competitive	ISCIII	6
Competitive	Fundación Investigación Médica Aplicada	1
Non Competitive	Various	8
TOTAL		15

- Title:** Desarrollo de kits de cuantificación de enfermedad mínima residual en MM y LMA por secuenciación masiva y validación clínica en el Hospital 12 de Octubre.

Principal Investigator: Joaquín Martínez López

Project No.: DTS18/00187

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2020

- Title:** Uso como diana terapéutica del nuevo oncogen regulador de C-MYC en leucemia y linfoma, HNRNP K.

Principal Investigator: Miguel Gallardo Delgado

Project No.: PI18/00295

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Expansión y optimización de la inmunoterapia adoptiva con receptores químéricos de antígeno en neoplasias hematológicas.

Principal Investigator: Joaquín Martínez López

Project No.: PI18/01519

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Caracterización y seguimiento del sistema inmune en pacientes mayores con mm tratados dentro del ensayo GEM2017FIT: tratando de personalizar el tratamiento para maximizar la respuesta.

Principal Investigator: Juan José Lahuerta Palacios

Project No.: PI18/01709

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Alteraciones moleculares involucradas en los mecanismos de refractividad y recaída de la leucemia mieloide aguda: implicaciones terapéuticas.

Principal Investigator: Rosa Mª Ayala Díaz

Project No.: PI16/01530

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 31/12/2020

- Title:** Caracterización de las alteraciones genéticas de riesgo alto en los síndromes mielodisplásicos: la transformación leucémica.

Principal Investigator: Mª Inmaculada Rapado Martínez

Project No.: PI16/01225

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 31/12/2020

- Title:** Early detection and intervention: understanding the mechanisms of transformation and hidden resistance of incurable haematological malignancies.

Principal Investigator: Joaquín Martínez López

Funding Body: Fundación para la Investigación Médica Aplicada

Start date: 01/12/2018

End date: 30/11/2023

- Title:** Expansion y optimización de la inmunoterapia adoptiva con receptores químéricos de antígeno en neoplasias hematológicas y tumores sólidos (OPTIMI-CAR).

Principal Investigator: Joaquín Martínez López

Funding Body: Fundación PETHEMA para el tratamiento de la leucemia y el linfoma

Start date: 01/11/2019

End date: 31/10/2023

- Title:** Estudio de biomarcadores en el tratamiento de la leucemia mieloide aguda dentro del ensayo clínico PEVOLAM. Detección de pacientes farmacológicamente resistentes e identificación de nuevas opciones terapéuticas.

Principal Investigator: Rosa Mª Ayala Díaz

Funding Body: Higea Biotech, A.I.E.

Start date: 01/06/2019

End date: 31/12/2020

- Title:** Secuenciación masiva profunda para el análisis de mutaciones en el dominio quinasa de la proteína químerica BCR/ABL1 en pacientes con LLA Y LMC.

Principal Investigator: Joaquín Martínez López

Funding Body: Fundación Española de Hematología y Hemoterapia

Start date: 08/06/2017

End date: 07/06/2018, extended to 31/12/2019

- Title:** Programa para el desarrollo de nuevas terapias avanzadas y búsqueda de biomarcadores en tumores hematológicos.

Principal Investigator: Joaquín Martínez López

Funding Body: Fundación Investigación CRIS Contra el Cáncer



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

▪ **Title:** Desarrollo de una plataforma de diagnóstico integral y rápido para medicina personalizada en la leucemia mieloblástica aguda.

Principal Investigator: Joaquín Martínez López

Funding Body: Fundación PETHEMA para el tratamiento de la leucemia y el linfoma

Start date: 14/09/2017

End date: 13/09/2020

▪ **Title:** Phase IB clinical trial of OPB-111077 in patients with relapsed or refractory acute myeloid leukaemia.

Principal Investigator: Joaquín Martínez López

Funding Body: Otsuka Pharmaceutical, S.A.

Start date: 09/09/2016

End date: 31/12/2019

▪ **Title:** Determinación de enfermedad mínima residual en mieloma múltiple por CMF de alta sensibilidad.

Principal Investigator: Joaquín Martínez López

Funding Body: Janssen-Cilag, S.A.

Start date: 26/03/2015

End date: 25/03/2018, extended to 31/12/2020

▪ **Title:** Estudio mutaciones con interés pronóstico en el linfoma folicular, biopsia líquida mediante el repertorio del $\alpha\beta$ inmunglobinas en combinación con la PET/TC.

Principal Investigator: Ana Isabel Jiménez Ubieto

Funding Body: Roche Farma, S.A.

Start date: 16/05/2018

End date: 15/05/2019

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

▪ **Title:** Immune Check-points characterization of MRD and other clonogenic populations in MM.

Principal Investigator: Joaquín Martínez López; Miguel Gallardo Delgado

Funding Body: BMS

Entidades participantes: Centro Nacional de Investigaciones Oncológicas; Hospital Universitario 12 de Octubre

Start date: 12/04/2018

End date: 11/04/2023

▪ **Title:** CRIS H120-CNIO.

Principal Investigator: Joaquín Martínez, López; Miguel Gallardo Delgado

Funding Body: Fundación Investigación CRIS Contra el Cáncer

Start date: 01/06/2018

End date: 31/05/2021

▪ **Title:** Medicina de precisión en leucemia mieloide aguda: detección de pacientes farmacológicamente resistentes y desarrollo de nuevas opciones terapéuticas.

Principal Investigator: Rosa Mª Ayala Díaz

Entidades participantes: Centro Nacional de Investigaciones Oncológicas; Hospital Universitario 12 de Octubre

Funding Body: Sociedad Española de Hematología y Hemoterapia.

Start date: 2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	38	356.393
Reviews	2	6.688
TOTAL	40	363.081
Letters	3	20.364
TOTAL	43	383.445

▪ Li N, Lopez MA, Linares M, Kumar S, Oliva S, Martinez-Lopez J, Xu L, Xu Y, Perini T, Senapedis W, Baloglu E, Shammas MA, Hunter Z, Anderson KC, Treon SP, Munshi NC, Fulciniti M. Dual PAK4-NAMPT Inhibition Impacts Growth and Survival, and Increases Sensitivity to DNA-Damaging Agents in Waldenstrom Macroglobulinemia. *Clinical Cancer Research*. 2019; 25(1): 369-77. IF: 8.911 - Article.

▪ Martinez-Cuadron D, Gil C, Serrano J, Rodriguez G, Perez-Oteyza J, Garcia-Boyero R, Jimenez-Bravo S, Vives S, Vidriales MB, Lavilla E, Perez-Simon JA, Tormo M, Colorado M, Bergua J, Lopez JA, Herrera P, Hernandez-Campo P, Gorrochategui J, Primo D, Rojas JL, Villoria J, Moscardo F, Troconiz I, Linares Gomez M, Martinez-Lopez J, Ballesteros J, Sanz M, Montesinos P; Spanish PETHEMA group. A precision medicine test predicts clinical response after idarubicin and cytarabine induction therapy in AML patients. *Leukemia Research*. 2019; 76: 1-10. IF: 2.066 - Article.

▪ Barba P, Morgades M, Montesinos P, Gil C, Fox ML, Ciudad J, Moreno MJ, Gonzalez-Campos J, Genesca E, Martinez-Carballeira D, Martino R, Vives S, Guardia R, Mercadal S, Artola MT, Cladera A, Tormo M, Esteve J, Bergua J, Vall-Llovera F, Ribera J, Martinez-Sanchez P, Amigo ML, Bermudez A, Calbacho M, Hernandez-Rivas JM, Feliu E, Orfao A, Ribera JM; PETHEMA

Group. Increased survival due to lower toxicity for high-risk T-cell acute lymphoblastic leukemia patients in two consecutive pediatric-inspired PETHEMA trials. *European Journal of Haematology*. 2019; 102(1): 79 - 86. IF: 2.217 - Article.

▪ Megias-Vericat JE, Martinez-Cuadron D, Lopez JM, Bergua JM, Tormo M, Serrano J, Gonzalez A, de Oteyza JP, Vives S, Vidriales B, Herrera P, Vera JA, Martinez AL, de la Fuente A, Amador ML, Hernandez-Rivas JA, Fernandez MA, Cervero CJ, Morillo D, Campo PH, Gorrochategui J, Primo D, Rojas JL, Guenova M, Ballesteros J, Sanz M, Montesinos P. Differences in ex-vivo Chemosensitivity to Anthracyclines in First Line Acute Myeloid Leukemia. *Mediterranean Journal of Hematology and Infectious Diseases*. 2019; 11(1): e2019016. IF: 1.586 - Article.

▪ Linares M, Postigo M, Cuadrado D, Ortiz-Ruiz A, Gil-Casanova S, Vladimirov A, Garcia-Villena J, Nunez-Escobedo JM, Martinez-Lopez J, Rubio JM, Ledesma-Carbayo MJ, Santos A, Bassat Q, Luengo-Oroz M. Collaborative intelligence and gamification for on-line malaria species differentiation. *Malaria Journal*. 2019; 18(1): 21. IF: 2.798 - Article.

▪ Barrio S, Stuhmer T, Da-Via M, Barrio-Garcia C, Lehners N, Besse A, Cuenca I, Garitano-Trojaola A, Fink S, Leich E, Chatterjee M, Driessen C, Martinez-Lopez J, Rosenwald A, Beckmann R, Bargou RC, Braggio E, Stewart AK, Raab MS, Einsele H, Kortum KM. Spectrum and functional validation of PSMB5 mutations in multiple myeloma. *Leukemia*. 2019; 33(2): 447-56. IF: 9.944 - Article.

▪ Onecha E, Linares M, Rapado I, Ruiz-Heredia Y, Martinez-Sanchez P, Cedena T, Pratcorona M, Perez Oteyza J, Herrera P, Barragan E, Montesinos P, Garcia Vela JA, Magro E, Anguita E, Figuera A, Riazia R, Martinez-Barranco P, Sanchez-Vega B, Nomdedeu J, Gallardo M, Martinez-Lopez J, Ayala R. A novel deep targeted sequencing method for minimal residual disease monitoring in acute myeloid leukemia. *Haematologica*. 2019; 104(2): 288-96. IF: 7.570 - Article.

▪ Alonso CM, Llop M, Sargas C, Pedrola L, Panadero J, Hervas D, Cervera J, Such E, Ibanez M, Ayala R, Martinez-Lopez J, Onecha E, de Juan I, Palanca S, Martinez-Cuadron D, Rodriguez-Veiga R, Boluda B, Montesinos P, Sanz G, Sanz MA, Barragan E. Clinical Utility of a Next-Generation Sequencing Panel for Acute Myeloid Leukemia Diagnostics. *Journal of Molecular Diagnostics*. 2019; 21(2): 228-40. IF: 4.426 - Article.

▪ Rodriguez-Otero P, Mateos MV, Martinez-Lopez J, Hernandez MT, Ocio EM, Rosinol L, Martinez R, Teruel AI, Gutierrez NC, Bargay J, Bengoechea E, Gonzalez Y, de Oteyza JP, Gironella M, Nunez-Cordoba JM, Encinas C, Martin J, Cabrera C, Palomera L, de Arriba F, Cedena MT, Puig N, Oriol A, Paiva B, Blade J, Lahuerta JJ, San Miguel JF. Predicting long-term disease control in transplant-ineligible patients with multiple myeloma: impact of an MGUS-like signature. *Blood Cancer Journal*. 2019; 9(4): 36. IF: 7.895 - Article.

▪ Sainz de Aja J, Menchero S, Rollan I, Barral A, Tiana M, Jawaid W, Cossio I, Alvarez A, Carreno-Tarragona G, Badia-Careaga C, Nichols J, Gottgens B, Isern J, Manzanares M. The pluripotency factor NANOG controls primitive hematopoiesis and directly regulates Tal1. *EMBO Journal*. 2019; 38(7): e99122. IF: 11.227 - Article.

▪ Sobas M, Montesinos P, Boluda B, Bernal T, Vellenga E, Nomdedeu J, Gonzalez-Campos J, Chillon M, Holowiecka A, Esteve J, Bergua J, Gonzalez-Sanmiguel JD, Gil-Cortes C, Tormo M, Salamero O, Manso F, Fernandez I, de la Serna J, Moreno MJ, Perez-Encinas M, Krsnik I, Ribera JM, Escoda L, Lowenberg B, Sanz MA; PETHEMA, HOVON, PALG, and GATLA cooperative groups. An analysis of the impact of CD56 expression in de novo acute promyelocytic leukemia patients treated with upfront all-trans retinoic acid and anthracycline-based regimens. *Leukemia & Lymphoma*. 2019; 60(4): 1-6. IF: 2.674 - Article.

▪ Labrador J, Luno E, Vellenga E, Brunet S, Gonzalez-Campos J, Chillon MC, Holowiecka A, Esteve J, Bergua J, Gonzalez-Sanmiguel JD, Gil C, Tormo M, Salamero O, Manso F, Fernandez I, de la Serna J, Moreno MJ, Perez-Encinas M, Krsnik I, Ribera JM, Cervera J, Calasanz MJ, Boluda B, Sobas M, Lowenberg B, Sanz MA, Montesinos P. Clinical significance of complex karyotype at diagnosis in pediatric and adult patients with de novo acute promyelocytic leukemia treated with ATRA and chemotherapy. *Leukemia & Lymphoma*. 2019; 60(5): 1-10. IF: 2.674 - Article.

▪ Arenas Cortes A, Ayala Diaz R, Hernandez-Campo P, Gorrochategui J, Primo D, Robles A, Morales ML, Ballesteros J, Rapado I, Gallardo M, Linares M, Martinez-Lopez J. Ruxolitinib in combination with prednisone and nilotinib exhibit synergistic effects in human cell lines and primary cells from myeloproliferative neoplasms. *Haematologica*. 2019; 104(5): 937-46. IF: 7.570 - Article.

▪ Puig N, Paiva B, Lasa M, Burgos L, Perez JJ, Merino J, Moreno C, Vidriales MB, Toboso DG, Cedena MT, Ocio EM, Lecumberri R, Garcia de Coca A, Labrador J, Gonzalez ME, Palomera L, Gironella M, Cabanas V, Casanova M, Oriol A, Krsnik I, Perez-Montana A, de la Rubia J, de la Puerta JE, de Arriba F, Prosper F, Martinez-Lopez J, Lerevisse Q, Verde J, Mateos MV, Lahuerta JJ, Orfao A, San Miguel JF. Flow cytometry for fast screening and automated risk assessment in systemic light-chain amyloidosis. *Leukemia*. 2019; 33(5): 1256-67. IF: 9.944 - Article.

▪ Magnano L, Alonso-Alvarez S, Alcolea M, Rivas-Delgado A, Muntanola A, Nadeu F, Setoain X, Rodriguez S, Andrade-Campos M, Espinosa-Lara N, Rodriguez G, Sancho JM, Moreno M, Mercadal S, Carro I, Salar A, Garcia-Pallarols F, Arranz R, Cannata J, Terol MJ, Teruel AI, Jimenez-Ubieta A, Rodriguez A, Gonzalez de Villambrosia S, Bell JL, Lopez L, Novelli S, de Cabo E, Infante ME, Pardal E, Monsalvo S, Gonzalez M, Martin A, Caballero MD, Lopez-Guillermo A; Grupo Espanol de Linfomas y Trasplante Autologo de Medula Osea (GELTAMO). Life expectancy of follicular lymphoma patients

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- in complete response at 30 months is similar to that of the Spanish general population. *British Journal of Haematology*. 2019; 185(3): 480-91. IF: 5.206 - Article.
- Hillengass J, Usmani S, Rajkumar SV, Durie BGM, Mateos MV, Lonial S, Joao C, Anderson KC, García-Sanz R, Riva E, Du J, van de Donk N, Berdeja JG, Terpos E, Zamagni E, Kyle RA, San Miguel J, Goldschmidt H, Giralt S, Kumar S, Raje N, Ludwig H, Ocio E, Schots R, Einsele H, Schjesvold F, Chen WM, Abildgaard N, Lipe BC, Dytfield D, Wirk BM, Drake M, Cavo M, Lahuerta JJ, Lentzsch S. International myeloma working group consensus recommendations on imaging in monoclonal plasma cell disorders. *Lancet Oncology*. 2019; 20(6): 302-12. IF: 35.386 - Article.
 - Carreño-Tarragona G, Cedena T, Montejano L, Alonso R, Miras F, Valeri A, Rivero A, Lahuerta JJ, Martinez-Lopez J. Papain-treated panels are a simple method for the identification of alloantibodies in multiple myeloma patients treated with anti-CD38-based therapies. *Transfusion Medicine*. 2019; 29(3): 193-6. IF: 1.900 - Article.
 - Ruiz-Heredia Y, Sanchez-Vega B, Barrio S, Linares M, Rapado I, Braggio E, Stewart K, Folgueira MD, Ramos A, Collado L, Ruiz J, Toldos O, Hernandez-Lain A, Martinez-Lopez J. Concurrent progressive multifocal leukoencephalopathy and central nervous system infiltration by multiple myeloma: A case report. *Journal of Oncology Pharmacy Practice*. 2019; 25(4): 998-1002. IF: 1.826 - Article.
 - Campa D, Martino A, Macauda A, Dudzinski M, Suska A, Druzd-Sitek A, Raab MS, Moreno V, Huhn S, Butrym A, Sainz J, Szombath G, Rymko M, Marques H, Lesueur F, Vangsted AJ, Vogel U, Kruszewski M, Subocz E, Buda G, Iskierka-Jazdzewska E, Rios R, Merz M, Schottker B, Mazur G, Perrial E, Martinez-Lopez J, Butterbach K, Garcia Sanz R, Goldschmidt H, Brenner H, Jamroziak K, Reis RM, Kadar K, Dumontet C, Watek M, Hastrup EK, Helbig G, Jurczyszyn A, Jerez A, Varkonyi J, Barington T, Grzasko N, Zaucha JM, Andersen V, Zawirska D, Canzian F. Genetic polymorphisms in genes of class switch recombination and multiple myeloma risk and survival: an IMMESE study. *Leukemia & Lymphoma*. 2019; 60(7): 1-9. IF: 2.674 - Article.
 - Lahuerta JJ, Jimenez-Ubieto A, Paiva B, Martinez-Lopez J, Gonzalez-Medina J, Lopez-Angrada L, Cedena MT, Puig N, Oriol A, Blanchard MJ, Rios R, Martin J, Martinez R, Sureda A, Hernandez MT, de la Rubia J, Krsnik I, Cabañas V, Palomera L, Bargay J, Mateos MV, Rosiñol L, San Miguel JF, Blade J. Role of urine immunofixation in the complete response assessment of MM patients other than light-chain-only disease. *Blood*. 2019; 133(25): 2664-8. IF: 16.562 - Article.
 - Ribera J, Granada I, Morgades M, Vives S, Genesca E, Gonzalez C, Nomdedeu J, Escoda L, Montesinos P, Mercadal S, Coll R, Gonzalez-Campos J, Abella E, Barba P, Bermudez A, Gil C, Tormo M, Pedreno M, Martinez-Carballeira D, Hernandez-Rivas JM, Orfao A, Martinez-Lopez J, Esteve J, Bravo P, Garcia-Guinon A, Deben G, Moraleda JM, Quiezan JA, Ortin X, Moreno MJ, Feliu E, Sole F, Ribera JM; PETHEMA Group, Spanish Society of Haematology. The poor prognosis of low hypodiploidy in adults with B-cell precursor acute lymphoblastic leukaemia is restricted to older adults and elderly patients. *British Journal of Haematology*. 2019; 186(2): 263-8. IF: 5.206 - Article.
 - Bastidas A, de la Serna J, El Idrissi M, Oostvogels L, Quittet P, López-Jiménez J, Vural F, Pohlreich D, Zuckerman T, Issa NC, Gaidano G, Lee JJ, Abhyankar S, Solano C, Perez de Oteyza J, Satlin MJ, Schwartz S, Campins M, Rocci A, Vallejo Llamas C, Lee DG, Tan SM, Johnston AM, Grigg A, Boeckh MJ, Campora L, Lopez-Fauqued M, Heineman TC, Stadtmauer EA, Sullivan KM; ZOE-HSCT Study Group Collaborators. Effect of Recombinant Zoster Vaccine on Incidence of Herpes Zoster After Autologous Stem Cell Transplantation: A Randomized Clinical Trial. *JAMA*. 2019; 322(2): 123-33. IF: 51.273 - Article.
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Theses Defended or Directed on the Group

- Candidate:** Yanira Ruiz Heredia
Title: Desarrollo de estrategias de medicina personalizada para el tratamiento del mieloma múltiple
Director/s: Joaquín Martínez López, Jon Ballesteros Nobell
Date Defended: 10/02/2019
University: Universidad Complutense de Madrid
International Mention: No

End Master Investigations Directed on the Group

- Student:** Roberto García Vicente
Title: Marcadores asociados a la leucemia mieloide aguda y su respuesta a fármacos
Director: María Linares Gómez
Master: Máster en Investigación de Ciencias Biomédicas (UCM)
- Student:** Laura Córdoba Espejo
Title: Linfocitos transducidos con receptores químicos antigenéticos para el tratamiento de la leucemia mieloide aguda
Director: Alejandra Leivas Aldea
Master: Máster en Medicina Traslacional (UCM)
- Student:** Cristina Crespo García
Title: Impacto de hnRNP K en la tumorigénesis (Msc Thesis)
Director: Miguel Gallardo Delgado
Master: Máster en Medicina Traslacional (UCM)

End Graduated Investigations Directed on the Group

- Student:** Ana Quirós Tello
Title: El viroma de las enfermedades hematológicas
Director: María Linares Gómez
Degree: Grado de Farmacia (UCM)
- Student:** Adrián Caro Pradillo
Title: El Papel de los Microorganismos en el Mieloma Múltiple
Director: María Linares Gómez
Degree: Grado de Farmacia (UCM)
- Student:** Miguel Blanes Miguens
Title: El papel de los microorganismos en enfermedades hematológicas

Director: María Linares Gómez
Degree: Grado de Biología (UCM)

- Student:** Laura Carrasco Rubio
Title: Implicación de c-Myc en la regulación de la tumorigénesis vía hnRNP K (Bsc Thesis)
Director: Miguel Gallardo Delgado
Degree: Grado en Biología Sanitaria (UCM)
- Student:** Miguel Gutierrez de León; Marta Moreno García
Title: Impacto de la hematopoyesis clonal en el riesgo de trombosis en pacientes con patología hematológica tumoral
Director: Rosa Mª Ayala Díaz
Degree: Grado en Medicina (UCM)

Prizes and Awards

- Premio al mejor Póster. María Linares Gómez. XI Congress of SEMTSI. Desarrollo e implementación de algoritmo de Inteligencia Artificial basado para la detección de parásitos de malaria. Lin L, Linares M, Postigo M, Mousa A, Rubio JM, Bassat Q, Luengo-Oroz M. Sanum. Vol 3 suppl., pp: 61. (2019).
- Young Investigator Abstract Award. Elena Maroto Martín. 17th International Myeloma Workshop 2019, Boston, Massachusetts. Septiembre 2019.
- Premio al mejor trabajo de medicina personalizada de precisión. Fundación Instituto Roche/ Universidad Complutense de Madrid. Mª Esther Onecha de la Fuente. Desarrollo de un sistema de diagnóstico por NGS para leucemia mieloide aguda.

Patents

- Title:** Method for determining the presence or absence of minimal residual disease (MRD) in a subject who has been treated for a disease.
Number: EP19382730.
Type: European patent.
Inventors: Joaquín Martínez López, Rosa Mª Ayala Díaz, Santiago Barrio García, Inmaculada Rapado Martínez, Esther Onecha.
Owners: Fundación i+12 (80%), Centro Nacional de Investigaciones Oncológicas (20%).
Date of application: 27/08/2019

Title: Method of Treatment of Disease and Method for Quantifying the Level of Minimal Residual Disease in a Subject.
Number: 15932272.

Type: Solicitud divisional USA.
Inventors: Joaquín Martínez López, Rosa Mª Ayala Díaz, Santiago Barrio García, Carlos Marín Sebastián, Inmaculada Rapado Martínez, Beatriz Sánchez Vega.
Owners: Fundación i+12 (100%).
Date of application: 16/02/2018

Title: Método para cuantificar el nivel de Enfermedad Mínima Residual en un sujeto.
Number: 14932267.

Type: Patente USA.
Inventors: Santiago Barrio García, Joaquín Martínez López, Carlos Marín Sebastián, María Inmaculada Rapado Martínez, Rosa María Ayala Díaz, Beatriz Sánchez Vega Carrión.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Date of application: 04/11/2015

Title: Método para cuantificar el nivel de Enfermedad Mínima Residual en un sujeto
Inventors: Joaquín Martínez López, Santiago Barrio García, Carlos Martín Sebastián, María Inmaculada Rapado Martínez, Rosa María Ayala Díaz, Beatriz Sánchez Vega Carrión.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
European Patent Application No.: P14191967.
Date of application: 05/11/2014

Title: Método diagnóstico de Trombocitemia Esencial y Kit para realizarlo.
Inventors: Joaquín Martínez López, Miguel Gallardo Delgado, Óscar Toldos González.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Fundación CRIS de Investigación contra el cáncer (50%).
Spanish Patent Application No.: P201330446.
Date of application: 26/03/2013

NEURO-ONCOLOGY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADERS: Hernández Laín, Aurelio (R3), Sepúlveda Sánchez, Juan Manuel (R3)
 Cantero Montenegro, Diana - Researcher Predoctoral (R1)
 González León, Pedro Juan - Clinical Researcher.
 Hilario Barrio, Amaya - Doctoral Researcher (R2)
 Jiménez Roldán, Luis - Doctoral Researcher (R2)
 Millán Juncos, José Mª - Doctoral Researcher (R2)
 Pérez Núñez, Ángel - Doctoral Researcher (R3)

Pérez-Regadera Gómez, José Fermín - Doctoral Researcher (R2)
 Ramos González, Ana - Doctoral Researcher (R2)
 Rodríguez González, Virginia - Clinical Researcher
 Ruano Domínguez, Yolanda - Doctoral Researcher (R2)
 Sánchez Gómez, Pilar - Collaborator
 Toldos González, Óscar - Clinical Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Competitive	Fundación Española Oncología Médica	1
Competitive	AECC	1
Non Competitive	Various	1
TOTAL		4

▪ **Title:** Inmunoterapia en glioma: importancia de las alteraciones epigenéticas, caracterización de potenciales dianas terapéuticas y biomarcadores.

Principal Investigator: Juan Manuel Sepúlveda Sánchez

Funding Body: Instituto de Salud Carlos III

Start date: 01/01/2018

End date: 31/12/2020

▪ **Title:** Inmunoterapia de glioma: importancia de las alteraciones epigenéticas, caracterización de potenciales dianas terapéuticas y biomarcadores.

Principal Investigator: Juan Manuel Sepúlveda Sánchez

Funding Body: Fundación Española de Oncología Médica

Start date: 11/05/2018

End date: 10/05/2020

▪ **Title:** Study of the molecular mechanisms involved in primary (glioblastoma) and secondary (metastasis) brain tumors to identify novel therapeutic targets and anti-cancer agents, biomarkers to select treatments and novel non-invasive methods for molecular diagnosis.

Principal Investigator: Juan Manuel Sepúlveda Sánchez

Other Active Projects of the Research Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

▪ **Title:** Therapy optimization in glioblastoma: an integrative human data-based approach using mathematical models.

Principal Investigator: Víctor Pérez García (Universidad de Castilla-La Mancha)

Funding Body: James S. Mc. Donnell Foundation

Start date: 2016

End date: 2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	22	70.424
Reviews	1	3.687
TOTAL	23	74.111
Letters	3	12.784
TOTAL	26	86.895

- Blanco-Palmero VA, Hernandez-Lain A, Uriarte-Perez de Urabayen D, Cantero-Montenegro D, Olive M, Dominguez-Gonzalez C. Late onset distal myopathy: A new telethoninopathy. *Neuromuscular Disorders*. 2019; 29(1): 80-3. IF: 2.612 - Article.
- Hilario A, Hernandez-Lain A, Sepulveda JM, Lagares A, Perez-Nunez A, Ramos A. Perfusion MRI grading diffuse gliomas: Impact of permeability parameters on molecular biomarkers and survival. *Neurocirugia*. 2019; 30(1): 11-8. IF: 0.519 - Article.
- Gonzalez-Granado LI, Ruiz-Garcia R, Blas-Espada J, Moreno-Villares JM, German-Diaz M, Lopez-Nevado M, Paz-Artal E, Toldos O, Rodriguez-Gil Y, de Inocencio J, Dominguez-Pinilla N, Allende LM. Acquired and Innate Immunity Impairment and Severe Disseminated Mycobacterium genavense Infection in a Patient with a NF-kappa B1 Deficiency. *Frontiers in Immunology*. 2019; 9: 3148. IF: 4.716 - Article.
- Hernandez-Lain A, Cantero D, Camacho-Salas A, Toldos O, Esteban I, Pascual I, Dominguez-Gonzalez C. Autosomal dominant distal myopathy with nemaline rods due to p.Glu197Asp mutation in ACTA1. *Neuromuscular Disorders*. 2019; 29(3): 247-50. IF: 2.612 - Article.
- Rodriguez-Lopez, C, Caldas NG, de Urabayen DUP, Tornero MS, Barrio AH, Diaz RS, de la Aleja JG. A new MR radiological sign in HaNDL syndrome. A case report. *Journal of Clinical Neuroscience*. 2019; 61: 274-6. IF: 1.593 - Article.
- Perez-Beteta J, Molina-Garcia D, Villena M, Rodriguez MJ, Velasquez C, Martino J, Melendez-Asensio B, Rodriguez de Lope A, Morcillo R, Sepulveda JM, Hernandez-Lain A, Ramos A, Barcia JA, Lara PC, Albillio D, Revert A, Arana E, Perez-Garcia VM. Morphologic Features on MR Imaging Classify Multifocal Glioblastomas in Different Prognostic Groups. *American Journal of Neuroradiology*. 2019; 40(4): 634-40. IF: 3.256 - Article.
- Panades-de Oliveira L, Rodriguez-Lopez C, Cantero Montenegro D, Marcos Toledo MDM, Fernandez-Marmiesse A, Esteban Perez J, Hernandez Lain A, Dominguez-Gonzalez C. Bethlem myopathy: a series of 16 patients and

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

description of seven new associated mutations. *Journal of Neurology*. 2019; 266(4): 934-41. IF: 4.204 - Article.

▪ Vera R, Otero MJ, Ayala de la Pena F, Gonzalez-Perez C, Penuelas A, Sepulveda JM, Quer N, Domenech-Climent N, Virizuela JA, Beorlegui P, Gorgas MQ. Recommendations by the Spanish Society of Hospital Pharmacy, the Spanish Society of Oncology Nursing and the Spanish Society of Medical Oncology for the safe management of antineoplastic medication in cancer patients. *Clinical & Translational Oncology*. 2019; 21(4): 467-78. IF: 2.441 - Article.

▪ Pedraza S, Ruiz-Alonso A, Hernandez-Martinez AC, Cabello E, Lora D, Perez-Regadera JF. (18)F-FDG PET/CT in staging and delineation of radiotherapy volume for head and neck cancer. *Revista Española de Medicina Nuclear e Imagen Molecular*. 2019; 38(3): 154-9. IF: 0.928 - Article.

▪ Garcia-Silva S, Benito-Martin A, Sanchez-Redondo S, Hernandez-Barranco A, Ximenez-Embun P, Nogues L, Mazariegos MS, Brinkmann K, Amor Lopez A, Meyer L, Rodriguez C, Garcia-Martin C, Boskovic J, Leton R, Montero C, Robledo M, Santambrogio L, Sue Brady M, Szumera-Cieckiewicz A, Kalinowska I, Skog J, Noerholm M, Muñoz J, Ortiz-Romero PL, Ruano Y, Rodriguez-Peralto JL, Rutkowski P, Peinado H. Use of extracellular vesicles from lymphatic drainage as surrogate markers of melanoma progression and BRAF V600E mutation. *Journal of Experimental Medicine*. 2019; 216(5): 1061-70. IF: 10.892 - Article.

▪ Garrido MC, Maronas-Jimenez L, Ruano Y, Rodriguez-Peralto JL. Proliferating Neurocristic Hamartoma Arising in a Giant Congenital Nevus: Comparative Genomic Hybridization Findings. *American Journal of Dermatopathology*. 2019; 41(6): 438-42. IF: 1.106 - Article.

▪ Perez-Garcia VM, Ayala-Hernandez LE, Belmonte-Beitia J, Schucht P, Murek M, Raabe A, Sepulveda J. Computational design of improved standardized chemotherapy protocols for grade II oligodendroglomas. *PLOS Computational Biology*. 2019; 15(7): e1006778. IF: 3.955 - Article.

▪ Estival A, Sanz C, Ramirez JL, Velarde JM, Domenech M, Carrato C, de Las Peñas R, Gil-Gil M, Sepulveda J, Armengol R, Cardiel I, Berrocal A, Luque R, Herrero A, Balana C. Pyrosequencing versus methylation-specific PCR for assessment of MGMT methylation in tumor and blood samples of glioblastoma patients. *Scientific Reports*. 2019; 9(1): 11125. IF: 4.011 - Article.

▪ Hernandez-SanMiguel E, Gargini R, Cejalvo T, Segura-Collar B, Nuñez-Hervada P, Hortiguela R, Sepulveda-Sanchez JM, Hernandez-Lain A, Perez-Nunez A, Sanz E, Sanchez-Gomez P. Ocoxin Modulates Cancer Stem Cells and M2 Macrophage Polarization in Glioblastoma. *Oxidative Medicine and Cellular Longevity*. 2019; 2019: 9719730. IF: 4.868 - Article.

▪ Cicuendez M, Castano-Leon A, Ramos A, Hilario A, Gomez PA, Lagares A. The added prognostic value of magnetic resonance imaging in traumatic brain injury: The importance of traumatic axonal injury when performing ordinal

- logistic regression. *Journal of Neuroradiology*. 2019; 46(5): 299-306. IF: 2.467 - Article.
- Castaña-Leon AM, Cicuendez M, Navarro B, Paredes I, Munarriz PM, Cepeda S, Hilario A, Ramos A, Gomez PA, Lagares A. Longitudinal Analysis of Corpus Callosum Diffusion Tensor Imaging Metrics and Its Association with Neurological Outcome. *Journal of Neurotrauma*. 2019; 36(19): 2785-802. IF: 3.754 - Article.
 - Manneh Kopp RA, Sepulveda-Sanchez JM, Ruano Y, Toldos O, Perez Nunez A, Cantero D, Hilario A, Ramos A, de Velasco G, Sanchez-Gomez P, Hernandez-Lain A. Correlation of radiological and immunochemical parameters with clinical outcome in patients with recurrent glioblastoma treated with Bevacizumab. *Clinical & Translational Oncology*. 2019; 21(10): 1413-23. IF: 2.441 - Article.
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- P, Martin JC, Casquero F, Arribas L, Tormo A, Ferrer E, Larrea L, Soler M, Garcia E, Soler P, Santos M, Vazquez G, Canon RM, Miro A; Spanish Soc Oncology Radiotherapy. Are there enough radiation oncologists to lead the new Spanish radiotherapy? *Clinical & Translational Oncology*. 2019; 21(12): 1663-72. IF: 2.441 - Article.
- Gonzalez M, Miguel A, Ramos A, Librizzi S, Jimenez C, Hawkins F, Diaz-Guerra M. Different development of serum sclerostin compared to other bone remodeling markers in the first year after a liver transplant. *Revista de Osteoporosis y Metabolismo Mineral*. 2019; 11(1): 25-9. IF: N/A - Article.
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 - Pozo G, Perez-Escutia MA, Ruiz A, Ferrando A, Milanes A, Cabello E, Diaz R, Prado A, Perez-Regadera JF. Management of interruptions in radiotherapy treatments: Adaptive implementation in high workload sites. *Reports of Practical Oncology and Radiotherapy*. 2019; 24(2): 23 -44. IF: N/A - Review.
 - Sanchez-Tejerina San Jose D, Ostos-Moliz F, Toldos-Gonzalez O, Gonzalo-Martinez JF, Herrero-San Martin A. Miopatia toxica asociada al tratamiento concomitante con atorvastatina y colchicina. *Revista de Neurología*. 2019; 68(11): 488-9. IF: 0.485 - Letter.
 - Laespada-Garcia MI, Bermejo-Guerrero L, Rabano-Suarez P, Ruiz-Ortiz M, Azcarate-Diaz FJ, Ramos-Gonzalez A, Herrero-San Martin AO. Signo de sal y pimienta como presentacion de una lesion pontina no vascular. *Revista de Neurología*. 2019; 69(3): 133-4. IF: 0.485 - Letter.
 - de la Hoz CPDF, Hernandez-Lain A, Olive M, Sanchez-Calvin MT, Gonzalo-Martinez JF, Dominguez-Gonzalez C. Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. *Brain*. 2019; 142(12): e66. IF: 11.814 - Letter.

CUTANEOUS ONCOLOGY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Rodríguez Peralto, José Luis (R4)

Blanco García, Leyla Patricia - Predoctoral Researcher (R1)
Cubo Martínez, Rocío - Predoctoral Researcher (R1)
Enguita Valls, Ana Belén - Predoctoral Researcher (R1)
García Martín, Rosa Mª - Doctoral Researcher (R2)
Garrido Ruiz, Mª Concepción - Postdoctoral Researcher (R2)
Hernández Marcos, Susana - Predoctoral Researcher (R1)
Maroñas Jiménez, Lidia - Predoctoral Researcher (R1)

Maroto Pérez, Alicia - Postdoctoral Researcher (R2)
Monsálvez Honrubia, Verónica - Postdoctoral Researcher (R2)
Muñoz Velasco, Raul - Collaborator (UFV)
Onteniente Gomis, Mª del Mar - Bachelor Researcher
Ortiz Romero, Pablo Luis - Doctoral Researcher (R3)
Postigo Llorente, Concepción - Clinical Researcher
Sánchez-Arévalo Lobo, Víctor - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	AECC	1
Non Competitive	Various	5
TOTAL		10

- Title:** Eritrodermias por Linfoma T cutáneo e inflamatorias. Estudio sobre muestras cutáneas y de biopsia líquida en linfoma cutáneo de células T. **Principal Investigator:** Pablo Luis Ortiz Romero
Project No.: PI17/00957
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Identificación de DNA tumoral circulante en biopsia líquida de pacientes con melanoma. **Principal Investigator:** José Luis Rodríguez Peralto
Project No.: PI17/01853
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Estudio de investigación translacional asociada al ensayo Pimtomf. Identificación y desarrollo de terapia dirigida a dianas. **Principal Investigator:** Pablo Luis Ortiz Romero
Project No.: PI14/01784
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: Identificación de mecanismos de resistencia tumoral del melanoma a los inhibidores de la mutación BRAFV600E.

Principal Investigator: José Luis Rodríguez Peralto

Project No.: PI14/01737

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: Vías de diseminación metastásica en distintos subtipos del melanoma maligno: nuevos biomarcadores tumorales y dianas terapéuticas.

Principal Investigator: José Luis Rodríguez Peralto/Pablo Luis Ortiz Romero

Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC) - Fundación Centro Nacional de Investigaciones Oncológicas (CNIO)

Start date: 01/07/2015

End date: 30/06/2020

Title: Analytical validation of the Next-Generation Sequencing assays in lung cancer samples.

Principal Investigator: José Luis Rodríguez Peralto

Funding Body: Roche Farma, S.A.

Start date: 10/12/2018

End date: 9/12/2019

Title: Implementación clínica de la caracterización genómica múltiple en la valoración inicial de pacientes con cáncer no microcitico de pulmón avanzado mediante técnicas de ultrasecuenciación masiva (NGS).

Principal Investigator: José Luis Rodríguez Peralto

Funding Body: Astra-Zeneca Farmaceutica Spain, S.A.

Start date: 22/06/2017

End date: 21/06/2020

Title: Validación de IDYLLA TM BRAF Mutation Test (biocartis) y los sistemas



cobas ® 4800 BRAF V600 Mutation TEST (Roche Molecular Diagnostics) en la determinación de la mutación de BRAF V600 en muestras de tejido de melanoma metastásico en práctica rutinaria del laboratorio de anatomía patológica.

Principal Investigator: José Luis Rodríguez Peralto

Funding Body: Roche Farma, S.A.

Start date: 21/12/2016

End date: 20/04/2018, extended to 20/06/2020

- Title:** Identificación de la expresión de la oncoproteína DEK en matrices tisulares de lesiones melanocíticas.

Principal Investigator: José Luis Rodríguez Peralto

Funding Body: Genomica S.A.U.

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/12/2019

- Title:** Determinación de las mutaciones del gen EGFR y otras alteraciones moleculares en el Carcinoma Pulmonar No Microcítico.

Principal Investigator: José Luis Rodríguez Peralto

Funding Body: Astra-Zeneca Farmaceutica Spain, S.A.

Start date: 31/10/2013

End date: 30/10/2016, extended to 30/09/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	8	81.727
Editorials	2	5.102
TOTAL	10	86.829
Letters	5	18.298
TOTAL	15	105.127

- Karras P, Riveiro-Falkenbach E, Canon E, Tejedo C, Calvo TG, Martinez-Herranz R, Alonso-Curbelo D, Cifdaloz M, Perez-Guijarro E, Gomez-Lopez G, Ximenez-Embun P, Munoz J, Megias D, Olmeda D, Moscat J, Ortiz-Romero PL, Rodriguez-Peralto JL, Soengas MS. p62/SQSTM1 Fuels Melanoma Progression by Opposing mRNA Decay of a Selective Set of Pro-metastatic Factors *Cancer Cell*. 2019; 35(1): 46-63.e10. IF: 23.916 - Article.

- Quintanal-Villalonga A, Molina-Pinelo S, Cirauqui C, Ojeda-Marquez L, Marrugal A, Suarez R, Conde E, Ponce-Aix S, Enguita AB, Carnero A, Ferrer I, Paz-Ares L. FGFR1 Cooperates with EGFR in Lung Cancer Oncogenesis, and Their Combined Inhibition Shows Improved Efficacy. *Journal of Thoracic Oncology*. 2019; 14(4): 641-55. IF: 12.460 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Quintanal-Villalonga A, Molina-Pinelo S, Yague P, Marrugal A, Ojeda-Marquez L, Suarez R, Ponce-Aix S, Enguita AB, Carnero A, Ferrer I, Paz-Ares L. FGFR1 increases EGFR oncogenic signaling in lung adenocarcinoma, and their combined inhibition is highly effective. *Lung Cancer*. 2019; 131: 112-21. IF: 4.599 - Article.

- Garcia-Silva S, Benito-Martin A, Sanchez-Redondo S, Hernandez-Barranco A, Ximenez-Embun P, Nogues L, Mazariegos MS, Brinkmann K, Amor López A, Meyer L, Rodriguez C, Garcia-Martin C, Boskovic J, Leton R, Montero C, Robledo M, Santambrogio L, Sue Brady M, Szumera-Cieckiewicz A, Kalinowska I, Skog J, Noerholm M, Muñoz J, Ortiz-Romero PL, Ruano Y, Rodriguez-Peralto JL, Rutkowski P, Peinado H. Use of extracellular vesicles from lymphatic drainage as surrogate markers of melanoma progression and BRAF V600E mutation. *Journal of Experimental Medicine*. 2019; 216(5): 1061-70. IF: 10.892 - Article.

- Garrido MC, Maronas-Jimenez L, Ruano Y, Rodriguez-Peralto JL. Proliferating Neurocistic Hamartoma Arising in a Giant Congenital Nevus: Comparative Genomic Hybridization Findings. *American Journal of Dermatopathology*. 2019; 41(6): 438-42. IF: 1.106 - Article.

- Najera L, Alonso-Juarranz M, Garrido M, Ballestin C, Moya L, Martinez-Diaz M, Carrillo R, Juarranz A, Rojo F, Cuevza JM, Rodriguez-Peralto JL. Prognostic implications of markers of the metabolic phenotype in human cutaneous melanoma. *British Journal of Dermatology*. 2019; 181(1): 114-27. IF: 6.714 - Article.

- Lazaro S, Perez-Crespo M, Lorz C, Bernardini A, Oteo M, Enguita AB, Romero E, Hernandez P, Tomas L, Morcillo MA, Paramio JM, Santos M. Differential development of large-cell neuroendocrine or small-cell lung carcinoma upon inactivation of 4 tumor suppressor genes. *Proceedings of the National Academy of Sciences of the United States of America*. 2019; 116(44): 22300-6. IF: 9.580 - Article.

- Conde E, Hernandez S, Martinez R, Angulo B, De Castro J, Collazo-Lorduy A, Jimenez B, Muriel A, Mate JL, Moran T, Aranda I, Massuti B, Rojo F, Domine M, Sansano I, Garcia F, Felip E, Mancheño N, Juan O, Sanz J, Gonzalez-Larriba JL, Atienza-Cuevas L, Arriola-Arellano E, Abdulkader I, Garcia-Gonzalez J, Camacho C, Rodriguez-Abreu D, Teixido C, Reguart N, Gonzalez-Pineiro A, Lazar-Quintela M, Lozano MD, Gurpide A, Gomez-Roman J, Lopez-Brea M, Pijuan L, Salido M, Arriola E, Company A, Insa A, Esteban-Rodriguez I, Saiz M, Azkona E, Alvarez R, Artal A, Plaza ML, Aguiar D, Enguita AB, Benito A, Paz-Ares L, Garrido P, Lopez-Rios F. Assessment of a New ROS1 Immunohistochemistry Clone (SP384) for the Identification of ROS1 Rearrangements in Non-Small Cell Lung Carcinoma Patients: the ROSING Study. *Journal of Thoracic Oncology*. 2019; 14(12): 2120-32. IF: 12.460 - Article.

- Puig P, Erill N, Terricabras M, Subirana I, González-García J, Asensi-Puig A, Donovan MJ, Mengual L, Agulló-Ortuño MT, Oliván M, Alcaraz A, López-

- Martín JA, de Torres I, Rodríguez-Peralto JL, Rodríguez-Antolín A, Morote J, González-Rumayor V. Multiple immunofluorescence assay identifies upregulation of Active β-catenin in prostate cancer. *BMC Research Notes*. 2019; 12(1): 68. IF: N/A - Article.

- Palacios J, Matías-Guiu X, Rodríguez-Peralto JL, de Álava E, López JL. Retos e implicaciones clínicas de la heterogeneidad intratumoral. *Revista Española de Patología*. 2019; 52(4): 234-41. IF: N/A - Review.

- Algarra AC, Miguel RA, Lencina JJA, Tamariz VV, Barrios MP, Velazquez AS, Llorente CP, Romero FT, Romero PLO, Pérez SIP. Band-like pattern alopecia in a two-month-old newborn. *Journal der Deutschen Dermatologischen Gesellschaft*. 2019; 17(5): 555-6. IF: 3.924 - Editorial Material.

- Cases-Merida S, Martinez-Barranca ML, Bernabeu-Wittel J, Zulueta-Dorado T, Peralto JL. Congenital erythematous plaque in a child. *Pediatric Dermatology*. 2019; 36(4): 88-90. IF: 1.178 - Editorial Material.

- Aragon-Miguel R, Prieto-Barrios M, Calleja-Algarra A, Pinilla-Martin B, Rodriguez-Peralto J, Ortiz-Romero P, Rivera-Diaz R. Image Gallery: Necrolytic migratory erythema associated with glucagonoma. *British Journal of Dermatology*. 2019; 180(1): 1. IF: 6.714 - Letter.

- Calleja Algarra A, Prieto Barrios M, Manrique Multiozabal A, Alonso Moraleda R, Fradejas Villajos I, Perez-Ayala A, Lopez Medrano F, Rodriguez Peralto JL, Ortiz Romero PL, Zarco Olivo C. Chromoblastomycosis: an autochthonous case of a tropical disease. *Journal of The European Academy of Dermatology and Venereology*. 2019; 33(2): 76-8. IF: 5.113 - Letter.

- Vico-Alonso C, Calleja-Algarra A, Aragon-Miguel R, Sanchez-Velazquez A, Velasco-Tamariz V, Ortiz-Romero PL, Monsalvez-Honrubia V. Omalizumab as an alternative therapeutic tool in the treatment of bullous pemphigoid: A case report. *Dermatologic Therapy*. 2019; 32(2): e12829. IF: 1.740 - Letter.

- Calleja Algarra A, Aragon Miguel R, Velasco Tamariz V, Prieto Barrios M, Andres Lencina JJ, Vico Alonso C, Ortiz Romero PL, Rivera Diaz R. Apremilast as a new treatment option for Acrodermatitis continua of Hallopeau. *Australasian Journal of Dermatology*. 2019; 60(3): 237-8. IF: 1.701 - Letter.

- Aragon-Miguel R, Calleja-Algarra A, Velasco-Tamariz V, Garrido M, Ortiz-Romero P, Marañas-Jiménez L. Is cyclosporine a good option for the treatment of subcutaneous panniculitis-like T-cell lymphoma associated with hemophagocytic syndrome? *Indian Journal of Dermatology Venereology & Leprology*. 2019; 85(6): 656-9. IF: 3.030 - Letter.

Patents

- Title:** Nanocapsule compositions for the control released of agents of therapeutic interest.

Inventors: Pablo Luis Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, Mª Rocío Villegas Díaz, Alejandro Baeza García.

Owners: Universidad Complutense de Madrid (60%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (40%).

PCT extension application No.: PCT/EP2019/050425.

Fecha de solicitud: 09/01/2019

- Title:** Métodos de selección de terapia de linfoma cutáneo de Células T.

Inventors: Miguel Ángel Piris Pinilla, José Pedro Vaqué Díez, Nerea Martínez Magunacelaya, Pablo Luis Ortiz Romero, Margarita Sánchez-Beato Gómez.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (27,90%), Fundación de Investigación Biomédica del Hospital Universitario Puerta de Hierro de Majadahonda (27,90%), Fundación Científica de la Asociación Española contra el Cáncer (44,20%).

PCT extension application No.: PCT/ES2013/070795.

Date of application: 13/11/2013

- Title:** Método de selección de terapia de linfoma cutáneo de células T.

Inventors: Miguel Ángel Piris Pinilla, José Pedro Vaqué Díez, Nerea Martínez Magunacelaya, Pablo Luis Ortiz Romero, Margarita Sánchez-Beato Gómez.

Owners: Fundación Marqués de Valdecilla (16,75%), Fundación de Investigación Biomédica del Hospital Universitario Puerta de Hierro de Majadahonda (16,75%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,75%), Fundación Científica de la Asociación Española contra el Cáncer (33%), Servicio Cántabro de Salud (16,75%).

Spanish Patent Application No.: P201231760.

Date of application: 14/11/2012

THORACIC AND CLINICAL TRANSLATIONAL ONCOLOGY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Paz-Ares Rodríguez, Luis Gonzaga (R4)

Agulló Ortúño, M^a Teresa - Doctoral Researcher (R4)
 Álvarez López, Eva - Collaborator (Fundación ONCOSUR)
 Carrizo Mijarra, Nuria - Support Technician
 Cirauqui Armendariz, Cristina - Postdoctoral Researcher (R2)
 Cortijo Cascajares, Ana - Bachelor Researcher
 Coya Raboso, Juan Manuel - Doctoral Researcher (R3)
 Cozar López, Patricia - Support Technician
 Ferrer Sánchez, Irene - Doctoral Researcher (R4)
 Gallego Hervas, Mirella - Support Technician
 García Borrego, Santiago - Predoctoral Researcher (R1)
 García Redondo, Laura - Support Technician
 Garrido Martín, Eva M^a - Doctoral Researcher (R4)
 Gómez Abecia, Sara - Bachelor Researcher
 Gómez Sánchez, David - Predoctoral Researcher (R1)
 Iglesias Docampo, Lara Carmen - Bachelor Researcher
 Jiménez Aguilar, Elisabeth - Bachelor Researcher

López Martín, José Antonio - Doctoral Researcher (R4)
 Luengo Rodríguez, Alicia - Support Technician
 Marrugal Lorenzo, Ángela M^a - Predoctoral Researcher (R1)
 Muñoz Jiménez, M^a Teresa - Postdoctoral Researcher (R2)
 Núñez Buiza, Ángel - Predoctoral Researcher (R1)
 Núñez Sobrino, Juan Antonio - Bachelor Researcher
 Ojeda Márquez, Laura - Predoctoral Researcher (R1)
 Ponce Aix, Santiago - Clinical Researcher
 Ramos Paradas, Javier - Predoctoral Researcher (R1)
 Rosado Díez, Arantzazu - Bachelor Researcher
 Rodriguez Aguilar, Francisco de Borja - Support Technician
 Santos Ramos, Alba - Predoctoral Researcher (R1)
 Suárez Beltrán, Rocío - Support Technician
 Yagüe Sanz, Patricia - Predoctoral Researcher (R1)
 Zugazagoitia Fraile, Jon - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	FMM	1
Competitive	AECC	1
Non Competitive	Various	5
TOTAL		11

- Title:** Caracterización molecular e immune del cáncer de pulmón no microcítico (CPNM) como base para la personalización de estrategias de inmunoterapia.
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Project No.: PI17/00778
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020

- Title:** Validación de un biomarcador predictivo a la terapia ANTI-FGFR y desarrollo de una herramienta de utilidad en la práctica clínica.
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Project No.: DTS17/00089
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2019, extended to 31/03/2021
- Title:** Interacción de la Interleukina 11 (IL11) con el microambiente tumoral en el adenocarcinoma de pulmón, y estudio de su inhibición como estrategia terapéutica.
Principal Investigator: Irene Ferrer Sánchez
Project No.: PI16/01311
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019, extended to 30/06/2021
- Title:** Discovery, validation and implementation of biomarkers for precision oncology.
Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Project No.: PIE15/00076

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016
End date: 31/12/2018, extended to 31/12/2019

- Title:** Estudio de la comunicación intercelular mediada por microRNAs en cáncer de pulmón.

Principal Investigator: Sonia Molina Pinelo
Project No.: FIMM 2014/0096
Funding Body: Fundación de Investigación Médica Mutua Madrileña (FIMM)
Start date: 16/05/2016
End date: 15/05/2019

- Title:** A translational platform for the orphaning malignant pleural mesothelioma.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC).
Start date: 01/12/2018
End date: 30/11/2021

- Title:** Immunotherapy in lung cancer and other solid tumours.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Fundación Cris de Investigación para vencer el Cáncer
Start date: 20/01/2018
End date: 19/01/2021

- Title:** Colaboración para determinar translocaciones del gen ALK-MLA4 Y ROS1 en cáncer de pulmón.

Principal Investigator: Santiago Ponce Aix
Funding Body: Pfizer, S.L.U.
Start date: 25/07/2018
End date: 24/07/2021

- Title:** Medición de la biología de los telómeros en muestras clínicas: desarrollo de nuevos biomarcadores para la detección temprana del cáncer de pulmón.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Life Length, S.L.
Start date: 10/02/2017
End date: 09/02/2019

- Title:** Estudio de armonización / normalización de la carga mutacional del tumor (TMB) en el cancer de pulmón no microcítico: dos métodos equilibrados.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez
Funding Body: Bristol-Myers Squibb, S.A.
Start date: 01/01/2019
End date: 28/02/2020

- Title:** Identificación de susceptibilidades moleculares de los sarcomas de partes blandas, mediante el análisis computacional del interactoma humano

de proteínas.

Principal Investigator: José Antonio López Martín
Funding Body: Grupo Español de Investigación en Sarcomas
Start date: 10/12/2019
End date: 31/12/2021

Other Active Projects of the Research Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Mitochondrial membrane-targeted compounds for cancer therapy (mitozippers).
Principal Investigator: Luis López Montero, Luis Paz-Ares Rodríguez, Irene Ferrer
Funding Body: European Research Council
Start date: 01/07/2018
End date: 31/12/2019
- Title:** Novel predictive biomarker of FGFR targeted therapy efficacy.
Principal Investigator: Luis Paz-Ares Rodríguez; Irene Ferrer Sánchez
Funding Body: AstraZeneca Farmacéutica Spain, S.A.
Start date: 01/01/2018
End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	35	444.654
Reviews	3	10.990
Editorials	2	18.313
TOTAL	40	473.957
Letters	1	1.439
TOTAL	41	475.396

- Rivera F, Benavides M, Gallego J, Guillen-Ponce C, Lopez-Martin J, Kung M. Tumor treating fields in combination with gemcitabine or gemcitabine plus nab-paclitaxel in pancreatic cancer: Results of the PANORA phase 2 study. Pancreatology. 2019; 19(1): 64-72. IF: 3.241 - Article.
- Zugazagoitia J, Ramos I, Trigo JM, Palka M, Gomez-Rueda A, Jantus-Lewintre

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- E, Camps C, Isla D, Iranzo P, Ponce-Aix S, Garcia-Campelo R, Provencio M, Franco F, Bernabe R, Juan-Vidal O, Felip E, de Castro J, Sanchez-Torres JM, Faul I, Lanman RB, Garrido P, Paz-Ares L. Clinical utility of plasma-based digital next-generation sequencing in patients with advance-stage lung adenocarcinomas with insufficient tumor samples for tissue genotyping. *Annals of Oncology*. 2019; 30(2): 290-6. IF: 14.196 - Article.
- Levy BP, Giaccone G, Besse B, Felip E, Garassino MC, Domine Gomez M, Garrido P, Piperdi B, Ponce-Aix S, Menezes D, MacBeth KJ, Risueno A, Slepetic R, Wu XL, Fandi A, Paz-Ares L. Randomised phase 2 study of pembrolizumab plus CC-486 versus pembrolizumab plus placebo in patients with previously treated advanced non-small cell lung cancer. *European Journal of Cancer*. 2019; 108: 120-8. IF: 6.680 - Article.
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 - Diaz-Serrano A, Sanchez-Torre A, Paz-Ares L. Necitumumab for the treatment of advanced non-small-cell lung cancer. *Future Oncology*. 2019; 15(7): 705-16. IF: 2.279 - Article.
 - Thatcher N, Goldschmidt JH, Thomas M, Schenker M, Pan ZY, Paz-Ares Rodriguez L, Breder V, Ostoros G, Hanes V. Efficacy and Safety of the Biosimilar ABP 215 Compared with Bevacizumab in Patients with Advanced Non-squamous Non-small Cell Lung Cancer (MAPLE): A Randomized, Double-blind, Phase III Study. *Clinical Cancer Research*. 2019; 25(7): 2088-95. IF: 8.911 - Article.
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 - Park K, Bennouna J, Boyer M, Hida T, Hirsh V, Kato T, Lu S, Mok T, Nakagawa K, O'Byrne K, Paz-Ares L, Schuler M, Sibilot DM, Tan EH, Tanaka H, Wu YL, Yang JC, Zhang L, Zhou C, Märten A, Tang W, Yamamoto N. Sequencing of therapy following first-line afatinib in patients with EGFR mutation-positive non-small cell lung cancer. *Lung Cancer*. 2019; 132: 126-31. IF: 4.599 - Article.
 - Schuler M, Tan EH, O'Byrne K, Zhang L, Boyer M, Mok T, Hirsh V, Yang JCH, Lee KH, Lu S, Shi YK, Kim SW, Laskin J, Kim DW, Arvis CD, Kolbeck K, Massey D, Marten A, Paz-Ares L, Park K. First-line afatinib vs gefitinib for patients with EGFR mutation-positive NSCLC (LUX-Lung 7): impact of afatinib dose adjustment and analysis of mode of initial progression for patients who continued treatment beyond progression. *Journal of Cancer Research and Clinical Oncology*. 2019; 145(6): 1569-79. IF: 3.332 - Article.
 - Reck M, Kerr KM, Grohe C, Manegold C, Pavlakis N, Paz-Ares L, Huber RM, Popat S, Thatcher N, Park K, Hilberg F, Barrueco J, Kaiser R. Defining

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 - Park K, Bennouna J, Boyer M, Hida T, Hirsh V, Kato T, Lu S, Mok T, Nakagawa K, O'Byrne K, Paz-Ares L, Schuler M, Sibilot DM, Tan EH, Tanaka H, Wu YL, Yang JC, Zhang L, Zhou C, Märten A, Tang W, Yamamoto N. Sequencing of therapy following first-line afatinib in patients with EGFR mutation-positive non-small cell lung cancer. *Lung Cancer*. 2019; 132: 126-31. IF: 4.599 - Article.
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International Mention: Yes

End Master Investigations Directed on the Group

▪ **Student:** Alba Santos Ramos

Title: Evaluación del uso terapéutico de nuevos anticuerpos monoclonales conjugados dirigidos a HER2/3 para el tratamiento del cáncer de pulmón

Director: Irene Ferrer Sánchez; Luis Paz-Ares Rodríguez

Master: Máster en Investigación en Medicina Traslacional (UCM)

End Graduated Investigations Directed on the Group

▪ **Student:** Guiomar Casado Fernández

Title: Estudio del papel de IL-11 en el adenocarcinoma de pulmón como ejemplo de una investigación traslacional en la investigación del cáncer de pulmón

Director: Irene Ferrer Sánchez

Degree: Biología Sanitaria (Universidad de Alcalá)

Prizes and Awards

- Premio 'Best in Class (BIC)' 2019 en Investigación en Oncología.

Patents

▪ **Title:** Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.

Number: PCT/ES2018/070502.

Type: PCT patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).

Date of application: 19/07/2018

▪ **Title:** Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.

Number: PCT/ES2018/070501.

Type: PCT patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga,

Theses Defended or Directed on the Group

▪ **Candidate:** Laura Ojeda Marquez

Title: Papel de la Interleuquina-11 en la biología del adenocarcinoma pulmonar

Director/s: Luis Paz-Ares Rodríguez, Irene Ferrer Sánchez

Date Defended: 12/11/2019

University: Universidad Complutense de Madrid

Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).
Date of application: 13/07/2018

- Title:** Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.

Number: P201730928.

Type: Spanish patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).

Date of application: 13/07/2017

- Title:** Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.

Number: P201730929.

Type: Spanish patent.

Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).

Date of application: 13/07/2017

- Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.

Number: P201531891.

Type: Spanish patent.

Inventors: José Perea García, Rogelio González Sarmiento, Daniel Rueda Fernández, Miguel Urioste Azcorra, María Arriba Domenech, Juan Luis García Hernández, Jéssica Pérez García.

Owners: Fundación i+12 (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Universidad de Salamanca (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%).

Number: PCT/ES2016/070929.

Type: PCT patent.

Inventors: José Perea García, Daniel Rueda Fernández, María Arriba Domenech, Miguel Urioste Azcorra, Juan Luis García Hernández, Jéssica Pérez García, Rogelio González Sarmiento.

Owners: Fundación i+12 (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%), Universidad de Salamanca (25%).

Date of application: 22/12/2016

- Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.

Number: P201531891.

Type: Spanish patent.

Inventors: José Perea García, Rogelio González Sarmiento, Daniel Rueda Fernández, Miguel Urioste Azcorra, María Arriba Domenech, Juan Luis García Hernández, Jéssica Pérez García.

Owners: Fundación i+12 (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Universidad de Salamanca (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%).

Date of application: 23/12/2015

Communication

- Number of news items published in the written press: 118.
- News in other audiovisual media (radio, TV): 50.

GENITOURINARY AND CELLULAR AND MOLECULAR ONCOLOGY

CENTER: Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT)
 Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Paramio González, Jesús M^a (R4)

Alameda Ubeda-Contreras, Josefa Pilar - Postdoctoral Researcher (R2)
 Bernardini, Alejandra - Postdoctoral Researcher (R2)
 Casanova Hernández, M^a de los Llanos - Doctoral Researcher (R3)
 Castellano Gauna, Daniel Ernesto - Doctoral Researcher (R3)
 de la Rosa Kerhmann, Federico - Doctoral Researcher (R3)
 Duarte Ojeda, José Manuel - Doctoral Researcher (R3)
 de Velasco Oria de Rueda, Guillermo Antonio - Doctoral Researcher (R3)
 Dueñas Porto, Marta Gloria - Doctoral Researcher (R3)
 Errazquin Ciudad, Ricardo - Predoctoral Researcher (R1)
 García Escudero, Ramón - Doctoral Researcher (R3)
 Gómez del Cañizo, Carmen - Predoctoral Researcher (R1)
 Gómez Rodríguez, M^a José - Doctoral Researcher (R3)

Guerrero Ramos, Félix - Postdoctoral Researcher (R2)
 Lázaro Encinas, Sara - Predoctoral Researcher (R1)
 Lodewijk, Iris Adriana M^a - Predoctoral Researcher (R1)
 Lorz López, Corina - Doctoral Researcher (R3)
 Miranda Utrera, Natalia Rocío - Postdoctoral Researcher (R2)
 Munera Maravilla, Ester - Predoctoral Researcher (R1)
 Pérez Crespo, Miriam - Postdoctoral Researcher (R2)
 Rodríguez Antolín, Alfredo - Doctoral Researcher (R3)
 Santos Lafuente, Mirenxtu - Doctoral Researcher (R3)
 Segrelles Huelga, M^a del Carmen - Doctoral Researcher (R3)
 Suárez Cabrera, Cristian - Postdoctoral Researcher (R2)

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Caracterización genómica e inmunológica de tumores renales hereditarios.

Principal Investigator: Guillermo Antonio de Velasco Oria de Rueda

Funding Body: Fundación Sociedad Española de Oncología Médica (SEOM)

Start date: 01/05/2018

End date: 30/04/2020

- Title:** New disease models and diagnostic tools for head and neck squamous cell carcinoma in fanconi anemia patients.

Principal Investigator: Ramón García Escudero

Funding Body: Fundacion Anemia de Falconi

Start date: 01/06/2018

End date: 31/05/2021

- Title:** Evaluation of miRNAs and miRNA derived peptides (MIPEPS) in liquid biopsies for bladder cancer diagnosis, prognosis and BCG treatment response.

Principal Investigator: Marta Gloria Dueñas Porto

Funding Body: Ferring Research Institute, Inc

Start date: 01/12/2018

End date: 31/12/2019

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	SEOM	1
Competitive	Fundación Anemia de Falconi	1
Non Competitive	Various	3
TOTAL		7

- Title:** Nuevas estrategias terapéuticas para el cáncer escamoso de cabeza y cuello.

Principal Investigator: Corina Lorz López

Project No.: PI18/00263

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Taxonomía molecular del cáncer renal de células claras y respuesta a tratamientos dirigidos.

Principal Investigator: Guillermo Antonio de Velasco Oria de Rueda

Project No.: PI17/01728



Title: Papel del pronóstico de la biopsia líquida en pacientes con cáncer renal y metástasis cerebral.

Principal Investigator: Guillermo Antonio de Velasco Oria de Rueda

Funding Body: Roche Farma, S.A.

Start date: 22/10/2018

End date: 31/12/2021

Title: La carga de cancer de prostata avanzado en España. Un estudio retrospectivo.

Principal Investigator: Alfredo Rodríguez Antolín

Funding Body: Ecostat Consulting UK LTD

Start date: 01/09/2016

End date: 31/08/2019

Other Active Projects of the Research Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Title: Understanding Bladder Cancer Through Genetically Engineered Mouse Models of Preclinical Application.

Principal Investigator: Jesús Mª Paramio González

Project No.: SAF2015-66015-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2016

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	34	339.091
Reviews	5	22.820
TOTAL	39	361.911
Letters	1	3.164
TOTAL	40	365.075

Capdevila J, Teulé A, Barriuso J, Castellano D, Lopez C, Manzano JL, Alonso V, Garcia-Carbonero R, Dotor E, Matos I, Custodio A, Casanovas O, Salazar R, EVERLAR study investigators. Phase II Study of Everolimus and Octreotide LAR in Patients with Nonfunctioning Gastrointestinal Neuroendocrine Tumors: The GETNE1003_EVERLAR Study. *Oncologist*. 2019; 24(1): 38-46.

IF: 5.252 - Article.

Rubio C, Martinez-Fernandez M, Segovia C, Lodewijk I, Suarez-Cabrera C, Segrelles C, Lopez-Calderon F, Munera-Maravilla E, Santos M, Bernardini A, Garcia-Escudero R, Lorz C, Gomez-Rodriguez MJ, de Velasco G, Otero I, Villacampa F, Guerrero-Ramos F, Ruiz S, de la Rosa F, Dominguez-Rodriguez S, Real FX, Malats N, Castellano D, Duenas M, Paramio JM. CDK4/6 Inhibitor as a Novel Therapeutic Approach for Advanced Bladder Cancer Independently of RB1 Status. *Clinical Cancer Research*. 2019; 25(1): 390-402. IF: 8.911 - Article.

Hakenberg OW, Perez-Gracia JL, Castellano D, Demkow T, Ali T, Caffo O, Heidenreich A, Schultz-Seemann W, Sautois B, Pavlik I, Qin A, Novosiadly RD, Shahir A, Ilaria R Jr, Nippgen J. Randomised phase II study of second-line olaratumab with mitoxantrone/prednisone versus mitoxantrone/prednisone alone in metastatic castration-resistant prostate cancer. *European Journal of Cancer*. 2019; 107: 186-95. IF: 6.680 - Article.

Bernardini A, Cuesta T, Tomas A, Bengoechea J, Martinez J, Sanchez MB. The intrinsic resistome of Klebsiella pneumoniae. *International Journal of Antimicrobial Agents*. 2019; 53(1): 29-33. IF: 4.615 - Article.

Gonzalez Del Alba A, De Velasco G, Lainz N, Maroto P, Morales-Barrera R, Munoz-Langa J, Perez-Valderrama B, Basterretxea L, Caballero C, Vazquez S. SEOM clinical guideline for treatment of muscle-invasive and metastatic urothelial bladder cancer (2018). *Clinical & Translational Oncology*. 2019; 21(1): 64-74. IF: 2.441 - Article.

Lorenzo-Martin LF, Citterio C, Menacho-Marquez M, Conde J, Larive RM, Rodriguez-Fdez S, Garcia-Escudero R, Robles-Valero J, Cuadrado M, Fernandez-Pisonero I, Dosil M, Sevilla MA, Montero MJ, Fernandez-Salguero PM, Paramio JM, Bustelo XR. Vav proteins maintain epithelial traits in breast cancer cells using miR-200c-dependent and independent mechanisms. *Oncogene*. 2019; 38(2): 209-27. IF: 6.634 - Article.

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Molina M, Guerrero-Ramos F, Fernandez-Ruiz M, Gonzalez E, Cabrera J, Morales E, Gutierrez E, Hernandez E, Polanco N, Hernandez A, Praga M, Rodriguez-Antolin A, Pamplona M, de la Rosa F, Cavero T, Chico M, Villar A, Justo I, Andres A. Kidney transplant from uncontrolled donation after circulatory death donors maintained by nECMO has long-term outcomes comparable to standard criteria donation after brain death. *American Journal of Transplantation*. 2019; 19(2): 434-47. IF: 7.163 - Article.

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Priou F, Rolland F, Escudier B, Albiges L. Second-line targeted therapies after nivolumab-ipilimumab failure in metastatic renal cell carcinoma. *European Journal of Cancer*. 2019; 108: 33-40. IF: 6.680 - Article.

Page A, Ortega A, Alameda JP, Navarro M, Paramio JM, Saiz-Pardo M, Almeida EI, Hernandez P, Fernandez-Acennero MJ, Garcia-Fernandez RA, Casanova ML. IKKa Promotes the Progression and Metastasis of Non-Small Cell Lung Cancer Independently of its Subcellular Localization. *Computational and Structural Biotechnology Journal*. 2019; 17: 251-62. IF: 4.720 - Article.

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Garcia-Sanz R, Sureda A, de la Cruz F, Canales M, Gonzalez AP, Pinana JL, Rodriguez A, Gutierrez A, Domingo-Domenech E, Sanchez-Gonzalez B, Rodriguez G, Lopez J, Moreno M, Rodriguez-Salazar MJ, Jimenez-Cabrera S, Caballero MD, Martinez C. Brentuximab Vedotin and ESHAP is Highly Effective as Second-Line Therapy for Hodgkin Lymphoma Patients (Long-Term Results of a Trial by the Spanish GELTAMO Group). *Annals of Oncology*. 2019; 30(4): 612-20. IF: 14.196 - Article.

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Fizazi K, Tran N, Fein L, Matsubara N, Rodriguez-Antolin A, Alekseev BY, Ozguroglu M, Ye DW, Feyerabend S, Protheroe A, Sulur G, Luna Y, Li S, Mundie S, Chi KN. Abiraterone acetate plus prednisone in patients with newly diagnosed high-risk metastatic castration-sensitive prostate cancer (LATITUDE): final overall survival analysis of a randomised, double-blind, phase 3 trial. *Lancet Oncology*. 2019; 20(5): 686-700. IF: 35.386 - Article.

Garcia-Rojo E, Medina-Polo J, Sopena-Sutil R, Guerrero-Ramos F, Garcia-Gomez B, Aguilar-Gisbert L, Garcia-Alvarez G, Azcutia-Gomez MR, Gomez-Martin F, Molero-Garcia JM, Pereda-Arregui E, Vargas-Machuca Cabanero MC, Villacampa-Auba F, Tejido Sanchez A. Analysis of referrals after a synergic work between Primary Care and Urology. Impact of joint protocol implementation and a continuing education program in our healthcare area. *Actas Urológicas Españolas*. 2019; 43(4): 176-81. IF: 1.136 - Article.

Loras A, Suarez-Cabrera C, Martinez-Bisbal MC, Quintas G, Paramio JM,

Martinez-Manez R, Gil S, Ruiz-Cerdia JL. Integrative Metabolomic and Transcriptomic Analysis for the Study of Bladder Cancer. *Cancers*. 2019; 11(5): 686. IF: 6.162 - Article.

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Romero-Otero J, Garcia-Gonzalez L, Garcia-Gomez B, Alonso-Isa M, Garcia-Rojo E, Gil-Moradillo J, Duarte-Ojeda JM, Rodriguez-Antolin A. Analysis of holmium laser enucleation of the prostate in a high volume centre: the impact of concomitant holmium laser cystolitholapaxy. *Journal of Endourology*. 2019; 33(7): 564-9. IF: 2.267 - Article.

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Romero-Otero J, Garcia-Gonzalez L, Garcia-Gomez B, Justo-Quintas J, Garcia-Rojo E, Gonzalez-Padilla DA, Sopeña-Sutil R, Duarte-Ojeda JM, Rodriguez-Antolin A. Factors Influencing Intraoperative Blood Loss in Patients Undergoing Holmium Laser Enucleation of the Prostate (HoLEP) for Benign Prostatic Hyperplasia: A Large Multicenter Analysis. *Urology*. 2019; 132: 177-82. IF: 1.861 - Article.

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Garcia Rojo E, Gonzalez Padilla DA, Castelo Loureiro A, Parrilla Rubio L, Tejido

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



Sánchez Á, Guerrero Ramos F. New case of secondary bladder amyloidosis with massive hematuria-role of intravesical instillations with dimethyl sulfoxide. *Translational Andrology and Urology*. 2019; 8(5): 548-55. IF: 2.113 - Article.

▪ Rodríguez Antolín A, Martínez-Pineiro L, Jiménez Romero ME, García Ramos JB, López Bellido D, Muñoz Del Toro J, García-Porrero AG, Gómez Veiga F. Prevalence of Fatigue and Impact on Quality of Life in Castration-Resistant Prostate Cancer Patients: The VITAL Study. *BMC Urology*. 2019; 19(1): 92. IF: 1.583 - Article.

▪ Lazaro S, Perez-Crespo M, Lorz C, Bernardini A, Oteo M, Enguita AB, Romero E, Hernandez P, Tomas L, Morcillo MA, Paramio JM, Santos M. Differential development of large-cell neuroendocrine or small-cell lung carcinoma upon inactivation of 4 tumor suppressor genes. *Proceedings of the National Academy of Sciences of The United States of America*. 2019; 116(44): 22300-6. IF: 9.580 - Article.

▪ Powles T, Kockx M, Rodriguez-Vida A, Duran I, Crabb SJ, Van der Heijden MS, Szabados B, Pous AF, Gravis G, Herranz UA, Protheroe A, Ravaud A, Maillet D, Mendez MJ, Suarez C, Linch M, Prendergast A, van Dam PJ, Stanoeva D, Daelemans S, Mariathasan S, Tea JS, Mousa K, Banchereau R, Castellano D. Clinical efficacy and biomarker analysis of neoadjuvant atezolizumab in operable urothelial carcinoma in the ABACUS trial. *Nature Medicine*. 2019; 25(11): 1706-14. IF: 30.641 - Article.

▪ Jiménez-Segovia A, Mota A, Rojo-Sebastin A, Barrocal B, Rynne-Vidal A, García-Bermejo ML, Gómez-Bris R, Hawinkels LJAC, Sandoval P, García-Escudero R, López-Cabrera M, Moreno-Bueno G, Fresno M, Stamatakis K. Prostaglandin F 2a -induced Prostate Transmembrane Protein, Androgen Induced 1 mediates ovarian cancer progression increasing epithelial plasticity. *Neoplasia*. 2019; 21(11): 1073-84. IF: 3.837 - Article.

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A, Stenzl A, Thalmann GN, Tombal B, Turkbey B, Lauridsen SV, Valdagni R, Van der Heijden AG, Van Poppel H, Vartolomei MD, Veskimae E, Vilaseca A, Rivera FAV, Wiegel T, Wiklund P, Williams A, Zigeuner R, Witjes JA. EAU-ESMO consensus statements on the management of advanced and variant bladder cancer-an international collaborative multi-stakeholder effort: under the auspices of the EAU and ESMO Guidelines Committees. *Annals of Oncology*. 2019; 30(11): 1697-727. IF: 14.196 - Article.

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▪ García Rojo E, García Gómez B, González Padilla DA, Abad López P, García González L, Rodríguez Antolín A, Romero Otero J. Assessment of the influence of transrectal and transperineal prostate biopsies on erectile function: A prospective observational single-center study. *International Journal of Urology*. 2019; 26(11): 1054-8. IF: 2.107 - Article.

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world series. *Critical Reviews In Oncology Hematology*. 2019; 140: 80-7. IF: 5.012 - Review.

- Martinez VG, Munera-Maravilla E, Bernardini A, Rubio C, Suarez-Cabrera C, Segovia C, Lodewijk I, Dueñas M, Martinez-Fernandez M, Paramio JM. Epigenetics of Bladder Cancer: Where Biomarkers and Therapeutic Targets Meet. *Frontiers in Genetics*. 2019; 10: 1125. IF: 3.517 - Review.
- Santos-de-Frutos K, Segrelles C, Lorz C. Hippo Pathway and YAP Signaling Alterations in Squamous Cancer of the Head and Neck. *Journal of Clinical Medicine*. 2019; 8(12): 2131. IF: 5.688 - Review.
- Carril-Auria L, Santos M, Roldán-Romero JM, Rodríguez-Antona C, de Velasco G. Prognostic and Predictive Value of PBRM1 in Clear Cell Renal Cell Carcinoma. *Cancers*. 2019; 12(1): 16. IF: 6.162 - Review.
- de Velasco G, Bex A, Albiges L, Powles T, Rini BI, Motzer RJ, Heng DYC, Escudier B. Sequencing and Combination of Systemic Therapy in Metastatic Renal Cell Carcinoma. *European Urology Oncology*. 2019; 2(5): 505-14. IF: N/A - Review.
- Carretero Gonzalez A, Martin MC, Luyo M, Castellano D, de Velasco G. Challenges of treatment selection in the older prostate patient. *Journal of Geriatric Oncology*. 2019; 10(4): 666-8. IF: 3.164 - Letter.

End Master Investigations Directed on the Group

- **Student:** Claudia Gil Pitarch
Title: Implicación de miR-205 en la reversión del fenotipo tumoral inducido por ERAS en células MCF10A
Directors: Manuel Navarro Espinel
Master: Máster en investigación en Medicina Traslacional (UCM)
- **Student:** Karla Santos de Frutos
Title: Understanding the effect of PIK3CA overexpression over YAP activation in head and neck cancer
Directors: Corina Lorz López, Mª del Carmen Segrelles Huelga
Master: Master's Degree in Molecular Biomedicine (UAM)
- **Student:** Esther Sieiro Balsera
Title: New Disease Models for Head and Neck Cancer in Fanconi Anemia Patients
Directors: Ramón García Escudero, Mª del Carmen Segrelles Huelga
Master: Máster en investigación en Medicina Traslacional (UCM)
- **Student:** Verónica Arantxa García García
Title: In vivo analysis, in transgenic mice, of the damages produced by the altered signalling of IKKα
Directors: Mª de los Llanos Casanova Hernández, Angustias Page Peñuelas
Master: Máster en Bioquímica, Biología Molecular y Biomedicina (UCM)
- **Student:** Erik Ramón Gil
Title: Urine miRNAs quantification as novel diagnostic method for bladder cancer
Directors: Cristian Suárez Cabrera, Marta Gloria Dueñas Porto
Master: Máster en Investigación y Medicina Traslacional (UCM)

Prizes and Awards

- Tercer clasificado Premios HealthStart 2019 - Proyecto BlaDimiR: método y dispositivo para diagnóstico de cáncer de vejiga no invasivo y de alta precisión.
Premiados: Dra. Marta Gloria Dueñas Porto, Dr. Cristian Suárez Cabrera.

Patents

- **Title:** Método Pronóstico para Identificar Riesgo de Recidiva en Pacientes de Cáncer de Riñón Tipo Carcinoma Renal de Células Claras Estadios I y II y Kit.
Number: EP167746445.
Type: EFN PCT, European patent.

Inventors: Natalia Miranda Utrera, Felipe Villacampa Aubá, Daniel Castellano, Juan Ángel Fresno Vara, Ángelo Gámez Pozo.

Owners: Fundación i+12 (70%), Fundación para la Investigación Biomédica del Hospital Universitario la Paz (30%).

Date of application: 19/03/2018

- Title:** Método Pronóstico para Identificar Riesgo de Recidiva en Pacientes de Cáncer de Riñón Tipo Carcinoma Renal de Células Claras Estadios I y II y Kit.

Number: 15761687.

Type: EFN PCT, American patent.

Inventors: Natalia Miranda Utrera, Felipe Villacampa Aubá, Daniel Castellano, Juan Ángel Fresno Vara, Ángelo Gámez Pozo

Owners: Fundación i+12 (70%), Fundación para la Investigación Biomédica del Hospital Universitario la Paz (30%).

Date of application: 19/03/2018

- Title:** Método Pronóstico para Identificar Riesgo de Recidiva en Pacientes de Cáncer de Riñón Tipo Carcinoma Renal de Células Claras Estadios I y II y Kit.

Number: 2016800596568.

Type: EFN PCT, Chinese patent.

Inventors: Natalia Miranda Utrera, Felipe Villacampa Aubá, Daniel Castellano, Juan Ángel Fresno Vara, Ángelo Gámez Pozo.

Owners: Fundación i+12 (70%), Fundación para la Investigación Biomédica del Hospital Universitario la Paz (30%).

Date of application: 12/04/2018

- Title:** Determinación de miARNs en orina como método de diagnóstico de cáncer de vejiga.

Number: P201830811.

Type: Spanish patent.

Inventors: Marta Dueñas Porto, Jesús Paramio, Christian Suárez, Felipe Villacampa.

Owners: Fundación i+12 (50%), CIEMAT (50%).

Date of application: 08/08/2018

- Title:** Método pronóstico para identificar riesgo de recidiva en pacientes de cáncer de riñón tipo carcinoma renal de células claras estadios I y II y kit.

Number: PCT/EP2016/072723.

Type: PCT patent.

Inventors: Natalia Miranda Utrera, Felipe Villacampa Aubá, Daniel Castellano, Juan Ángel Fresno Vara, Ángelo Gámez Pozo.

Owners: Fundación i+12 (70%), Fundación para la Investigación Biomédica del Hospital Universitario La Paz (30%).

Date of application: 23/09/2016

- Title:** Método pronóstico para identificar riesgo de recidiva en pacientes de cáncer de riñón tipo carcinoma renal de células claras estadios I y II y KIT.

Number: P201531360.

Type: Spanish patent.

Inventors: Natalia Miranda Utrera, Felipe Villacampa Aubá, Juan Ángel Fresno Vara, Ángelo Gámez Pozo, Daniel Castellano Gauna.

Owners: Fundación i+12 (70%), Fundación para la investigación biomédica del Hospital Universitario la Paz (30%).

Date of application: 23/09/2015

BREAST AND GYNECOLOGIC CANCER

CENTER: Hospital Universitario 12 de Octubre (H120) - Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) - Universidad Complutense de Madrid (UCM)

GROUP LEADER: Ciruelos Gil, Eva M^a (R4)

Aragón Sánchez, Sofía - Predoctoral Researcher (R1)

Bárcena García, Carmen - Clinical Researcher

Bernal Hertfelder, Elsa - Bachelor Researcher

Bravo Violeta, Victoria - Clinical Researcher

López González, Gregorio - Postdoctoral Researcher (R2)

Manso Sánchez, Luis Manuel - Postdoctoral Researcher (R2)

Martínez López, Mario - Predoctoral Researcher (R1)

Navarro Espinel, José Manuel - Doctoral Researcher (R3)

Oliver Pérez, M^a de los Reyes - Predoctoral Researcher (R1)

Page Peñuelas, M^a Angustias - Postdoctoral Researcher (R2)

Parrilla Rubio, Lucía - Predoctoral Researcher (R1)

Pérez Gómez, Eduardo - Doctoral Researcher (R3)

Ramírez Merino, Ángel - Doctoral Researcher (R3)

Rodríguez Castaño, Juan Diego - Bachelor Researcher

Sánchez Baltasar, Raquel - Predoctoral Researcher (R1)

Sánchez García, Cristina - Doctoral Researcher (R3)

Sánchez de Torre, Ana - Clinical Researcher

Sanz Ferrández, M^a Consuelo - Clinical Researcher

Seijo Vila, Marta - Predoctoral Researcher (R1)

Tejerizo García, Álvaro - Doctoral Researcher (R3)

Tolosa Ortega, Pablo - Predoctoral Researcher (R1)

Troncone Clemente, Claudia Sofía - Support Technician

Tundidor Pérez, Isabel - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	AECC	1
Non Competitive	Various	1
TOTAL		6

- Title:** Análisis de la eficacia de inhibidores de CDK4/6 en combinación con tratamiento hormonal en cáncer de mama luminal en relación con el subtipo intrínseco y marcadores de inmunidad.

Principal Investigator: Eva M^a Ciruelos Gil

Project No.: PI18/01408

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Los heterómeros HER2-CB2 como diana terapéutica y herramienta pronóstico/predictiva en cáncer de mama HER2 positivo.

Principal Investigator: Cristina García Sánchez

Project No.: PI17/00041

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** RASA1 y ERAS como nuevos genes causantes de cáncer de mama: estudios para nuevas terapias contra tumores triple negativo.

Principal Investigator: Ángel Ramírez Merino

Project No.: PI17/00578

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Análisis de expresión génica, de miRNA y proteica en muestras de pacientes con cáncer de mama avanzado con perfil mutacional conocido.

Principal Investigator: Eva M^a Ciruelos Gil

Project No.: PI15/01508

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/09/2019

- Title:** Comparación de la eficacia antitumoral de cannabinoides aislados frente a preparados completos de la planta.

Principal Investigator: Eduardo Pérez Gómez



Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)

Start date: 01/10/2017

End date: 30/09/2019

- **Title:** Pronostic and predictive immune gene signatures and correlation with homologous recombination deficiency in high grade serous ovarian cancer.

Principal Investigator: Luis Manuel Manso Sánchez

Funding Body: Tesaro

Start date: 16/01/2018

End date: 31/01/2019

Other Active Projects of the Research Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- **Title:** Anti-tumor effect of cannabinoids in HER2+ and triple negative breast cancer.

Principal Investigator: Cristina Sánchez García

Funding Body: Zelda Therapeutics Pty Ltd.

Start date: 01/04/2016

End date: 30/09/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	22	214.801
Reviews	3	9.728
TOTAL	25	224.529

- Ayala de la Peña F, Andrés R, Garcia-Sáenz JA, Manso L, Margelí M, Dalmau E, Pernas S, Prat A, Servitja S, Ciruelos E. SEOM clinical guidelines in early stage breast cancer (2018). *Clinical & Translational Oncology*. 2019; 21(1): 18-30. IF: 2.441 - Article.

- Gavila J, Oliveira M, Pascual T, Perez-Garcia J, Gonzalez X, Canes J, Pare L, Calvo I, Ciruelos E, Munoz M, Virizuela JA, Ruiz I, Andres R, Perello A, Martinez J, Morales S, Marin-Aguilera M, Martinez D, Quero JC, Llombart-Cussac A, Prat A. Safety, activity, and molecular heterogeneity following neoadjuvant non-pegylated liposomal doxorubicin, paclitaxel, trastuzumab,

and pertuzumab in HER2-positive breast cancer (Opti-HER HEART): an open-label, single-group, multicenter, phase 2 trial. *BMC Medicine*. 2019; 17(1): 8. IF: 8.285 - Article.

- Alameda JP, Ramirez A, Garcia-Fernandez RA, Navarro M, Page A, Segovia JC, Sanchez R, Suarez-Cabrera C, Paramio JM, Bravo A, Fernandez-Acenero MJ, Casanova ML. Premature aging and cancer development in transgenic mice lacking functional CYLD. *Aging-US*. 2019; 11(1): 127-59. IF: 5.515 - Article.

- Cazzaniga ME, Ciruelos E, Fabi A, Garcia-Saenz J, Lindman H, Mavroudis D, Schem C, Steger G, Timotheadou E, Zaman K, Torri V; MACBETH Group. Metastatic or locally advanced breast cancer patients: towards an expert consensus on nab-paclitaxel treatment in HER2-negative tumours—the MACBETH project. *Cancer Chemotherapy and Pharmacology*. 2019; 83(2): 301-18. IF: 3.008 - Article.

- Page A, Ortega A, Alameda JP, Navarro M, Paramio JM, Saiz-Pardo M, Almeida EI, Hernandez P, Fernandez-Acenero MJ, Garcia-Fernandez RA, Casanova ML, Page A, Ortega A, Alameda JP, Navarro M, Paramio JM, Saiz-Pardo M, Almeida EI. IKKa Promotes the Progression and Metastasis of Non-Small Cell Lung Cancer Independently of its Subcellular Localization. *Computational and Structural Biotechnology Journal*. 2019; 17: 251-62. IF: 4.720 - Article.

- Gonzalez-Rincon J, Mendez M, Gomez S, Garcia JF, Martin P, Bellas C, Pedrosa L, Rodriguez-Pinilla SM, Camacho FI, Quero C, Perez-Callejo D, Rueda A, Llanos M, Gomez-Codina J, Piris MA, Montes-Moreno S, Barcena C, Rodriguez-Abreu D, Menarguez J, De la Cruz-Merino L, Monsalvo S, Parejo C, Royuela A, Kwee I, Cascione L, Arribas A, Bertoni F, Mollejo M, Provencio M, Sanchez-Beato M. Unraveling transformation of follicular lymphoma to diffuse large B-cell lymphoma. *Plos One*. 2019; 14(2): e0212813. IF: 2.776 - Article.

- Blasco-Benito S, Moreno E, Seijo-Vila M, Tundidor I, Andrades C, Caffarel MM, Caro-Villalobos M, Uriguen L, Diez-Alarcia R, Moreno-Bueno G, Hernandez L, Manso L, Homar-Ruano P, McCormick PJ, Bibic L, Bernado-Morales C, Arribas J, Canals M, Casado V, Canela EI, Guzman M, Perez-Gomez E, Sanchez C. Therapeutic targeting of HER2-CB2R heteromers in HER2-positive breast cancer. *Proceedings of The National Academy of Sciences of The United States of America*. 2019; 116(9): 3863-72. IF: 9.580 - Article.

- Manso L, Moreno Anton F, Izarzugaza Peron Y, Delgado Mingorance JL, Borrega Garcia P, Echarri Gonzalez MJ, Martinez-Janez, N, Lopez-Gonzalez, A, Olier Garate C, Ballesteros Garcia A, Chacon Lopez-Muniz I, Ciruelos Gil E, Garcia-Saenz, JA, Paz-Ares L. Safety of eribulin as third-line chemotherapy in HER2-negative, advanced breast cancer pre-treated with taxanes and anthracycline: OnSITE study. *Breast Journal*. 2019; 25(2): 219-25. IF: 2.433 - Article.

- Bachelot T, Ciruelos E, Schneeweiss A, Puglisi F, Peretz-Yablonski T,

Bondarenko I, Paluch-Shimon S, Wardley A, Merot JL, du Toit Y, Easton V, Lindegger N, Miles D. Preliminary safety and efficacy of first-line pertuzumab combined with trastuzumab and taxane therapy for HER2-positive locally recurrent or metastatic breast cancer (PERUSE). *Annals of Oncology*. 2019; 30(5): 766-73. IF: 14.196 - Article.

- Andre F, Ciruelos E, Rubovszky G, Campone M, Loibl S, Rugo HS, Iwata H, Conte P, Mayer IA, Kaufman B, Yamashita T, Lu YS, Inoue K, Takahashi M, Papai Z, Longin AS, Mills D, Wilke C, Hirawat S, Juric D; SOLAR-1 Study Group. Alpelisib for PIK3CA -Mutated, Hormone Receptor-Positive Advanced Breast Cancer. *New England Journal of Medicine*. 2019; 380(20): 1929-40. IF: 70.670 - Article.

▪ Méndez-Liter JA, Tundidor I, Nieto-Dominguez M, de Toro BF, González Santana A, de Eugenio LI, Prieto A, Asensio JL, Cañada FJ, Sanchez C, Martinez MJ. Transglycosylation products generated by *Talaromyces amestolkiae* GH3 β-glucosidases: effect of hydroxytyrosol, vanillin and its glucosides on breast cancer cells. *Microbial Cell Factories*. 2019; 18(1): 97. IF: 4.402 - Article.

- Lago V, Fotopoulou C, Chiantera V, Minig L, Gil-Moreno A, Cascales-Campos PA, Jurado M, Tejerizo A, Padilla-Iserte P, Malune ME, Di Donna MC, Marina T, Sanchez-Iglesias JL, Olloqui A, Garcia-Granero A, Matute L, Fornes V, Domingo S. Risk factors for anastomotic leakage after colorectal resection in ovarian cancer surgery: A multi-centre study. *Gynecologic Oncology*. 2019; 153(3): 549-54. IF: 4.393 - Article.

- Prat A, Brase JC, Cheng Y, Nuciforo P, Pare L, Pascual T, Martinez D, Galvan P, Vidal M, Adamo B, Hortobagyi GN, Baselga J, Ciruelos E. Everolimus plus Exemestane for Hormone Receptor-Positive Advanced Breast Cancer: A PAM50 Intrinsic Subtype Analysis of BOLERO-2. *Oncologist*. 2019; 24(7): 893-900. IF: 5.252 - Article.

▪ Oliveira M, Saura C, Nuciforo P, Calvo I, Andersen J, Passos-Coelho JL, Gil MG, Bermejo B, Patt DA, Ciruelos E, de la Peña L, Xu N, Wongchenko M, Shi Z, Singel SM, Isakoff SJ. FAIRLANE, a double-blind placebo-controlled randomized phase II trial of neoadjuvant ipatasertib plus paclitaxel for early triple-negative breast cancer. *Annals of Oncology*. 2019; 30(8): 1289-97. IF: 14.196 - Article.

- Saura C, Hlauschek D, Oliveira M, Zardavas D, Jallitsch-Halper A, de la Peña L, Nuciforo P, Ballesterro A, Dubsky P, Lombard JM, Vuylsteke P, Castaneda CA, Colleoni M, Santos Borges G, Ciruelos E, Fornier M, Boer K, Bardia A, Wilson TR, Stout TJ, Hsu JY, Shi Y, Piccart M, Gnant M, Baselga J, de Azambuja E. Neoadjuvant letrozole plus taselisib versus letrozole plus placebo in postmenopausal women with oestrogen receptor-positive, HER2-negative, early-stage breast cancer (LORELEI): a multicentre, randomised, double-blind, placebo-controlled, phase 2 trial. *Lancet Oncology*. 2019; 20(9): 1226-38. IF: 35.386 - Article.

▪ Huober J, Holmes E, Baselga J, de Azambuja E, Untch M, Fumagalli D, Sarp S, Lang I, Smith I, Boyle F, Xu BH, Lecocq C, Wildiers H, Jouannaud C, Hackman J, Dasappa L, Ciruelos E, Toral Pena JC, Adamchuk H, Hickish T, de la Pena L, Jackisch C, Gelber RD, Piccart-Gebhart M, Di Cosimo, S. Survival outcomes of the NeoALTTO study (BIG 1-06): updated results of a randomised multicenter phase III neoadjuvant clinical trial in patients with HER2-positive primary breast cancer. *European Journal of Cancer*. 2019; 118: 169-77. IF: 6.680 - Article.

- Adamo B, Bellet M, Pare L, Pascual T, Vidal M, Pérez Fidalgo JA, Blanch S, Martínez N, Murillo L, Gómez-Pardo P, López-González A, Amillano K, Canes J, Galvan P, González-Farre B, González X, Villagrassa P, Ciruelos E, Prat A. Oral metronomic vinorelbine combined with endocrine therapy in hormone receptor-positive HER2-negative breast cancer: SOLTI-1501 VENTANA window of opportunity trial. *Breast Cancer Research*. 2019; 21(1): 108. IF: 6.142 - Article.

▪ Marin-Rubio JL, Perez-Gomez E, Fernandez-Piqueras J, Villa-Morales M. S194-P-FADD as a marker of aggressiveness and poor prognosis in human T-cell lymphoblastic lymphoma. *Carcinogenesis*. 2019; 40(10): 1260-8. IF: 4.004 - Article.

- Jimenez-Heffernan JA, Romero J, Barcena C, Cañizal JM, Jimenez-Heffernan JA, Romero J, Barcena C, Cañizal JM. Cytological features of rosette-forming glioneuronal tumor of the fourth ventricle. *Diagnostic Cytopathology*. 2019; 47(10): 1082-5. IF: 1.402 - Article.

▪ García Rojo E, González Padilla DA, Castelo Loureiro A, Parrilla Rubio L, Tejido Sánchez Á, Guerrero Ramos F. New case of secondary bladder amyloidosis with massive hematuria-role of intravesical instillations with dimethyl sulfoxide. *Translational Andrology and Urology*. 2019; 8(5): 548-55. IF: 2.113 - Article.

- Ciruelos E, Apellániz-Ruiz M, Cantos B, Martínez-J N, Bueno-Muñoz C, Echarri MJ, Enrich S, Guerra JA, Manso L, Pascual T, Domínguez C, Gonzalo JF, Sanz JL, Rodríguez-Antona C, Sepúlveda JM. A Pilot, Phase II, Randomized, Open-Label Clinical Trial Comparing the Neurotoxicity of Three Dose Regimens of Nab-Paclitaxel to That of Solvent-Based Paclitaxel as the First-Line Treatment for Patients with Human Epidermal Growth Factor Receptor Type 2-Negative Metastatic Breast Cancer. *Oncologist*. 2019; 24(11): 1024-33. IF: 5.252 - Article.

▪ Ciruelos EM, Diaz MN, Isla MD, Lopez R, Bernabe R, Gonzalez E, Cirauqui B, Coves J, Morales S, Arcediano A, Barneto I, Cerezoa P, Illarramendi JJ, Morales C, Ponce S. Patient preference for oral chemotherapy in the treatment of metastatic breast and lung cancer. *European Journal of Cancer Care*. 2019; 28(6): e13164. IF: 2.421 - Article.

- Rojas LK, Trilla-Fuertes L, Gamez-Pozo A, Chiva C, Sepulveda J, Manso L, Prado-Vazquez G, Zapater-Moros A, Lopez-Vacas R, Ferrer-Gomez

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

M, Mendiola C, Espinosa E, Sabido E, Ciruelos E, Vara JAF. Proteomics characterisation of central nervous system metastasis biomarkers in triple negative breast cancer. *Ecancermedicalscience*. 2019; 13: 891. IF: N/A - Article.

▪ Perez-Fidalgo JA, Iglesias M, Bohn U, Calvo E, Garcia Y, Guerra E, Manso L, Santaballa A, Gonzalez-Martin A. GEICO1601-ROLANDO: a multicentric single arm Phase II clinical trial to evaluate the combination of olaparib and pegylated liposomal doxorubicin for platinum-resistant ovarian cancer. *Future Science Oa*. 2019; 5(2): FS0370. IF: N/A - Article.

▪ Sanchez-Rovira P, Zamora P, Salvador-Bofill J, Morales S, Martinez-Janez N, Martinez-de-Duenas E, Lluch A, Illarramendi JJ, Gomez-Pardo P, Gavilá Gregori J, Garcia-Palomino A, Garcia-Mata J, Fernandez Y, del Barco S, de Juan A, Ciruelos E, Chacon JL, Calvo L, Barnadas A, Albanel J. Broad consensus on the optimal sequence for the systemic treatment of metastatic breast cancer: results from a survey of Spanish medical oncologists. *Journal of Drug Assessment*. 2019; 8(1): 62-9. IF: N/A - Article.

▪ Ciruelos E, Alba E, López R, Lluch A, Martín M, Arroyo I, Navarro B, Carcedo D, Colomer R, Albanel J. Contribution of trastuzumab to the prognostic improvement of HER2-positive early breast cancer in Spain: an estimation of life years and disease-free life years gained since its approval. *Oncotarget*. 2019; 10(42): 4321-32. IF: N/A - Article.

▪ Cristofanilli M, Pierga JY, Reuben J, Rademaker A, Davis AA, Peeters DJ, Fehm T, Nole F, Gisbert-Criado R, Mavroudis D, Grisanti S, Giuliano M, Garcia-Saenz JA, Stebbing J, Caldas C, Gazzaniga P, Manso L, Zamarchi R, de Lascoiti AF, de Mattos-Arruda L, Ignatiadis M, Cabel L, van Laere SJ, Meier-Stiegen F, Sandri MT, Vidal-Martinez J, Politaki E, Consoli F, Generali D, Cappelletti MR, Diaz-Rubio E, Krell J, Dawson SJ, Raimondi C, Rutten A, Janni W, Munzone E, Caranana V, Agelaki S, Almici C, Dirix L, Solomayer EF, Zorzino L, Darrigues L, Reis JS, Gerratana L, Michiels S, Bidard FC, Pantel K. The clinical use of circulating tumor cells (CTCs) enumeration for staging of metastatic breast cancer (MBC): International expert consensus paper. *Critical Reviews in Oncology Hematology*. 2019; 134: 39-45. IF: 5.012 - Review.

- Ciruelos E, Pérez-García JM, Gavilá J, Rodríguez A, de la Haba-Rodríguez J. Maintenance Therapy in HER2-Negative Metastatic Breast Cancer: A New Approach for an Old Concept. *Clinical Drug Investigation*. 2019; 39(7): 595-606. IF: 2.158 - Review.
- Lopez-Gomez, V, Yarza R, Munoz-Gonzalez H, Revilla E, Enrech S, Gonzalez-Valle O, Tolosa P, Ciruelos E. Ribociclib-Related Stevens-Johnson Syndrome: Oncologic Awareness, Case Report, and Literature Review. *Journal of Breast Cancer*. 2019; 22(4): 661-6. IF: 2.558 - Review.

End Master Investigations Directed on the Group

▪ Student: Sandra Adámez

Title: Papel de la enzima amidohidrolasa de ácidos grasos en la fisiopatología de la mama

Directors: Cristina Sánchez García, Eduardo Pérez Gómez

Master: Máster en Biología Sanitaria (UCM)

▪ Student: Clàudia Gil Pitarch

Title: Implicación de miR-205 en la reversión del fenotipo tumoral inducido por ERAS en células MCF10A

Director: José Manuel Navarro Espinel

Master: Máster en investigación en Medicina Traslacional (UCM)

End Graduated Investigations Directed on the Group

▪ Student: María Rubert

Title: Nuevas herramientas para la detección de heterómeros HER2-CB2R

Directors: Cristina Sánchez García, Eduardo Pérez Gómez

Degree: Bioquímica (UCM)

DIGESTIVE CANCER

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: García Carbonero, Rocío (R4)

Adeva Alfonso, Jorge - Clinical Researcher

Carretero Puche, Carlos - Predoctoral Researcher (R1)

Espinosa Olarte, Paula - Predoctoral Researcher (R1)

Gil Calderón, Beatriz - Support Technician

Gómez Esteves, Genoveva - Predoctoral Researcher (R1)

Gómez Martín, Carlos Jesús - Postdoctoral Researcher (R2)

La Salvia, Anna - Researcher

Lens Parto, Alberto - Predoctoral Researcher (R1)

Riesco Martínez, Mª del Carmen - Postdoctoral Researcher (R2)

Rincón Sánchez, Raul - Postdoctoral Researcher (R2)

Robles Díaz, Luis - Clinical Researcher

Rodríguez Gil, Yolanda - Postdoctoral Researcher (R2)

Rubio Cuesta, Beatriz - Predoctoral Researcher (R1)

Rueda Fernández, Daniel - Doctoral Researcher (R3)

Sarmiento Estrada, Jacinto - Support Technician

Soldevilla Navarro, Beatriz - Postdoctoral Researcher (R2)

Tapial Santos, Sandra - Predoctoral Researcher (R1)

Project No.: PI16/01650

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

▪ **Title:** Diagnóstico diferencial de los nódulos hepatocelulares mediante técnicas inmunohistoquímicas, moleculares y ultraestructura. aplicación al diagnóstico y caracterización del carcinoma hepatocelular.

Principal Investigator: Yolanda Rodríguez Gil

Project No.: FMM 2013/0076

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Start date: 27/07/2013

End date: 26/07/2015, extended to 31/12/2020

▪ **Title:** Subestudio de biomarcadores asociados al ensayo clínico phase II/ III randomized, double-blind study of Sandostatin Lar in combination with Axitinib versus placebo in patients with progressive advanced G1-G2 neuroendocrine tumors of non-pancreatic origin.

Principal Investigator: Rocío García Carbonero

Funding Body: Grupo Español de Tumores Neuroendocrinos

Start date: 17/10/2016

End date: 16/10/2021

▪ **Title:** Estudio del perfil metabolómico en tumores neuroendocrinos gastro-intestinales.

Principal Investigator: Beatriz Soldevilla Navarro

Funding Body: Grupo Español de Tumores Neuroendocrinos

Start date: 01/01/2019

End date: 31/12/2020

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	FMM	1
Non Competitive	Various	2
TOTAL		6

▪ **Title:** Caracterización molecular para la selección terapéutica personalizada en el tratamiento.

Principal Investigator: Carlos Jesús Gómez Martín

Project No.: PI18/00752

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Activación de SRC en cáncer colorectal: estudio funcional y utilidad como biomarcador en la clínica.

Principal Investigator: Rocío García Carbonero

Project No.: PI16/01827

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

▪ **Title:** Estudio clínico y molecular del complejo Nomo / Nicalina / Temem147 y la vía nodal en cáncer colorrectal.

Principal Investigator: José Perea García

Other Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Title: A Phase II/III Randomized Double-blind Study of Sandostatin LAR in Combination With Axitinib Versus Sandostatin LAR With Placebo in Patients With Advanced G1-G2 Neuroendocrine Tumours (WHO 2010) of Non-pancreatic Origin.

Principal Investigator: Rocío García Carbonero

Funding Body: Pfizer S.L.U.

Start date: 2011

End date: 2021

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	28	211.992
Reviews	3	14.097
TOTAL	31	226.089
Letters	1	5.574
TOTAL	32	231.663

▪ Capdevila J, Teulé A, Barriuso J, Castellano D, Lopez C, Manzano JL, Alonso V, García-Carbonero R, Dotor E, Matos I, Custodio A, Casanovas O, Salazar R, EVERLAR study investigators. Phase II Study of Everolimus and Octreotide LAR in Patients with Nonfunctioning Gastrointestinal Neuroendocrine Tumors: The GETNE1003_EVERLAR Study. *Oncologist*. 2019; 24(1): 38-46. IF: 5.252 - Article.

▪ Yoshino T, Portnoy DC, Obermannova R, Bodoky G, Prausova J, Garcia-Carbonero R, Ciuleanu T, Garcia-Alfonso P, Cohn AL, Van Cutsem E, Yamazaki K, Lonardi S, Muro K, Kim TW, Yamaguchi K, Grothey A, O'Connor J, Taieb J, Wijayawardana SR, Hozak RR, Nasrullah F, Tabernero J. Biomarker analysis beyond angiogenesis: RAS/RAF mutation status, tumour sidedness, and second-line ramucirumab efficacy in patients with metastatic colorectal carcinoma from RAISE-a global phase III study. *Annals of Oncology*. 2019; 30(1): 124-31. IF: 14.196 - Article.

▪ Sorbye H, Baudin E, Borbath I, Caplin M, Chen J, Cwikla JB, Frilling A, Grossman A, Kaltsas G, Scarpa A, Welin S, Garcia-Carbonero R; ENETS 2016 Munich Advisory Board Participants. Unmet Needs in High-

Grade Gastroenteropancreatic Neuroendocrine Neoplasms (WHO G3). *Neuroendocrinology*. 2019; 108(1): 54-62. IF: 6.804 - Article.

▪ Baudin E, Hayes AR, Scoazec JY, Filosso PL, Lim E, Kaltsas G, Frilling A, Chen J, Kos-Kudla B, Gorbunova V, Wiedenmann B, van Dijkum EN, Cwikla JB, Falkerby J, Valle JW, Kulke MH, Caplin ME, Detlef B, Rudolf A, Eric B, Lisa B, Ivan B, Jaume C, Martyn C, Jie C, Frederico C, Anne C, Jaroslaw BC, Philippa D, de Herder WW, Massimo F, Jenny F, Nicola F, Diego F, Andrea F, Rocio GC, Simona G, Vera G, Ashley G, Dieter H, Robert J, Gregory K, Gunter K, Peter KU, Beata KK, Guenter JK, Eric K, Matthew K, Steven WJL, Elisabeth NV, Manuel OJ, Dermot O, Ulrich-Frank P, Stefano P, Ellen PM, Marc P, John R, Nicholas R, Guido R, Anja R, Philippe R, Halfdan S, Anders S, Jean-Yves S, Babs GT, Eva TJ, Christos T, Juan V, Marie-Pierre V, Staffan W, Bertram W; ENETS 2016 Munich Advisory Board. Unmet Needs in Appendiceal Neuroendocrine Neoplasms. *Neuroendocrinology*. 2019; 108(1): 37-44. IF: 6.804 - Article.

▪ Capdevila J, Bodei L, Davies P, Gorbunova V, Jensen RT, Knigge UP, Krejs GJ, Krenning E, O'Connor JM, Peeters M, Rindi G, Salazar R, Vullierme MP, Pavel ME, Arnold R, Bartsch D, Baudin E, Bodei L, Borbath I, Capdevila J, Caplin M, Chen J, Costa F, Couvelard A, Cwikla JB, Davies P, de Herder WW, Falconi M, Falkerby J, Fazio N, Ferone D, Frilling A, Garcia-Carbonero R, Glasberg S, Gorbunova V, Grossman A, Horsch D, Jensen RT, Kaltsas G, Kloppel G, Knigge UP, Kos-Kudla B, Krejs GJ, Krenning E, Kulke M, Lamberts SWJ, van Dijkum EN, O'Connor JM, O'Toole D, Pape UF, Partelli S, Pavel ME, Peeters M, Ramage J, Reed NSB, Rindi G, Rinke A, Ruszniewski P, Sorbye H, Sundin A, Scoazec JY, Taal BG, Tiensuu JE, Toumpanakis C, Valle JW, Vullierme MP, Welin S, Wiedenmann B; ENETS 2016 Munich Advisory Board. Unmet Medical Needs in Metastatic Lung and Digestive Neuroendocrine Neoplasms. *Neuroendocrinology*. 2019; 108(1): 18-25. IF: 6.804 - Article.

▪ Jensen RT, Bodei L, Capdevila J, Couvelard A, Falconi M, Glasberg S, Kloppel G, Lamberts S, Peeters M, Rindi G, Rinke A, Rothmund M, Sundin A, Welin S, Fazio N, Rudolf A, Detlef B, Eric B, Lisa B, Ivan B, Jaume C, Martyn C, Jie C, Frederico C, Anne C, Jaroslaw BC, Philippa D, de Herder WW, Massimo F, Jenny F, Nicola F, Diego F, Andrea F, Rocio GC, Simona G, Vera G, Ashley G, Dieter H, Robert TJ, Gregory K, Gunter K, Peter KU, Beata KK, Guenter JK, Eric K, Steven WJL, Elisabeth NV, Manuel OJ, Dermot O, Ulrich-Frank P, Stefano P, Ellen PM, Marc P, John R, Simon RN, Guido R, Anja R, Philippe R, Jean-Yves S, Halfdan S, Anders S, Babs GT, Eva TJ, Christos T, Juan V, Marie-Pierre V, Staffan W, Bertram W; ENETS 2016 Munich Advisory Board. Unmet Needs in Functional and Nonfunctional Pancreatic Neuroendocrine Neoplasms. *Neuroendocrinology*. 2019; 108(1): 26-36. IF: 6.804 - Article.

▪ Toumpanakis C, Fazio N, Janson ET, Horsch D, Pascher A, Reed N, O'Toole D, Dijkum EN, Partelli S, Rinke A, Kos-Kudla B, Costa F, Pape UF, Grozinsky-Glasberg S, Scoazec JY, Detlef B, Rudolf A, Eric B, Lisa B, Ivan B, Jaume C, Martyn C, Jie C, Frederico C, Anne C, Jaroslaw BC, de Herder WW, Massimo F, Jenny F, Nicola F, Diego F, Andrea F, Rocio GC, Simona G, Vera G, Ashley G,

Dieter H, Robert J, Gregory K, Gunter K, Peter KU, Beata KK, Guenter JK, Eric K, Matthew K, Steven WJL, Elisabeth NV, Manuel OJ, Dermot O, Ulrich-Frank P, Stefano P, Ellen PM, Marc P, John R, Nicholas R, Guido R, Anja R, Philippe R, Halfdan S, Anders S, Jean-Yves S, Babs GT, Eva TJ, Christos T, Juan V, Marie-Pierre V, Staffan W, Bertram W; ENETS 2016 Munich Advisory Board. Unmet Needs in Appendiceal Neuroendocrine Neoplasms. *Neuroendocrinology*. 2019; 108(1): 37-44. IF: 6.804 - Article.

▪ Ramage JK, Valle JW, Dijkum EJMN, Sundin A, Pascher A, Couvelard A, Kloeppele G, Bartsch D, Arnold R, Baudin E, Bodei L, Borbath I, Capdevila J, Caplin M, Chen J, Costa F, Couvelard A, Cwikla JB, Davies P, de Herder WW, Falconi M, Falkerby J, Fazio N, Ferone D, Frilling A, Garcia-Carbonero R, Glasberg S, Gorbunova V, Grossman A, Horsch D, Jensen RT, Kaltsas G, Kloppel G, Kinge UP, Kos-Kudla B, Krejs GJ, Krenning E, Kulke M, Lamberts SWJ, van Dijkum EJMN, O'Connor JM, O'Toole D, Pape UF, Partelli S, Pavel ME, Peeters M, Ramage JK, Reed NSB, Rindi G, Rinke A, Ruszniewski P, Sorbye H, Sundin A, Scoazec JY, Taal BG, Janson ET, Toumpanakis C, Valle JW, Vullierme MP, Staffan W, Wiedenmann B; ENETS 2016 Munich Advisory Board. Colorectal Neuroendocrine Neoplasms: Areas of Unmet Need. *Neuroendocrinology*. 2019; 108(1): 45-53. IF: 6.804 - Article.

▪ Gonzalez-Flores E, Serrano R, Sevilla I, Viudez A, Barriuso J, Benavent M, Capdevila J, Jimenez-Fonseca P, Lopez C, Garcia-Carbonero R. SEOM clinical guidelines for the diagnosis and treatment of gastroenteropancreatic and bronchial neuroendocrine neoplasms (NENs) (2018). *Clinical & Translational Oncology*. 2019; 21(1): 55-63. IF: 2.441 - Article.

▪ La Salvia A, Lopez-Gomez V, Garcia-Carbonero R. HER2-targeted therapy: an emerging strategy in advanced colorectal cancer. *Expert Opinion on Investigational Drugs*. 2019; 28(1): 29-38. IF: 4.031 - Article.

▪ Gonzalez-Granado LI, Ruiz-Garcia R, Blas-Espada J, Moreno-Villares JM, German-Diaz M, Lopez-Nevado M, Paz-Artal E, Toldos O, Rodriguez-Gi, Y, de Inocencio J, Dominguez-Pinilla N, Allende LM. Acquired and Innate Immunity Impairment and Severe Disseminated Mycobacterium genavense Infection in a Patient with a NF-kappa B1 Deficiency. *Frontiers in Immunology*. 2019; 9: 3148. IF: 4.716 - Article.

▪ Alvaro E, Cano JM, Garcia JL, Branderiz L, Olmedillas-Lopez S, Arriba M, Rueda D, Rodriguez Y, Canete A, Arribas J, Inglada-Perez L, Perez J, Gomez C, Garcia-Arranz M, Garcia-Olmo D, Goel A, Urioste M, Gonzalez-Sarmiento R, Perea J. Clinical and Molecular Comparative Study of Colorectal Cancer Based on Age-of-Onset and Tumor Location: Two Main Criteria for Subclassifying Colorectal Cancer. *International Journal of Molecular Sciences*. 2019; 20(4): 968. IF: 4.183 - Article.

▪ Vidal J, Bellosillo B, Santos Vivas C, Garcia-Alfonso P, Carrato A, Cano MT, Garcia-Carbonero R, Elez E, Losa F, Massuti B, Valladares-Ayerbe M, Vieitez JM, Manzano JL, Azuara D, Gallego J, Pairet S, Capella G, Salazar R, Tabernero J, Aranda E, Montagut C. Ultra-selection of metastatic colorectal

cancer patients using next-generation sequencing to improve clinical efficacy of anti-EGFR therapy. *Annals of Oncology*. 2019; 30(3): 439-46. IF: 14.196 - Article.

▪ Perea J, Garcia JL, Corchete L, Lumbreras E, Arriba M, Rueda D, Tapia S, Perez J, Vieiro V, Rodriguez Y, Branderiz L, Garcia-Arranz M, Garcia-Olmo D, Goel A, Urioste M, Sarmiento RG. Redefining synchronous colorectal cancers based on tumor clonality. *International Journal of Cancer*. 2019; 144(7): 1596-608. IF: 4.982 - Article.

▪ Gallon R, Muhlegger B, Wenzel SS, Sheth H, Hayes C, Aretz S, Dahan K, Foulkes W, Kratz CP, Ripperger T, Azizi AA, Feldman HB, Chong AL, Demirsoy U, Florkin B, Imschweiler T, Januszewicz-Lewandowska D, Lobitz S, Nathrath M, Pander HJ, Perez-Alonso V, Perne C, Ragab I, Rosenbaum T, Rueda D, Seidel MG, Suerink M, Taeubner J, Zimmermann SY, Zschocke J, Borthwick GM, Burn J, Jackson MS, Santibanez-Koref M, Wimmer K. A sensitive and scalable microsatellite instability assay to diagnose constitutional mismatch repair deficiency by sequencing of peripheral blood leukocytes. *Human Mutation*. 2019; 40(5): 649-55. IF: 4.453 - Article.

▪ Santos C, Azuara D, Vieitez JM, Paez D, Falco E, Elez E, Lopez-Lopez C, Valladares M, Robles-Diaz L, Garcia-Alfonso P, Buges C, Duran G, Salud A, Navarro V, Capella G, Salazar R, Aranda E. Phase II study of high-sensitivity genotyping of KRAS, NRAS, BRAF and PIK3CA to ultra-select metastatic colorectal cancer patients for panitumumab plus FOLFI: the ULTRA trial. *Annals of Oncology*. 2019; 30(5): 796-803. IF: 14.196 - Article.

▪ Melisi D, Garcia-Carbonero R, Macarulla T, Pezet D, Deplanque G, Fuchs M, Trojan J, Kozloff M, Simionato F, Cleverly A, Smith C, Wang S, Man M, Driscoll KE, Estrem ST, Lahn MMF, Benhadji KA, Tabernero J, Melisi D, Garcia-Carbonero R, Macarulla T, Pezet D, Deplanque G, Fuchs M, Trojan J, Kozloff M, Simionato F, Cleverly A, Smith C, Wang S, Man M, Driscoll KE, Estrem ST, Lahn MMF, Benhadji KA, Tabernero J. TGFbeta receptor inhibitor galunisertib is linked to inflammation- and remodeling-related proteins in patients with pancreatic cancer. *Cancer Chemotherapy and Pharmacology*. 2019; 83(5): 975-91. IF: 3.008 - Article.

▪ Arriba M, Sanchez Garcia Carmen, Vivas A, Nutu OA, Rueda D, Tapia S, Rodriguez Y, Branderiz L, Garcia JL, Garcia-Olmo D, Goel A, Gonzalez-Sarmiento R, Urioste M, Perea J. Intermediate-onset colorectal cancer: A clinical and familial boundary between both early and late-onset colorectal cancer. *Plos One*. 2019; 14(5): e0216472. IF: 2.776 - Article.

▪ Lorca V, Rueda D, Martin-Morales L, Fernandez-Acenero MJ, Groleman J, Poves C, Llovet P, Tapia S, Garcia-Barberan V, Sanz, J, Perez-Segura P, de Voer RM, Diaz-Rubio E, de la Hoya M, Caldes T, Garre P. Contribution of New Adenomatous Polyposis Predisposition Genes in an Unexplained Attenuated Spanish Cohort by Multigene Panel Testing. *Scientific Reports*. 2019; 9(1): 9814. IF: 4.011 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

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- Garcia-Carbonero R, Marquez-Rodas I, de la Cruz-Merino L, Martinez-Trufero J, Cabrera MA, Piulats JM, Capdevila J, Grande E, Martin-Algarra S, Berrocal A. Recent Therapeutic Advances and Change in Treatment Paradigm of Patients with Merkel Cell Carcinoma. *Oncologist*. 2019; 24(10): 1375-83. IF: 5.252 - Article.
- Solis-Hernandez MP, Fernandez Del Valle A, Carmona-Bayonas A, Garcia-Carbonero R, Custodio A, Benavent M, Alonso Gordoa T, Nuñez-Valdovino B, Sanchez Canovas M, Matos I, Alonso V, Lopez C, Viudez A, Izquierdo M, Calvo-Temprano D, Grande E, Capdevila J, Jimenez-Fonseca P. Evaluating radiological response in pancreatic neuroendocrine tumours treated with sunitinib: comparison of Choi versus RECIST criteria (CRIPNET_GETNE1504 study). *British Journal of Cancer*. 2019; 121(7): 537-44. IF: 5.416 - Article.
- Wong WWL, Zargar M, Berry SR, Ko YJ, Riesco-Martinez M, Chan KKW, Wong WWL, Zargar M, Berry SR, Ko YJ, Riesco-Martinez M, Chan KKW. Cost-effectiveness analysis of selective first-line use of biologics for unresectable RAS wild-type left-sided metastatic colorectal cancer. *Current Oncology*. 2019; 26(5): 597-609. IF: 1.862 - Article.
- Fernandez-Martos C, Pericay C, Losa F, Garcia-Carbonero R, Layos L, Rodriguez-Salas N, Martin-Richard M, Alonso-Orduna V, Vera R, Gallego J, Capdevila J, Salud A, Nogue M, Maurel J, Guash I, Montagut C, Lopez C, Macias I, Jain RK, Garcia-Albeniz X. Effect of Afibbercept Plus Modified FOLFOX6 Induction Chemotherapy Before Standard Chemoradiotherapy and Surgery in Patients With High-Risk Rectal Adenocarcinoma: The GEMCAD 1402 Randomized Clinical Trial. *JAMA oncology*. 2019; 5(11): 1566-73. IF: 22.416 - Article.
- Soldevilla B, Carretero-Puche C, Gomez-Lopez G, Al-Shahrour F, Riesco MC, Gil-Calderon B, Alvarez-Vallina L, Espinosa-Olarte P, Gomez-Esteves G, Rubio-Cuesta B, Sarmentero J, La Salvia A, Garcia-Carbonero R. The correlation between immune subtypes and consensus molecular subtypes in colorectal cancer identifies novel tumour microenvironment profiles, with prognostic and therapeutic implications. *European Journal of Cancer*. 2019; 123: 118-29. IF: 6.680 - Article.
- Suerink M, Rodriguez-Girondo M, van der Klift HM, Colas C, Brugieres L, Lavoine N, Jongmans M, Munar GC, Evans DG, Farrell MP, Genuardi M, Goldberg Y, Gomez-Garcia E, Heinemann K, Hoell JI, Aretz S, Jasperson KW, Kedar I, Modi MB, Nikolaev S, van Os TAM, Ripperger T, Rueda D, Senter L, Sjursen W, Sunde L, Therkildsen C, Tibiletti MG, Trainer AH, Vos YJ, Wagner A, Winship I, Wimmer K, Zimmermann SY, Vasen HF, van Asperen CJ, Houwing-Duistermaat JJ, ten Broeke SW, Nielsen M. An alternative approach to establishing unbiased colorectal cancer risk estimation in Lynch syndrome. *Genetics in Medicine*. 2019; 21(12): 2706-12. IF: 8.683 - Article.
- Garcia JP, Arribas J, Canete A, Garcia JL, Alvaro E, Tapial S, Narvaez C, Vivas A, Branderiz L, Hernandez-Villafranca S, Rueda D, Rodriguez Y, Perez-Garcia J, Olmedillas-Lopez S, Garcia-Olmo D, Cavestro GM, Urioste M, Goel A, Gonzalez-Sarmiento R. Association of Polyps with Early-Onset Colorectal Cancer and Throughout Surveillance: Novel Clinical and Molecular Implications. *Cancers*. 2019; 11(12): 1900. IF: 6.162 - Article.
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- Cardone C, Martinelli E, Troiani T, Sforza V, Avallone A, Nappi A, Montesarchio V, Andreozzi F, Biglietto M, Calabrese F, Bordonaro R, Cordio S, Bregni G, Febbraro AN, Garcia-Carbonero R, Feliu J, Cervantes A, Ciardiello F. Exploratory findings from a prematurely closed international, multicentre, academic trial: RAVELLO, a phase III study of regorafenib versus placebo as maintenance therapy after first-line treatment in RAS wild-type metastatic colorectal cancer. *Esmo Open*. 2019; 4(4): e000519. IF: N/A - Article.
- Grande E, Diaz A, Lopez C, Munarriz J, Reina JJ, Vera R, Bernardez B, Aller J, Capdevila J, Garcia-Carbonero R, Jimenez Fonseca P, Trapero-Bertran M.

Patents

- **Title:** Biomarcador para el diagnóstico, pronóstico y seguimiento de cáncer colorrectal de aparición precoz.
Number: EP16877841.3.
Type: EFN PCT, European patent.
Inventors: José Perea García, Daniel Rueda Fernández, María Arriba Doménech, Miguel Urioste Azcorra, Juan Luis García Hernández, Jessica Pérez García, Rogelio González Sarmiento.
Owners: Fundación i+12 (25%), Fundación Centro Nacional de Investigaciones Oncológicas (CNIO) (25%), Fundación Instituto de Estudios de Ciencias de la Salud de Castilla y León (25%), Universidad de Salamanca (25%).
Date of application: 23/07/2018

IMMUNOONCOLOGY AND IMMUNOTHERAPY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Álvarez Vallina, Luis (R4)

Blanco Durango, Belén - Doctoral Researcher (R3)

Díez Alonso, Laura - Predoctoral Researcher (R1)

Domínguez Alonso, Carmen - Predoctoral Researcher (R1)

Erce Llamazares, Ainhoa - Predoctoral Researcher (R1)

Hangiu, Oana - Predoctoral Researcher (R1)

Morales Pérez, Pablo - Doctoral Researcher (R3)

Nehme Álvarez, Daniel - Predoctoral Researcher (R1)

Ramírez Fernández, Ángel - Predoctoral Researcher (R1)

Yarza Barrio, Ramón - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	MINECO	2
Competitive	AECC	1
Non Competitive	Fundación CRIS	1
TOTAL		4

- **Title:** Inmunoterapia de cánceres epiteliales metastáticos con linfocitos T infiltrantes de tumor secretores de anticuerpos biespecíficos.

Principal Investigator: Luis Álvarez Vallina

Project No.: PROYE19084

Funding Body: Fundacion Cientifica de la Asociacion Española Contra el Cancer (AECC)

Start date: 01/12/2019

End date: 31/11/2022

- **Title:** Inmunoterapia de tumores sólidos con células T secretoras de anticuerpos biespecíficos anti-CEA X anti-CD3 y receptores PD-1 solubles.

Principal Investigator: Luis Álvarez Vallina

Project No.: SAF2017-89437-P

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2018

End date: 31/12/2020

- **Title:** ATTACK- Inmunoterapia del cáncer mediante anticuerpos biespecíficos que reclutan linfocitos T.

Principal Investigator: Luis Álvarez Vallina

Project No.: RTC-2017-5944-1

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2018

End date: 31/12/2020

- **Title:** Precision inmuno-oncología y nuevas terapias inmunes en el cáncer: "immunoengineering for immunotherapy (IFI)".

Principal Investigator: Luis Álvarez Vallina

Funding Body: Fundación CRIS de investigación contra el cáncer

Start date: 20/01/2018

End date: 19/01/2021

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	5	25.009
Reviews	2	15.558
TOTAL	7	40.567

- Roda-Navarro P, Alvarez-Vallina L. Understanding the Spatial Topology of Artificial Immunological Synapses Assembled in T Cell-Redirecting Strategies: A Major Issue in Cancer Immunotherapy. *Frontiers in Cell and Developmental Biology*. 2019; 7: 370. IF: 5.206 - Article.

- Rios X, Compte M, Gomez-Vallejo V, Cossio U, Baz Z, Morcillo MA, Ramos-Cabrer P, Alvarez-Vallina L, Llop J. Immuno-PET Imaging and

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Soldevilla B, Carretero-Puche C, Gomez-Lopez G, Al-Shahrour F, Riesco MC, Gil-Calderon B, Alvarez-Vallina L, Espinosa-Olarde P, Gomez-Esteves G, Rubio-Cuesta B, Sarmentero J, La Salvia A, Garcia-Carbonero R. The correlation between immune subtypes and consensus molecular subtypes in colorectal cancer identifies novel tumour microenvironment profiles, with prognostic and therapeutic implications. *European Journal of Cancer*. 2019; 123: 118-29. IF: 6.680 - Article.
- Blanco B, Compte M, Lykkemark S, Sanz L, Alvarez-Vallina L. T Cell-Redirecting Strategies to 'STAB' Tumors: Beyond CARs and Bispecific Antibodies. *Trends in Immunology*. 2019; 40(3): 243-57. IF: 13.000 - Review.
- Lopez-Gomez V, Yarza R, Munoz-Gonzalez H, Revilta E, Enrech S, Gonzalez-Valle O, Tolosa P, Ciruelos E. Ribociclib-Related Stevens-Johnson Syndrome: Oncologic Awareness, Case Report, and Literature Review. *Journal of Breast Cancer*. 2019; 22(4): 661-6. IF: 2.558 - Review.



LYMPHOID DIFFERENTIATION

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Zapata González, Agustín (R4)

Alfaro Sánchez, David - Postdoctoral Researcher (R2)

Cortes Peña, Alfonso - Support Technician

García-Ceca Hernández, José Javier - Postdoctoral Researcher (R2)

Hernández López, Carmen - Support Technician

Montero Herradon, Sara - Predoctoral Researcher (R1)

Muñoz Oliveira, Juan José - Support Technician

Active Projects of the Research Group Not
Managed by Fundación para la
Investigación Biomédica del Hospital 12
de Octubre (FIBH120)

- **Title:** Una re-evaluación del papel de Foxn1 y del componente linfoide en el establecimiento de un sistema T funcionalmente maduro (NIDT, Nuevas Interpretaciones sobre el Desarrollo Tímico).

Principal Investigator: Agustín Gregorio Zapata González

Project No.: RTI2018-093938-B-100

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2019

End date: 31/12/2021

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	1	2.640
TOTAL	1	2.640

- Muñoz JJ, Tobajas E, Juara S, Montero S, Zapata AG, Muñoz JJ, Tobajas E, Juara S, Montero S, Zapata AG. FoxN1 mediates thymic cortex-medulla differentiation through modifying a developmental pattern based on epithelial tubulogenesis. *Histochemistry and Cell Biology*. 2019; 152(6): 397-413. IF: 2.640 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

AREA 2. CHRONIC DISEASES AND TRANSPLANTATION

COORDINATOR: MANUEL PRAGA TERENTE

Ageing, Neuroimmunology, and Nutrition

Respiratory Diseases

Bone Metabolism, Diabetes, and Nutrition

Clinical Nephrology

Pulmonary Surfactant and Respiratory Diseases

Male's Integral Health

Tissue Engineering

Abdominal Organ Transplant

Critical Patient

Kidney Transplant





Most of the research groups that make up the "Chronic Diseases and Transplantation" Area are consolidated groups, with a notable scientific production that has been constant over the years. They have an outstanding capacity for attracting resources, have a satisfactory presence in national and international research networks and play a leading role in several of these networks and in national and international projects.

General objectives of cooperative development in this area

- To strengthen the interrelationship between the various groups in the Area and between the Area and other Research Areas of the Institute** - The interrelationship achieved between the "Kidney Transplant" and "Abdominal Organ Transplant" groups with the "Clinical Nephrology", "Ageing, Neuroimmunology and Nutrition", "Tissue Engineering" and "Bone Metabolism, Diabetes and Nutrition" groups should be highlighted. Cross-cutting activity has also increased between the "Clinical Nephrology", "Ageing, Neuroimmunology and Nutrition", "Tissue Engineering" and "Bone Metabolism, Diabetes and Nutrition" groups. Likewise, cross-cutting activities between groups in the Area and groups belonging to other Areas of the Institute have been significantly strengthened.
- To promote clinical research by the Transplant groups, with a methodology that allows for the publication of clinical results in a sustained manner** - The Transplant groups have achieved a regular clinical research dynamic and satisfactory dissemination of results, highlighting the lines of clinical research focused on a) transplants carried out with extremely old donors and recipients, b) new guidelines that minimise immunosuppression, c) combined organ transplants and d) creation of risk scores for the use of organs from suboptimal donors.
- To strengthen the relationship between the Transplant groups and groups from the Clinical (infectious diseases, cancer, cardiovascular diseases) and Basic (immunology, ageing) Research Institute interested in various aspects of organ transplantation** - In terms of the collaboration of the Transplant groups with other Areas and with basic research groups, the continuous collaboration with the groups of the Infectious Diseases Area should be noted. Said collaboration led to an ongoing line of research and a number of publications in D1 specialty journals, a collaboration with the Area of Inflammatory Diseases and Immunology, especially in the field of humoral rejection and new therapeutic measures to prevent the appearance of DSA (donor specific antigens) after transplantation and the achievement of competitive research projects in collaboration with the "Ageing, Neuroimmunology and Nutrition" Group on accelerated senescence related to renal failure and its improvement after renal transplantation.
- Search and promote common lines of interest for all the groups of the Area, such as renal complications of diabetes and obesity, bone complications of transplantation or ageing and chronic renal disease** - Within the common lines that can cover the interest of most research groups of the Area, two main lines have been selected: a) Type 2 diabetes and obesity, with the main participation of the groups "Bone Metabolism, Diabetes and Nutrition" and "Clinical Nephrology", with notable research projects and publications, several of which are part of the "Diabesity" working group of the ERA-EDTA (European Renal Association); b) Bone complications of transplants ("Bone Metabolism, Diabetes and Nutrition", "Kidney Transplant" and "Abdominal Organ Transplant" groups; and c) Ageing and chronic renal disease ("Ageing, Neuroimmunology and Nutrition", "Clinical Nephrology", "Kidney Transplant", "Abdominal Organ Transplant" and "Tissue Engineering" groups).
- Strengthening and consolidating the research of the Area's most recently created research groups** - The Area's most recently created research groups, such as the "Critical Patient" and "Men's Integral Health" groups have begun to collaborate, the former with the Area's transplant groups and the latter with the "Clinical Nephrology" group.

- Enhance and increase inter-group and general Area meetings** - Each group has held numerous research sessions and a joint Area session was held in December 2019.

List of the five most relevant publications of the Chronic Diseases and Transplantation Area during 2019

The following are the 5 most relevant publications in the Chronic Diseases and Transplantation Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. **Fernandez-Ruiz M, Albert E, Gimenez E, Ruiz-Merlo T, Parra P, Lopez-Medrano F, San Juan R, Polanco N, Andres A, Navarro D, Aguado JM.** Monitoring of alphavirus DNA levels for the prediction of immunosuppression-related complications after kidney transplantation. American Journal of Transplantation. 2019; 19(4): 1139-49. IF: 7.338 - D1 - Article.
2. **Cano-Romero FL, Laguna Goya R, Utrero-Rico A, Gomez-Massa E, Arroyo-Sanchez D, Suarez-Fernandez P, Lora D, Andres A, Castro-Panete MJ, Paz-Artal E.** Longitudinal profile of circulating T follicular helper lymphocytes parallels anti-HLA sensitization in renal transplant recipients. American Journal of Transplantation. 2019; 19(1): 89-97. IF: 7.338 - D1 - Article.
3. **Molina M, Guerrero-Ramos F, Fernandez-Ruiz M, Gonzalez E, Cabrera J, Morales E, Gutierrez E, Hernandez E, Polanco N, Hernandez A, Praga M, Rodriguez-Antolin A, Pamplona M, de la Rosa F, Cavero T, Chico M, Villar A, Justo I, Andres A.** Kidney transplant from uncontrolled donation after circulatory death donors maintained by nECMO has long-term outcomes comparable to standard criteria donation after brain death. American Journal of Transplantation. 2019; 19(2): 434-47. IF: 7.338 - D1 - Article.
4. **Autilio C, Perez-Gil J.** Understanding the principle biophysics concepts of pulmonary surfactant in health and disease. Archives of Disease in Childhood-Fetal and Neonatal Edition. 2019; 104(4): 443-51. IF: 5.436 - D1 - Review.
5. **Cavero T, Arjona E, Soto K, Caravaca-Fontan F, Rabasco C, Bravo I, de la Cerda F, Martin N, Blasco M, Avila A, Huerta A, Cabello V, Jarque A, Alcazar C, Fulladosa X, Carbayo J, Anaya S, Cobelo C, Ramos N, Iglesias E, Baltar J, Martinez-Gallardo R, Perez L, Morales E, Gonzalez R, Macia M, Draibe J, Pallardo L, Quintana LF, Espinosa M, Barros X, Pereira F, Cao M, Moreno JA, Rodriguez de Cordoba S, Praga M;** Spanish Group for the Study of Glomerular Diseases (GLOSEN). Severe and malignant hypertension are common in primary atypical hemolytic uremic syndrome. Kidney International. 2019; 96(4): 995-1004. IF: 8.945 - D1 - Article.

AGEING, NEUROIMMUNOLOGY AND NUTRITION

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADERS: de la Fuente del Rey, Mónica (R4), Carracedo Añón, Julia M^a (R3)

Ceprián Costoso, Noemí - Predoctoral Researcher (R1)
 Cruces González, Julia - Postdoctoral Researcher (R2)
 de la Serna Soto, Mariano - Predoctoral Researcher (R1)
 Díaz del Cerro, Estefanía - Predoctoral Researcher (R1)
 Garrido Tarrio, Antonio - Postdoctoral Researcher (R2)

González Sánchez, Mónica - Doctoral Researcher (R3)
 Hunsche, Caroline - Predoctoral Researcher (R1)
 Kobayashi García, Hikaru - Predoctoral Researcher (R1)
 Martínez de Toda Cabeza, Irene - Predoctoral Researcher (R1)
 Vida Rueda, M^a del Carmen - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

Title: Envejecimiento prematuro en pacientes con enfermedad renal crónica avanzada: un modelo para establecer biomarcadores del riesgo cardiovascular.

Principal Investigator: Julia M^a Carracedo Añón

Project No.: PI17/01029

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Start date: 15/02/2018

End date: 31/04/2019, extended to 31/12/2019

- Title:** Efectos del Neuralter® en la función inmunitaria, el estrés oxidativo, la conducta y la longevidad.

Principal Investigator: Mónica de la Fuente del Rey

Funding Body: ECYDE S.L.

Start date: 13/12/2018

End date: 13/08/2019, extended to 31/12/2019

- Title:** Efectos del complemento alimenticio UNAMINAS en la función inmunitaria y la edad biológica.

Principal Investigator: Mónica de la Fuente del Rey

Funding Body: Inside Beauty 07. S.L.

Start date: 01/04/2019

End date: 28/02/2020

Other Active Projects of the Research

Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Title: Efecto del descanso sobre materiales naturales y libres de campos electromagnéticos en el sistema inmunitario y la edad biológica. Estudio piloto.

Principal Investigator: Mónica de la Fuente del Rey

Funding Body: ORIGINBEDS

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	15	55.586
Reviews	2	13.583
Editorials	1	4.183
TOTAL	18	73.352

- Martínez de Toda I, Miguelez L, Vida C, Carro E, De la Fuente M. Altered Redox State in Whole Blood Cells from Patients with Mild Cognitive Impairment and

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Alzheimer's Disease. *Journal of Alzheimers Disease*. 2019; 71(1): 153-63. IF: 3.517 - Article.

- Garrido A, Cruces J, Ceprian N, Corpas I, Tresquerres JA, De la Fuente M. Social environment improves immune function and redox state in several organs from prematurely aging female mice and increases their lifespan. *Biogerontology*. 2019; 20(1): 49-69. IF: 3.805 - Article.

- Garrido A, Cruces J, Ceprian N, Vara E, de la Fuente M. Oxidative-Inflammatory Stress in Immune Cells from Adult Mice with Premature Aging. *International Journal of Molecular Sciences*. 2019; 20(3): 769. IF: 4.183 - Article.

- Vida C, Kobayashi H, Garrido A, Martínez de Toda I, Carro E, Molina JA, De la Fuente M. Lymphoproliferation Impairment and Oxidative Stress in Blood Cells from Early Parkinson's Disease Patients. *International Journal of Molecular Sciences*. 2019; 20(3): 771. IF: 4.183 - Article.

- Rodelo-Haad C, Aguera ML, Carmona A, Navarro MD, Carracedo J, Rodriguez-Benot A, Aljama P. Pancreatic autoantibodies and CD14(+) CD16(+) monocytes subset are associated with the impairment of beta-cell function after simultaneous pancreas-kidney transplantation. *Plos One*. 2019; 14(2): e0212547. IF: 2.776 - Article.

- Fernández-García C, Rancan L, Paredes SD, Montero C, De la Fuente M, Vara E, Tresquerres JAF. Xanthohumol exerts protective effects in liver alterations associated with aging. *European Journal of Nutrition*. 2019; 58(2): 653-63. IF: 4.449 - Article.

- Hunsche C, de Toda IM, de la Fuente M. Impacts of the late adulthood diet-induced obesity onset on behavior, immune function, redox state and life span of male and female mice. *Brain Behavior and Immunity*. 2019; 78: 65-77. IF: 6.170 - Article.

- Alique M, Bodega G, Giannarelli C, Carracedo J, Ramirez R. MicroRNA-126 regulates Hypoxia-Inducible Factor-1a which inhibited migration, proliferation, and angiogenesis in replicative endothelial senescence. *Scientific Reports*. 2019; 9(1): 7381. IF: 4.011 - Article.

- Martínez de Toda I, Vida C, Sanz San Miguel L, De la Fuente M. Function, Oxidative, and Inflammatory Stress Parameters in Immune Cells as Predictive Markers of Lifespan throughout Aging. *Oxidative Medicine and Cellular Longevity*. 2019; 2019: 4574276. IF: 4.868 - Article.

- Daza R, Gonzalez-Bermudez B, Cruces J, De la Fuente M, Plaza GR, Arroyo-Hernandez M, Elices M, Perez-Rigueiro J, Guinea GV. Comparison of cell mechanical measurements provided by Atomic Force Microscopy (AFM) and Micropipette Aspiration (MPA). *Journal of the Mechanical Behavior of Biomedical Materials*. 2019; 95: 103-15. IF: 3.485 - Article.

- Martínez de Toda I, Vida C, Sanz San Miguel L, De la Fuente M. When will my mouse die? Life span prediction based on immune function, redox and behavioural parameters in female mice at the adult age. *Mechanisms of Ageing and Development*. 2019; 182: 111125. IF: 3.603 - Article.

- Giménez-Llort L, Ramírez-Boix P, De la Fuente M. Mortality of septic old and adult male mice correlates with individual differences in premorbid behavioral phenotype and acute-phase sickness behavior. *Experimental Gerontology*. 2019; 127: 110717. IF: 3.080 - Article.

- Hunsche C, Cruces J, De la Fuente M. Improvement of Redox State and Functions of Immune Cells as Well as of Behavioral Response in Aged Mice After Two-Week Supplementation of Fermented Milk with Probiotics. *Current Microbiology*. 2019; 76(11): 1278-89. IF: 1.595 - Article.

- Useros NR, Gheorghe A, de Heredia FP, Diaz LE, Baccan GC, de la Fuente M, Marcos A. 2-OHOA supplementation reduced adiposity and improved cardiometabolic risk to a greater extent than n-3 PUFA in obese mice. *Obesity Research & Clinical Practice*. 2019; 13(6): 579-85. IF: 2.056 - Article.

- Martínez de Toda I, Miguelez L, Siboni L, Vida C, De la Fuente M. High perceived stress in women is linked to oxidation, inflammation and immunosenescence. *Biogerontology*. 2019; 20(6): 823-35. IF: 3.805 - Article.

- Carracedo J, Alique M, Ramirez-Carracedo R, Bodega G, Ramirez R. Endothelial Extracellular Vesicles Produced by Senescent Cells: Pathophysiological Role in the Cardiovascular Disease Associated with all Types of Diabetes Mellitus. *Current Vascular Pharmacology*. 2019; 17(5): 447-54. IF: 2.583 - Review.

- Bodega G, Alique M, Puebla L, Carracedo J, Ramirez RM. Microvesicles: ROS scavengers and ROS producers. *Journal of Extracellular Vesicles*. 2019; 8(1): 1626654. IF: 11.000 - Review.

- De la Fuente M. Where Could Research on Immunosenescence Lead? *International Journal of Molecular Sciences*. 2019; 20(23): 5906. IF: 4.183 - Editorial Material.

Theses Defended or Directed on the Group

Candidate: Diana Marisol Valencia Núñez

Title: Inflamación y daño endotelial en cirugía coronaria

Director/s: Julia M^a Carracedo Añón

Date Defended: 15/01/2019

University: Universidad de Córdoba

International Mention: Yes

Candidate: Caroline Hunsche

Title: Intervenciones nutricionales en modelos de envejecimiento prematuro y cronológico

Director/s: Mónica de la Fuente del Rey

Date Defended: 05/09/2019

University: Universidad Complutense de Madrid

International Mention: No

Candidate: Irene Martínez de Toda Cabeza



Title: Marcadores de velocidad de envejecimiento y predictores de longevidad
Director/s: Mónica de la Fuente del Rey
Date Defended: 20/09/2019
University: Universidad Complutense de Madrid
International Mention: Yes

End Master Investigations Directed on the Group

- Student:** Blanca García Solís
Title: Efecto de una dieta rica en antioxidantes sobre la función inmunitaria, el estrés oxidativo y la conducta de ratones hembras y machos triples transgénicos para la enfermedad de Alzheimer
Director: Mónica de la Fuente del Rey
Master: Máster de Investigación en Inmunología (UCM)

- Student:** Karen Juliana Montaño González
Title: Parámetros de función y estado redox en células inmunitarias de centenarios como marcadores de supervivencia y recuperación ante un ingreso hospitalario
Director: Mónica de la Fuente del Rey
Master: Máster de Investigación en Inmunología (UCM)

- Student:** Gara Rodríguez Torres
Title: Alteraciones conductuales e inmunitarias en ratones tras un accidente involuntario
Director: Mónica de la Fuente del Rey
Master: Máster de Neurociencias (UCM)

End Graduated Investigations Directed on the Group

- Student:** Judith Felix Escalera
Title: Proporción de ratones con y sin envejecimiento prematuro cuya convivencia resulta más positiva en la mejora conductual, inmunitaria y en la longevidad
Director: Mónica de la Fuente del Rey
Degree: Biología (UCM)

- Student:** Marta Villafañez Ocio
Title: Efecto del ambiente social positivo en funciones inmunológicas de ratones haploinsuficientes
Directors: Mónica de la Fuente del Rey, Irene Martínez de Toda
Degree: Biología (UCM)

- Student:** Gemma Valera Arévalo
Title: Estudio de subpoblaciones monocíticas y estrés oxidativo en pacientes con enfermedad renal crónica: Modulación por diálisis
Directors: Julia Mª Carracedo Añón
Degree: Biología (UCM)
- Student:** Camilo A. Prieto Beltrán
Title: Estrés oxidativo en pacientes con enfermedad renal crónica avanzada: Estudio de parámetros oxidativos en sangre periférica e influencia de tratamientos de hemodiálisis y diálisis peritoneal
Directors: Julia Mª Carracedo Añón
Degree: Biología (UCM)

Prizes and Awards

- Premio a la mejor comunicación e-póster en el XLIX Congreso Nacional de la Sociedad Española de Nefrología. La Coruña, octubre 2019. Por el trabajo: Yuste C, Caro J, Fernández M, Praga M, Vida C, Ceprián N, Carracedo J, Morales E. Modificaciones del perfil metabólico en pacientes con Enfermedad Renal Crónica según estado y técnica.
- Premio a la mejor Comunicación Oral en el XLIX Congreso Nacional de la Sociedad Española de Nefrología. La Coruña, octubre 2019. Por el trabajo: Caro J, Ceprián N, Yuste C, Valero G, Fernández M, Serroukh N, Morales E, Vida C, Carracedo J, Praga M. Envejecimiento inmunológico y Fragilidad: Dos características de nuestros pacientes ERCA y en diálisis peritoneal.
- Premio a la mejor comunicación e-póster en el XLIX Congreso Nacional de la Sociedad Española de Nefrología. La Coruña, octubre 2019. Por el trabajo: Ceprián N, Fernandez M, Valera G, Yuste C, Serroukh N, Caro J, González de Pablos I, Vida C, Morales E, Carracedo J. Los monocitos inflamatorios se relacionan con patología vascular y sus características están condicionadas por el género de los pacientes con ERC.
- Premio Salgado Alba de 2019 a la mejor comunicación en el 61 Congreso de la Sociedad Española de Geriatría y Gerontología (SEGG). Zaragoza, 12-14 de junio de 2019, por el trabajo: Parámetros funcionales, de estrés oxidativo e inflamatorio en células inmunitarias como marcadores predictivos de longevidad a lo largo del envejecimiento, de Martínez De Toda I, Vida C, Sanz L, De la Fuente M.

Communication

- Number of press releases disseminated: 3
- Number of news items published in the written press: 2
- News published in other audiovisual media (radio, TV): 2



RESPIRATORY DISEASES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Álvarez Martínez, Carlos José (R4)
 Alonso Moralejo, Rodrigo - Postdoctoral Researcher (R2)
 Benavides Mañas, Pedro Daniel - Clinical Researcher (R2)
 Castro Acosta, Ady Angélica - Clinical Researcher (R1)
 de Granda Orive, José Ignacio - Doctoral Researcher (R4)
 de Miguel Poch, Eduardo - Clinical Researcher (R3)
 de Pablo Gafas, Alicia Julia - Clinical Researcher (R3)
 Díaz Cambrales, Mª Trinidad - Clinical Researcher (R2)
 Díaz Campos, Rocío Magdalena - Doctoral Researcher (R2)
 Díaz-Hellín Gude, Vicente - Clinical Researcher (R3)
 Gámez García, Antonio Pablo - Doctoral Researcher (R4)
 García Luján, Ricardo - Doctoral Researcher (R4)

Gómez López, Mª Antolina - Clinical Researcher (R1)
 Gómez Sánchez, Miguel Ángel - Doctoral Researcher (R4)
 Hernando Sanz, Ascensión - Predoctoral Researcher (R1)
 Marrón Fernández, Carmen - Doctoral Researcher (R3)
 Melero Moreno, Carlos - Consultant
 Padilla Bernáldez, Marta - Support Technician
 Pérez González, Virginia Luz - Clinical Researcher (R2)
 Pozo Rodríguez, Francisco - Consultant
 Sayas Catalán, Javier - Clinical Researcher (R4)
 Villena Garrido, Mª Victoria - Clinical Researcher (R4)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Non Competitive	Various	1
TOTAL		1

- Title:** Efecto de la ventilación mecánica no invasiva sobre el acoplamiento neurorrespiratorio durante el ejercicio en pacientes con enfermedad pulmonar obstructiva crónica grave.
Principal Investigator: Javier Sayas Catalán
Funding Body: Menarini
Start date: 16/04/2018
End date: 30/09/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	17	114. 909
Reviews	1	3.687
Editorials	3	12.230
TOTAL	21	130. 826
Letters	1	4.214
TOTAL	22	135.040

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Corral-Blanco M, Prudencio-Ribera VC, Jarrin-Estupinan ME, Alonso-Moralejo R, Perez-Gonzalez V, Meneses-Pardo JC, Hermida-Anchuelo A, De Pablo-Gafas A. Influence of Pulmonary Hypertension on Intrahospital Mortality in Lung Transplantation for Interstitial Lung Disease. *Transplantation Proceedings*. 2019; 51(2): 380-2. IF: 0.959 - Article.
- Prudencio-Ribera VC, Corral-Blanco M, Jarrin-Estupinan ME, Alonso-Moralejo R, Perez-Gonzalez V, Martinez-Serna I, Gonzalez-Serrano M, De Pablo-Gafas A. Analysis of Intrahospital Mortality in Patients With Lung Transplant Due to Diffuse Parenchymal Lung Disease. *Transplantation Proceedings*. 2019; 51(2): 372-5. IF: 0.959 - Article.
- Masa JF, Mokhlesi B, Benítez I, Gomez de Terreros FJ, Sánchez-Quiroga MÁ, Romero A, Caballero-Eraso C, Terán-Santos J, Alonso-Álvarez ML, Troncoso MF, González M, López-Martín S, Marin JM, Martí S, Díaz-Cambriles T, Chiner E, Egea C, Barca J, Vázquez-Polo FJ, Negrín MA, Martel-Escobar M, Barbe F, Corral J; Spanish Sleep Network. Long-term clinical effectiveness of continuous positive airway pressure therapy versus non-invasive ventilation therapy in patients with obesity hypoventilation syndrome: a multicentre, open-label, randomised controlled trial. *Lancet*. 2019; 393(10182): 1721-32. IF: 59.102 - Article.
- Navarro-Soriano C, Martinez-Garcia MA, Torres G, Barbe F, Caballero-Eraso C, Lloberes P, Diaz Cambriles T, Somoza M, Masa JF, Gonzalez M, Manas E, de la Peña M, Garcia-Rio F, Montserrat JM, Muriel A, Oscullo G, Feced Olmos L, Garcia-Ortega A, Calhoun D, Campos-Rodriguez F; on behalf the Spanish Sleep Network. Effect of continuous positive airway pressure in patients with true refractory hypertension and sleep apnea: a post-hoc intention-to-treat analysis of the HIPARCO randomized clinical trial. *Journal of Hypertension*. 2019; 37(6): 1269-75. IF: 4.209 - Article.
- Borras-Santos A, Garcia-Aymerich J, Soler-Cataluna JJ, Vigil Gimenez L, Gea Guiral J, Rodriguez Chiaradia D, Pascual-Guardia S, Marcos Rodriguez PJ, Alvarez Martinez CJ, Casanova Macario C, Lopez-Campos JL, Carrasco Hernandez L, Martinez-Gonzalez C, Santos-Perez S, Peces-Barba G, Molina Paris J, Roman Rodriguez M, Barbera JA, Faner R, Agusti A, Cosio BG; en representacion del Grupo Investigador del estudio EARLY COPD. Determinants of the Appearance and Progression of Early-Onset Chronic Obstructive Pulmonary Disease in Young Adults. A Case-Control Study with Follow-up. *Archivos de Bronconeumología*. 2019; 55(6): 312-8. IF: 4.214 - Article.
- Diaz-Campos RM, Bobolea I, Giron-Matute W, Guillen-Vera D, De las Cuevas-Moreno N, Melero-Moreno C. Autoimmune Diseases and Asthma. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(3): 246-8. IF: 3.802 - Article.
- Millares L, Pascual S, Monton C, Garcia-Nunez M, Lalmolda C, Faner R, Casadevall C, Seto L, Capilla S, Moreno A, Castro-Acosta AA, Alvarez-Martinez CJ, Sibila O, Peces-Barba G, Cosio BG, Agusti A, Gea J, Monso E. Relationship between the respiratory microbiome and the severity of airflow limitation, history of exacerbations and circulating eosinophils in COPD patients. *BMC Pulmonary Medicine*. 2019; 19(1): 112. IF: 2.184 - Article.
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- Arenas J, Hirano M, Martin MA, Paradas C. Late-onset thymidine kinase 2 deficiency: a review of 18 cases. *Orphanet Journal of Rare Diseases*. 2019; 14(1): 100. IF: 3.687 - Review.
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- Diaz-Campos RM, Prudencio-Ribera VC, Garcia-Moguel I, Fernandez-Rodriguez C, Corral-Blanco M, Jarrin-Estupinan ME, Melero-Moreno C. Mepolizumab for the Treatment of Eosinophilic Granulomatosis with Polyangiitis: Our Experience. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(5): 384-5. IF: 3.802 - Editorial Material.
- Almonacid-Sanchez C, Melero-Moreno C. Economic analysis of biological therapies for severe asthma treatment. *Farmacia Hospitalaria*. 2019; 43(6): 175-6. IF: N/A - Editorial Material.
- Ignacio de Granda-Orive J, Pascual-Lledo JF, Asensio-Sanchez S, Solano-Reina S, Garcia-Rueda M, Martinez-Muniz MA, Lazaro-Asegurado L, Bujulbasichg D, Pendino R, Luhning S, Cienfuegos-Agustin I, Jimenez-Ruiz CA. Should tobacco interventions be different in men and women? *Pulmonology*. 2019; 25(1): 55-8. IF: N/A - Letter.
- de Granda-Orive JL, Pascual-Lledo JF, Asensio-Sanchez S, Solano-Reina S, Garcia-Rueda M, Martinez-Muniz MA, Lazaro-Asegurado L, Bujulbasichg D, Pendino R, Luhning S, Cienfuegos-Agustin I, Jimenez-Ruiz CA. Should tobacco interventions be different in men and women? *Pulmonology*. 2019; 25(1): 55-8. IF: N/A - Letter.
- Ortiz-Bautista C, Lopez-Gude MJ, Grande Garcia J, Perez-Vela JL, Perez-Gonzalez V, Escribano-Subias P. Extracorporeal Membrane Oxygenation Support During Pregnancy in Pulmonary Veno-occlusive Disease. *Revista Española de Cardiología (english Ed.)*. 2019; 72(2): 174-5. IF: N/A - Letter.



BONE METABOLISM, DIABETES AND NUTRITION

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADERS: Martínez Díaz-Guerra, Guillermo (R4), León Sanz, Miguel (R3)

Allo Miguel, Gonzalo - Clinical Researcher

Calatayud Gutierrez, María - Clinical Researcher

García Fernández, Elena - Clinical Researcher

Guadalix Iglesias, Sonsoles - Postdoctoral Researcher (R2)

Hawkins Carranza, Federico Gilberto - Consultant
Rodríguez Jiménez, Celestino - Clinical Researcher
Valero Zanuy, M^a Ángeles - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Non Competitive	Various	3
TOTAL		3

▪ **Title:** Unidad multidisciplinar RCV 12 de Octubre: Consulta diabe-co.

Principal Investigator: Elena García Fernández

Funding Body: Novo Nordisk Pharma, S.A.

Start date: 18/06/2019

End date: 31/12/2020

▪ **Title:** Impacto de la sarcopenia sobre la morbilidad postoperatoria en los pacientes con cáncer esofágico, gástrico y páncreático.

Principal Investigator: Miguel León Sanz

Funding Body: Abbott Laboratories S.A.

Start date: 30/11/2016

End date: 29/11/2019

▪ **Title:** Impacto de la sarcopenia en pacientes con cáncer de cabeza y cuello sometidos a radioterapia.

Principal Investigator: Miguel León Sanz

Funding Body: Abbott Laboratories S.A.

Start date: 18/12/2018

End date: 31/12/2019, extended to 31/05/2020

Other Active Projects of the Research Group not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

▪ **Title:** Mecanismos asociados a progresión de tumores endocrinos y neuroendocrinos.

Principal Investigator: Mercedes Robledo. Collaborator: Guillermo Martínez Díaz-Guerra

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

▪ **Title:** Estudio observacional, prospectivo, multicéntrico, nacional, para evaluar la mejor respuesta de tiempo de consecución del control hormonal con el uso de un tratamiento personalizado, mediante la implementación de un algoritmo personalizado y predictivo, en pacientes con acromegalia.

Principal Investigator: María Calatayud Gutierrez

Funding Body: SEEN - Fundació Institut D'Investigació en Ciències de la Salut Germans Trias i Pujol

Start date: 2019

End date: 2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	8	20.327
Reviews	2	8.984
TOTAL	10	29.311

- Miguel GA, Carranza FH, Rodriguez JCR, Ramos MA, Pablos DL, Herrero EF, Diaz-Guerra GM. Trabecular Bone Score, Bone Mineral Density and Bone Markers in Patients with Primary Hyperparathyroidism 2 Years after Parathyroidectomy. Hormone and Metabolic Research. 2019; 51(3): 186-90. IF: 2.423 - Article.
- Garcia-Martin F, Guadalix S, Garcia-Boyano F, Melon Pena N, Martinez Pueyo JL, Callejas Martinez R, Praga Terente M. Does renal function improve after parathyroidectomy in primary hyperparathyroidism? Nefrología. 2019; 39(2): 160-7. IF: 1.439 - Article.
- Iglesias SG, Dominguez MLM, Herrero EF, Martinez-Pueyo JL, Arroba CMA, Diaz-Guerra GM, Hawkins Carranza F. Trabecular bone score and bone mineral density in patients with postsurgical hypoparathyroidism after total thyroidectomy for differentiated thyroid carcinoma. Surgery. 2019; 165(4): 814-9. IF: 3.476 - Article.
- Calsina B, Castro-Vega LJ, Torres-Perez R, Inglada-Perez L, Curras-Freixes M, Roldan-Romero JM, Mancikova V, Leton R, Remacha L, Santos M, Burnichon N, Lussey-Lepoutre C, Rapizzi E, Graña O, Alvarez-Escola C, de Cubas AA, Lanillos J, Cordero-Barreal A, Martinez-Montes AM, Bellucci A, Amar L, Fernandes-Rosa FL, Calatayud M, Aller J, Lamas C, Sastre-Marcos J, Canu L, Korpershoek E, Timmers HJ, Lenders JW, Beuschlein F, Fassnacht-Capeller M, Eisenhofer G, Mannelli M, Al-Shahrour F, Favier J, Rodriguez-Antona C, Cascon A, Montero-Conde C, Gimenez-Roqueplo AP, Robledo M. Integrative multi-omics analysis identifies a prognostic miRNA signature and a targetable miR-21-3p/TSC2/mTOR axis in metastatic pheochromocytoma/paraganglioma. Theranostics. 2019; 9(17): 4946-58. IF: 8.063 - Article.
- Salvatore Benito A, Valero Zanuy MA, Alarza Cano M, Ruiz Alonso A, Alda Bravo I, Rogero Blanco E, Maiz Jimenez M, Leon Sanz M. Adherence to Mediterranean diet: A comparison of patients with head and neck cancer and healthy population. Endocrinología Diabetes y Nutrición. 2019; 66(7): 417-24. IF: 0.934 - Article.
- Cardenas D, Bermudez C, Echeverri S, Perez A, Puentes M, Lopez L, Correia MITD, Ochoa JB, Ferreira AM, Texeira MA, Arenas-Moya D, Arenas-Marquez H, Leon-Sanz M, Rodriguez-Veintimilla D, Cardenas D, Bermudez C, Echeverri S, Perez A, Puentes M, Lopez L, Correia MITD, Ochoa JB. Declaracion de Cartagena. Declaracion Internacional sobre el Derecho al Cuidado Nutricional y la Lucha contra la Malnutricion. Nutrición Hospitalaria. 2019; 36(4): 974-80. IF: 0.759 - Article.
- Martínez Villaescusa M, León Sanz M, Aguado García Á, Pedrón Megías A, Martínez Díaz M, Gonzalvo Díaz C, García Arce L, Pérez Rodríguez A, Giménez Bachs JM, Azaña Rodríguez A, González Martínez AB, García Martínez C, Gómez Roldán C, Botella Romero F. Pero, doctor, entonces ¿que puedo comer? Nutrición Hospitalaria. 2019; 36(4): 898-904. IF: 0.759 - Article.
- Lamas C, Navarro E, Casteras A, Portillo P, Alcazar V, Calatayud M, Alvarez-Escola C, Sastre J, Boix E, Forga L, Vicente A, Oriola J, Mesa J, Valdes N. MEN1-associated primary hyperparathyroidism in the Spanish registry: clinical characteristics and surgical outcomes. Endocrine Connections. 2019; 8(10): 1416-24. IF: 2.474 - Article.
- Gonzalez M, Miguel A, Ramos A, Librizzi S, Jimenez C, Hawkins F, Diaz-Guerra M. Different development of serum sclerostin compared to other bone remodeling markers in the first year after a liver transplant. Revista de Osteoporosis y Metabolismo Mineral. 2019; 11(1): 25-9. IF: N/A - Article.
- Ruiz de la Hermosa García-Pardo A, Rodríguez Maldonado Y, Martínez Savoini E, Gómez de Antonio R, Allo Miguel G, García Alonso FJ, Seoane González JB. Estudio prospectivo sobre las complicaciones de los estomas digestivos. Revista de Gastroenterología del Perú. 2019; 39(3): 215-21. IF: N/A - Article.
- Guañabens N, Moro-Alvarez MJ, Casado E, Blanch-Rubio J, Gomez-Alonso C, Diaz-Guerra GM, del Pino-Montes J, Valero Díaz de Lamadrid C, Peris P, Muñoz-Torres M; SEIOMM Working Group. The next step after anti-osteoporotic drug discontinuation: an up-to-date review of sequential treatment. Endocrine. 2019; 64(3): 441-55. IF: 3.296 - Review.
- Hoyas I, Leon-Sanz M. Nutritional Challenges in Metabolic Syndrome. Journal of Clinical Medicine. 2019; 8(9): 1301. IF: 5.688 - Review.

Prizes and Awards

- XXIV Congreso SEIOMM - Premio Especial ITALFARMACO-SEIOMM 2019 vitamina D al mejor estudio sobre vitamina D: Niveles de 25-OH vitamina D, Trabecular Bone Score y Densidad Mineral Osea en pacientes con carcinoma Diferenciado de tiroides. Autores: Sonsoles Guadalix Iglesias, Gonzalo Allo Miguel, Cristina Martín-Arriscado Arroba, Guillermo Martínez Díaz-Guerra, Federico Hawkins Carranza.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

CLINICAL NEPHROLOGY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Praga Terente, Manuel (R4)

Caravaca Fontan, Fernando - Predoctoral Researcher (R1)
 Caro Espada, Paula Jara - Clinical Researcher
 Cavero Escribano, Teresa - Clinical Researcher
 García Martín, Florencio - Postdoctoral Researcher (R2)
 González Monte, Esther - Postdoctoral Researcher (R2)
 Gutiérrez Martínez, Eduardo - Clinical Researcher

Martín López, Luis - Clinical Researcher
 Mérida Herrero, Evangelina - Clinical Researcher
 Morales Ruiz, Enrique - Doctoral Researcher (R3)
 Sevillano Prieto, Ángel Manuel - Clinical Researcher
 Yuste Lozano, Claudia - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	Fundación Madrileña de Nefrología	1
TOTAL		3

- Title:** Trastornos moleculares y genéticos en las glomerulopatías causadas por disregulación del complemento. correlaciones Genotipo-Fenotipo e implicaciones terapéuticas.

Principal Investigator: Manuel Praga Terente

Project No.: PI16/01685

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

- Title:** Tratamiento secuencial con tacrolimus-rituximab versus esteroides más ciclofosfamida en la nefropatía membranosa primaria.

Principal Investigator: Manuel Praga Terente

Project No.: ICI14/00350

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

- Title:** Desarrollo de un índice de gravedad en la Nefritis Lúpica.

Principal Investigator: Enrique Morales Ruiz

Funding Body: Fundación Madrileña de Nefrología

Start date: 01/08/2017

End date: 09/08/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	126.454
Reviews	4	9.439
Editorials	5	27.11
TOTAL	28	163.003
Letters	3	11.184
TOTAL	31	174.187

- van den Born BJH, Lip GYH, Brugman-Hitij J, Cremer A, Segura J, Morales E, Mahfoud F, Amraoui F, Persu A, Kahan T, Agabiti Rosei E, de Simone G, Gosse P, Williams B. ESC Council on hypertension position document on the management of hypertensive emergencies. European Heart Journal-Cardiovascular Pharmacotherapy. 2019; 5(1): 37-46. IF: 6.723 - Article.
- Molina M, Guerrero-Ramos F, Fernandez-Ruiz M, Gonzalez E, Cabrera J, Morales E, Gutierrez E, Hernandez E, Polanco N, Hernandez A, Praga M, Rodriguez-Antolin A, Pamplona M, de la Rosa F, Cavero T, Chico M, Villar A, Justo I, Andres A. Kidney transplant from uncontrolled donation after circulatory death donors maintained by nECMO has long-term outcomes comparable to standard criteria donation after brain death. American Journal of Transplantation. 2019; 19(2): 434-47. IF: 7.163 - Article.
- Sarafidis P, Ferro CJ, Morales E, Ortiz A, Malyszko J, Hojs R, Khazim K, Ekart R, Valdivielso J, Fouque D, London GM, Massy Z, Ruggenenti P, Porrini E, Wiecek A, Zoccali C, Mallamaci F, Hornum M. SGLT-2 inhibitors and GLP-1 receptor agonists for nephroprotection and cardioprotection in patients with diabetes mellitus and chronic kidney disease. A consensus statement by the

EURECA-m and the DIABESITY working groups of the ERA-EDTA. Nephrology Dialysis Transplantation. 2019; 34(2): 208-30. IF: 4.198 - Article.

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- Garcia-Martin F, Guadalix S, Garcia-Boyano F, Melon Pena N, Martinez Pueyo JL, Callejas Martinez R, Praga Terente M. Does renal function improve after parathyroidectomy in primary hyperparathyroidism? Nefrología. 2019; 39(2): 160-7. IF: 1.439 - Article.
- Varas J, Perez-Saez MJ, Ramos R, Merello JL, de Francisco ALM, Luno J, Praga M, Aljama P, Pascual J; Optimizing Results in Dialysis (ORD) group. Returning to haemodialysis after kidney allograft failure: a survival study with propensity score matching. Nephrology Dialysis Transplantation. 2019; 34(4): 667-72. IF: 4.198 - Article.
- de Sequera Ortiz P, Perez Garcia R, Molina Nunez M, Munoz Gonzalez RI, Alvarez Fernandez G, Merida Herrero E, Camba Caride MJ, Blazquez Collado LA, Alcaide Lara MP, Echarri Carrillo R; grupo del estudio ABC-treat, Grupo del estudio ABC-treat. Prospective randomised multicentre study to demonstrate the benefits of haemodialysis without acetate (with citrate): ABC-treat Study. Acute effect of citrate. Nefrología. 2019; 39(4): 424-33. IF: 1.439 - Article.
- Barbour SJ, Coppo R, Zhang H, Liu ZH, Suzuki Y, Matsuzaki K, Katafuchi R, Er L, Espino-Hernandez G, Kim SJ, Reich HN, Feehally J, Catran DC, Russo ML, Cook HT, Roberts I, Tesar V, Maixnerova D, Lundberg S, Gesualdo L, Emma F, Fuiano L, Beltrame G, Rollino C, Camilla R, Peruzzi L, Praga M, Feriozzi S, Polci R, Segoloni G, Colla L, Pani A, Piras D, Angioi A, Cancarini G, Ravera S, Durlik M, Moggia E, Ballarin J, Di Giulio S, Pugliese F, Serriello I, Caliskan Y, Sever M, Kilicaslan I, Locatelli F, Del Vecchio L, Wetzel JFM, Peters H, Berg U, Carvalho F, Ferreira ACD, Maggio M, Wiecek A, Ots-Rosenberg M, Magistroni R, Topaloglu R, Bilginer Y, D'Amico M, Stangou M, Giacchino F, Goumenos D, Kalliakmani P, Gerolymos M, Galesic K, Siamopoulos K, Balafa O, Galliani M, Stratta P, Quaglia M, Bergia R, Cravero R, Salvadori M, Cirami L, Fellström B, Smerud HK, Stellato T, Egido J, Martin C, Floege J, Eitner F, Lupo A, Bernich P, Mene R, Morosetti M, van Kooten C, Rabelink T, Reinders MEJ, Grinyo JMB, Cusinato S, Benozzi L, Savoldi S, Licata C, Mizerska-Wasiak M, Martina G, Messuerotti A, Dal Canton A, Esposito C, Migotto C, Triolo G, Mariano F, Pozzi C, Boero R, Bellur S, Mazzucco G, Giannakakis C, Honsova E, Sundelin B, Di Palma AM, Gutierrez E, Asunis AM, Tardanico R, Perkowska-Ptasinska A, Terroba JA, Fortunato M, Pantzaki A, Ozluk Y, Steenbergen E, Soderberg M, Riispere Z, Furci L, Orhan D, Kipgen D, Casartelli D, Ljubanovic DG, Gakopoulou H, Bertoni E, Ortiz PC, Karkoszka H, Groene HJ, Stoppacciaro A, Bajema I, Oliveras XF, Maldyk J, Loachim E, Bavbek N, Cook T, Troyanov S, Alpers C, Amore A, Barratt J, Berthoux F, Bonsib S, Bruijn J, D'Agati V, D'Amico G, Emancipator S, Emmal F, Ferrario F, Fervenza F, Florquin S, Fogo A, Geddes C, Groene H, Haas M, Hill P, Hogg R, Hsu S, Hunley T, Hladunewich, Jennette C, Joh K, Julian B, Lai F, Leung C, Li L, Li P, Liu Z, Massat A, Mackinnon B, Mezzano S, Schena F, Tomino Y, Walker P, Wang H, Weening J, Yoshikawa N, Zeng CH, Shi SF, Nogi C, Suzuki H, Koike K, Hirano K, Kawamura T, Yokoo T, Hanai M, Fukami K, Takahashi K, Yuzawa Y, Niwa M, Yasuda Y, Maruyama S, Ichikawa D, Suzuki T, Shirai S, Fukuda A, Fujimoto S, Trimarchi H; Int IgA Nephropathy Network. Evaluating a New International Risk-Prediction Tool in IgA Nephropathy. JAMA Internal Medicine. 2019; 179(7): 942-52. IF: 20.768 - Article.
- Rubio-Navarro A, Vazquez-Carballo C, Guerrero-Hue M, Garcia-Caballero C, Herencia C, Gutierrez E, Yuste C, Sevillano A, Praga M, Egea J, Cannata P, Cortegano I, de Andres B, Gaspar ML, Cadenas S, Michalska P, Leon R, Ortiz A, Egido J, Moreno JA. Nrf2 Plays a Protective Role Against Intravascular Hemolysis-Mediated Acute Kidney Injury. Frontiers in Pharmacology. 2019; 10: 740. IF: 3.845 - Article.
- Fradejas I, Rubio JM, Martin-Diaz A, Herrero-Martinez JM, Ruiz-Giardin JM, Rojo-Marcos G, Velasco M, Calderon-Moreno M, Azcona-Gutierrez JM, Merino FJ, Olmo BA, Espinosa M, Cuadrado M, Gonzalez-Monte E, Jaqueti J, Cuadros J, Campelo C, Delgado-Iribarren A, Martin-Rabadan P, Garcia-Garcia C, Martin-Laso MA, Valle-Borrego B, Garcia MC, Lizasoain M, Perez-Ayala A. Prevalence of submicroscopic malaria infection in immigrants living in Spain. Malaria Journal. 2019; 18(1): 242. IF: 2.798 - Article.
- Guerrero-Hue M, Garcia-Caballero C, Palomino-Antolin A, Rubio-Navarro A, Vazquez-Carballo C, Herencia C, Martin-Sanchez D, Farre-Alins V, Egea J, Cannata P, Praga M, Ortiz A, Egido J, Sanz AB, Moreno JA. Curcumin reduces renal damage associated with rhabdomyolysis by decreasing ferroptosis-mediated cell death. FASEB Journal. 2019; 33(8): 8961-75. IF: 5.391 - Article.
- Villa-Bellosta R, Hernandez-Martinez E, Merida-Herrero E, Gonzalez-Parra E. Impact of acetate- or citrate-acidified bicarbonate dialysate on ex vivo aorta wall calcification. Scientific Reports. 2019; 9(1): 11374. IF: 4.011 - Article.
- Sevillano AM, Diaz M, Caravaca-Fontan F, Barrios C, Bernis C, Cabrera J, Calviño J, Castillo L, Cobelo C, Delgado-Mallen P, Espinosa M, Fernandez-Juarez G, Fernandez-Reyes MJ, Garcia-Osuna R, Garcia P, Goicoechea M, Gonzalez-Cabrera F, Guzman DA, Heras M, Martin-Reyes G, Martinez A, Olea T, Peña JK, Quintana LF, Rabasco C, Lopez Revuelta K, Rodas L, Rodriguez-Mendiola N, Rodriguez E, San Miguel L, Sanchez de la Nieta MD, Shabaka A, Sierra M, Valera A, Velo M, Verde E, Ballarin J, Noboa O, Gutierrez E, Praga M; Spanish Group for the Study of Glomerular Diseases (GLOSEN). IgA Nephropathy in Elderly Patients. Clinical Journal of the American Society of Nephrology. 2019; 14(8): 1183-92. IF: 6.243 - Article.
- Cavero T, Arjona E, Soto K, Caravaca-Fontan F, Rabasco C, Bravo L, de la Cerda F, Martin N, Blasco M, Avila A, Huerta A, Cabello V, Jarque A, Alcazar

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



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- Tortajada A, Gutierrez E, Pickering MC, Praga Terente M, Medjeral-Thomas N. The role of complement in IgA nephropathy. *Molecular Immunology*. 2019; 114: 123-32. IF: 3.064 - Article.
- Navarro-García JA, Delgado C, Fernández-Velasco M, Val-Blasco A, Rodríguez-Sánchez E, Aceves-Ripoll J, Gómez-Hurtado N, Bada-Bosch T, Mérida-Herrero E, Hernández E, Praga M, Salguero R, Solís J, Arribas F, Delgado JF, Bueno H, Kuro-O M, Ruilope LM, Ruiz-Hurtado G. Fibroblast growth factor-23 promotes rhythm alterations and contractile dysfunction in adult ventricular cardiomyocytes. *Nephrology Dialysis Transplantation*. 2019; 34(11): 1864-75. IF: 4.198 - Article.
- Navarro-García JA, Rodriguez-Sánchez E, Aceves-Ripoll J, Abarca-Zabalía J, Susmozas-Sánchez A, González Lafuente L, Bada-Bosch T, Hernandez E, Merida-Herrero E, Praga M, Ruilope LM, Ruiz-Hurtado G. Oxidative Status before and after Renal Replacement Therapy: Differences between Conventional High Flux Hemodialysis and on-Line Hemodiafiltration. *Nutrients*. 2019; 11(11): 2809. IF: 4.171 - Article.
- Cervera R, Mosca M, Rios-Garcés R, Espinosa G, Trujillo H, Bada T, Praga M, Cervera R, Mosca M, Rios-Garcés R, Espinosa G, Trujillo H, Bada T, Praga M. Treatment for refractory lupus nephritis: Rituximab vs triple target therapy. *Autoimmunity Reviews*. 2019; 18(12): 102406. IF: 7.716 - Article.
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- de-Pablo-Gómez-de-Liano L, Canas Zamarra I, Fernandez-Vigo JL, Fernandez Vidal M, Navarro-Perea C, Cavero Escribano T. Retinal manifestations in patients with complement-mediated membranoproliferative glomerulonephritis. *Archivos de la Sociedad Española de Oftalmología*. 2019; 94(2): 95-9. IF: N/A - Article.
- Calvo Espino P, Rivera Bautista JA, Artes Caselles M, Serrano Gonzalez J, García Pavia A, García-Oria MJ, Caravaca-Fontan F, Lucena de la Poza JL, Sanchez Turrión V. Serum levels of intact parathyroid hormone on the first day after total thyroidectomy as predictor of permanent hypoparathyroidism. *Endocrinología, Diabetes y Nutrición*. 2019; 66(3): 195-201. IF: N/A - Article.
- Morales E, Alonso M, Gutierrez E. Collapsing glomerulopathy: update. *Medicina Clínica*. 2019; 152(9): 361-7. IF: 1.277 - Review.
- Moreno JA, Sevillano A, Gutierrez E, Guerrero-Hue M, Vazquez-Carballo C, Yuste C, Herencia C, Garcia-Caballero C, Praga M, Egido J. Glomerular Hematuria: Cause or Consequence of Renal Inflammation? *International Journal of Molecular Sciences*. 2019; 20(9): 2205. IF: 4.183 - Review.
- de Francisco ALM, Macía M, Alonso F, García P, Gutierrez E, Quintana LF, Quiroga B, Torregrosa I. Onco-Nephrology: Cancer, chemotherapy and kidney. *Nefrología*. 2019; 39(5): 473-81. IF: 1.439 - Review.
- Caravaca-Fontán F, Fernández-Juárez G, Praga M. Acute kidney injury in interstitial nephritis. *Current Opinion in Critical Care*. 2019; 25(6): 558-64. IF: 2.540 - Review.
- Gutierrez E. IgA nephropathy: is a new approach beyond proteinuria necessary? *Pediatric Nephrology*. 2019; 34(5): 921-4. IF: 2.816 - Editorial Material.
- Praga M, Rodríguez de Córdoba S. Secondary atypical hemolytic uremic syndromes in the era of complement blockade. *Kidney International*. 2019; 95(6): 1298-300. IF: 8.306 - Editorial Material.
- Fernández Juárez GM, Villacorta Pérez J, Caravaca Fontán F, Cases Corona C, Sánchez Alamo B, Tato Ribera AM. New challenges in tubulointerstitial nephritis induced by drugs. *Nefrología*. 2019; 39(4): 339-42. IF: 1.439 - Editorial Material.
- Merida E, Praga M. NSAIDs and Nephrotic Syndrome. *Clinical Journal of the American Society of Nephrology*. 2019; 14(9): 1280-2. IF: 6.243 - Editorial Material.
- Caravaca-Fontan F, Praga M. Complement inhibitors are useful in secondary hemolytic uremic syndromes. *Kidney International*. 2019; 96(4): 826-9. IF: 8.306 - Editorial Material.
- Moliz C, Gutierrez E, Cavero T, Redondo B, Praga M. Eculizumab as a treatment for atypical hemolytic syndrome secondary to carfilzomib. *Nefrología*. 2019; 39(1): 86-8. IF: 1.439 - Letter.
- Redondo B, Moliz C, Alonso M, Paz-Ares L, Praga M, Morales E. Cancer immunotherapy: Great expectations in the world of oncology but a cause for kidney concern. *Nefrología*. 2019; 39(1): 94-6. IF: 1.439 - Letter.
- Cavero T, Rodríguez de Córdoba S, Praga M. Atypical hemolytic uremic syndrome and hypertensive crisis reply. *Kidney International*. 2019; 96(5): 1239-40. IF: 8.306 - Letter.

End Master Investigations Directed on the Group

- **Student:** Nadia Serroukh Mansouri
- Title:** Caracterización de microvesículas procedentes de sangre periférica en pacientes con enfermedad renal crónica y su relación con patologías cardiovasculares según estudio y técnica
- Director:** Enrique Morales Ruiz
- Master:** Máster en Biología Sanitaria (UCM)

End Graduated Investigations Directed on the Group

- **Students:** Alejandra Pons Martínez y Cristina Casanova de Mesa
- Title:** Octogenarios en la consulta de Nefrología. Evolución natural o enfermedad renal crónica
- Director:** Enrique Morales Ruiz
- Degree:** Medicina (UCM)

PULMONARY SURFACTANT AND RESPIRATORY DISEASES

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Pérez Gil, Jesús (R4)

Alonso Eugenio, Alejandro - Predoctoral Researcher (R1)
Aranda Serrano, Elena - Postdoctoral Researcher (R2)
Arroyo Rodríguez, Raquel - Postdoctoral Researcher (R2)
Autilio, Chiara - Predoctoral Researcher (R1)
Benavente García, Alicia - Support Technician
Castillo Sánchez, José Carlos - Bachelor Researcher
Cruz Rodríguez, Antonio - Postdoctoral Researcher (R2)

Echaide Torreguitar, Mercedes - Postdoctoral Researcher (R2)
García Álvarez, Begoña - Postdoctoral Researcher (R2)
García Ortega, Lucía - Postdoctoral Researcher (R2)
García Mouton, Cristina - Predoctoral Researcher (R1)
Hidalgo Román, Alberto - Postdoctoral Researcher (R2)
Martínez Calle, Marta - Postdoctoral Researcher (R2)
Olmeda Lozano, Bárbara - Postdoctoral Researcher (R2)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Smart tools for gauging Nano Hazards (SMARTNANOTOX).
Coordinador: Vladimir Lobaskin (University College Dublin). Subcontractor: Jesús Pérez Gil, Universidad Complutense
Project No.: H2020-NMP-2015-686098
Funding Body: UE
Start date: 2017
End date: 2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	126.454
Reviews	4	9.439
Editorials	5	27.11
TOTAL	28	163.003
Letters	3	11.184
TOTAL	31	174.187

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MALE'S INTEGRAL HEALTH

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Romero Otero, Javier (R4)

Alonso Isa, Manuel - Predoctoral Researcher (R1)
Cabezali Barbancho, Daniel - Clinical Researcher (R2)
García Gómez, Borja - Clinical Researcher (R1)
García González, Lucía - Postdoctoral Researcher (R2)
García Rojo, Esther - Researcher

Gómez Fraile, Andrés - Doctoral Researcher (R4)
Martín Díaz, Marcos - Clinical Researcher (R2)
Medina Polo, José - Clinical Researcher (R2)
Sopeña Sutil, Raquel - Predoctoral Researcher (R1)

circulatory death donors maintained by nECMO has long-term outcomes comparable to standard criteria donation after brain death. American Journal of Transplantation. 2019; 19(2): 434-47. IF: 7.163 - Article.

- Moncada I, Krishnappa P, Romero J, Torremade J, Fraile A, Martínez-Salamanca JI, Porst H, Levine L. Penile traction therapy with the new device 'Penimaster PRO' is effective and safe in the stable phase of Peyronie's disease: a controlled multicentre study. BJU International. 2019; 123(4): 694-702. IF: 4.524 - Article.

- Gonzalez-Padilla DA, Gonzalez-Diaz A, Garcia-Gomez B, Villacampa-Aub F, Miranda-Utrera N, Rodriguez-Antolin A, Guerrero-Ramos F. Cystoscopy Real-Time Self-Visualization and Its Impact in Patient's Pain Perception. Journal of Endourology. 2019; 33(4): 309-13. IF: 2.267 - Article.

- Benitez-Sala R, Medina-Polo J, Justo-Quintas J, Gil-Moradillo J, Perez-Cadavid S, Arreola-Pajares A, Sopena-Sutil R, Lara-Isla A, Alonso-Isa M, Gonzalez-Padilla DA, Garcia-Rojo E, Miranda-Utrera N, Aguilar-Gisbert L, Tejido-Sanchez A. Infections related to healthcare in patients hospitalized in a Urology service: resistance patterns and adequacy of empirical antibiotic treatment as a prognostic factor. Actas Urológicas Españolas. 2019; 43(3): 151-7. IF: 1.136 - Article.

- Garcia-Rojo E, Medina-Polo J, Sopena-Sutil R, Guerrero-Ramos F, Garcia-Gomez B, Aguilar-Gisbert L, Garcia-Alvarez G, Azcutia-Gomez MR, Gomez-Martin F, Molero-Garcia JM, Pereda-Arregui E, Vargas-Machuca Cabanero MC, Villacampa-Auba F, Tejido Sanchez A. Analysis of referrals after a synergic work between Primary Care and Urology. Impact of joint protocol implementation and a continuing education program in our healthcare area. Actas Urológicas Españolas. 2019; 43(4): 176-81. IF: 1.136 - Article.

- Romero-Otero J, Garcia-Gonzalez L, Garcia-Gomez B, Alonso-Isa M, Garcia-Rojo E, Gil-Moradillo J, Duarte-Ojeda JM, Rodriguez-Antolin A. Analysis of holmium laser enucleation of the prostate in a high volume centre: the impact of concomitant holmium laser cystolitholapaxy. Journal of Endourology. 2019; 33(7): 564-9. IF: 2.267 - Article.

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	15	37.162
TOTAL	15	37.162

- Cozar JM, Minana B, Gomez-Veiga F, Rodriguez-Antolin A; Grp Gescap. Three-year interim results of overall and progression-free survival in a cohort of patients with prostate cancer (GESCAP group). Actas Urológicas Españolas. 2019; 43(1): 4-11. IF: 1.136 - Article.

- Molina M, Guerrero-Ramos F, Fernandez-Ruiz M, Gonzalez E, Cabrera J, Morales E, Gutierrez E, Hernandez E, Polanco N, Hernandez A, Praga M, Rodriguez-Antolin A, Pamplona M, de la Rosa F, Cavero T, Chico M, Villar A, Justo I, Andres A. Kidney transplant from uncontrolled donation after

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Aneiros Castro B, Cano Novillo I, García Vázquez A, Gómez Fraile A. Torsión simultánea de epidídimo y quiste epididimario. *Anales de Pediatría*. 2019; 91(1): 62-3. IF: 1.166 - Article.
- Redondo-Sedano J, Anton-Pacheco JL, Valverde RM, Diaz ML, Paredes CL, Guardia LM, Alelu RM, Huerta IJ, Gordo MIB, Fraile AG. Laryngeal stenosis in children: Types, grades and treatment strategies. *Journal of Pediatric Surgery*. 2019; 54(9): 1933-7. IF: 2.092 - Article.
- Carrillo Arroyo I, Fuentes Carretero S, Gómez Fraile A, Morante Valverde R, Tordable Ojeda C, Cabezalí Barbancho D. Technical challenges of endoscopic treatment for vesicoureteral reflux after Cohen reimplantation. *Actas Urológicas Españolas*. 2019; 43(7): 384-8. IF: 1.136 - Article.
- Angulo J, El Assar M, Sevilleja-Ortiz A, Fernandez A, Sanchez-Ferrer A, Romero-Otero J, Martinez-Salamanca JL, La Fuente JM, Rodriguez-Manas L. Short-term pharmacological activation of Nrf2 ameliorates vascular dysfunction in aged rats and in pathological human vasculature. A potential target for therapeutic intervention. *Redox Biology*. 2019; 26: 101271. IF: 7.793 - Article.
- Romero-Otero J, Garcia-Gonzalez L, Garcia-Gomez B, Justo-Quintas J, Garcia-Rojo E, Gonzalez-Padilla DA, Sopeña-Sutil R, Duarte-Ojeda JM, Rodriguez-Antolin A. Factors Influencing Intraoperative Blood Loss in Patients Undergoing Holmium Laser Enucleation of the Prostate (HoLEP) for Benign Prostatic Hyperplasia: A Large Multicenter Analysis. *Urology*. 2019; 132: 177-82. IF: 1.861 - Article.
- García Rojo E, García Gómez B, González Padilla DA, Abad López P, García González L, Rodríguez Antolín A, Romero Otero J. Assessment of the influence of transrectal and transperineal prostate biopsies on erectile function: A prospective observational single-center study. *International Journal of Urology*. 2019; 26(11): 1054-8. IF: 2.107 - Article.
- Bernabeu-Wittel M, Diez-Manglano J, Nieto-Martin D, Ramirez-Duque N, Ollero-Baturone M, Abella-Vazquez L, Aguayo-Canela M, Albert-Coll M, Aleman A, Aligue J, Gil-Ortega JB, Baron-Franco B, Bernabeu-Wittel M, de la Calle-Cabrera C, Cassani-Garza M, Castillo-Blasco M, Diez F, Diez-Manglano J, Escalera-Zalvide A, Feliu-Mazaria L, Fernandez-Miera MF, Fernandez-

- Moyano A, Formiga F, Forteza-Rey J, Fuertes-Martin A, Galindo-Ocana J, Giner P, Godoy M, Gomez-Lemes S, Llorente-Cancho H, Luque-Amado C, Machin-Lazaro JM, Maiz-Jimenez M, Martinez F, Martinez T, Martos F, Massa B, Medina J, Medrano-Gonzalez F, Perez-Barquero MM, Mora-Rufete A, Morales C, Moreno-Gavino L, Muela-Molinero A, Murcia-Zaragoza J, Nieto-Martin MD, Valeiro IN, Ollero-Baturone M, Pinilla B, Ramirez-Duque N, Ramos-Cantos C, Rincon-Gomez M, Rodriguez-Benedito ML, Rodriguez-Martinez V, Romero-Jimenez M, Ruiz S, Ruiz-Cantero A, Sacanella E, Sanchez-Ledesma M, Sanjose-Laporte A, Sanroman C, Soria-Lopez MA, Tejera-Concepcion A, Tenillado-Doblas P, Ternavasio G, Villegas-Bruguera E; Investigadores Proyecto PROFUND. Simplification of the Barthel scale for screening for frailty and severe dependency in polypathological patients. *Revista Clínica Española*. 2019; 219(8): 433-9. IF: 1.043 - Article.
- Carrillo-Arroyo I, Tordable-Ojeda C, Cabezalí-Barbancho D, Morante-Valverde R, Gomez-Fraile A. ¿Cómo varía la función y dilatación renal después de la cirugía de pieloplastia en edad pediátrica? *Archivos Españoles de Urología*. 2019; 72(9): 884-90. IF: 0.335 - Article.
- Aneiros Castro B, Cano Novillo I, Garcia Vazquez A, Martin Alelu R, Gomez Fraile A. Wilkie's syndrome in monozygotic twins treated by 3-D laparoscopic duodenolejunostomy. *Asian Journal of Endoscopic Surgery*. 2019; 12(1): 125-7. IF: N/A - Article.
- Aneiros B, Cano I, García A, Yuste P, Ferrero E, Gómez A. Pediatric Appendicitis: Age Does Make a Difference. *Revista Paulista de Pediatría: Orgao Oficial da Sociedade de Pediatria de Sao Paulo*. 2019; 37(3): 318-24. IF: N/A - Article.

Prizes and Awards

- Congreso: EAU 2019 Barcelona. 34th Annual EAU Congress Barcelona (EAU19), Barcelona (Spain): 15 March 2019 - 19 March 2019 - Premio Best Poster of Esther García Rojo.
Nombre del trabajo: Contribution of Orai channels to contraction of rat and human corpus cavernosum increases with aging: García Rojo E, Angulo J, García-Gómez B, Justo Quintas J, Santos- Pérez De La Blanca R, Medina-Polo J, Romero Otero J.

TISSUE ENGINEERING

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Serrano Hernández, Antonio (R4)
Alonso Riaño, Marina - Postdoctoral Researcher (R2)
Cabrera Marante, Óscar - Postdoctoral Researcher (R1)
Díaz Simón, Raquel - Postdoctoral Researcher (R1)
Martínez Salio, Antonio - Clinical Researcher

Naranjo Rondán, Laura - Predoctoral Researcher (R1)
Pleguezuelo Garrote, Daniel Enrique - Postdoctoral Researcher (R2)
Villar Ruiz, Olga Patricia - Clinical Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	Fundación Sociedad Madrileña de Trasplante	1
TOTAL		3

- Title:** Estudio de factores asociados a la aparición de los anticuerpos anti-fosfolípidicos pre-trasplante y su repercusión en la evolución del trasplante renal.
Principal Investigator: Antonio Serrano Hernández
Project No.: 2019/0078
Funding Body: Fundacion de la Sociedad Madrileña de Trasplante
Start date: 01/01/2019
End date: 31/12/2020
- Title:** Inmunocomplejos antifosfolípidicos circulantes en la sangre como factor patogénico de eventos trombóticos y morbilidad gestacional.
Principal Investigator: Antonio Serrano Hernández
Project No.: PI17/00147
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Anticuerpos antifosfolípido fuera del consenso de Sidney en pacientes con clínica de síndrome antifosfolípido primario y expandido con serología negativa.
Principal Investigator: Antonio Serrano Hernández
Project No.: PI14/00360
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 30/09/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	6	38.920
Reviews	3	4.383
TOTAL	9	43.303
Letters	4	10.721
TOTAL	13	54.024

- Morales JM, Serrano M, Martinez-Flores JA, Perez D, Serrano A. Antiphospholipid Syndrome and Renal Allograft Thrombosis. *Transplantation*. 2019; 103(3): 481-6. IF: 4.593 - Article.
- Serrano M, Martinez-Flores JA, Norman GL, Naranjo L, Morales JM, Serrano A. The IgA Isotype of Anti-β2 Glycoprotein I Antibodies Recognizes Epitopes in Domains 3, 4, and 5 That Are Located in a Lateral Zone of the Molecule (L-Shaped). *Frontiers in Immunology*. 2019; 10: 1031. IF: 4.716 - Article.
- Gordon CE, Berenguer MC, Doss W, Fabrizi F, Izopet J, Jha V, Kamar N, Kasiske BL, Lai CL, Morales JM, Patel PR, Pol S, Silva MO, Balk EM, Earley A, Di MY, Cheung M, Jadoul M, Martin P. Prevention, Diagnosis, Evaluation, and Treatment of Hepatitis C Virus Infection in Chronic Kidney Disease: Synopsis of the Kidney Disease: Improving Global Outcomes 2018 Clinical Practice Guideline. *Annals of Internal Medicine*. 2019; 171(7). IF: 19.315 - Article.
- Bellido C, Barbero P, Forcén L, Blanco M, Alonso-Riaño M, Galindo A. Lung adenocarcinoma during pregnancy: clinical case and literature review. *Journal of Maternal-Fetal & Neonatal Medicine*. 2019; 32(19): 3300-2. IF: 1.569 - Article.
- Serrano M, Moran L, Martinez-Flores JA, Mancebo E, Pleguezuelo D, Cabrera-Marante O, Delgado J, Serrano A. Immune Complexes of Beta-2-Glycoprotein I and IgA Antiphospholipid Antibodies Identify Patients With Elevated Risk of Thrombosis and Early Mortality After Heart Transplantation. *Frontiers in Immunology*. 2019; 10: 2891. IF: 4.716 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Jara-Palomares L, Alfonso M, Maestre A, Jimenez D, Garcia-Bragado F, Font C, Reyes RL, Blasco LH, Vidal G, Otero R, Monreal M, Adarraga MD, Aibar MA, Aibar J, Amado C, Arcelus JL, Ballaz A, Barba R, Barron M, Barron-Andres B, Bascunana J, Blanco-Molina A, Camon AM, Canas I, Carrasco C, Castro J, de Anchos C, Del Toro J, Demelo P, Diaz-Peromingo JA, Diaz-Simon R, Falga C, Farfan AI, Fernandez-Capitan C, Fernandez-Criado MD, Fernandez-Nunez S, Fidalgo A, Font L, Garcia MA, Garcia-Morillo M, Garcia-Raso A, Gavin-Sebastian O, Gayol MD, Gil-Diaz A, Gomez V, Gomez-Cuervo C, Gonzalez-Martinez J, Grau E, Gutierrez J, Gutierrez-Gonzalez S, Iglesias M, Jaras MJ, Jou I, Joya MD, Laluzza A, Lima J, Llamas P, Lobo JL, Lopez-Jimenez L, Lopez-Miguel P, Lopez-Nunez JJ, Lopez-Saez JB, Lorente MA, Lorenzo A, Loring M, Madridano O, Marchena PJ, Martin JM, Mellado M, Morales MD, Nieto ML, Nieto JA, Nunez MJ, Olivares MC, Pedrajas JM, Pellejero G, Prez-Rus G, Peris ML, Porras JA, Rivas A, Rodriguez-Davila MA, Rodriguez-Hernandez AA, Rubio CM, Ruiz-Artacho P, Ruiz-Ruiz J, Ruiz-Sada P, Sahuquillo JC, Salazar V, Samperiz A, Munoz-Torrero JFS, Sancho T, Soler S, Surinach JM, Tapia E, Tolosa C, Torres MI, Trujillo-Santos J, Uresandi F, Valle R, Villares P, Gutierrez P, Vazquez FJ, Vilaseca A, Vanassche T, Vandebrielle C, Verhamme P, Hirmerova J, Maly R, Celis G, del Pozo G, Salgado E, Benzidja I, Bertolletti L, Bura-Riviere A, Debourdeau P, Farge-Bancel D, Hij A, Mahe I, Moustafa F, Schellong S, Braester A, Brenner B, Tzoran I, Sharif-Kashani B, Barillari G, Bilora F, Bortoluzzi C, Brandolin B, Bucherini E, Ciamaichella M, Dentali F, Di Micco P, Maida R, Mastroiacovo D, Mumoli N, Pace F, Parisi R, Pesavento R, Prandoni P, Quintavalla R, Rocci A, Romualdi R, Sinicalchi C, Tufano A, Visona A, Hong NV, Zalunardo B, Gibetis V, Kigitovica D, Skride A, Bosevski M, Bounameaux H, Mazzolai L, Caprini JA, Bui HM, Pham KQ, Reis A; RIETE Investigators. Comparison of seven prognostic tools to identify low-risk pulmonary embolism in patients aged <50 years. *Scientific Reports*. 2019; 9: 20064. IF: 4.011 - Article.
- Morales E, Alonso M, Gutierrez E. Collapsing glomerulopathy: update. *Medicina Clínica*. 2019; 152(9): 361-7. IF: 1.277 - Review.
- Esforzado N, Morales JM. Hepatitis C and kidney transplant: The eradication time of the virus has arrived. *Nefrología*. 2019; 39(5): 458-72. IF: 1.439 - Review.

- Morales JM, Sawinski D. New Insights into the Rational Use of HCV+ Organs Worldwide. *Clinical Transplantation*. 2019; 33(12): e13739. IF: 1.667 - Review.
- Martinez-Flores JA, Serrano M, Serrano A. Antiphospholipid immune complexes as thrombosis risk marker. *Oncotarget*. 2019; 10(8): 805-6. IF: N/A - Editorial Material.
- Pampa-Saico S, Rodriguez-Mendiola N, Valles-Carboneras A, Gomis-Couto A, Saiz A, Martinez-Gonzalez MA, Diaz-Dominguez M, Liaño F. Treatment with bortezomib in dense deposit disease associated with monoclonal gammopathy of undetermined significance. *British Journal of Haematology*. 2019; 184(2): 302-4. IF: 5.206 - Letter.
- Urbanos Núñez AA, Barragán Martínez D, Torregrosa Martínez MH, Martínez Salio A. "Code stroke" activation in a patient with an external ventricular assist device. *Neurología*. 2019; 34(1): 64-5. IF: 2.038 - Letter.
- Redondo B, Moliz C, Alonso M, Paz-Ares L, Praga M, Morales E. Cancer immunotherapy: Great expectations in the world of oncology but a cause for kidney concern. *Nefrología*. 2019; 39(1): 94-6. IF: 1.439 - Letter.
- Rodríguez-López C, Guerrero Molina MP, Martínez Salio A. Rapidly progressing dementia as a form of presentation of Cushing syndrome. *Neurología*. 2019; 34(5): 339-40. IF: 2.038 - Letter.

Patents

- Title:** Inmunocomplejos artificiales y su uso como calibres en sistemas de detección de inmunocomplejos circulantes B2GP1-aB2GP1.
- Number:** P201830367.
- Type:** Spanish patent.
- Inventors:** Antonio Serrano Hernández, Manuel Serrano Blanco, José Ángel Martínez Flores.
- Owners:** Fundación i+12 (100%).
- Date of application:** 12/04/2018

ABDOMINAL ORGAN TRANSPLANT

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Jiménez Romero, Luis Carlos (R4)

Calvo Pulido, Jorge - Doctoral Researcher (R3)
Cabra Molero, Félix - Postdoctoral Researcher (R2)
Caso Maestro, Óscar - Doctoral Researcher (R3)
Cortes Guerrero, Manuel - Clinical Researcher (R2)
García Gutiérrez, Adolfo Francisco - Postdoctoral Researcher (R2)
García-Sesma Pérez- Fuentes, Álvaro - Doctoral Researcher (R3)
Guerrero Díez, María - Clinical Researcher (R1)

Justo Alonso, Iago - Doctoral Researcher (R4)
Kadaoui Boudih , Salah-Din - Clinical Researcher (R1)
Loinaz Segurola, Carmelo - Doctoral Researcher (R3)
Manrique Municipio, Alejandro - Doctoral Researcher (R3)
Marcacuzco Quinto, Alberto Alejandro - Doctoral Researcher (R3)
Ruiz de las Heras, Jesús - Postdoctoral Researcher (R2)
Torcal Abián, Fernando - Clinical Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	FMM	1
TOTAL		1

- Title:** Utilización de fascia de recto mayor del abdomen en defectos mayores de pared abdominal. Estudio experimental y aplicación clínica.
- Principal Investigator:** Carmelo Loinaz Segurola
- Project No.:** FIMM 2013/0073
- Funding Body:** Fundación de Investigación Médica Mutua Madrileña (FMM)
- Start date:** 25/09/2013
- End date:** 25/09/2016, extended to 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	8	38.172
Editoriales	4	12.611
TOTAL	12	50.783
Letters	2	20.804
TOTAL	14	71.587

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Dominguez MA, Fariñas MC, Lavid N, Gonzalez-Rico C, Garcia-Cuello L, Arnaiz de Las Revillas F, Fortun J, Aguado JM, Jimenez-Romero C, Bodro M, Almela M, Paredes D, Moreno A, Perez-Cameo C, Muñoz-Sanz A, Blanco-Fernandez G, Cabo-Gonzalez JA, Garcia-Lopez JL, Nuño E, Carratala J. The Impact of Culturing the Organ Preservation Fluid on Solid Organ Transplantation: A Prospective Multicenter Cohort Study. *Open Forum Infectious Diseases*. 2019; 6(6): ofz180. IF: 3.371 - Article.
- Zevallos-Villegas A, Alonso-Moralejo R, Cambra F, Hermida-Anchuelo A, Perez-Gonzalez V, Gamez-Garcia P, Sayas-Catalan J, De Pablo-Gafas A. Morbidity and mortality of serious gastrointestinal complications after lung transplantation. *Journal of Cardiothoracic Surgery*. 2019; 14(1): 181. IF: 1.470 - Article.
- Jimenez-Romero C, Manrique A, Calvo J, Caso O, Marcacuzco A, Garcia-Sesma A, Abradelo M, Nutu A, Garcia-Conde M, San Juan R, Justo I. Liver Transplantation Using Uncontrolled Donors After Circulatory Death: A 10-year Single-center Experience. *Transplantation*. 2019; 103(12): 2497-505. IF: 4.593 - Article.
- Fernandez GB, Bravo MAG, Delgado JB, Lopez AV, Lopez-Guerra D, Rodriguez-Laiz G, Villar-del-Moral J, Sanchez FP, Santoyo J, Andujar RL, Nuno J, Turrión VS, Pinto IG, Jimenez C, Baena JAL, Gutierrez MG, Prous JF, Sanchez DP, Barrera M, Garcia-Gil A, Ramirez P, Varo E, Bilbao I, Fondevila C, Rodriguez-Sanjuan JC; Grp Espanol Trabajo Trasplante Hep. A survey of Heads of Surgery and Residents on accessibility and employment in liver transplant teams in Spain. *Cirugía Española*. 2019; 97(10): 560-7. IF: 0.835 - Article.
- Gonzalez M, Miguel A, Ramos A, Librizzi S, Jimenez C, Hawkins F, Diaz-Guerra M. Different development of serum sclerostin compared to other bone remodeling markers in the first year after a liver transplant. *Revista de Osteoporosis y Metabolismo Mineral*. 2019; 11(1): 25-9. IF: N/A - Article.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Answer to June 2019 Photo Quiz. *Journal of Clinical Microbiology*. 2019; 57(6). IF: 4.959 - Editorial Material.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Photo Quiz: An Unexpected Organism Isolated from an Intracranial Epidural Abscess. *Journal of Clinical Microbiology*. 2019; 57(6): UNSP e00648-18. IF: 4.959 - Editorial Material.
- Vivas Lopez A, Pastor Altaba D, Nutu OA, Marcacuzco Quinto A. Giant Meckel diverticulum: A rare cause of intestinal obstruction. *Cirugía Española*. 2019; 97(7): 405. IF: 0.835 - Editorial Material.

- Nutu OA, Manrique Municipio A, Marcacuzco Quinto A, Calvo Pulido J, Jiménez Romero C. Using octreotide for refractory ascites after liver transplantation. *Revista Española de Enfermedades Digestivas*. 2019; 111(11): 882-4. IF: 1.858 - Editorial Material.
- Martinez Marivela T, Cortes Guerrero M, Real Navacerrada MI. Tracheal synechia visualized in flexible fibrobronchoscopy in induction of anesthesia for thoracic surgery. *Revista Española de Anestesiología y Reanimación*. 2019; 66(1): 57. IF: N/A- Editorial Material.
- Hessheimer AJ, Coll E, Ruiz P, Gastaca M, Rivas JL, Gomez M, Sanchez B, Santoyo J, Ramirez P, Parrilla P, Marin LM, Gomez-Bravo MA, Garcia-Valdecasas JC, Lopez-Monclus J, Bosca A, Lopez-Andujar R, Fundora-Suarez Y, Villar J, Garcia-Sesma A, Jimenez C, Rodriguez-Laiz G, Llado L, Rodriguez JC, Barrera M, Charco R, Lopez-Baena JA, Briceno J, Pardo F, Blanco G, Pacheco D, Dominguez-Gil B, Turrión VS, Fondevila C. Reply to: "ormothermic regional perfusion - What is the benefit?" *Journal of Hepatology*. 2019; 71(2): 443-5. IF: 18.946 - Letter.
- Marcacuzco Quinto AA, Nutu OA, Justo Alonso I. Umbilical metastasis of a pancreatic origin: Sister Mary Joseph's nodule. *Revista Española de Enfermedades Digestivas*. 2019; 111(12): 977-8. IF: 1.858 - Letter.

Theses Defended or Directed on the Group

Candidate: Oana Anisa Nutu

Title: Trasplante hepático por carcinoma hepatocelular. Utilización de injertos procedentes de donación en muerte circulatoria no controlada versus injertos de donantes en muerte encefálica

Director/s: Luis Carlos Jiménez Romero, Alberto Marcacuzco Quinto, Iago Justo Alonso

Date Defended: 08/05/2019

University: Universidad Complutense de Madrid

International Mention: No

Candidate: María García-Conde Delgado

Title: Resultados a largo plazo del trasplante hepático mediante la utilización de injertos hepáticos procedentes de donantes con muerte circulatoria (Maastricht tipo II)

Director/s: Luis Carlos Jiménez Romero, Alejandro Manrique Municipio , Iago Justo Alonso

Date Defended: 16/12/2019

University: Universidad Complutense de Madrid

International Mention: No

CRITICAL PATIENT

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Montejo González, Juan Carlos (R4)

Barea Mendoza, Jesús Arébalo - Researcher (R2)

Catalán González, Mª de las Mercedes - Doctoral Researcher (R3)

Chico Fernández, Mario - Researcher (R2)

Grau Carmona, Teodoro - Researcher (R3)

Lázaro Martín, Noelia Isabel - Researcher (R1)

Renes Carreño, Emilio - Postdoctoral Researcher (R2)

Sáez de la Fuente, Ignacio - Researcher (R1)

Sánchez-Izquierdo Riera, José Ángel - Researcher (R2)

Temprano Vázquez, Susana - Researcher (R1)

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	21	79.204
Reviews	1	6.402
TOTAL	22	85.606
Letters	4	10.055
TOTAL	26	95.661

- Garcia-Gigorro R, Molina-Collado Z, Saez-de la Fuente I, Sanchez-Izquierdo JA, Montejo Gonzalez JC. Application of the new Sepsis-3 definition in a cohort of patients with severe sepsis and septic shock admitted to Intensive Care Unit from the Emergency Department. *Medicina Clínica*. 2019; 152(1): 13-6. IF: 1.277 - Article.
- Molina M, Guerrero-Ramos F, Fernandez-Ruiz M, Gonzalez E, Cabrera J, Morales E, Gutierrez E, Hernandez E, Polanco N, Hernandez A, Praga M, Rodriguez-Antolin A, Pamplona M, de la Rosa F, Cavero T, Chico M, Villar A, Justo I, Andres A. Kidney transplant from uncontrolled donation after circulatory death donors maintained by nECMO has long-term outcomes comparable to standard criteria donation after brain death. *American Journal of Transplantation*. 2019; 19(2): 434-47. IF: 7.163 - Article.
- Singer P, Blaser AR, Berger MM, Alhazzani W, Calder PC, Casaer MP, Hiesmayr M, Mayer K, Montejo JC, Pichard C, Preiser JC, van Zanten ARH, Oczkowski S, Szczeklik W, Bischoff SC. ESPEN guideline on clinical nutrition in the intensive care unit. *Clinical Nutrition*. 2019; 38(1): 48-9. IF: 6.402 - Article.
- Villar J, Ambros A, Mosteiro F, Martinez D, Fernandez L, Ferrando C, Carriero D, Soler JA, Parrilla D, Hernandez M, Andaluz-Ojeda D, Anon JM, Vidal A, Gonzalez-Higueras E, Martin-Rodriguez C, Diaz-Lamas AM, Blanco J, Belda J, Diaz-Dominguez FJ, Rico-Feijoo J, Martin-Delgado C, Romera MA, Terceros-Almanza LJ, Garcia-Fuentes C, Bermejo-Aznarez S, Prieto Del Portillo IJ, Mudarra-Reche C, Dominguez-Aguado H, Viejo-Moreno R, Barea-Mendoza J, Gomez-Soler R, Casado-Flores I, Chico-Fernandez M. Prediction of massive bleeding in a prehospital setting: validation of six scoring systems. *Medicina Intensiva*. 2019; 43(3): 131-8. IF: 1.982 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- Heyland DK, van Zanten ARH, Grau-Carmona T, Evans D, Beishuizen A, Schouten J, Hoiting O, Bordejé ML, Krell K, Klein DJ, Gonzalez J, Perez A, Brown R, James J, Harris MS; Investigators of the PROMOTE LP101-CL-201 Trial. A multicenter, randomized, double-blind study of ulimorelin and metoclopramide in the treatment of critically ill patients with enteral feeding intolerance: PROMOTE trial. *Intensive Care Medicine*. 2019; 45(5): 647-56. IF: 18.967 - Article.
- Broch Porcar MJ, Rodriguez Cubillo B, Dominguez-Roldan, JM, Alvarez Rocha L, Ballesteros Sanz MA, Cervera Montes M, Chico Fernandez M, de Gea Garcia JH, Enríquez Giraudo P, García de Lorenzo Y Mateos A, Gomez Lopez R, Guerrero Pavon R, Lopez Sanchez F, Llompart-Pou JA, Lubillo Montenegro S, Molina Collado Z, Ramirez Galleymore P, Riveiro Vilaboa M, Sanchez Corral A, Herrera-Gutierrez ME. Practical document on the management of hyponatremia in critically ill patients. *Medicina Intensiva*. 2019; 43(5): 302-16. IF: 1.982 - Article.
- Serviá Goixart L, López Delgado JC, Grau Carmona T. Evaluación del grado de adherencia a las recomendaciones nutricionales en el paciente crítico. *Nutrición Hospitalaria*. 2019; 36(3): 510-6. IF: 0.759 - Article.
- Montejó González JC, Sánchez-Bayton Griffith M, Orejón García L. Papel del músculo en el paciente crítico. *Nutrición Hospitalaria*. 2019; 36(Spec No2): 12-7. IF: 0.759 - Article.
- Antequera Martín AM, Barea Mendoza JA, Muriel A, Sáez I, Chico-Fernández M, Estrada-Lorenzo JM, Plana MN. Buffered solutions versus 0.9% saline for resuscitation in critically ill adults and children. *Cochrane Database of Systematic Reviews*. 2019; 7: CD012247. IF: 7.755 - Article.
- Jung C, Wernly B, Muessig JM, Kelm M, Boumendil A, Morandi A, Andersen FH, Artigas A, Bertolini G, Cecconi M, Christensen S, Faraldi L, Fjolner J, Lichtenauer M, Bruno RR, Marsh B, Moreno R, Oeyen S, Ohman CA, Pinto BB, Soliman IW, Szczechlik W, Valentin A, Watson X, Zafeiridis T, De Lange DW, Guidet B, Flaatten H, Schmutz R, Wimmer F, Eller P, Joannidis M, De Buysscher P, De Neve N, Swinnen W, Abraham P, Hergafi L, Scheffold JC, Biskup E, Piza P, Taliadoros I, Dey N, Solling C, Rasmussen BS, Forceville X, Besch G, Mentec H, Michel P, Mateu P, Vettoretti L, Bourenne J, Marin N, Guillot M, Aissaoui N, Goulenok C, Thieulot-Rolin N, Messika J, Lamhaut L, Charron C, Lauten A, Sacher AL, Brenner T, Franz M, Bloos F, Ebelt H, Schaller SJ, Fuest K, Rabe C, Dieck T, Steiner S, Graf T, Nia AM, Janosi RA, Meybohm P, Simon P, Utzolino S, Rahmel T, Barth E, Schuster M, Aidoni Z, Aloizos S, Tasioudis P, Lampiri K, Zisopoulou V, Ravani I, Pagaki E, Antoniou A, Katsoulas TA, Kounougeri A, Marinakis G, Tsimpoukas F, Spyropoulou A, Zygoulis P, Kyparissi A, Gupta M, Gurjar M, Maji IM, Hayes I, Kelly Y, Westbrook A, Fitzpatrick G, Maheshwari D, Motherway C, Negri G, Spadaro S, Nattino G, Pedeferrri M, Boscolo A, Rossi S, Calicchio G, Cubattoli L, Di Lascio G, Barbagallo M, Berruto F, Codazzi D, Bottazzi A, Fumagalli P, Negro G, Lupi G, Savelli F, Vulcano GA, Fumagalli R, Marudi A, Lefons U, Lembo R, Babini M, Paggiaro A, Parrini V, Zaccaria M, Clementi S, Gigliuto C, Facondini F, Pastorini S, Munaron S, Calamai I, Bocchi A, Adorni A, Bocci MG, Cortegiani A, Casalicchio T, Mellea S, Graziani E, Barattini M, Brizio E, Rossi M, Hahn M, Kemmerer N, Strietzel HF, Dybwik K, Legernaes T, Klepstad P, Olaussen EB, Olsen KI, Brresen OM, Bjorsvik G, Maini S, Fehrle L, Czuczwar M, Krawczyk P, Zietkiewicz M, Nowak LR, Kotfis K, Cwyk K, Gajdosz R, Biernawska J, Bohatyrewicz R, Gawda R, Grudzień P, Nasilowski P, Popek N, Cyrankiewicz W, Wawrzyniak K, Wnuk M, Maciejewski D, Studzinska D, Zukowski M, Bernas S, Piechota M, Nowak I, Fronczeck J, Serwa M, Machala W, Stefaniak J, Wujtewicz M, Maciejewski P, Szymkowiak M, Adamik B, Catorze N, Branco MC, Barros I, Barros N, Krystopchuk A, Honrado T, Sousa C, Munoz F, Rebello M, Gomes R, Nunes J, Dias C, Fernandes AM, Petrisor C, Constantin B, Belskiy V, Boskholov B, Rodriguez E, Rebollo S, Aguilar G, Masdeu G, Jaimes MI, Mira AP, Bodi MA, Mendoza JAB, Lopez-Cuenca S, Guzman MH, Rico-Feijoo J, Ibar M, Alvarez JT, Kawati R, Sivik J, Nauska J, Smole D, Parenmark F, Lyren J, Rockstroh K, Ryden S, Spangfors M, Strinnholm M, Walther S, De Geer L, Nordlund P, Palsson S, Zetterquist H, Nilsson A, Thiringer K, Jungner M, Bark B, Nordling B, Skold H, Brorsson C, Persson S, Bergstrom A, Berkus J, Holmstrom J, van Dijk I, van Lelyveld-Haas LEM, Ramnarain D, Jansen T, Nooteboom F, van der Voort PHJ, de Lange D, Dieperink W, de Waard MC, de Smet AGE, Bormans L, Dormans T, Dempsey G, Mathew SJ, Raj AS, Grecu I, Cupitt J, Lawton T, Clark R, Popescu M, Spittle N, Faulkner M, Cowton A, Elloway E, Williams P, Reay M, Chukkambotla S, Kumar R, Al-Subaie N, Kent L, Tamm T, Kajtor I, Burns K, Pugh R, Ostermann M, Kam E, Bowyer H, Smith N, Templeton M, Henning J, Goffin K, Kapoor R, Laha S, Chilton P, Khaliq W, Crayford A, Coetzee S, Tait M, Stoker W, Gimenez M, Pope A, Camsooksa J, Pogson D, Quigley K, Ritzema J, Hormis A, Boulanger C, Balasubramaniam M, Vamplew L, Burt K, Martin D, Craig J, Prowle J, Doyle N, Shelton J, Scott C, Donnison P, Shelton S, Frey C, Ryan C, Spray D, Barnes V, Barnes K, Ridgway S, Saha R, Clark T, Wood J, Bolger C, Bassford C, Lewandowski J, Zhao XB, Humphreys S, Dowling S, Richardson N, Burtenshaw A, Stevenson C, Wilcock D, Nalapko Y; VIP1 Study Grp. A comparison of very old patients admitted to intensive care unit after acute versus elective surgery or intervention. *Journal of Critical Care*. 2019; 52: 141-8. IF: 2.783 - Article.
- Yebenes JC, Campins L, Martínez de Lagran I, Bordejé L, Lorencio C, Grau T, Montejó JC, Bodi M, Serra-Prat M; Working Group on Nutrition and Metabolism of the Spanish Society of Critical Care. Nutritrauma: A Key Concept for Minimising the Harmful Effects of the Administration of Medical Nutrition Therapy. *Nutrients*. 2019; 11(8): 1775. IF: 4.171 - Article.
- Cantón Blanco A, Lozano Fuster FM, Del Olmo García MºD, Virgili Casas MN, Wandern-Berghe Lozano C, Avilés V, Ashbaugh Engúdanos R, Ferrero López I, Molina Soria JB, Montejó González JC, Bretón Lesmes I, Álvarez J, Moreno Villares JM. Manejo nutricional de la demencia avanzada: resumen de recomendaciones del Grupo de Trabajo de Nutrición de la SENPE. *Nutrición Hospitalaria*. 2019; 36(4): 988-95. IF: 0.759 - Article.
- Lopez Cuenca S, Oteiza Lopez L, Lazaro Martin N, Irazabal Jaimes MM, Ibarz Villamayor M, Artigas, A, Lorente Balanza JA. Frailty in patients over 65 years of age admitted to Intensive Care Units (FRAIL-ICU). *Medicina Intensiva*. 2019; 43(7): 395-401. IF: 1.982 - Article.
- Barea-Mendoza JA, Terceros-Almanza LJ, Garcia-Fuentes C, Bermejo-Aznarez S, Prieto Del Portillo IJ, Mudarra-Reche C, Valiente-Fernandez M, Rodriguez-Biendicho A, Montejó Gonzalez JC, Chico-Fernandez M. Rotational thromboelastometry (ROTEM) profile in a cohort of asystole donors. *Medicina Intensiva*. 2019; 43(7): 410-5. IF: 1.982 - Article.
- Chico Fernandez M, Mudarra Reche C. Traumatic coagulopathies. *Medicina Intensiva*. 2019; 43(8): 497-9. IF: 1.982 - Article.
- Bordejé ML, Montejó JC, Mateu ML, Solera M, Acosta JA, Juan M, García-Córdoba F, García-Martínez MA, Gastaldo R; PIANE STUDY GROUP SPAIN. Intra-Abdominal Pressure as a Marker of Enteral Nutrition Intolerance in Critically Ill Patients. The PIANE Study. *Nutrients*. 2019; 11(11): 2616. IF: 4.171 - Article.
- Barea-Mendoza JA, Chico-Fernandez M, Martinez-Luengo B, Regidor-Sanz E, Gonzalez-Robledo J, Llompart-Pou JA. Tracheostomy after Severe Trauma: Associated Risk Factors in the Spanish Trauma ICU Registry (RETRAUCI). *American Surgeon*. 2019; 85(12): 623-4. IF: 0.610 - Article.
- Berger MM, Reintam-Blaser A, Calder PC, Casaer M, Hiesmayr MJ, Mayer K, Montejó JC, Piachard C, Preiser JC, van Zanten ARH, Bischoff SC, Singer P. Monitoring nutrition in the ICU. *Clinical Nutrition*. 2019; 38(2): 584-93. IF: 6.402 - Review.
- Barea-Mendoza JA, Saez I, Chico-Fernandez M. SMART: The saline was always on the tightrope. *Medicina Intensiva*. 2019; 43(5): 323. IF: 1.982 - Letter.
- Viejo-Moreno R, Garcia-Fuentes C, Mudarra-Reche C, Terceros-Almanza LJ, Chico-Fernandez M. Laryngeal injury in closed cervical traumatism. *Medicina Intensiva*. 2019; 43(8): 503-7. IF: 1.982 - Letter.
- Adolph M, Calder PC, Deutz NE, Carmona TG, Klek S, Lev S, Mayer K, Michael-Titus AT, Pradelli L, Puder M, Singer P, Vlaardingerbroek H. Commentary on "Fish Oil-Containing Lipid Emulsions in Adult Parenteral Nutrition: A Review of the Evidence". *Journal of Parenteral and Enteral Nutrition*. 2019; 43(4): 454-5. IF: 4.109 - Letter.
- Escudero-Acha P, Palomo Navarro M, Leizaola Irigoyen O, Vidal Tegedor B, Gonzalez Romero D, Misis Del Campo M, Recena Perez P, Pavia Pesquera MC, Freita Ramos S, Miro Andreu G, de Pablo Hermida AM, Barcelo Castello M, Blasco Cortes ML, Ballesteros Ortega D, Lazaro Martin N, Diaz DD, Perez Ruiz M, Poyo-Guerrero R, Cordero Vallejo M, Acune O, Duerto Alvarez J, Garcia Torrejon MC, Gomez EMG, Claverias Cabrerias L, Gomez Acebo I, Gonzalez-Castro A; Grp Trabajo Bioética SEMICYUC. Preliminary results of the ADENI-ICU trial: Analysis of decisions of refuse admission in intensive care units as a limitation of life support treatments; multi-center, prospective, observational study. *Medicina Intensiva*. 2019; 43(5): 317-9. IF: 1.982 - Letter.





KIDNEY TRANSPLANT

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Andrés Belmonte, Amado (R4)

Auñón Rubio, Mª Pilar - Researcher Predoctoral (R1)
Bello Mimbrera, Tomás - Support Nurse
Cebrián Espejo, Mª Paz - Support Nurse
Delgado Arranz, Mª Isabel - Support Nurse
García Santiago, Ana - Researcher Predoctoral (R1)
Gutiérrez Solís, Elena - Researcher Predoctoral (R1)
Hernández Vicente, Ana Mª - Researcher Predoctoral (R1)

Mercado Valdivia, Verónica Ruth - Researcher Predoctoral (R1)
Molina Gómez, María - Researcher Postdoctoral (R2)
Nuño Santana, Enriqueta Isabel - Support Nurse
Polanco Fernández, Natalia Inmaculada - Researcher Predoctoral (R1)
Vázquez Guntin, Sofía - Support Nurse
Vereda Rodríguez, Soledad - Support Nurse

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	FMM	1
Non Competitive	Various	1
TOTAL		2

▪ **Title:** Trasplante renal con donantes y receptores de edad avanzada: desarrollo y validación de un score predictivo de supervivencia del injerto y del paciente.

Principal Investigator: Amado Andrés Belmonte

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Start date: 29/08/2016

End date: 28/08/2019

▪ **Title:** Lesiones orales en el paciente trasplantado renal.

Principal Investigator: Amado Andrés Belmonte

Funding Body: Asociación Investigación y Tratamiento Enfermedad Renal

Start date: 22/06/2017

End date: 21/06/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	21	79.204
Reviews	1	6.402
TOTAL	22	85.606
Letters	4	10.055
TOTAL	26	95.661

- Fernandez-Ruiz M, Gimenez E, Vinuesa V, Ruiz-Merlo T, Parra P, Amat P, Montejo M, Paez-Vega A, Cantisan S, Torre-Cisneros J, Fortun J, Andres A, San Juan R, Lopez-Medrano F, Navarro D, Aguado JM; Group for Study of Infection in Transplantation of the Spanish Society of Infect. Regular monitoring of cytomegalovirus-specific cell-mediated immunity in intermediate-risk kidney transplant recipients: predictive value of the immediate post-transplant assessment. *Clinical Microbiology and Infection.* 2019; 25(3): 381.e1. IF: 6.425 - Article.
- Fernandez-Ruiz M, Albert E, Gimenez E, Ruiz-Merlo T, Parra P, Lopez-Medrano F, San Juan R, Polanco N, Andres A, Navarro D, Aguado JM. Monitoring of alphaherpesvirus DNA levels for the prediction of immunosuppression-related complications after kidney transplantation. *American Journal of Transplantation.* 2019; 19(4): 1139-49. IF: 7.163 - Article.
- Hernandez G, Paredes V, Lopez-Pintor RM, de Andres A, de Vicente JC, Sanz M. Implant treatment in immunosuppressed renal transplant patients: A prospective case-controlled study. *Clinical Oral Implants Research.* 2019; 30(6): 524-30. IF: 3.825 - Article.

- Sevillano AM, Diaz M, Caravaca-Fontan F, Barrios C, Bernis C, Cabrera J, Calviño J, Castillo L, Cobelo C, Delgado-Mallen P, Espinosa M, Fernandez-Juarez G, Fernandez-Reyes MJ, Garcia-Osuna R, Garcia P, Goicoechea M, Gonzalez-Cabrera F, Guzman DA, Heras M, Martin-Reyes G, Martinez A, Olea T, Peña JK, Quintana LF, Rabasco C, Lopez Revuelta K, Rodas L, Rodriguez-Mendiola N, Rodriguez E, San Miguel L, Sanchez de la Nieta MD, Shabaka A, Sierra M, Valera A, Velo M, Verde E, Ballarin J, Noboa O, Moreno JA, Gutierrez E, Praga M; Spanish Group for the Study of Glomerular Diseases (GLOSEN). IgA Nephropathy in Elderly Patients. *Clinical Journal of The American Society of Nephrology.* 2019; 14(8): 1183-92. IF: 6.243 - Article.

- Bellur SS, Roberts ISD, Troyanov S, Royal V, Coppo R, Cook HT, Catran D, Terroba YA, Asunis AM, Bajema I, Bertoni E, Bruijn JA, Cannata-Ortiz P, Casartelli D, Di Palma AM, Ferrario F, Fortunato M, Furci L, Gakiopoulou H, Ljubanovic DG, Giannakakis K, Goma M, Grone HJ, Gutierrez E, Haider SA, Honsova E, Ioachim E, Karkoszka H, Kipgen D, Maldyk J, Mazzucco G, Orhan D, Ozluk Y, Pantzaki A, Perkowska-Ptasinska A, Riispere Z, Soderberg MP, Steenbergen E, Stoppacciaro A, Von Feilitzen BS, Tardanico R. Reproducibility of the Oxford classification of immunoglobulin A nephropathy, impact of biopsy scoring on treatment allocation and clinical relevance of disagreements: evidence from

the VALIDATION of IGA study cohort. *Nephrology Dialysis Transplantation.* 2019; 34(10): 1681-90. IF: 4.198 - Article.

▪ Molina M, Dominguez-Gil B, Perez-Villares JM, Andres A. Uncontrolled donation after circulatory death: ethics of implementation. *Current Opinion in Organ Transplantation.* 2019; 24(3): 358-63. IF: 2.574 - Review.

▪ Fernandez-Ruiz M, Rodriguez-Goncer I, Ruiz-Merlo T, Parra P, Lopez-Medrano F, Andres A, Aguado JM. Low 25-hydroxyvitamin D Levels and the Risk of Late CMV Infection after Kidney Transplantation: Role for CMV-specific Mediated Immunity. *Transplantation.* 2019; 103(8): 216-7. IF: 4.593 - Letter.

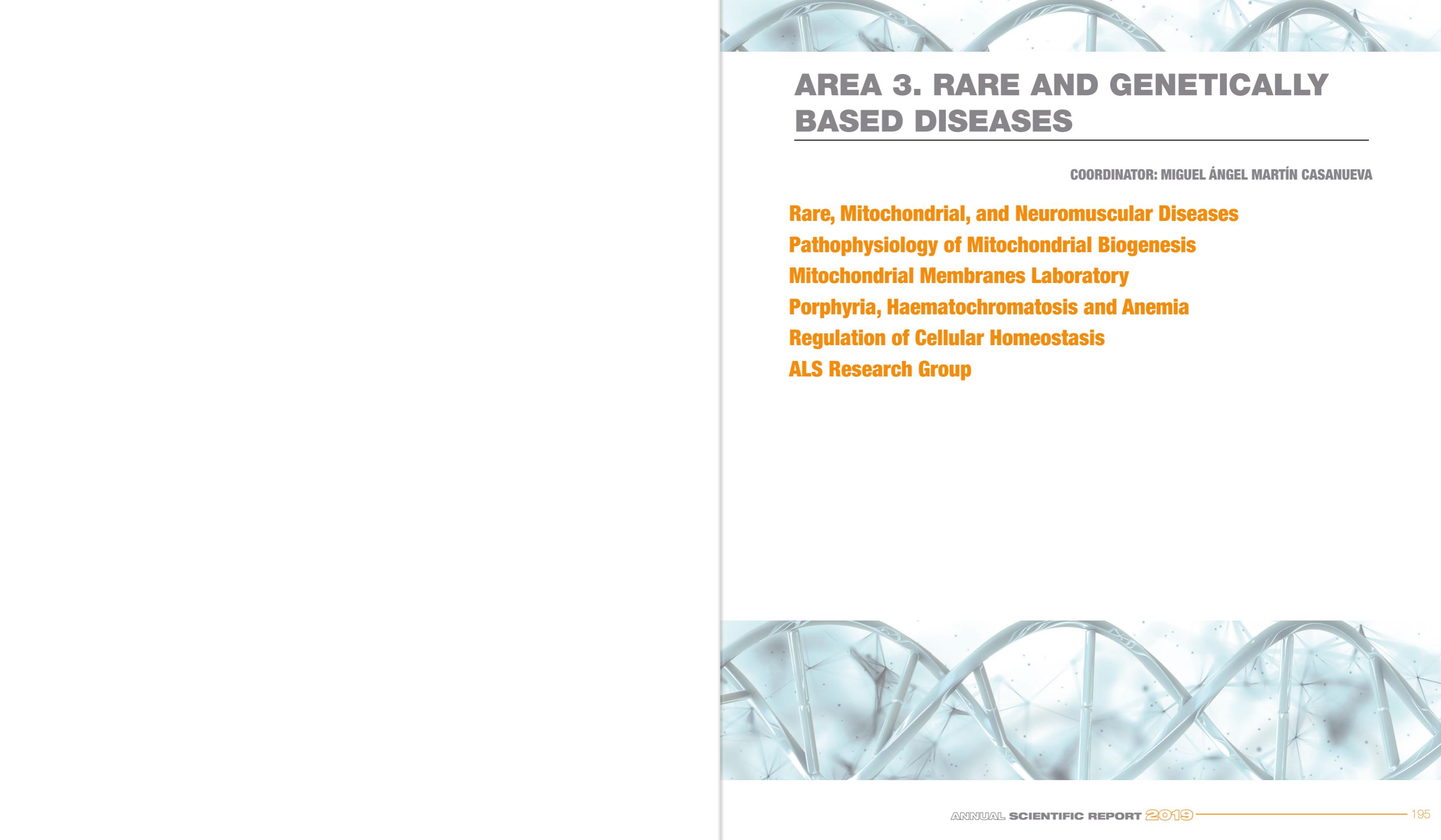
End Graduated Investigations Directed on the Group

▪ **Student:** Irene Marina Camacho Gutiérrez

Title: Tumor en el paciente trasplantado: una patología en auge

Directors: Amado Andrés Belmonte y Esther González

Degree: Medicina (UCM)



AREA 3. RARE AND GENETICALLY BASED DISEASES

COORDINATOR: MIGUEL ÁNGEL MARTÍN CASANUEVA

Rare, Mitochondrial, and Neuromuscular Diseases
Pathophysiology of Mitochondrial Biogenesis
Mitochondrial Membranes Laboratory
Porphyria, Haemochromatosis and Anemia
Regulation of Cellular Homeostasis
ALS Research Group



The Rare and Genetically Based Diseases Research Area is made up of three groups of clinical-basic nature, with a long history at the 12 de Octubre University Hospital, which focus on some rare genetically based diseases such as mitochondrial disorders, neurometabolic diseases and ALS, disorders of heme and iron metabolism (porphyrias, rare anaemias and haemochromatosis), and three other more basic groups of academic orientation with different biological approaches (biochemistry and molecular biology FBM-UAM, biophysics LMM-UCM and cell biology RHC-CBM) whose main activity focuses on the study of mitochondrial dysfunction.

Main objectives in the area

- Promote the holding of joint scientific seminars to foster cooperative projects in the area.
- Consolidate close and permanent collaboration between the groups in the Area that are most focused on genomics (ERMN, PHA, and ALS) with the Genetics and Inheritance group of the i+12 Transversal Area.
- To increase the mobility of young researchers between groups in the area with short stays: improving technical skills, development of project objectives, etc.
- Increase in the recruitment of human resources at pre-doctoral and post-doctoral levels and stabilisation of senior researchers in the groups.



List of the five most relevant publications of the Rare and Genetically Based Diseases Research Area during 2019

The following are the 5 most relevant publications in the Rare and Genetically Based Diseases Research Area selected on the basis of original articles led by researchers in the area, published in decile 1 or quartile 1 of their thematic category in JCR and most often cited:

1. **Dominguez-Gonzalez C, Madruga-Garrido M, Mavillard F, Garone C, Aguirre-Rodriguez FJ, Donati MA, Kleinsteuber K, Martí I, Martin-Hernandez E, Morealejo-Aycinena JP, Munell F, Nascimento A, Kalko SG, Sardina MD, del Vayo CA, Serrano O, Long YL, Tu YQ, Levin B, Thompson JLP, Engelstad K, Uddin J, Torres-Torronteras J, Jimenez-Mallebrera C, Martí R, Paradas C, Hirano M.** Deoxynucleoside Therapy for Thymidine Kinase 2-Deficient Myopathy. *Annals of Neurology*. 2019; 86(2): 293-303. IF: 9.037 - D1 - Article.
2. **Calvo AC, Cibreiro GA, Merino PT, Roy JF, Galiana A, Rufian AJ, Cano JM, Martín MA, Moreno L, Larrode P, Vazquez PC, Galan L, Mora J, Muñoz-Blanco JL, Muñoz MJ, Zaragoza P, Pegoraro E, Soraru G, Mora M, Lunetta C, Penco S, Tarlarini C, Esteban J, Osta R, Redondo AG.** Collagen XIX Alpha 1 Improves Prognosis in Amyotrophic Lateral Sclerosis. *Aging and Disease*. 2019; 10(2): 278-92. IF: 5.402 - D1 - Article.
3. **Plaza-Ga I, Manzaneda-Gonzalez V, Kisovec M, Almendro-Vedia V, Muñoz-Úbeda M, Anderluh G, Guerrero-Martinez A, Natale P, López Montero I.** pH-triggered endosomal escape of pore-forming Listeriolysin O toxin-coated gold nanoparticles. *Journal of Nanobiotechnology*. 2019; 17(1): 108. IF: 6.518 - D1 - Article.
4. **Carrasco E, Soto-Heredero G, Mittelbrunn M.** The Role of Extracellular Vesicles in Cutaneous Remodeling and Hair Follicle Dynamics. *International Journal of Molecular Sciences*. 2019; 20(11): 2758. IF: 4.556 - Q1 - Review.
5. **Panades-de Oliveira L, Rodriguez-Lopez C, Cantero Montenegro D, Marcos Toledano MDM, Fernandez-Marmiesse A, Esteban Perez J, Hernandez Lain A, Dominguez-Gonzalez C.** Bethlem myopathy: a series of 16 patients and description of seven new associated mutations. *Journal of Neurology*. 2019; 266(4): 934-41. IF: 3.956 - Q1 - Article.

RARE, MITOCHONDRIAL AND NEUROMUSCULAR DISEASES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Martín Casanueva, Miguel Ángel (R4)

Amate García, Guillermo - Predoctoral Researcher (R1)
 Arenas Barbero, Joaquín - Doctoral Researcher (R4)
 Asensio Peña, Sara - Predoctoral Researcher (R1)
 Bermejo Gómez, Verónica - Support Technician
 Blázquez Encinar, Alberto - Predoctoral Researcher (R1)
 Cotrina Vinagre, Francisco Javier - Predoctoral Researcher (R1)
 del Hoyo Gordillo, Mª del Pilar - Support Technician
 Delmiro Magdalena, Aitor - Postdoctoral Researcher (R2)
 Docampo Cordeiro, Jorge - Predoctoral Researcher (R1)
 Domínguez González, Cristina - Predoctoral Researcher (R1)
 Fernández de La Torre, Miguel - Predoctoral Researcher (R1)
 García Silva, Mª Teresa - Doctoral Researcher (R4)
 García-Conseguera Galiana, Inés - Doctoral Researcher (R3)
 Garrido Moraga, Rocío - Support Technician
 González Quintana, Adrián - Predoctoral Researcher (R1)
 Hidalgo Mayoral, Irene - Bachelor Researcher

Illescas García, María - Predoctoral Researcher (R1)
 Jiménez García, Sara - Support Technician
 Laine Menendez, Sara - Predoctoral Researcher (R1)
 Martín Hernández, Elena - Doctoral Researcher (R4)
 Martínez Azorín, Francisco - Doctoral Researcher (R4)
 Morales Conejo, Montserrat - Doctoral Researcher (R3)
 Morán Bermejo, Mª Jesús - Doctoral Researcher (R4)
 Peñas Pita Da Veiga, Ana - Predoctoral Researcher (R1)
 Pérez Pérez, Rafael - Doctoral Researcher (R3)
 Quijada Fraile, Mª del Pilar - Postdoctoral Researcher (R2)
 Rodríguez García, Mª Elena - Doctoral Researcher (R3)
 Rubio Muñoz, Juan Carlos - Doctoral Researcher (R3)
 Sánchez Zapardiel, José Manuel - Predoctoral Researcher (R1)
 Serrano Lorenzo, Pablo - Predoctoral Researcher (R1)
 Ugalde Bilbao, Cristina - Doctoral Researcher (R4)

Active Research Projects

Type of Funding	Funding Body	NO. of Projects
Competitive	University of Miami	1
Competitive	ISCIII	11
Competitive	FMM	2
Non Competitive	Various	2
TOTAL		16

Title: The biosynthetic pathway of mitochondrial respirasomes.
Principal Investigator: Cristina Ugalde Bilbao
Funding Body: University of Miami
Start date: 01/02/2017
End date: 31/05/2018, extended to 31/12/2020

Title: Correlación clínico-genómica, y estudio celular de patomecanismos y cribado farmacológico en pacientes con Enfermedades Mitocondriales OXPHOS.

Principal Investigator: Miguel Ángel Martín Casanueva

Project No.: PI18/01374

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

Title: Desarrollo de una plataforma de diagnóstico no invasivo para las enfermedades ophos basada en la detección de nuevos biomarcadores proteicos implicados en la disfunción mitocondrial.

Principal Investigator: Cristina Ugalde Bilbao

Project No.: PI17/00048

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: Estudio del potencial terapéutico del ejercicio físico en las enfermedades mitocondriales. implicación del estrés oxidativo.

Principal Investigator: Mª Jesús Morán Bermejo

Project No.: PI17/00093

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: Medicina personalizada de enfermedades mitocondriales: del diagnóstico genético al descubrimiento del fármaco mediante el uso de genes supresores como dianas farmacológicas.

Principal Investigator: Francisco Martínez Azorín

Project No.: PI17/00487

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: Innovación terapéutica en enfermedad de MCARDLE: Terapia sustitutiva de miofosforilasa mediante vehículos liposómicos.

Principal Investigator: Joaquín Arenas Barbero

Project No.: PI17/02052

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: A precise approach for nucleoside-based therapy of neuromuscular disorders with defects in mitochondrial DNA.

Principal Investigator: Miguel Ángel Martín Casanueva

Project No.: PMP15/00025

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2019

Title: Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención: parte 1: variabilidad genética y función mitocondrial.

Principal Investigator: Miguel Ángel Martín Casanueva

Project No.: PI15/00431

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

Title: Enfermedad de McArdle (Glucogenosis Tipo V): nuevas aproximaciones diagnósticas, fisiopatológicas y terapéuticas.

Principal Investigator: Joaquín Arenas Barbero

Project No.: PI14/00903

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: El entrenamiento como inductor/modulador de mioquinas y neutrofinas en enfermedades mitocondriales. Una estrategia terapéutica.

Principal Investigator: Mª Jesús Morán Bermejo

Project No.: PI14/01085

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: Búsqueda y caracterización de biomarcadores para enfermedades mitocondriales asociadas a déficits enzimáticos del sistema OXPHOS.

Principal Investigator: Cristina Ugalde Bilbao

Project No.: PI14/00209

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: Diagnóstico genético y farmacogenómica de enfermedades mitocondriales mediante secuenciación masiva y complementación funcional.

Principal Investigator: Francisco Martínez Azorín

Project No.: PI14/00790

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

Title: Aplicación de técnicas de secuenciación masiva en el diagnóstico de enfermedades musculares raras de inicio en la infancia.

Principal Investigator: Cristina Domínguez González

Project No.: FMM2018/0125

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Start date: 14/09/2018

End date: 13/09/2021

Title: Fisiopatogenia de la mutación M.3243A>G del ADN Mitochondrial: estudio clínico, evolutivo y genético, en una cohorte prospectiva de pacientes españoles.

Principal Investigator: Monserrat Morales Conejo

Project No.: FMM2017/0126

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Start date: 07/09/2017

End date: 06/09/2020

Title: Registro de enfermedades genéticas y de baja prevalencia (GENRARE).

Principal Investigator: Elena Martín Hernández

Funding Body: Asociación de Enfermos de Patologías Mitocondriales

Start date: 03/04/2019

End date: 02/04/2020

Title: Identificación de la causa genético-molecular en pacientes en fenotipos, clínicos, bioquímicos y moleculares de enfermedad mitocondrial del

sistema de fosforilación oxidativa (OXPHOS).

Principal Investigator: Miguel Ángel Martín Casanueva

Funding Body: Asociación de Enfermos de Patologías Mitocondriales

Start date: 29/11/2016

End date: 28/11/2019, extended to 31/07/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Identificación de la causa genético-molecular en pacientes con fenotipos clínicos, bioquímicos y moleculares de enfermedad mitocondrial del Sistema De Fosforilación Oxidativa (OXPHOS).

Principal Investigator: Miguel Ángel Martín Casanueva

Funding Body: Asociaciones de Pacientes Mitocondriales AEPMI y FACDM

Start date: 01/08/2019

End date: 31/07/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	33	145.335
Reviews	2	4.450
TOTAL	35	149.785
Letters	4	31.423
TOTAL	39	181.208

- Cruz-Bermudez A, Laza-Briviesca R, Vicente-Blanco RJ, Garcia-Grande A, Coronado MJ, Laine-Menendez S, Alfaro C, Sanchez JC, Franco F, Calvo V, Romero A, Martin-Acosta P, Salas C, Garcia JM, Provencio M. Cancer-associated fibroblasts modify lung cancer metabolism involving ROS and TGF-beta signaling. *Free Radical Biology and Medicine*. 2019; 130: 163-73. IF: 5.657 - Article.

- Blanco-Palmero VA, Hernandez-Lain A, Uriarte-Perez de Urabayen D, Cantero-Montenegro D, Olive M, Dominguez-Gonzalez C. Late onset distal myopathy: A new telethoninopathy. *Neuromuscular Disorders*. 2019; 29(1): 80-3. IF: 2.612 - Article.

- Hampel H, Vergallo A, Afshar M, Akman-Anderson L, Arenas J, Benda N, Batrla R, Broich K, Caraci F, Cuello AC, Emanuele E, Haberkamp M, Kiddie SJ, Lucia A, Mapstone M, Verdooner SR, Woodcock J, Lista S. Blood-based systems biology biomarkers for next-generation clinical trials in Alzheimer's disease? *Dialogues in Clinical Neuroscience*. 2019; 21(2): 177-91. IF: 4.867 - Article.

Fernandez-Simon E, Carrasco-Rozas A, Gallardo E, Figueroa-Bonaparte S, Belmonte I, Pedrosa I, Montiel E, Suarez-Calvet X, Alonso-Perez J, Segovia S, Nunez-Peralta C, Llauger J, Mayos M, Illa I, Diaz-Manera J, Barba-Romero MA, Barcena J, Carzorla MR, Creus C, Coll-Canti J, de Luna N, Diaz M, Dominguez C, Fernandez-Torron R, Garcia-Antelo MJ, Grau JM, Gomez-Caravaca MT, Leon-Hernandez JC, de Munain AL, Martinez-Garcia FA, Morgado Y, Moreno A, Moris G, Munoz-Blanco MA, Nascimento A, Paradas C, Parajua-Pozo JL, Querol L, Robledo-Strauss A, Rojas-Garcia R, Rojas-Marcos I, Salazar JA, Uson M; Spanish Pompe Study Grp. PDGF-BB serum levels are decreased in adult onset Pompe patients. *Scientific Reports*. 2019; 9(1): 2139. IF: 4.011 - Article.

- Hernandez-Lain A, Cantero D, Camacho-Salas A, Toldos O, Esteban I, Pascual I, Dominguez-Gonzalez C. Autosomal dominant distal myopathy with nemaline rods due to p.Glu197Asp mutation in ACTA1. *Neuromuscular Disorders*. 2019; 29(3): 247-50. IF: 2.612 - Article.
- Huemer M, Diodato D, Martinelli D, Olivieri G, Blom H, Gleich F, Kolker S, Kozich V, Morris AA, Seifert B, Froese DS, Baumgartner MR, Dionisi-Vici C, Martin CA, Baethmann M, Ballhausen D, Blasco-Alonso J, Boy N, Bueno M, Burgos Pelaez R, Cerone R, Chabrol B, Chapman KA, Couce ML, Crushell E, Dalmau Serra J, Diogo L, Ficicioglu C, Garcia Jimenez MC, Garcia Silva MT, Gaspar AM, Gautsch M, Gonzalez-Lamuno D, Gouveia S, Grunewald S, Hendriksz C, Janssen MCH, Jesina P, Koch J, Konstantopoulou V, Lavigne C, Lund AM, Martins EG, Meavilla Olivas S, Mention K, Mochel F, Mundy H, Murphy E, Paquay S, Pedron-Giner C, Ruiz Gomez MA, Santra S, Schiff M, Schwartz IV, Scholl-Burgi S, Servais A, Skouma A, Tran C, Vives Pinera I, Walter J, Weisfeld-Adams J; EHOD Consortium. Phenotype, treatment practice and outcome in the cobalamin-dependent remethylation disorders and MTHFR deficiency: Data from the E-HOD registry. *Journal of Inherited Metabolic Disease*. 2019; 42(2): 333-52. IF: 4.287 - Article.

- Real-Martinez A, Brull A, Huerta J, Tarrasó G, Lucia A, Martin MA, Arenas J, Andreu AL, Nogales-Gadea G, Vissing J, Krag TO, de Luna N, Pinós T. Low survival rate and muscle fiber-dependent aging effects in the McArdle disease mouse model. *Scientific Reports*. 2019; 9(1): 5116. IF: 4.011 - Article.
- Martinez-Monseny A, Cuadras D, Bolasell M, Muchart J, Arjona C, Borregan M, Algrabi A, Montero R, Artuch R, Velazquez-Fragua R, Macaya A, Perez-Cerda C, Perez-Duenas B, Perez B, Serrano M, Aguilera-Albesa S, Gutierrez-Solana LG, Lopez L, Felipe A, Miranda MC, Carratala F, Yoldi ME, Lopez-Laso E, Sierra-Corcoles MC, Sebastian-Garcia I, Aisa E, Cancho-Candela R, Carrasco-Marina ML, Couce ML, Roldan S, Morales M, Conde-Lorenzo N, Garcia O; CDG Spanish Consortium. From gestalt to gene: early predictive dysmorphic features of PMM2-CDG. *Journal of Medical Genetics*. 2019;

56(4): 236-45. IF: 5.899 - Article.

- Navarrete R, Leal F, Vega AI, Morais-Lopez A, Garcia-Silva MT, Martin-Hernandez E, Quijada-Fraile P, Bergua A, Vives I, Garcia-Jimenez I, Yahyaoui R, Pedron-Giner C, Belanger-Quintana A, Stanescu S, Canedo E, Garcia-Campos O, Bueno-Delgado M, Delgado-Pecellin C, Vitoria I, Rausell MD, Balmaseda E, Couce ML, Desviat LR, Merinero B, Rodriguez-Pombo P, Ugarte M, Perez-Cerda C, Perez B. Value of genetic analysis for confirming inborn errors of metabolism detected through the Spanish neonatal screening program. *European Journal of Human Genetics*. 2019; 27(4): 556-62. IF: 3.650 - Article.
- Panades-de Oliveira L, Rodriguez-Lopez C, Cantero Montenegro D, Marcos Toledo MDM, Fernandez-Marmiesse A, Esteban Perez J, Hernandez Lain A, Dominguez-Gonzalez C. Bethlem myopathy: a series of 16 patients and description of seven new associated mutations. *Journal of Neurology*. 2019; 266(4): 934-41. IF: 4.204 - Article.
- Ortuno-Costela MDC, Cerrada V, Garcia-Lopez M, Arenas J, Martinez J, Lucia A, Garesse R, Gallardo ME. Derivation of an aged mouse induced pluripotent stem cell line, IISHDOI005-A. *Stem Cell Research*. 2019; 36: 101418. IF: 3.929 - Article.
- Calvo AC, Cibreiro GA, Merino PT, Roy JF, Galiana A, Rufian AJ, Cano JM, Martin MA, Moreno L, Larrode P, Vazquez PC, Galan L, Mora J, Muñoz-Blanco JL, Muñoz MJ, Zaragoza P, Pegoraro E, Soraru G, Mora M, Lunetta C, Penco S, Tarlarini C, Esteban J, Osta R, Redondo AG. Collagen XIX Alpha 1 Improves Prognosis in Amyotrophic Lateral Sclerosis. *Aging and Disease*. 2019; 10(2): 278-92. IF: 4.232 - Article.
- Salpietro V, Malintan NT, Llano-Rivas I, Spaeth CG, Efthymiou S, Striano P, Vandrovicova J, Cutrupi MC, Chimenz R, David E, Di Rosa G, Marce-Grau A, Raspall-Chaure M, Martin-Hernandez E, Zara F, Minetti C, Bello OD, De Zorzi R, Fortuna S, Dauber A, Alkhawaja M, Sultan T, Mankad K, Vitobello A, Thomas Q, Mau-Them FT, Faivre L, Martinez-Azorin F, Prada CE, Macaya A, Kullmann DM, Rothman JE, Krishnakumar SS, Houlden H; Deciphering Dev Disorders Study, SYNAPS Study Group. Mutations in the Neuronal Vesicular SNARE VAMP2 Affect Synaptic Membrane Fusion and Impair Human Neurodevelopment. *American Journal of Human Genetics*. 2019; 104(4): 721-30. IF: 9.924 - Article.
- Cruz-Bermudez A, Laza-Briviesca R, Vicente-Blanco RJ, Garcia-Grande A, Coronado MJ, Laine-Menendez S, Palacios-Zambrano S, Moreno-Villa MR, Ruiz-Valdepenas AM, Lendinez C, Romero A, Franco F, Calvo V, Alfaro C, Acosta PM, Salas C, Garcia JM, Provencio M. Cisplatin resistance involves a metabolic reprogramming through ROS and PGC-1alpha in NSCLC which can be overcome by OXPHOS inhibition. *Free Radical Biology and Medicine*. 2019; 135: 167-81. IF: 5.657 - Article.
- Alonso-Jimenez A, Kroon RHJM, Alejandre-Monforte A, Nunez-Peralta C, Horlings CGC, van Engelen BGM, Olive M, Gonzalez L, Verges-Gil E, Paradas C, Marquez C, Garibaldi M, Gallano P, Rodriguez MJ, Gonzalez-Quereda L, Dominguez Gonzalez C, Vissing J, Fornander F, Eisum AV, Garcia-Sobrino T, Pardo J, Garcia-Figueiras R, Muelas N, Vilchez JJ, Kapetanovic S, Tasca G, Monforte M, Ricci E, Gomez MT, Bevilacqua JA, Diaz-Jara J, Zamorano II, Carlier RY, Laforet P, Pelayo-Negro A, Ramos-Fransi A, Martinez A, Marini-Bettolo C, Straub V, Gutierrez G, Martin MA, Moris G, Fernandez-Torron R, Lopez De Munain A, Cortes-Vicente E, Querol L, Rojas-Garcia R, Illa I, Diaz-Manera J. Muscle MRI in a large cohort of patients with oculopharyngeal muscular dystrophy. *Journal of Neurology Neurosurgery and Psychiatry*. 2019; 90(5): 576-85. IF: 8.272 - Article.
- Medrano C, Vega A, Navarrete R, Ecay MJ, Calvo R, Pascual SI, Ruiz-Pons M, Toledo L, Garcia-Jimenez I, Arroyo I, Campo A, Couce ML, Domingo-Jimenez R, Garcia-Silva MT, Gonzalez-Gutierrez-Solana L, Hierro L, Martin-Hernandez E, Martinez-Pardo M, Roldan S, Tomas M, Cabrera JC, Martinez-Bugallo F, Martin-Viota L, Vitoria-Minana I, Lefebvre DJ, Giros ML, Serrano M, Ugarte M, Perez B, Perez-Cerda C. Clinical and Molecular Diagnosis of Non-Pmm2 N-Linked Congenital Disorders of Glycosylation in Spain. *Clinical Genetics*. 2019; 95(5): 615-26. IF: 4.104 - Article.
- Heard JM, Bellettato C, Lingen C, Debray FG, Nassogne MC, van Coster R, De Meirlier L, Eyskens F, Morava E, Baric I, Kozich V, Lund AM, Germain D, Belmatoug N, Guffon N, Labrune P, Gouya L, De Lonlay P, Schiff M, Dobbelaere D, Chabrol B, Ploeckinger U, Das AM, Scarpa M, Spiekerkoetter U, Rutsch F, Mohnike K, Hahn A, Kolker S, Ullrich K, Hennermann J, Balogh I, Bembi B, Donati MA, Gasperini S, Parenti G, Salvati A, Vici CD, Di Rocco M, Cefalo G, Burlina A, Ceccarini G, Federico A, Van der Ploeg A, Rubio-Gozalo ME, Van Spronsen F, Visser G, Bosch A, Tangeraas T, Sanderberg S, Kiec-Wilk B, Gaspar AMSM, Martins E, Silva EMFR, Matos LMDFD, Azevedo O, Tansek MZ, Couce-Pico ML, Cazorla AG, Azuara LAE, Del Toro-Riera M, Silva MTG, Lajic S, Darin N, Deegan P, Vijay S, Chronopolou E, Jones S, Chakrapani A, Hiwot T; MetabERN Collaboration Grp. Research activity and capability in the European reference network MetabERN. *Orphanet Journal of Rare Diseases*. 2019; 14(1): 119. IF: 3.687 - Article.
- Blazquez-Bermejo C, Carreno-Gago L, Molina-Granada D, Aguirre J, Ramon J, Torres-Torronteras J, Cabrera-Perez R, Martin MA, Dominguez-Gonzalez C, de la Cruz X, Lombes A, Garcia-Arumi E, Marti R, Camara Y. Increased dNTP pools rescue mtDNA depletion in human POLG-deficient fibroblasts. *FASEB Journal*. 2019; 33(6): 7168-79. IF: 5.391 - Article.
- Carrasco-Rozas A, Fernandez-Simon E, Lleixa MC, Belmonte I, Pedrosa-Hernandez I, Montiel-Morillo E, Nunez-Peralta C, Rossello JL, Segovia S, De Luna N, Suarez-Calvet X, Illa I, Diaz-Manera J, Gallardo E, Barba-Romero MA, Barcena J, Carzorla MR, Creus C, Coll-Canti J, de Luna N, Diaz M, Dominguez C, Torron RF, Antelo MJG, Grau JM, Caravaca MTG, Hernandez JCL, de Munain AL, Martinez-Garcia FA, Morgado Y, Moreno A, Moris G, Munoz-Blanco MA, Nascimento A, Paradas C, Pozo JLP, Querol L, Robledo-Strauss A, Garcia RR,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Rojas-Marcos I, Salazar JA, Uson M; Pompe Spanish Study Grp. Identification of serum microRNAs as potential biomarkers in Pompe disease. *Annals of Clinical and Translational Neurology*. 2019; 6(7): 1214-24. IF: 4.656 - Article.
- Fuiza-Luces C, Valenzuela PL, Laine-Menendez S, Fernandez-de la Torre M, Bermejo-Gomez V, Rufian-Vazquez L, Arenas J, Martin MA, Lucia A, Moran M. Physical Exercise and Mitochondrial Disease: Insights From a Mouse Model. *Frontiers in Neurology*. 2019; 10: 790. IF: 2.635 - Article.
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 - Tort F, Ugarteberu O, Texido L, Gea-Sorli S, Garcia-Villoria J, Ferrer-Cortes X, Arias A, Matalonga L, Gort L, Ferrer I, Guitart-Mampel M, Garrabou G, Vaz FM, Pristoupilova A, Rodriguez MIE, Beltran S, Cardellach F, Wanders RJA, Fillat C, Garcia-Silva MT, Ribes A. Mutations in TIMM50 cause severe mitochondrial dysfunction by targeting key aspects of mitochondrial physiology. *Human Mutation*. 2019; 40(10): 1700-12. IF: 4.453 - Article.
 - Cerrada V, Garcia-Lopez M, Moreno-Izquierdo A, Villaverde C, Zurita O, Martin-Merida MI, Arenas J, Ayuso C, Gallardo ME. Derivation of a human DOA iPSC line, IISHDOI006-A, with a mutation in the ACO2 gene: c.1999G>A; p.Glu667Lys. *Stem Cell Research*. 2019; 40: 101566. IF: 3.929 - Article.
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- Andrade F, Vitoria I, Hernandez EM, Pintos-Morell G, Correcher P, Puig-Pina R, Quijada-Fraile P, Pena-Quintana L, Marquez AM, Villate O, Silva MTG, de las Heras J, Ceberio L, Rodrigues E, Campos TA, Yahyaoui R, Blasco J, Vives-Pinera I, Gil D, del Toro M, Ruiz-Pons M, Canedo E, Romero MAB, Garcia-Jimenez MC, Aldamiz-Echevarria L. Quantification of urinary derivatives of Phenylbutyric and Benzoic acids by LC-MS/MS as treatment compliance biomarkers in Urea Cycle disorders. *Journal of Pharmaceutical and Biomedical Analysis*. 2019; 176: 112798. IF: 2.983 - Article.
 - Peralta S, Gonzalez-Quintana A, Ybarra M, Delmiro A, Perez-Perez R, Docampo J, Arenas J, Blazquez A, Ugalde C, Martin MA. Novel ATAD3A recessive mutation associated to fatal cerebellar hypoplasia with multiorgan involvement and mitochondrial structural abnormalities. *Molecular Genetics and Metabolism*. 2019; 128(4): 452-62. IF: 3.610 - Article.
 - Dominguez-Gonzalez C, Hernandez-Lain A, Rivas E, Hernandez-Voth A, Sayas Catalán J, Fernandez-Torron R, Fuiza-Luces C, Garcia JG, Moris G, Olive M, Miralles F, Diaz-Manera J, Caballero C, Mendez-Ferrer B, Marti R, Garcia Arumi E, Badosa MC, Esteban J, Jimenez-Mallebrera C, Encinar AB, Arenas J, Hirano M, Martin MA, Paradas C. Late-onset thymidine kinase 2 deficiency: a review of 18 cases. *Orphanet Journal of Rare Diseases*. 2019; 14(1): 100. IF: 3.687 - Review.
 - Ceberio L, Hermida A, Venegas E, Arrieta F, Morales M, Forga M, Gonzalo M. Phenylketonuria in the adult patient. *Expert Opinion on Orphan Drugs*. 2019; 7(6): 265-76. IF: 0.763 - Review.
 - Jimenez-Legido M, Bernardino-Cuesta B, Lopez-Marin L, Cantarin-Extremera V, Blazquez-Encinar A, Martin-Casanueva MA, Gutierrez-Solana LG. Dos nuevos casos de sindrome de Leigh por mutacion m.13513G>A en el gen MTND5. *Revista de Neurologia*. 2019; 68(7): 312-4. IF: 0.485 - Letter.
 - Carrasco-Marina ML, Quijada-Fraile P, Fernandez-Marmiesse A, Gutierrez-Cruz N, Martin-Del Valle F. Mutacion puntual de novo en el gen KCND3 en un paciente con ataxia cronica de inicio precoz. *Revista de Neurologia*. 2019; 68(9): 398-9. IF: 0.485 - Letter.
 - Santos-Lozano A, Fuiza-Luces C, Fernandez-Moreno D, Llavoro F, Arenas J, Lopez JA, Vazquez J, Escrivano-Subias P, Zugaza JL, Lucia A. Exercise Benefits in Pulmonary Hypertension. *Journal of The American College of Cardiology*. 2019; 73(22): 2906-7. IF: 18.639 - Letter.
 - de la Hoz CPDF, Hernandez-Lain A, Olive M, Sanchez-Calvin MT, Gonzalo-Martinez JF, Dominguez-Gonzalez C. Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. *Brain*. 2019; 142(12): e66. IF: 11.814 - Letter.
 - Roldan-Sevilla A, Palomino-Doza J, de Juan J, Sanchez V, Dominguez-Gonzalez C, Salguero-Bodes R, Arribas-Ynsaurriaga F. Missense Mutations in the FLNC Gene Causing Familial Restrictive Cardiomyopathy. *Circulation-Genomic and Precision Medicine*. 2019; 12(3): e002388. IF: N/A - Letter.

PATHOPHYSIOLOGY OF MITOCHONDRIAL BIOGENESIS

CENTER: Universidad Autónoma de Madrid (UAM)

GROUP LEADER: Garesse Alarcón, Rafael (R4)

Arredondo Lamas, Juan José - Doctoral Researcher (R3)
Fernández Moreno, Miguel - Doctoral Researcher (R4)
Fitch, Sophie Jane - Postdoctoral Researcher (R1)

González Paramos, Cristina - Support Technician
Ortuño Costela, Mª del Carmen - Predoctoral Researcher (R1)
Vázquez Fonseca, Luis - Postdoctoral Researcher (R2)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Desarrollo de modelos experimentales para el estudio, diagnóstico y terapia de las enfermedades mitocondriales.
- Principal Investigator:** Rafael Garesse Alarcón / Miguel Ángel Fernández Moreno (Co-IP)
- Project No.:** PI16/00789
- Funding Body:** Instituto de Salud Carlos III (ISCIII)
- Start date:** 01/01/2017
- End date:** 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	2	8.451
Reviews	1	4.658
TOTAL	3	13.109

- Ortuno-Costela MDC, Cerrada V, Garcia-Lopez M, Arenas J, Martinez J, Lucia A, Garesse R, Gallardo ME. Derivation of an aged mouse induced pluripotent stem cell line, IISHDOi005-A. *Stem Cell Research.* 2019; 36: 101418. IF: 3.929 - Article.

End Graduated Investigations Directed on the Group

- Student:** Alejandro Martín Muñoz
Title: Análisis del posible control traduccional de bicistrones codificantes de proteínas mitocondriales en *Drosophila melanogaster*
Director: Miguel Ángel Fernández Moreno
Degree: Bioquímica (UAM)

Prizes and Awards

- Concesión de la Cruz de Honor de la Sanidad Madrileña, en la Categoría de Oro, a D. Rafael Garesse Alarcón.

MITOCHONDRIAL MEMBRANES LABORATORY

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: López Montero, Iván (R4)

Almendro Vedia, Víctor Galileo - Postdoctoral Researcher (R2)
González Rubio, Sergio - Postdoctoral Researcher (R2)
Kalanjana Monnappa, Ajay - Postdoctoral Researcher (R2)

Muñoz Úbeda, Mónica - Postdoctoral Researcher (R2)
Natale, Paolo - Postdoctoral Researcher (R3)
Tolosa Díaz, Andrés Darío - Predoctoral Researcher (R1)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Propiedades emergentes de nanorotores biológicos en medios viscoelásticos.
Project No.: PGC2018-097903-B-I00
Principal Investigator: Iván López Montero
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2019
End date: 31/12/2021
- Title:** Soluciones Interdisciplinares con control de edición génica al déficit bioenergético OXPHOS.
Project No.: S2018/BAA-4403
Principal Investigator: Iván López Montero (coordinador), Co-PIs: Cristina Ugalde, Marisela Vélez y Alfonso Cebollada
Funding Body: Comunidad Autónoma de Madrid
Start date: 01/01/2019
End date: 31/12/2022
- Title:** Mitozippers.
Project No.: ERC-PoC-2017-780440
Principal Investigator: Iván López Montero
Funding Body: ERC
Start date: 01/07/2018
End date: 30/06/2019
- Title:** Estudio multidisciplinar de la estabilidad de biofilms de pseudomonas fluroescens: mecánica, difusión y simulación.
Project No.: PR26/16-10B-1

Principal Investigator: Iván López Montero, Co-PIs: Chantal Valeriani y Belén Orgaz Martín

Funding Body: Santander-Universidad Complutense de Madrid
Start date: 22/12/2016
End date: 21/06/2019

Title: Artificial Mitochondria for Health.
Project No.: ERC-StG-2013-338133
Principal Investigator: Iván López Montero
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/12/2013
End date: 30/11/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	4	18.653
TOTAL	4	18.653

de la Fuente-Herreruela D, Monnappa AK, Munoz-Úbeda M, Morallón-Pina A, Enciso E, Sanchez L, Giusti F, Natale P, Lopez-Montero I. Lipid-peptide bioconjugation through pyridyl disulfide reaction chemistry and its application in cell targeting and drug delivery. *Journal of Nanobiotechnology.* 2019; 17: 77. IF: 5.345 - Article.

Zaragoza A, Gonzalez MA, Joly L, Lopez-Montero I, Canales MA, Benavides AL, Valeriani C. Molecular dynamics study of nanoconfined TIP4P/2005 water: how confinement and temperature affect diffusion and viscosity. *Physical Chemistry Chemical Physics.* 2019; 21(25): 13653-67. IF: 3.567 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Plaza-Ga I, Manzaneda-Gonzalez V, Kisovec M, Almendro-Vedia V, Muñoz-Úbeda M, Anderluh G, Guerrero-Martinez A, Natale P, López Montero I. pH-triggered endosomal escape of pore-forming Listeriolysin O toxin-coated gold nanoparticles. *Journal of Nanobiotechnology*. 2019; 17(1): 108. IF: 5.345 - Article.
- Muñoz-Úbeda M, Tolosa-Díaz A, Bhattacharya S, Junquera E, Aicart E, Natale P, Lopez-Montero I. Gemini-Based Lipoplexes Complement the Mitochondrial Phenotype in MFN1-Knockout Mouse Embryonic Fibroblasts. *Molecular Pharmaceutics*. 2019; 16(12): 4787-96. IF: 4.396 - Article.

End Graduated Investigations Directed on the Group

- **Student:** David Valdivieso
Title: Propiedades mecánicas de membranas lipídicas con ATP sintetasas activas estudiadas con micropipetas
Director: Iván López Montero
Degree: Biología (UAM)

- **Student:** Marta del Ramo del Hoyo
Title: Propiedades mecánica de membrana mitocondriales activas
Director: Iván López Montero
Degree: Ingeniería de Materiales (UCM)

Prizes and Awards

- Premio Enrique Pérez Payá SBE-40 de la Sociedad de Biofísica de España.
Premiado - Iván López Montero.

PORPHYRIA, HAEMATOCHROMATOSIS AND ANEMIA

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADERS: Morán Jiménez, M^a José (R4), Méndez Alba, Manuel (R4)

Borrero Corte, M^a José - Postdoctoral Researcher (R2)
Enríquez de Salamanca Lorente, Rafael - Consultant

García Pastor, M^a Inmaculada - Técnico de apoyo
Moreno Carralero, M^a Isabel - Técnico de apoyo

Active Research Projects

Type of Funding	Funding Body	NO. of Projects
Competitive	ISCIII	1
Competitive	FMM	1
TOTAL		2

▪ **Title:** Base genética de las porfirias.

Principal Investigator: Manuel Méndez Alba

Project No.: PI15/01404

Funding Body: Instituto de Salud Carlos III (ISCIII)

Fecha de Comienzo: 01/01/2016

End date: 31/12/2018, extended to 30/12/2019

▪ **Title:** Abordaje mediante secuenciación masiva para el diagnóstico genético de distintos tipos de anemias.

Principal Investigator: M^a José Morán Jiménez

Project No.: FMM 2016/0084

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Fecha de Comienzo: 01/10/2016

End date: 30/09/2019, extended to 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	2	2.507
TOTAL	2	2.507
Letters	1	2.073
TOTAL	3	4.580

- Lillo-Triguero L, del Castillo A, Guzman de Villoria J, Moran-Jimenez MJ, Guillen A, Peraita-Adrados R. Brain iron accumulation in a blood donor family with restless legs syndrome.. *Revista de Neurologia*. 2019; 68(3): 107-10. IF: 0.485 - Article.
- Borrero Corte MJ, Jara Rubio F, Moran Jimenez MJ, Diaz SD, Castelbon Fernandez FJ, Garcia Pastor I, Enríquez de Salamanca R, Mendez M. Molecular analysis of 19 Spanish patients with mixed porphyrias. *European Journal of Medical Genetics*. 2019; 62(12): 103589. IF: 2.022 - Article.
- Moreno-Carralero MI, Arrizabalaga-Amuchastegui B, Sanchez-Calero-Guilarte J, Morado-Arias M, Velasco-Valdazo AE, de-la-Iglesia-Itigo S, Mendez M, Moran-Jimenez MJ. Missense variants in ALAS2 gene in five patients. *International Journal of Laboratory Hematology*. 2019; 41(1): 5-9. IF: 1.304 - Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

REGULATION OF CELLULAR HOMEOSTASIS

CENTER: Hospital Universitario 12 de Octubre (H120)- Universidad Autónoma de Madrid (UAM)

GROUP LEADER: Mittelbrunn Herrero, María (R4)

Aranda Gómez, Juan Francisco - Doctoral Researcher (R3)
Blanco Ruiz, Eva Mª - Support Technician
Carrasco Cerro, Elisa - Postdoctoral Researcher (R2)
Desdín Micó, Gabriela Grisel - Predoctoral Researcher (R1)

Gabande Rodríguez, Enrique - Postdoctoral Researcher (R2)
Llamas Matías, Miguel Ángel - Manager
Oller Pedrosa, Jorge - Postdoctoral Researcher (R2)
Soto Heredero, Gonzalo - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	NO. of Projects
Competitive	Commission of the European Communities	1
Competitive	ISCIII	2
TOTAL		3

- **Title:** Endolysosomal-mitochondria crosstalk in cell and organism homeostasis - ENDOMITALK.

Principal Investigator: María Mittelbrunn Herrero

Project No.: GA 715322- ERC Starting Grant

Funding Body: Commission of the European Communities

Start date: 01/03/2017

End date: 28/02/2022

- **Title:** Alteraciones metabólicas del sistema inmune y sus implicaciones en las enfermedades cardiovasculares y en el envejecimiento.

Principal Investigator: María Mittelbrunn Herrero

Project No.: PI16/02188

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 31/06/2021

- **Title:** Utilización de exosomas como vehículo para la reparación cardiaca.

Principal Investigator: María Mittelbrunn Herrero

Project No.: CP14/00219

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 03/11/2015

End date: 31/12/2017, extended to 28/02/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Reviews	2	9.839
TOTAL	2	9.839

- Carrasco E, Soto-Heredero G, Mittelbrunn M. The Role of Extracellular Vesicles in Cutaneous Remodeling and Hair Follicle Dynamics. International Journal of Molecular Sciences. 2019; 20(11): 2758. IF: 4.183 - Review.
- Gabande-Rodríguez E, M Gomez de Las Heras M, Mittelbrunn M. Control of Inflammation by Calorie Restriction Mimetics: On the Crossroad of Autophagy and Mitochondria. Cells. 2019; 9(1): 82. IF: 5.656 - Review.

End Master Investigations

Directed on the Group

- **Student:** Sara Ruiz

Title: Papel del metabolismo de los linfocitos T en la inmunosenescencia y el envejecimiento

Director: María Mittelbrunn Herrero

Master: Máster Interuniversitario en Genética y Biología Celular

- **Student:** Manuel Montero

Title: Immunometabolism as a novel therapeutic approach to target intestinal barrier dysfunction

Director: María Mittelbrunn Herrero

Master: Máster Pharmacological Research (UAM)

End Graduated Investigations

Directed on the Group

- **Student:** Sergio Polo

Title: Papel del Sistema Inmune Adaptativo en la Regulación del Tejido Adiposo

Director: María Mittelbrunn Herrero

Degree: Bioquímica (UAM)

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ALS RESEARCH GROUP

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: García Redondo, Alberto (R4)

Borrego Hernández, Daniel - Predoctoral Researcher (R1)
Cordero Vázquez, Pilar - Manager
Esteban Pérez, Jesús - Clinical Researcher

García Salamero, Gabriel - Predoctoral Researcher (R1)
Martín Hondarza Ríos, Adrián - Support Technician

Active Research Projects

Type of Funding	Funding Body	NO. of Projects
Competitive	ISCIII	1
Competitive	Comunidad de Madrid	2
TOTAL		3

- Title:** Nuevos biomarcadores en ELA: mutaciones somáticas, neuroinflamación y metabolismo de ARN (I).

Principal Investigator: Alberto García Redondo

Project No.: PI17/00491

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Estudio genético de la población con ELA de la Comunidad de Madrid.

Principal Investigator: Alberto García Redondo

Project No.: 2019/0055

Funding Body: Comunidad de Madrid.

Start date: 01/01/2018

End date: 31/12/2018, extended to 31/12/2019

- Title:** Estudio de la oligogenia de la población con ELA de la Comunidad de Madrid para la selección de los pacientes en ensayos clínicos.

Principal Investigator: Alberto García Redondo

Project No.: 2019/0149

Funding Body: Comunidad de Madrid

Start date: 01/01/2019

End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	4	17.550
Reviews	1	3.687
TOTAL	5	21.237

- Tazelaar GHP, Dekker AM, van Vugt JJFA, van der Spek RA, Westeneng HJ, Kool LJBG, Kenna KP, van Rheenen W, Pulit SL, McLaughlin RL, Sproviero W, Iacoangeli A, Hübers A, Brenner D, Morrison KE, Shaw PJ, Shaw CE, Panadés MP, Mora Pardina JS, Glass JD, Hardiman O, Al-Chalabi A, van Damme P, Robberecht W, Landers JE, Ludolph AC, Weishaupt JH, van den Berg LH, Veldink JH, van Es MA; Project MinE ALS Sequencing Consortium. Association of NIPA1 repeat expansions with amyotrophic lateral sclerosis in a large international cohort. *Neurobiology of Aging*. 2019; 74: 234.e9-234.e15. IF: 4. 398 - Article.
- Panades-de Oliveira L, Rodriguez-Lopez C, Cantero Montenegro D, Marcos Toledoano MDM, Fernandez-Marmiesse A, Esteban Perez J, Hernandez Lain A, Dominguez-Gonzalez C. Bethlem myopathy: a series of 16 patients and description of seven new associated mutations. *Journal of Neurology*. 2019; 266(4): 934-41. IF: 4.204 - Article.
- Calvo AC, Cibreiro GA, Merino PT, Roy JF, Galiana A, Rufian AJ, Cano JM, Martin MA, Moreno L, Larrode P, Vazquez PC, Galan L, Mora J, Muñoz-Blanco JL, Muñoz MJ, Zaragoza P, Pegoraro E, Soraru G, Mora M, Lunetta C, Penco S, Tarlarini C, Esteban J, Osta R, Redondo AG. Collagen XIX Alpha 1 Improves Prognosis in Amyotrophic Lateral Sclerosis. *Aging and Disease*. 2019; 10(2): 278-92. IF: 4.232 - Article.
- Moreno-Martínez L, de la Torre M, Toivonen JM, Zaragoza P, García-Redondo A, Calvo AC, Osta R. Circulating Cytokines Could Not Be Good Prognostic Biomarkers in a Mouse Model of Amyotrophic Lateral Sclerosis. *Frontiers in Immunology*. 2019; 10: 801. IF: 4.716 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Dominguez-Gonzalez C, Hernandez-Lain A, Rivas E, Hernandez-Voth A, Sayas Catalán J, Fernandez-Torron R, Fuiza-Luces C, Garcia JG, Moris G, Olive M, Miralles F, Diaz-Manera J, Caballero C, Mendez-Ferrer B, Martí R, García Arumi E, Badosa MC, Esteban J, Jimenez-Mallebrera C, Encinar AB, Arenas J, Hirano M, Martin MA, Paradas C. Late-onset thymidine kinase 2 deficiency: a review of 18 cases. *Orphanet Journal of Rare Diseases*. 2019; 14(1): 100. IF: 3.687 - Review.



AREA 4. EPIDEMIOLOGY AND EVALUATION OF TECHNOLOGIES, SANITARY SERVICES AND INFORMATION SYSTEMS

COORDINATOR: AGUSTÍN GÓMEZ DE LA CÁMARA

**Clinical Epidemiology, Health Technologies and Information
and Communication Techniques**

Research in Health Services and Results

Maternal and Child Health

Research in Complex Patients and Health System

Clinical Practice Appropriateness and Patient Safety





The Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems Area of the Instituto de Investigación Hospital 12 de Octubre (Instituto i+12) is made up of 5 research groups. Three of the groups in the area belong to the 12 de Octubre University Hospital and the other two are made up of researchers from Primary Care teams.

The mission of the Area is to develop research activities of a multidisciplinary nature that have an impact on clinical practice and health policies.

The objective is research on the effectiveness and efficiency of health processes and interventions on the health status of individuals and populations. The intention and purpose is purely epistemological. Activities range from population-based studies to clinical research studies on the effectiveness of therapeutic and diagnostic interventions, health service provision and outcome evaluation, with particular emphasis on prognostic research, information systems and patient-oriented research.

The area is a key part of R&D&I in a health and scientific field of excellence as it provides basic and fundamental instruments in translational research and establishes the link between basic research and patient care.

General objectives of cooperative development in the area

- Promote the development of research projects carried out within the area, especially those that are multidisciplinary and patient-centred.
- Prioritise and promote the area's participation in studies of high scientific and social relevance, especially those that respond to problems that are relevant to the NHS.
- Bring quality and efficiency in the execution of the research projects in which it participates.
- Guarantee the achievement of results and their transfer to clinical practice.
- Adapt the internal structure and operation of the area to promote the competitive nature of the Clinical Epidemiology, Health Technologies and Information and Communication Techniques area as a whole.
- Promote the area's participation in international research activities.
- Establish adequate and efficient communication with the main stakeholders involved in the research process to promote knowledge of the area and its conceptual environment.
- Collaborate in the training of healthcare professionals in the methodological, practical and logistical, ethical and legal aspects of biomedical research.
- Ensure a sustainable cost model in the area.

List of the five most relevant publications of the Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems Area during 2019

The following are the 5 most relevant publications in the Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems Area selected on the basis of original articles and review led by researchers in the area, published in quartil 1 or 2 of their thematic category in JCR and most often cited:

1. Rodriguez-Rey R, **Palacios A**, Alonso-Tapia J, Perez E, Alvarez E, Coca A, Mencia S, Marcos A, Mayordomo-Colunga J, Fernandez F, Gomez F, **Cruz J**, **Ordonez O**, **Llorente A**. Burnout and posttraumatic stress in paediatric critical care personnel: Prediction from resilience and coping styles. *Australian Critical Care*. 2019; 32(1): 46-53. IF: 2.214 - Q1 - Article.
2. **Munoz-Gallego A**, **De la Cruz J**, Rodriguez-Salgado M, **Torres-Pena JL**, **Sambricio J**, **Ortueta-Olartecoechea A**, **Tejada-Palacios P**. Assessment of macular ganglion cell complex using optical coherence tomography: Impact of a paediatric reference database in clinical practice. *Clinical and Experimental Ophthalmology*. 2019; 47(4): 490-7. IF: 2.832 - Q1 - Article.
3. Ruiz-Ruiz F, **Menendez-Orenga M**, Medrano FJ, Calderon EJ, **Lora-Pablos D**, Navarro-Puerto MA, Rodriguez-Torres P, **Gómez de la Cámara A**. The prognosis of patients hospitalized with a first episode of heart failure, validation of two scores: PREDICE and AHEAD. *Clinical Epidemiology*. 2019; 11: 615-24. IF: 2.942 - Q1 - Article.
4. **Flores-Anton B**, **Martin-Cornejo J**, **Morante-Santana MA**, **Garcia-Lara NR**, **Sierra-Colomina G**, **De la Cruz-Bertolo J**, **Martin-Arriscado-Arroba C**, **Escuder-Vieco D**, **Soriano-Ramos M**, **Chaves F**, **Pallas-Alonso CR**. Comparison of two methods for cleaning breast pump milk collection kits in human milk banks. *Journal of Hospital Infection*. 2019; 103(2): 217-22. IF: 3.271 - Q1 - Article.
5. Angulo JC, Schönburg S, Gianno A, Abellán FJ, Arancé I, **Lora D**. Systematic review and meta-analysis comparing Adjustable Transobturator Male System (ATOMS) and Adjustable Continence Therapy (ProACT) for male stress incontinence. *Plos One*. 2019; 14(12): e0225762. IF: 2.740 - Q2- Article.

CLINICAL EPIDEMIOLOGY, HEALTH TECHNOLOGIES AND INFORMATION AND COMMUNICATION TECHNIQUES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Gómez de la Cámara, Agustín (R4)

Barroso García, Mariano - Senior Technician
Bernal Sobrino, José Luis - Postdoctoral Researcher (R2)
Bouzo Molina, Nuria - Clinical Researcher
Calleja Fernández, Clara Eugenia - Bachelor Researcher
Cancelas Navía, Pilar - Bachelor Researcher
Carrascosa Fernández, Antonio José - Postdoctoral Researcher (R2)
Carrero Cabo, Agar Cándida - Clinical Researcher
García Morales, Mª Teresa - Postdoctoral Researcher (R2)
Gómez Guijarro, Fernando Mª - Clinical Researcher

Lora Pablos, David - Postdoctoral Researcher (R2)
Martín-Arriscado Arroba, Cristina - Predoctoral Researcher (R1)
Murcia Sánchez, Elena - Clinical Researcher
Pérez Doblado, Paloma - Clinical Researcher
Roig Domínguez, Gustavo - Senior Technician
Romero Ferreiro, Mª del Carmen - Clinical Researcher
Saldaña Casado, Raquel - Clinical Researcher
Serrano Balazote, Pablo - Doctoral Researcher (R3)
Vega Víaña, Rosa Mª - Bachelor Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	EIT HEALTH	1
Non Competitive	Various	3
TOTAL		8

▪ **Title:** Infobanco para uso secundario de datos de salud basado en estándares de tecnología y conocimiento: evaluación de la calidad, validez y utilidad de la HCE como origen de datos para el estudio de la infección por VIH.

Principal Investigator: José Luis Bernal Sobrino

Project No.: PI18/01047

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Arquitectura normalizada de datos clínicos para la generación de infobancos y su uso secundario.

Principal Investigator: Pablo Serrano Balazote

Project No.: PI18/00981

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Modelo normalizado de Historia Clínica Electrónica compartida para la asistencia integrada. Factibilidad y utilidad en un repositorio regional para pacientes con cáncer de mama.

Principal Investigator: Pablo Serrano Balazote

Project No.: PI15/00321

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

▪ **Title:** Identificación de un Modelo de Gen(S)-Dieta(S)-Fenotipo(S) y su Asociación con Morbimortalidad Cardiovascular. Estudio DRECE VI.

Principal Investigator: Agustín Gómez de la Cámara

Project No.: PI14/01940

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 30/06/2019

▪ **Title:** Use of electronic health records as esource; multicenter european study, comparing manual data collection in an ECRF to data collection using EHR2EDC technology.

Principal Investigator: Agustín Gómez de la Cámara

Project No.: 2019/0120

Funding Body: EIT Health

Start date: 01/09/2019

End date: 31/12/2019

▪ **Title:** Use of electronic health records as esource; multicenter european study, comparing manual data collection in an ECRF to data collection using EHR2EDC technology.

Principal Investigator: Agustín Gómez de la Cámara

Funding Body: Custodix NV

Start date: 13/06/2019

End date: 31/12/2019

▪ **Title:** Ensayo Clínico Fase IIIB, aleatorizado, abierto, de grupos paralelos, para evaluar el alivio del dolor de metoxiflurano inhalado, en comparación con el protocolo actual para el tratamiento del dolor de origen traumático, en adultos atendidos en las unidades de urgencia españoles.

Principal Investigator: Agustín Gómez de la Cámara

Funding Body: Mundipharma Pharmaceuticals, S.L.

Start date: 08/06/2017

End date: 07/06/2020

▪ **Title:** Efectividad, coste-efectividad, coste-utilidad de la incorporación de la medición sistemática de patient-reported experience a la práctica clínica habitual en cáncer de mama y pulmón como herramienta de mejora continua.

Principal Investigator: Pablo Serrano Balazote

Funding Body: Novartis Farmaceutica S.A.

Start date: 12/12/2019

End date: 31/12/2021

▪ SCReN. Coordinación del Programa de Gestión de Datos y Bioestadística de la Plataforma Spanish Clinical Research Network ISCIII (PMBGD).

▪ CIBER de Epidemiología y Salud Pública.

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	93.292
TOTAL	19	93.292

- Cano-Romero FL, Laguna Goya R, Utrero-Rico A, Gomez-Massa E, Arroyo-Sánchez D, Suarez-Fernandez P, Lora D, Andres A, Castro-Panete MJ, Paz-Artal E. Longitudinal profile of circulating T follicular helper lymphocytes parallels anti-HLA sensitization in renal transplant recipients. American Journal of Transplantation. 2019; 19(1): 89-97. IF: 7.163 - Article.
- Gregson J, Kaptoge S, Bolton T, Pennells L, Willeit P, Burgess S, Bell S, Sweeting M, Rimm EB, Kabrhel C, Zoller B, Assmann G, Gudnason V, Folsom AR, Arndt V, Fletcher A, Norman PE, Nordestgaard BG, Kitamura A, Mahmoodi BK, Whincup PH, Knuiman M, Salomaa V, Meisinger C, Koenig W, Kavousi M, Volzke H, Cooper JA, Ninomiya T, Casiglia E, Rodriguez B, Ben-Shlomo Y, Despres JP, Simons L, Barrett-Connor E, Björkelund C, Notdurft M, Kromhout D, Price J, Sutherland SE, Sundstrom J, Kauhanen J, Gallacher J, Beulens JWJ, Dankner R, Cooper C, Giampaoli S, Deen JF, de la Camara AG, Kuller LH, Rosengren A, Svensson PJ, Nagel D, Crespo CJ, Brenner H, Albertorio-Diaz JR, Atkins R, Brunner EJ, Shipley M, Njolstad I, Lawlor DA, van der Schouw YT, Selmer RM, Trevisan M, Verschuren WMM, Greenland P, Wassertheil-Smoller S, Lowe GDO, Wood AM, Butterworth AS, Thompson SG, Danesh J, Di Angelantonio E, Meade T, Rosamond W, Whitsel E, Cushman M, Barr ELM, Shaw JE, Zimmet PZ, Kiechl S, Weger S, Willeit J, Amuzi A, Dale C, Casas JP, Tikhonoff V, Nietert P, Tybjaerg-Hansen A, Frikkie-Schmidt R, Jensen GB, Pablos DL, Navia PC, McLachlan S, Schottker B, Saum KU, Holleczek B, Ariasens I, Meyer HE, Haheim LL, Vartiainen E, Jousilahti P, Harald K, Wilhelmsen L, Dennison E, Syddall H, Westbury L, Flicker L, Hankey GJ, Golledge J, Doi Y, Kiyohara Y, Elders P, Stehouwer C, Jensen M, Iso H, Yamagishi K, Sudhir K, Tuomainen TP, Salonen JT, Boer JMA, Blokstra A, Melander O, Nilsson PM, Engstrom G, Palmieri L, Vanuzzo D, Peters A, Thorand B, Heier M, Hu FB, Manson JE, Meijer K, Gansevoort RT, Schulte H, Sluijs I, Cantin B, Lamarche B, Dagenais GR, McEvoy L, Laughlin G, Daniels LB, Aspelund T, Gudmundsson EF, Thorsson B, Leinen MJG, Ikram MA, Franco OH, Tunstall-Pedoe H, Werner A, Devereux R, Jolly S, Smith GD, Can G, Yuksel H, Altay S, Ingelsson M, Giedraitis V, Claessen H, Rothenbacher D, Parikh NI, Eaton C, Kivimaki M, Feskens E, Geleijnse JM, Spackman S, Walker M; Emerging Risk Factors. Cardiovascular Risk Factors Associated

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



With Venous Thromboembolism. *JAMA Cardiology*. 2019; 4(2): 163-73. IF: 11.866 - Article.

▪ Pennells L, Kaptoge S, Wood A, Sweeting M, Zhao X, White I, Burgess S, Willeit P, Bolton T, Moons KGM, van der Schouw YT, Selmer R, Khaw KT, Gudnason V, Assmann G, Amouyel P, Salomaa V, Kivimaki M, Nordestgaard BG, Blaha MJ, Kuller LH, Brenner H, Gillum RF, Meisinger C, Ford I, Knuiman MW, Rosengren A, Lawlor DA, Volzke H, Cooper C, Marin Ibanez A, Casiglia E, Kauhanen J, Cooper JA, Rodriguez B, Sundstrom J, Barrett-Connor E, Dankner R, Nietert PJ, Davidson KW, Wallace RB, Blazer DG, Bjorklund C, Donfrancesco C, Krumholz HM, Nissinen A, Davis BR, Coady S, Whincup PH, Jorgensen T, Ducimetiere P, Trevisan M, Engstrom G, Crespo CJ, Meade TW, Visser M, Kromhout D, Kiechl S, Daimon M, Price JF, Gomez de la Camara A, Wouter Jukema J, Lamarche B, Onat A, Simons LA, Kavousi M, Ben-Shlomo Y, Gallacher J, Dekker JM, Arima H, Shara N, Tipping RW, Roussel R, Brunner EJ, Koenig W, Sakurai M, Pavlovic J, Gansevoort RT, Nagel D, Goldbourt U, Barr ELM, Palmieri L, Njolstad I, Sato S, Monique Verschuren WM, Varghese CV, Graham I, Onuma O, Greenland P, Woodward M, Ezzati M, Psaty BM, Sattar N, Jackson R, Ridker PM, Cook NR, D'Agostino RB Sr, Thompson SG, Danesh J, Di Angelantonio E; Emerging Risk Factors Collaboration. Equalization of four cardiovascular risk algorithms after systematic recalibration: individual-participant meta-analysis of 86 prospective studies. *European Heart Journal*. 2019; 40(7): 621-31. IF: 23.239 - Article.

▪ Miguel GA, Carranza FH, Rodriguez JCR, Ramos MA, Pablos DL, Herrero EF, Diaz-Guerra GM. Trabecular Bone Score, Bone Mineral Density and Bone Markers in Patients with Primary Hyperparathyroidism 2 Years After Parathyroidectomy. *Hormone and Metabolic Research*. 2019; 51(3): 186-90. IF: 2.423 - Article.

▪ Fernandez-Ruiz M, Gimenez E, Lora D, Aguado JM, Pascual M, Manuel O. Impact of MBL2 gene polymorphisms on the risk of infection in solid organ transplant recipients: A systematic review and meta-analysis. *American Journal of Transplantation*. 2019; 19(4): 1072-85. IF: 7.163 - Article.

▪ Iglesias SG, Dominguez MLM, Herrero EF, Martinez-Pueyo JL, Arroba CMA, Diaz-Guerra GM, Hawkins Carranza F. Trabecular bone score and bone mineral density in patients with postsurgical hypoparathyroidism after total thyroidectomy for differentiated thyroid carcinoma. *Surgery*. 2019; 165(4): 814-9. IF: 3.476 - Article.

▪ Zapatero-Gaviria A, Gomez-Huelgas R, Diez-Manglano J, Barba-Martin R, Carretero-Gomez J, Maestre-Peiro A, Bernal-Sobrino JL, Marco-Martinez J, Fernandez-Perez C, Elola-Somoza FJ. RECALMIN. Four years of growth of the internal medicine units of the Spanish National Health System (2013-2016). *Revista Clínica Española*. 2019; 219(4): 171-6. IF: 1.043 - Article.

▪ Pedraza S, Ruiz-Alonso A, Hernandez-Martinez AC, Cabello E, Lora D, Perez-Regadera JF. (18)F-FDG PET/CT in staging and delineation of radiotherapy volume for head and neck cancer. *Revista Española de Medicina Nuclear e*

Imagen Molecular. 2019; 38(3): 154-9. IF: 0.928 - Article.

▪ Sanchez Barrueco A, Gonzalez Galan F, Villacampa Auba JM, Diaz Tapia G, Fernandez Hernandez S, Martin-Arriscado Arroba C, Cenjar Espanol C, Almodovar Alvarez C. p16 Influence on Laryngeal Squamous Cell Carcinoma Relapse and Survival. *Otolaryngology-Head and Neck Surgery*. 2019; 160(6): 1042-7. IF: 2.310 - Article.

▪ Ortiz-Bautista C, Moran-Fernandez L, Diaz-Garcia M, Delgado-Nicolas MA, Ponz-De Antonio I, Rodriguez-Chaverri A, Garcia-Cosio MD, de Juan-Baguda J, Lora-Pablos D, Sanchez-Sanchez V, Escribano-Subias P, Bueno H, Arribas-Ynsaurriaga F, Delgado-Jimenez JF. Evaluation of a nurse-led intervention program in heart failure: A randomized trial. *Medicina Clínica*. 2019; 152(11): 431-7. IF: 1.277 - Article.

▪ Piris Borregas S, Torres Valdivieso MJ, Martin-Arriscado, C, de la Cruz Bértolo J, Sierra García P, Pallás Alonso CR. Model that predicted death or disabilities in premature infants was valid at seven years of age. *Acta Paediatrica*. 2019; 108(7): 1245-9. IF: 2.265 - Article.

▪ Ruiz-Ruiz F, Menendez-Ortega M, Medrano FJ, Calderon EJ, Lora-Pablos D, Navarro-Puerto MA, Rodriguez-Torres P, Gómez de la Cámara A. The prognosis of patients hospitalized with a first episode of heart failure, validation of two scores: PREDICE and AHEAD. *Clinical Epidemiology*. 2019; 11: 615-24. IF: 3.178 - Article.

▪ García-Olmos L, Aguilar R, Lora D, Carmona M, Alberquilla A, García-Caballero R, Sánchez-Gómez L; CHIC Group. Development of a predictive model of hospitalization in primary care patients with heart failure. *Plos One*. 2019; 14(8): e0221434. IF: 2.776 - Article.

▪ Matarazzo M, Arroyo-Gallego T, Montero P, Puertas-Martín V, Butterworth I, Mendoza CS, Ledesma-Carbayo MJ, Catalán MJ, Molina JA, Bermejo-Pareja F, Martínez-Castrillo JC, López-Manzanares L, Alonso-Cánovas A, Rodríguez JH, Obeso I, Martínez-Martín P, Martínez-Ávila JC, de la Cámara AG, Gray M, Obeso JA, Giancardo L, Sánchez-Ferro Á. Remote Monitoring of Treatment Response in Parkinson's Disease: The Habit of Typing on a Computer. *Movement Disorders*. 2019; 34(10): 1488-95. IF: 8.061 - Article.

▪ Flores-Antón B, Martín-Cornejo J, Morante-Santana MA, García-Lara NR, Sierra-Colomina G, De la Cruz-Bertolo J, Martin-Arriscado-Arroba C, Escudero-Vieco D, Soriano-Ramos M, Chaves F, Pallas-Alonso CR. Comparison of two methods for cleaning breast pump milk collection kits in human milk banks. *Journal of Hospital Infection*. 2019; 103(2): 217-22. IF: 3.704 - Article.

▪ Reyes García R, Bernal Sobrino JL, Fernandez Pérez C, Morillas Ariño C, Azriel Mira S, Elola Somoza FJ, Breton Lesmes I, Botella Romero F. Trends on Diabetes Mellitus's healthcare management in Spain. 2007-2015. *Diabetes Research and Clinical Practice*. 2019; 156: 107824. IF: 3.239 - Article.

▪ Bonfill X, Quintana MJ, Bellmunt S, Suclupe S, Gomez E, Fernandez de

Valderrama I, Castejon B, Miralles M, Perez E, Escudero JR, Galvez Nunez L, Gomez De La Camara AG, Morales-Suarez-Varela MM, Muriel A, Plana N, Rodriguez AI; AAA Spanish Study Grp. Descriptive and follow-up study of patients treated surgically for abdominal aortic aneurysm at tertiary hospitals in Spain. *International Angiology*. 2019; 38(5): 402-9. IF: 1.279 - Article.

▪ Santos PM, Freire RB, Fernandez AE, Sobrino JLB, Perez CF, Somoza FJE, Miguel CM, Vilacosta I. In-hospital Mortality and Readmissions for Heart Failure in Spain. A Study of Index Episodes and 30-day and 1-year Cardiac Readmissions. *Revista Española de Cardiología*. 2019; 72(12): 998-1004. IF: 5.126 - Article.

▪ Angulo JC, Schönburg S, Giammo A, Abellan FJ, Arance I, Lora D. Systematic review and meta-analysis comparing Adjustable Transobturator Male System (ATOMS) and Adjustable Continence Therapy (ProACT) for male stress incontinence. *Plos One*. 2019; 14(12): e0225762. IF: 2.776 - Article.

▪ Carretero-González A, Lora D, Ghanem I, Otero I, López F, Castellano D, de Velasco G. Comparative safety analysis of immunotherapy combined with chemotherapy versus monotherapy in solid tumors: a meta-analysis of randomized clinical trials. *Oncotarget*. 2019; 10(35): 3294-301. IF: N/A - Article.

▪ Orenga MM, Pablos DL, de la Camara AG. MedDietCalc: multi calculator to compute scores of adherence to Mediterranean Diet. *Health and Technology*. 2019; 9(4): 497-504. IF: N/A - Article.

▪ Bernal JL, Barrabés JA, Fernández-Pérez C, Elola FJ. Validity of the Minimum Basic Data Set for Research into Outcomes of the Care of Acute Coronary Syndrome. *Revista Española de Cardiología (English Ed.)*. 2019; 72(8): 697-98. IF: N/A - Letter.



RESEARCH IN HEALTH SERVICES AND RESULTS

CENTER: Primary Care

GROUP LEADER: Gómez Gascón, Tomás (R3)

Beamud Lagos, Milagros - Doctoral Researcher (R3)
Beltejar Rodríguez, Margarita - Postdoctoral Researcher (R2)
Díez Arjona, Susana - Postdoctoral Researcher (R2)
Domínguez Bidagor, Julia - Postdoctoral Researcher (R2)
Fernández Abad, Mª Ángeles - Postdoctoral Researcher (R2)

Gutierrez Sánchez, Mª Isabel - Postdoctoral Researcher (R2)
Martín Fernández, Jesús - Doctoral Researcher (R4)
Pérez Rivas, Francisco Javier - Doctoral Researcher (R3)
Tapias Merino, Esther - Doctoral Researcher (R3)
Vargas-Machuca Cabañero, Concepción - Doctoral Researcher (R3)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Riesgo cardiovascular en personas > 55 años y rendimiento cognitivo a los 5 años: un modelo de estimación basado en población española (NEDICES 2).

Principal Investigator: Ester Tapias Merino

Project No.: PI18/00522

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Cohorte de pacientes con hipertensión arterial resistente en Atención Primaria: exceso de riesgo de enfermedad renal crónica.

Principal Investigator: Tomás Gómez Gascón

Project No.: PI16/01609

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

- Title:** Efectividad de una intervención virtual (CdPV) dirigida a profesionales para mejorar su actitud hacia el empoderamiento de pacientes con enfermedades crónicas: ECA por conglomerados.

Principal Investigator: Perestelo Perez, Lilibeth

Project No.: PI15/00586

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016
End date: 31/12/2020

- Title:** Proyecto europeo HarmonicSS. Harmonization and integrative analysis of regional, national and international Cohorts on primary Sjögren's Syndrome (pSS) towards improved stratification, treatment and health policy making.

Principal Investigator: Fundación para la Investigación e Innovación Biomédica de Atención Primaria: Tomás Gómez Gascón

Project No.: H2020-SC1-2016-2017

Funding Body: Comisión Europea. Horizonte 2020

Start date: 01/01/2017

End date: 30/12/2020

- Title:** JAMRAI.

Principal Investigator: José Mª Izquierdo Palomares. IC: Tomás Gómez Gascón

Project No.: 761296 EU-JAMRAI HP-JA-2016

Funding Body: Comisión Europea. Horizonte 2020

Start date: 01/07/2017

End date: 30/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	1	1.932
TOTAL	1	1.932

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Bermejo-Caja CJ, Koatz D, Orrego C, Perestelo-Pérez L, González-González AI, Ballester M, Pacheco-Huergo V, Del Rey-Granado Y, Muñoz-Balsa M, Ramírez-Puerta AB, Canellas-Criado Y, Pérez-Rivas FJ, Toledo-Chávarri A, Martínez-Marcos M; e-MPODERA group. Acceptability and feasibility of a virtual community of practice to primary care professionals regarding patient empowerment: a qualitative pilot study. *BMC Health Services Research.* 2019; 19(1): 403. IF: 1.932 - Article.

- Hernandez-Gallego J, Llamas-Velasco S, Bermejo-Pareja F, Vega S, Tapias-Merino E, Rodriguez-Sánchez E, Boycheva E, Serrano JL, Gil-Garcia JF, Trincado R, Sanchez-Rodrigo JM, Cacho J, Contador I, Garcia-Ptacek S, Sierra-Hidalgo F, Cubo E, Carro E, Villarejo-Galende A, Garcia-Patino RG, Benito-Leon J. Neurological Disorders in Central Spain, Second Survey: Feasibility Pilot Observational Study. *JMIR Research Protocols.* 2019; 8(1): e10941. IF: N/A - Article.

End Graduated Investigations Directed on the Group

Student: Silvia Benavente Sánchez

Title: Enfermedades Reemergentes: el Sarampión y el Movimiento Antivacunas

Director: Francisco Javier Pérez Rivas

Degree: Enfermería (UCM)

Student: Daniel Gadea Cachero

Title: Propuesta de Nuevas Recomendaciones Nutricionales para el Abordaje Efectivo del Diagnóstico Enfermero: "OBESIDAD".

Director: Francisco Javier Pérez Rivas

Degree: Enfermería (UCM)

Student: Laura García Méndez

Title: Importancia de la Educación Sexual en Personas con Discapacidad Intelectual y el Papel de Enfermería

Director: Francisco Javier Pérez Rivas

Degree: Enfermería (UCM)

Student: Karen Dayana Gómez Cruz

Title: El Papel de la Enfermera en el Abordaje de Niños y Adolescentes con Distorsión de Género

Director: Francisco Javier Pérez Rivas

Degree: Enfermería (UCM)

Student: Marta Molina García

Title: La Enfermería Escolar

Director: Francisco Javier Pérez Rivas

Degree: Enfermería (UCM)

End Master Investigations

Directed on the Group

Student: Nuria Alcolea Ruiz

Title: Influencia de la condición de vivir solo en el estado nutricional y en la presencia de patologías cardiovasculares en el varón adulto

Director: Francisco Javier Pérez Rivas

Master: Investigación en Cuidados de Salud, Enfermería (UCM)

Prizes and Awards

- Mesa de Mejores Comunicaciones del XXXVII Congreso SECA, por la comunicación titulada: 'Aprender haciendo' y 'Proceso enfermero': 2 metodologías que mejoran el estilo de vida de los estudiantes de enfermería. VIII Jornada de la Asociación Madrileña de la Calidad Asistencial (AMCA). Madrid 2019.

Premiado: Francisco Javier Pérez Rivas

MATERNAL AND CHILD HEALTH

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Pallás Alonso, Carmen Rosa (R4)

Alonso Díaz, Clara - Doctoral Researcher (R3)
 Belda Hofheinz, Sylvia M^a - Predoctoral Researcher (R1)
 Bergón Sendín, Elena - Postdoctoral Researcher (R2)
 Bustos Lozano, Gerardo José - Doctoral Researcher (R4)
 Cabañas Alonso, Esther - Predoctoral Researcher (R1)
 Casanueva Mateos, Lidia - Postdoctoral Researcher (R2)
 de Alba Romero, Concepción - Postdoctoral Researcher (R2)
 de la Cruz Bértolo, Francisco Javier - Postdoctoral Researcher (R2)
 Escuder Vieco, Diana - Doctoral Researcher (R3)
 García Lara, Nadia Raquel - Doctoral Researcher (R3)
 García San José, Lidia - Predoctoral Researcher (R1)
 Llorente de la Fuente, Ana M^a - Predoctoral Researcher (R1)

López Maestro, María - Doctoral Researcher (R3)
 Moral Pumarega, M^a Teresa - Doctoral Researcher (R3)
 Mosqueda Peña, Rocío - Postdoctoral Researcher (R2)
 Orbea Gallardo, Antonio Carlos - Predoctoral Researcher (R1)
 Palacios Cuesta, Alba - Predoctoral Researcher (R1)
 Piris Borregas, Salvador - Predoctoral Researcher (R1)
 Ramos Casado, M^a Victoria - Postdoctoral Researcher (R2)
 Sánchez Díaz, Juan Ignacio - Postdoctoral Researcher (R2)
 Tejada Palacios, Pilar - Doctoral Researcher (R4)
 Torres Valdivieso, M^a José - Postdoctoral Researcher (R2)
 Vázquez Román, Sara - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	Commission of the European Communities	1
Competitive	ISCIII	4
Competitive	Fundación Alicia Koplowitz	1
Non Competitive	Various	1
TOTAL		7

Title: NEOVANC - Treatment of late onset bacterial sepsis caused by vancomycin susceptible bacteria in neonates and infants aged under three months.

Principal Investigator: Concepción de Alba Romero

Funding Body: Commission of the European Communities

Start date: 01/02/2014

End date: 31/01/2019, extended to 31/07/2020

Title: Impacto clínico y económico de la suplementación con leche donada pasteurizada por el método HTST vs método HOLDER en prematuros de muy bajo peso al nacer. Ensayo clínico randomizado.

Principal Investigator: Carmen Rosa Pallás Alonso

Project No.: PI18/00834

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

Title: Discapacidad visual cerebral en poblaciones con alto riesgo de alteraciones de neurodesarrollo: rendimiento de la exploración oftalmológica básica y funcional, y de la tomografía de coherencia óptica.

Principal Investigator: Pilar Tejada Palacios

Project No.: PI17/01073

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: Relación entre la ingesta dietética y los parámetros bioquímicos de una población de donantes de leche materna con la concentración de micronutrientes y clases lipídicas en la leche donada.

Principal Investigator: Carmen Rosa Pallás Alonso

Project No.: PI15/00995

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

Title: PITÉS-TIIS: Registro clínico comprensivo para la atención integrada neonatal y la generación de conocimiento.

Principal Investigator: Gerardo José Bustos Lozano

Project No.: PI15/00825

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

Title: Estimación cognitiva en recién nacidos muy prematuros.

Principal Investigator: Carmen Rosa Pallás Alonso

Funding Body: Fundacion Alicia Koplowitz

Start date: 01/11/2018

End date: 31/10/2020

Title: Modificación del pH y crecimiento bacteriano en leche humana donada pasteurizada con el tiempo de refrigeración, en las condiciones habituales en una unidad neonatal.

Principal Investigator: Carmen Rosa Pallás Alonso

Funding Body: Roche Diagnostics GMBH

Start date: 01/01/2016

End date: 31/12/2019

Staff. Pediatric Critical Care Medicine. 2019; 20(3): 160-9. IF: 2.798 - Article.

Bustos Lozano G, Soriano-Ramos M, Pinilla Martín MT, Chumillas Calzada S, García Soria CE, Pallas-Alonso CR. Early Hypophosphatemia in High-Risk Preterm Infants: Efficacy and Safety of Sodium Glycerophosphate From First Day on Parenteral Nutrition. Journal of Parenteral and Enteral Nutrition. 2019; 43(3): 419-25. IF: 4.109 - Article.

Rodríguez López J, García Lara NR, López Maestro M, de la Cruz Bértolo J, Martínez Ávila JC, Vento M, Parra Llorca A, Izquierdo Macián I, Pellicer A, Marín Huarte N, Asla Elorriaga I, Román Echevarría L, Copons Fernández C, Martín Ancel A, Cabañas F, García Algar Ó, Pallás Alonso CR. What is the impact of mother's bed incline on episodes of decreased oxygen saturation in healthy newborns in skin-to-skin contact after delivery: Study protocol for a randomized controlled trial. Trials. 2019; 20(1): 179. IF: 1.975 - Article.

Maastrup R, Haiek LN, Lubbe W, Meerkin DY, Wolff L, Hatasaki K, Alsumaie MA, De Leon-Mendoza S, Ng YPM, Shorey S, Conti R, Leme T, Rossetto EG, Acosta AA, Nunez AEO, Toala E, Gonzalez MEO, Berger A, Hennequin Y, Bosnjak AP, Niela-Vilen H, Laurent C, Rousseau S, Jonsdottir R, Chapin EM, Smildzere A, Tameliene R, Zemaitiene R, Arendt M, Hansen MN, Huitfeldt AS, Bernatowicz-Lojko U, do Ceu Barbieri-Figueiredo M, Franca AP, Abolyan L, Pastbina I, Pallas-Alonso C, Pumarega MTM, Eriksson M, Flacking R, Johnson E, Anderson S, Berkman J, Boswall D, Brown D, Emberley J, LeDrew M, Scriniger-Wilkes M, Semenic S, Perriman N, O'Donoghue D. Compliance with the "Baby-friendly Hospital Initiative for Neonatal Wards" in 36 countries. Maternal and Child Nutrition. 2019; 15(2): e12690. IF: 3.305 - Article.

Munoz-Gallego A, De la Cruz J, Rodriguez-Salgado M, Torres-Pena JL, Sambricio J, Ortueda-Olartecoechea A, Tejada-Palacios P. Assessment of macular ganglion cell complex using optical coherence tomography: Impact of a paediatric reference database in clinical practice. Clinical and Experimental Ophthalmology. 2019; 47(4): 490-7. IF: 3.411 - Article.

Borghini L, Png E, Binder A, Wright VJ, Pinnock E, de Groot R, Hazelzet J, Emonts M, Van der Flier M, Schlapbach LJ, Anderson S, Secka F, Salas A, Fink C, Carroll ED, Pollard AJ, Coin LJ, Kuijpers TW, Martinon-Torres F, Zenz W, Levin M, Hibberd ML, Davila S, Gormley S, Hamilton S, Herberg J, Hourmat B, Hoggart C, Kafourou M, Sancho-Shimizu V, Abdulla A, Agapow P, Bartlett M, Bellos E, Eleftherohorinou H, Galassini R, Inwald D, Mashbat M, Menikou S, Mustafa S, Nadel S, Rahman R, Thakker C, Bokhandi S, Power S, Barham H, Pathan N, Ridout J, White D, Thurston S, Faust S, Patel S, McCorkell J, Davies P, Cratev L, Navarra H, Carter S, Ramaiah R, Patel R, Tuffrey C, Gribbin A, McCready S, Peters M, Hardy K, Standing F, O'Neill L, Abelake E, Deep A, Nsirim E, Willis L, Young Z, Royad C, White S, Fortune PM, Hudnott P, Gonzalez FA, Barral-Arca R, Cebey-Lopez M, Curras-Tuala MJ, Garcia N, Vicente LG, Gomez-Carballa A, Rial JG, Beiroa AG, Grande AJ, Iglesias PL, Santos AEM, Martinon-Torres N, Sanchez JMM, Perez BM, Pacheco PO, Pardo-Seco J, Pischedda S, Calle IR, Rodriguez-Tenreiro C, Redondo-Collazo

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- L, Fernandez SS, Silva MDP, Vega A, Reyes SB, Leon MCL, Mingorance AN, Barrios XG, Vergara EO, Torre AC, Vivanco A, Fernandez R, Sanchez FG, Forte MS, Rojo P, Contreras JR, Palacios A, Navarro M, Alvarez CA, Lozano MJ, Carreras E, Sanagustin SB, Neth O, Padilla MDM, Tato LMP, Guillen S, Silveira LF, Moreno D, van Furth AMT, van der Flier M, Boeddhia NP, Driessens GJA, Pajkrt D, Sanders EAM, van de Beek D, van der Ende A, Philipsen HLA, Adeel AOA, Breukels MA, Brinkman DMC, de Korte CCMM, de Vries E, de Waal WJ, Dekkers R, Dings-Lammertink A, Doedens RA, Donker AE, Dousma M, Faber TE, Gerrits GPJM, Gerver JAM, Heidema J, Homan-van der Veen J, Jacobs MAM, Jansen NJG, Kawczynski P, Klucovska K, Kneyber MCJ, Koopman-Keemink Y, Langenhorst VJ, Leusink J, Loza BF, Merth IT, Miedema CJ, Neeleman C, Noordzij JG, Obihara CC, van Overbeek-van Gils ALT, Poortman GH, Potgieter ST, Potjewijd J, Rosias PPR, Sprong T, ten Tuscher GW, Thio BJ, Tramper-Stranders GA, van Deuren M, van der Meer H, van Kuppevelt AJM, van Wermeskerken AM, Verwijs WA, Wolfs TFW, Agyeman P, Aebi C, Berger C, Giannoni E, Stocker M, Posfay-Barbe KM, Heininger U, Bernhard-Stirmann S, Niederer-Lohr A, Kahlert C, Hasters P, Rely C, Baer W, Paulus S, Frederick H, Jennings R, Johnston J, Kenwright R, Agbeko R, Bojang K, Sarr I, Kebbeh N, Sey G, Saidykhyan M, Cole F, Thomas G, Antonio M, Walcher W, Geishofer G, Klobassa D, Martin M, Pfurtscheller K, Reiter K, Rodl S, Zobel G, Zohrer B, Topke B, Fucik P, Gabriel M, Penzien JM, Diab G, Miething R, Deeg KH, Hammer J, Varnholt V, Schmidt A, Bindl L, Sillaber U, Huemer C, Meier P, Simic-Schleicher G, Markart M, Pfau E, Broede H, Ausserer B, Kalhoff H, Arpe V, Schweitzer-Krantz S, Kasper JM, Loranth K, Bittrich HJ, Simma B, Klinge J, Fedlmaier M, Weigand N, Herting E, Grube R, Fusch C, Gruber A, Schimmel U, Knauf-Schiefer S, Lassig W, Hennenberger A, von der Wense A, Tillmann R, Schwarck J, Sitzmann FC, Streif W, Muller H, Kurnik P, Groneck P, Weiss U, Groblacher-Roth H, Bensch J, Moser R, Schwarz R, Lenz K, Hofmann T, Gopel W, Schulz D, Berger T, Hauser E, Forster KM, Peters J, Nicolai TH, Kumlien B, Beckmann R, Seitz C, Huseman D, Schurmann R, Ta VH, Weikmann E, Evert W, Hautz J, Seidenberg J, Wocko L, Luigs P, Reiter HL, Quietzach J, Konig M, Herrmann J, Mitter H, Seidler E, Maak B, Sperl W, Zwiauer K, Meissl M, Koch R, Cremer M, Breuer HA, Gorke W, Nossal R, Pernice W, Brangenberg R, Salzer HR, Koch H, Schaller G, Paky F, Strasser F, Eitelberger F, Sontheimer D, Lischka A, Kronberger M, Dilch A, Scheibenpflug C, Bruckner R, Mahler K, Runge K, Kunze W, Schermann P; EUCLIDS Consortium. Identification of regulatory variants associated with genetic susceptibility to meningococcal disease. *Scientific Reports*. 2019; 9(1): 6966. IF: 4.011 - Article.
- Nuñez-Ramiro A, Benavente-Fernandez I, Valverde E, Cordeiro M, Blanco D, Boix H, Cabañas F, Chaffanel M, Fernandez-Colomer B, Fernandez-Lorenzo JR, Kuligowski J, Loureiro B, Moral-Pumarega MT, Pavon A, Sanchez-Illana A, Tofé I, Hervas D, Garcia-Robles A, Parra-Llorca A, Cernada M, Martinez-Rodilla J, Lorente-Pozo S, Llorens R, Marques R, Vento M; on behalf of the Hypotop Study Group. Topiramate plus Cooling for Hypoxic-Ischemic Encephalopathy: A Randomized, Controlled, Multicenter, Double-Blinded Trial. *Neonatology*. 2019; 116(1): 76-84. IF: 2.554 - Article.
- Pallas-Alonso CR, Loureiro B, De la Cruz Bertolo J, Garcia P, Ginovart G, Jimenez A, Martin Y, Soriano J, Torres MJ, Vento M. Spanish survey on follow-up programmes for children born very preterm. *Acta Paediatrica*. 2019; 108(6): 1042-8. IF: 2.265 - Article.
- Vázquez Gómez F, Díaz Ruiz L, Bergón Sendín E, Barceló Mendiguchía A, Tejada Palacios P. Terapia láser en afectación ocular tras el diagnóstico de incontinencia pigmenti en una niña. *Archivos Argentinos de Pediatría*. 2019; 117(3): 252-6. IF: 0.506 - Article.
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- Piris Borregas S, Torres Valdivieso MJ, Martin-Arriscado C, de la Cruz Bértolo J, Sierra García P, Pallás Alonso CR. Model that predicted death or disabilities in premature infants was valid at seven years of age. *Acta Paediatrica*. 2019; 108(7): 1245-9. IF: 2.265 - Article.
- Soriano-Ramos M, Bergon-Sendín E, Moral-Pumarega MT, Pallas-Alonso CR. Congenital Laser-Induced Burns: A Potential Complication after Laser Photocoagulation in Monochorionic Twin Pregnancy. *Fetal and Pediatric Pathology*. 2019; 38(4): 340-4. IF: 0.626 - Article.
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- Bachiller-Carnicer L, Garcia-Soria CE, Piris-Borregas S, Sierra-Garcia P, Torres-Valdivieso MJ, Pallas-Alonso CR. Uso del Strength and Difficulties Questionnaire en prematuros para su evaluacion psicosocial y cribado del trastorno por deficit de atencion e hiperactividad. *Anales de Pediatría*. 2019; 91(3): 142-50. IF: 1.166 - Article.
- Oviedo-Melgares L, Soriano-Ramos M, Sanchez Del Pozo J, Vazquez-Roman S. Neonato con genitales ambiguos: ¿disgenesia gonadal mixta? *Anales de Pediatría*. 2019; 91(3): 207-8. IF: 1.166 - Article.
- Flores-Anton B, Martin-Cornejo J, Morante-Santana MA, Garcia-Lara NR, Sierra-Colomina G, De la Cruz-Bertolo J, Martin-Arriscado-Arroba C, Escudero-Vieco D, Soriano-Ramos M, Chaves F, Pallas-Alonso CR. Comparison of two methods for cleaning breast pump milk collection kits in human milk banks. *Journal of Hospital Infection*. 2019; 103(2): 217-22. IF: 3.704 - Article.
- Thakkar RK, Weiss SL, Fitzgerald JC, Keele L, Thomas NJ, Nadkarni VM, Muszynski JA, Hall MW, Fontela P, Tucci M, Dumistrascu M, Skippen P, Krahn G, Bezares E, Puig G, Puig-Ramos A, Garcia R, Villar M, Bigham M, Polanski T, Latifi S, Giebner D, Anthony H, Hume J, Galster A, Linnerud L, Sanders R, Hefley G, Madden K, Thompson A, Shein S, Gertz S, Han Y, Williams T, Hughes-Schalk A, Chandler H, Orioles A, Zielinski E, Doucette A, Zebuhr C, Wilson T, Dimitriades C, Ascani J, Layburn S, Valley S, Markowitz B, Terry J, Morzov R, McInnes A, McArthur J, Woods K, Murkowski K, Spaeder M, Sharron M, Wheeler D, Beckman E, Frank E, Howard K, Carroll C, Nett S, Jarvis D, Patel V, Higgerson R, Christie L, Typpo K, Deschenes J, Kirby A, Uhl T, Rehder K, Cheifetz I, Wrenn S, Kypuros K, Ackerman K, Maffei F, Bloomquist G, Rizkalla N, Kimura D, Shah S, Tigges C, Su F, Barlow C, Michelson K, Wolfe K, Goodman D, Campbell L, Sorce L, Bysani K, Monjure T, Evans M, Totapally B, Chegondi M, Rodriguez C, Frazier J, Steele L, Viteri S, Costarino A, Thomas N, Spear D, Hirshberg E, Lilley J, Rowan C, Rider C, Kane J, Zimmerman J, Greeley C, Lin J, Jacobs R, Parker M, Culver K, Loftis L, Jaimon N, Goldsworthy M, Fitzgerald J, Weiss S, Nadkarni V, Bush J, Dilberto M, Allen C, Gessouroun M, Sapru A, Lang T, Alkhouri M, Kamath S, Friel D, Daufeldt J, Hsing D, Carlo C, Pon S, Scimeme J, Shaheen A, Hassinger A, Qiao H, Giuliano, J, Tala, J, Vinciguerra, D, Fernandez, A, Carrero, R, Hoyos, P, Jaramillo, J, Posada, A, Izquierdo L, Olave BEP, Donado J, Dalmazzo R, Rendich S, Palma L, Lapadula M, Acuna C, Cruces P, De Clety SC, Dujardin M, Berghe C, Renard S, Zurek J, Steinherr H, Mougou K, Critselis E, Di Nardo M, Picardo S, Tortora F, Rossetti E, Fragasso T, Cogo P, Netto R, Dagys A, Gurskis V, Kevalas R, Neeleman C, Lemson J, Luijten C, Wojciech K, Pagowska-Klimek I, Szczepanska M, Karpe J, Nunes P, Almeida H, Rios J, Vieira M, Iniguez JPG, Revilla P, Urbano J, Lopez-Herce J, Bustinza A, Palacios A, Hofheinz S, Rodriguez-Nunez A, Sanagustin S, Gonzalez E, Riaza, M, Piaya, R, Soler, P, Esteban, E, Laraudogoitia, J, Monge, C, Herrera, V, Granados, J, Gonzalez C, Koroglu T, Ozcelik E, Baines P, Plunkett A, Davis P, George S, Tibby S, Harris J, Agbeko R, Lampitt R, Brierley J, Peters M, Jones A, Dominguez T, Thiruchelvam T, Deep A, Ridley L, Bowen W, Levin R, Macleod I, Gray M, Hemat N, Alexander J, Ali S, Pappachan J, McCormick J, Fortune P, MacDonald M, Hudnott P, Suyun Q, Singh S, Nallasamy K, Lodha R, Shime N, Tabata Y, Saito O, Ikeyama T, Kawasaki T, Lum L, Abidin A, Kee S, Tang S, Jalil R, Guan Y, Yao L, Lin K, Ong J, Saloo A, Doedens L, Mathivha L, Reubenson G, Moaisi S, Pentz A, Green R, Schibler A, Erickson S, McEneiry J, Long D, Dorofaeff T, Coulthard M, Millar J, Delzoppo C, Williams G, Morritt M, Watts N, Beca J, Sherring C, Bushell T; SPROUT Investigators, Pediat Acute Lung Injury Sepsis In. Risk Factors for Mortality in Pediatric Postsurgical versus Medical Severe Sepsis. *Journal of Surgical Research*. 2019; 242: 100-10. IF: 1.872 - Article.
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- Aguilar JM, Garcia E, Melo M, Rojas C, Belda S, Llorente A, Garcia-Maellas M, Boni L. Extracorporeal membrane oxygenation post-cardiotomy in the pediatric age: 119 patients in 20 years of experience. *Cirugía Cardiovascular*. 2019; 26: 4-10. IF: N/A - Article.
- González Viejo I, García-Ormaechea Romeo I, Tejada Palacios P, López López C, Escudero Gómez J, Harto Castaño M. Visual function and CVI in children (cerebral visual impairment): The importance of understanding and treating it. *Archivos de la Sociedad Española de Oftalmología*. 2019; 94(6): 261-2. IF: N/A - Article.
- Muñoz-Gallego A, Rodríguez-Salgado M, de la Cruz J, Lopez Lopez C, Cañas-Zamarra I, Tejada-Palacios P. Paediatric optical coherence tomography normative databases: A real need. *Archivos de la Sociedad Española de Oftalmología*. 2019; 94(12): 591-7. IF: N/A - Article.
- Ramos JT, Romero CA, Belda S, Candel FJ, Gallego BC, Fernandez-Polo A, Antolin LF, Colino CG, Navarro ML, Neth O, Olbrich P, Rincon-Lopez E, Contreras JR, Soler-Palacin P; Spanish Soc Paediatric Infect Dis, Traslational Res Network Pediat In. Clinical practice update of antifungal prophylaxis in immunocompromised children. *Revista Española de Quimioterapia*. 2019; 32(5): 410-25. IF: 0.760 - Review.
- Yanez, CC, Barrio BC, Labian MDM, Movilla RO, Lara NRG, Vicente AR, Gabriel MAM. Providing very preterm infants with donor human milk led to faster breastfeeding rates but worse biometric gains. *Acta Paediatrica*. 2019; 108(4): 766-7. IF: 2.265 - Editorial Material.
- Soriano-Ramos M, Orellana-Felis E, Moral-Pumarega MT, Lopez-Maestro M, de Alba-Romero C, Galindo-Izquierdo A, Pallas-Alonso CR. Heparin in Congenital Chylothorax and Chylous Ascites. *Indian Journal of Pediatrics*. 2019; 86(7): 660-1. IF: 1.136 - Letter.
- Rodriguez-Rey R, Palacios A, Alonso-Tapia J. Training in communication skills, end-of-life care, and coping strategies as the key to preventing burnout in clinicians. *Australian Critical Care*. 2019; 32(4): 277-8. IF: 2.515 - Letter.
- Rubio San Simon A, Carbajo Jimenez T, Vara Martin J, Alonso Diaz C, Espino

- Hernandez M. Poliquistosis renal autosómica recesiva en el siglo XXI: seguimiento y evolución a largo plazo. *Anales de Pediatría*. 2019; 91(2): 120-2. IF: 1.166 - Letter.
- Garcia-Lara NR, Carbayo Jiménez T, Pérez Rivilla A, Pallás Alonso CR. Cruces de leche materna en las unidades neonatales. *Anales de Pediatría*. 2019; 91(5): 359-60. IF: 1.166 - Letter.

End Graduated Investigations Directed on the Group

- **Student:** Ricardo Martínez González
Title: Ictus perinatal. Tipos y Factores de riesgo. Estudios indicados y evolución en el Seguimiento”
Director: Carmen Rosa Pallás Alonso
Degree: Medicina (UCM)

Prizes and Awards

- Premio a la mejor comunicación del Congreso: X Congreso Español de Lactancia Materna. Santiago de Compostela. Abril 2019.
- Nadia Raquel García Lara, Tania Carbayo Jiménez, Esther Cabañas Alonso, Mercedes Diezma, María Palomares Eraso, Alfredo Pérez Rivilla, Elena Bergón Sendín, Ana Melgar Bonis, Mari Ángeles Morante Santana, María Teresa Moral Pumarega. Caracterización de los episodios de administración de leche materna a un receptor erróneo (cruce de leche) en una Unidad de Neonatología.

Patents

- **Title:** Pasteurizador en Continuo para Leche Humana.
Number: CO20180006208.
Type: EFN PCT, Colombia national patent.
Inventors: Carmen Rosa Pallas Alonso, Diana Escuder Vieco, Irene Espinosa Martos, Leónides Fernández Álvarez, Pablo Siegfried Seley, Juan Miguel Rodríguez Gómez.
Owners: Fundación i+12 (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,33%).
Date of application: 15/06/2018
- **Title:** Pasteurizador en Continuo para Leche Humana.
Number: EP16834706.0.
Type: EFN PCT, European patent.
Inventors: Carmen Rosa Pallas Alonso, Diana Escuder Vieco, Irene Espino-

sa Martos, Leónides Fernández Álvarez, Pablo Siegfried Seley, Juan Miguel Rodríguez Gómez.

Owners: Fundación i+12 (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,33%).

Date of application: 08/03/2018

▪ **Title:** Pasteurizador en Continuo para Leche Humana.

Number: BR20181102810.

Type: EFN PCT, Brasil national patent.

Inventors: Carmen Rosa Pallas Alonso, Diana Escuder Vieco, Irene Espinosa Martos, Leónides Fernández Álvarez, Pablo Siegfried Seley, Juan Miguel Rodríguez Gómez.

Owners: Fundación i+12 (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,33%).

Date of application: 09/02/2018

▪ **Title:** Pasteurizador en Continuo para Leche Humana.

Number: PE20180000218.

Type: EFN PCT, Peru national patent.

Inventors: Carmen Rosa Pallas Alonso, Diana Escuder Vieco, Irene Espinosa Martos, Leónides Fernández Álvarez, Pablo Siegfried Seley, Juan Miguel Rodríguez Gómez.

Owners: Fundación i+12 (33,33%), Probisearch (33,33%), Sive Fluid Systems (33,33%).

Date of application: 09/02/2018

▪ **Title:** Pasteurizador en continuo para leche humana.

Number: PCT/ES2016/070594.

Type: PCT patent.

Inventors: Diana Escuder Vieco, Carmen Rosa Pallas Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.

Owners: Fundación i+12 (33,33%), Sive Fluid Systems, S.L. (33,33%), Probisearch, S.L. (33,33%).

Date of application: 05/08/2016

▪ **Title:** Pasteurizador en continuo a altas temperaturas y tiempos cortos para la leche humana.

Number: P201531186.

Type: Spanish patent.

Inventors: Diana Escuder Vieco, Carmen Rosa Pallas Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.

Owners: Fundación i+12 (33,33%), Sive Fluid Systems, S.L. (33,33%), Probisearch, S.L. (33,33%).

Date of application: 11/08/2015

RESEARCH IN COMPLEX PATIENTS AND HEALTH SYSTEM

CENTER: Primary Care

GROUP LEADER: Alberquilla Menéndez-Asenjo, Ángel (R4)

Añino Alba, Almudena - Postdoctoral Researcher (R2)
del Pino Casado, Benito - Predoctoral Researcher (R1)
Fernández Esteban, Inmaculada - Postdoctoral Researcher (R2)
Fernández Moreno, Aurora - Doctoral Researcher (R3)
García Olmos, Luis - Doctoral Researcher (R4)
Guerrero Hierro, Alonso - Predoctoral Researcher (R1)
Martín Gordo, Olga - Postdoctoral Researcher (R2)

Martín Moreno, Vicente - Postdoctoral Researcher (R2)
Menéndez Orenga, Miguel - Doctoral Researcher (R3)
Piñero Acín, Mª José - Predoctoral Researcher (R1)
Pozuelo González, Carolina - Postdoctoral Researcher (R2)
Sánchez Prida, Natalia - Predoctoral Researcher (R1)
Siguin Gómez, Raquel - Postdoctoral Researcher (R2)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Title: Cohorte de pacientes con hipertensión arterial resistente en Atención Primaria: exceso de riesgo de enfermedad renal crónica.

Principal Investigator: Tomás Gómez Gascón, IC: Ángel Alberquilla Menéndez-Asenjo

Project No.: PI16/01609

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

Title: Comorbilidades y usos de servicios de salud en mujeres que han sobrevivido al cáncer de mama cinco años o más". (Proyecto SURCAN).

Principal Investigator: María Sala Serra, IC: Ángel Alberquilla Menéndez-Asenjo

Project No.: PI16/00244

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	5	9.060
Reviews	1	0.600
TOTAL	6	9.660

- Ruiz-Ruiz F, Menendez-Orenga M, Medrano FJ, Calderon EJ, Lora-Pablos D, Navarro-Puerto MA, Rodriguez-Torres P, Gómez de la Cámara A. The prognosis of patients hospitalized with a first episode of heart failure, validation of two scores: PREDICE and AHEAD. Clinical Epidemiology. 2019; 11: 615-24. IF: 3.178 - Article.
- Fernandez-Vegue MG, Orenga MM. National survey on breastfeeding knowledge amongst residents in Pediatrics in Spain. Revista Española de Salud Pública. 2019; 93: e201908060. IF: 0.635 - Article.
- García-Olmos L, Aguilar R, Lora D, Carmona M, Alberquilla A, García-Caballero R, Sánchez-Gómez L; CHIC Group. Development of a predictive model of hospitalization in primary care patients with heart failure. Plos One. 2019; 14(8): e0221434. IF: 2.776 - Article.
- González-Burboa A, Acevedo Cossio C, Vera-Calzaretta A, Villaseca-Silva P, Müller-Ortiz H, Páez Rovira D, Pedreros Rosales C, Mealberquilla Néndez-Asenjo Á, Otero Puime Á. ¿Son efectivas las intervenciones psicológicas para mejorar el control de la Diabetes Mellitus tipo 2 en adultos? Una revisión sistemática y metaanálisis. Revista Médica de Chile. 2019; 147(11): 1423-36. IF: 0.485 - Article.

sistemática y metaanálisis. Revista Médica de Chile. 2019; 147(11): 1423-36. IF: 0.485 - Article.

- García-Olmos L, Batlle M, Aguilar R, Porro C, Carmona M, Alberquilla A, Sánchez-Gómez LM, Monge E, López-Rodríguez AB, Benito L, Baños N, Simón A, Martínez-Álvarez MA, Luque EM, García-Benito C. Disability and quality of life in heart failure patients: a cross-sectional study. Family Practice. 2019; 36(6): 693-8. IF: 1.986 - Article.
- Orenga MM, Pablos DL, de la Camara AG. MedDietCalc: multi calculator to compute scores of adherence to Mediterranean Diet. Health and Technology. 2019; 9(4): 497-504. IF: N/A - Article.
- Gonzalez-Burboa A, Luarte-Martinez S, Villaseca Silva P, Manriquez Vidal C, Muller Ortiz H, Pedreros Rosales C, Alberquilla Menendez-Asenjo A, Otero Puime A, Paez Rovira D, Vera-Calzaretta A. Effectiveness of Mindfulness-based interventions to improve control of type 2 diabetes mellitus: A systematic review and preliminary meta-analytic integration. Terapia Psicologica. 2019; 37(1): 53-70. IF: 0.600 - Review.

End Residency Investigations Directed on the Group

In the Family and Community Medicine teaching units is mandatory that resident physicians to present and defend an end of residency research project in order to obtain the specialist title:

- Student:** Fahd Beddar Chaib
Title: Factores de riesgo, evaluación del manejo y complicaciones de la trombosis venosa superficial de miembros inferiores en pacientes de centros desalud atención primaria
Director: Aurora Fernández Moreno
Residency: Family and Community Medicine

- Student:** Paula Fabero Cruz
Title: Gestión del uso de benzodiacepinas en paciente mayores de 75 años en dos centros de salud urbanos de Madrid
Director: Ángel Alberquilla Menéndez-Asenjo
Residency: Family and Community Medicine

- Student:** Carlos Elías Caballero
Title: Pertinencia y adecuación en las derivaciones a urgencias en el centro de salud de San Fermín
Director: Ángel Alberquilla Menéndez-Asenjo
Residency: Family and Community Medicine

- Student:** Cristina Ruiz Morollón
Title: Caracterización del riesgo cardiovascular en una población con 25-OH Vitamina D menor de 10 ng/ml. Estudios descriptivo transversal en un centro de salud urbano
Director: Alberquilla Menéndez-Asenjo
Residency: Family and Community Medicine

- Student:** Rebeca Ramos Méndez
Title: Aneurismas de Aorta Abdominal en población de riesgo: Despistaje mediante ecografía abdominal en Atención Primaria y evaluación de la validez de la misma
Director: Alberquilla Menéndez-Asenjo
Residency: Family and Community Medicine

- Student:** Miguel Herrera Pacheco
Title: Programa de ejercicio físico añadido al de reeducación alimentaria con el objetivo de bajar de peso y mejora de la calidad de vida
Director: Aurora Fernández Moreno
Residency: Family and Community Medicine

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

CLINICAL PRACTICE APPROPRIATENESS AND PATIENT SAFETY

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Ruiz López, Pedro Miguel (R3)

Díaz Tasende, José - Doctoral Researcher (R3)

Tejido Sánchez, Ángel - Doctoral Researcher (R3)

Varela Rodríguez, Carolina - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- Title:** Validación de la herramienta "TRIGGER" para la detección de eventos adversos en cirugía general y aparato digestivo.

Principal Investigator: Pedro Miguel Ruiz López

Project No.: PI17/01374

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	3	4.385
Reviews	1	1.126
TOTAL	4	5.511

- Benitez-Sala R, Medina-Polo J, Justo-Quintas J, Gil-Moradillo J, Perez-Cadavid S, Arrebola-Pajares A, Sopena-Sutil R, Lara-Isla A, Alonso-Isa M, Gonzalez-Padilla DA, Garcia-Rojo E, Miranda-Utrera N, Aguilar-Gisbert L, Tejido-Sánchez A. Infections related to healthcare in patients hospitalized in a Urology service: resistance patterns and adequacy of empirical antibiotic treatment as a prognostic factor. *Actas Urológicas Españolas*. 2019; 43(3): 151-7. IF: 1.136 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Student:** Rocío Cecibel Intriago Flores
Title: Evaluación de la calidad de la historia clínica de médicos residentes del Servicio de Traumatología del Hospital Marcos Vinicio Iza
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Ana Judith Eras Curimilma
Title: Estudio de la aplicación de la lista de verificación quirúrgica (check list), en las intervenciones quirúrgicas del área de centro obstétrico del hospital "Manuel Ygnacio Monteros"
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** David Gustavo Chacha Utto
Title: Implantación de la lista de verificación de seguridad quirúrgica en el Hospital General Docente de Calderón, Quito - Ecuador, 2019.
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Javier Suárez Cuenca
Title: Malnutrición subclínica en los adultos sometidos a cirugía cardiaca con circulación extracorpórea: implicaciones analíticas y correlaciones clínicas
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Mª Antonia Reyes Santana
Title: Cumplimiento por especialidades y categorías profesionales de lavado de manos en el personal del área de quirófano del Hospital General IESE Portoviejo
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Shirley Geomar Poveda Navarrete
Title: Protocolo de Atención Segura en paciente quirúrgico gineco-obstétrico en Hospital Universitario de Guayaquil
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Mª Eugenia Imaicela Ordóñez
Title: Diseño de una Guía de Buenas Prácticas de Laboratorio, con el soporte de las normas UNE-EN-ISO 9001:2015, para el Laboratorio Clínico del Centro de Salud Universitario de Motupe
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Isabel San Casimiro Cenzano
Title: Proyecto para concurrir a una jefatura de servicio en urgencias hospitalarias
Director: Pedro Miguel Ruiz López
Master: Dirección y Gestión Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Jennifer Salazar Moreno
Title: Programa de educación a pacientes con cuidados paliativos y sus familias en el Centro de Salud tipo B "Puebloviejo", del Cantón, Provincia de Los Ríos
Director: Pedro Miguel Ruiz López
Master: Dirección y Gestión Sanitaria. (Universidad Internacional de La Rioja)

- Student:** Selman Franco Salonia Amin
Title: Unidad de gestión clínica de salud mental. Área V de salud. Servicio Murciano de Salud
Director: Pedro Miguel Ruiz López
Master: Dirección y Gestión Sanitaria. (Universidad Internacional de La Rioja)

End Master Investigations Directed on the Group

- Student:** Paulina Mercedes Zumbana Mondragón
Title: La implementación de práctica segura EN rehabilitación física del hospital IESE Latacunga.
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

AREA 5. CARDIOVASCULAR

COORDINATOR: HÉCTOR JOSÉ BUENO ZAMORA

Translational Multidisciplinary Cardiovascular Research
Research in Cardiovascular Image
Heart Failure – Pulmonary Hypertension
Translational Research in Hypertension and Cardiorenal Disease
Perinatal Medicine
Research on Cardiovascular Risk



Cardiovascular diseases (CVD) are the leading cause of death both in Spain and in most countries. The prevalence of diseases such as arterial hypertension, heart failure, ischemic heart disease or atrial fibrillation in the population is very high and can be considered almost epidemic in the later stages of life.

The Cardiovascular Research area was created with the generic objectives of increasing synergies between researchers in this field, avoiding the dispersion and/or redundancy of functions and increasing the efficiency of research in all areas, promoting the generation of scientific knowledge that can ultimately be transferred to patient care and the health system.

The i+12 Cardiovascular research area is a functional research unit focused on the patient, with a multidisciplinary character, open to collaboration and synergic work with other i+12 research areas, other hospitals and research centres and with technological innovation companies to efficiently generate solid, useful and quality knowledge to advance in the understanding of problems related to cardiovascular diseases, their diagnosis or solution, which it will disseminate for public benefit.

Annual objectives set

- **Promote interaction and cooperation between the research groups that make up the area** - Regular meetings have been held and minutes taken.
- **Establish priority lines of work**
 - Research on Pre-eclampsia, Cardiovascular Risk and Image
 - Research on the role of Klotho and CV prevention.
 - Genotype/phenotype study of the nuclear protein mutation in the Canary Islands population with dilated cardiomyopathy.
 - Engineering applied to health, technology and artificial intelligence.
 - Study of the variability of blood pressure recorded by MAPA and heart failure.

For the future, it was decided to incorporate machine learning into the research projects of the groups that make up the area.

- **Encourage applications from human resources participating in the development of research projects among the groups in the area** - 4 grants have been obtained for pre-doctoral researcher contracts, 2 grants for auxiliary staff contracts and one Sara Borrell post-doctoral contract.
- **Increase the production of intra- and inter-area projects** - Area members participate in multiple collaborative projects.
- **Consolidate participation in the CIBERCV** - A total of 7 researchers have registered for 2019.
- **Encourage the purchase of common equipment to optimise resources.**

List of the five most relevant publications of the Cardiovascular Area during 2019

The following are the 5 most relevant publications in the Cardiovascular Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. Redondo-Bravo L, Fernandez-Alvira JM, Gorri J, Mendiguren JM, Sanz J, Fernandez-Friera L, Garcia-Ruiz JM, Fernandez-Ortiz A, Ibáñez B, **Bueno H**, Fuster, V. Does Socioeconomic Status Influence the Risk of Subclinical Atherosclerosis?: AMediationModel. Journal of The American College of Cardiology. 2019; 74(4): 526-35. IF: 20.589 - D1 - Article.
2. Vidan MT, Martín Sánchez FJ, Sanchez E, Ortiz FJ, Serra-Rexach JA, Martinez-Selles M, **Bueno H**. Most elderly patients hospitalized for heart failure lack the abilities needed to perform the tasks required for self-care: impact on outcomes. European Journal of Heart Failure. 2019; 21(11): 1434-42. IF: 11.627 - D1 - Article.
3. **Ruizope LM, Ruiz-Hurtado G**, Barderas MG, de la Cruz JJ, **Lucia A**, de la Sierra A, Gorostidi M, Vinyoles E, **Segura J, Solis J, Arribas F**, Garcia-Puig J, Tamargo J, O'Brien E, Volpe M, Whelton PK, Williams B, Banegas JR. Frequency and Prognosis of Treated Hypertensive Patients According to Prior and New Blood Pressure Goals. Hypertension. 2019; 74(1): 130-6. IF: 7.713 - D1 - Article.
4. **Bueno H**, Rossello X, Pocock SJ, Van de Werf F, Chin CT, Danchin N, Lee SWL, Medina J, Huo Y. In-Hospital Coronary Revascularization Rates and Post-Discharge Mortality Risk in Non-ST-Segment Elevation Acute Coronary Syndrome. Journal of The American College of Cardiology. 2019; 74(11): 1454-61. IF: 20.589 - D1 - Article.
5. **Rodríguez-Sánchez E, Navarro-García JA, Aceves-Ripoll J, González-Lafuente L**, Corbacho-Alonso N, Martinez P, Calvo-Bonacho E, Alvarez-Llamas G, Barderas MG, **Ruizope LM, Ruiz-Hurtado G**. Lifetime cardiovascular risk is associated with a multimarker score of systemic oxidative status in young adults independently of traditional risk factors. Translational Research. 2019; 212: 54-66. IF: 5.411 - D1 - Article.

TRANSLATIONAL MULTIDISCIPLINARY CARDIOVASCULAR RESEARCH

CENTER: Hospital Universitario 12 de Octubre (H12O)

GROUP LEADER: Bueno Zamora, Héctor José (R4)

Anaya Caravaca, M^a Belén - Predoctoral Researcher (R1)
 Arribas Ynsaurriaga, Fernando - Doctoral Researcher (R4)
 Borrego Bernabe, Luis - Clinical Researcher
 Casado Lorrio, Laura - Bachelor Researcher
 Cortes Beringola, Alejandro - Bachelor Researcher
 Domínguez Pérez, Laura - Predoctoral Researcher (R1)
 Fontenla Cerezuela, Adolfo - Doctoral Researcher (R3)
 García Martín, Elena Puerto - Predoctoral Researcher (R1)
 García Tejada, Julio - Postdoctoral Researcher (R2)
 Garrote Natividad, Sergio - Predoctoral Researcher (R1)
 Gómez Blázquez, Iván Tomás - Clinical Researcher
 Gómez Grande, Adolfo - Predoctoral Researcher (R1)
 Gómez Gómez, Edwin Tadeo - Predoctoral Researcher (R1)

González Gómez, M^a del Pilar - Clinical Researcher
 Huertas Nieto, Sergio - Predoctoral Researcher (R1)
 López Gil, María - Clinical Researcher
 Maneiro Melon, Nicolas Manuel - Predoctoral Researcher (R1)
 Martín Asenjo, Roberto - Clinical Researcher
 Montilla Padilla, Isabel - Predoctoral Researcher (R1)
 Moreno Muñoz, Guillermo - Predoctoral Researcher (R1)
 Palomino Doza, Addison Julián - Postdoctoral Researcher (R2)
 Rodríguez Muñoz, Daniel Antonio - Postdoctoral Researcher (R2)
 Salguero Bodes, Rafael - Clinical Researcher
 Sarnago Cebada, Fernando - Clinical Researcher
 Tello de Meneses Becerra, Rocío - Clinical Researcher
 Valverde Gómez, María - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Non Competitive	Various	7
TOTAL		10

- Title:** Estudio traslacional sobre Ivabradina como fármaco depresor de la conducción a través del nodo auriculoventricular para el control de la frecuencia.
Principal Investigator: Adolfo Fontenla Cerezuela
Project No.: PI17/01272
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** TAKO-TSUBO-BRAIN PROJECT. Estudio para identificar los mecanismos psicológicos, neuropsicológicos y neurofisiológicos del Síndrome de Tako-Tsubo.
Principal Investigator: Héctor José Bueno Zamora
Project No.: PI17/01799
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020

Principal Investigator: Hector José Bueno Zamora

Project No.: PI17/01799

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Title: ATHERO-BRAIN: HEART TO HEAD (H2H) STUDY.

Principal Investigator: Héctor José Bueno Zamora

Project No.: PIE16/00021

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 31/12/2021

Title: Impact of lesion calcification on clinical, angiographic.

Principal Investigator: Iván Tomás Gómez Blazquez

Funding Body: Biosensors Europe, S.A.

Start date: 24/12/2019

End date: 31/12/2021

Title: Investigación de la estructura y función del sistema cardiovascular en la salud y enfermedad y los mecanismos implicados (PICAT 1 - CARDIOBANK i+12 - GREGORIO MARAÑÓN).

Principal Investigator: Héctor José Bueno Zamora

Funding Body: Fundación Investigación Biomédica Hospital Gregorio Marañón

Start date: 25/02/2016

End date: 24/02/2019

- Title:** Evaluación de los índices hemodinámicos de severidad de lesiones coronarias en pacientes con estenosis aórtica severa: validación de la ffr y de la relación PD/PA dada su independencia de la hiperemia en pacientes con estenosis aórtica severa sometidos a implante de válvula aórtica transcatéter.

Principal Investigator: Fernando Sarnago Cebada

Funding Body: Medtronic Iberica S.A.

Start date: 18/07/2018

End date: 17/07/2021

- Title:** Impacto de las terapias disponibles en el riesgo de muerte súbita en cardiopatías heredofamiliares: correlación genotipo-fenotipo.

Principal Investigator: Addison Julián Palomino Doza

Funding Body: Medtronic Iberica S.A.

Start date: 01/07/2018

End date: 30/06/2020

- Title:** Estudio prevalencia del bloqueo de rama en los pacientes ingresados por insuficiencia cardíaca congestiva en el Hospital 12 de Octubre. implicación en el manejo terapéutico de dichos pacientes de acuerdo a las guías de práctica clínica.

Principal Investigator: María López Gil

Funding Body: Medtronic Iberica S.A.

Start date: 18/06/2014

End date: 17/06/2017, extended to 31/12/2019

- Title:** Proyecto para la evaluación y mejora de la seguridad del paciente en cardiología.

Principal Investigator: Roberto Martín Asenjo

Funding Body: Fundación Española del Corazón

Start date: 08/08/2017

End date: 31/12/2021

- Title:** Valoración de la hemodinámica pulmonar durante el ejercicio en diferentes formas de hipertensión pulmonar.

Principal Investigator: Fernando Arribas Ynsaurriaga

Funding Body: Pfizer, S.L.U.

Start date: 08/02/2012

End date: 30/06/2019

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Predictores de incumplimiento con las medidas de prevención secundaria en infarto.

Principal Investigator: Héctor José Bueno Zamora

Funding Body: Sociedad Española de Cardiología

Start date: 01/11/2019

End date: 01/12/2021

- Title:** Antocianos y flavanoles de los alimentos como estrategia de envejecimiento saludable: salud cardiovascular y estado cognitivo.

Principal Investigator: Sonia Cristina de Pascual, Teresa Fernández, Verónica Puertas Martín (colaborador)

Project No.: Convocatoria RETOS 2016-AGL2016-76832-R.

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2017

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	44	397.465
Reviews	2	28.909
Editorials	4	37.190
TOTAL	50	463.564
Letters	3	1.166
TOTAL	53	464.730

- Bermejo-Guerrero L, Sanchez-Tejerina D, Sanchez-Tornero M, Sanchez-Sánchez MDC, Gomez-Grande A, Villarejo-Galende A, Martín AOH, Gonzalez-Sanchez M. Low Amyloid-PET Uptake in Iowa-Type Cerebral Amyloid Angiopathy with Cerebral Venous Thrombosis. Journal of Alzheimers Disease. 2019; 72(3): 677-81. IF: 3.517 - Article.

- Rossello X, Bueno H, Pocock SJ, Van de Werf F, Danchin N, Annemans L, Medina J, Zeymer U. Predictors of all-cause mortality and ischemic events within and beyond 1 year after an acute coronary syndrome: Results from the EPICOR registry. Clinical Cardiology. 2019; 42(1): 111-9. IF: 2.455 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Neumann FJ, Sousa-Uva M, Ahlsson A, Alfonso F, Banning AP, Benedetto U, Byrne RA, Collet JP, Falk V, Head SJ, Jüni P, Kastrati A, Koller A, Kristensen SD, Niebauer J, Richter DJ, Seferovic PM, Sibbing D, Stefanini GG, Windecker S, Yadav R, Zembala MO; ESC Scientific Document Group. 2018 ESC/EACTS Guidelines on myocardial revascularization. *European Heart Journal*. 2019; 40(2): 87-165. IF: 23.239 - Article.
- Dominguez F, Fuster V, Fernandez-Alvira JM, Fernandez-Friera L, Lopez-Melgar B, Blanco-Rojo R, Fernandez-Ortiz A, Garcia-Pavia P, Sanz J, Mendiguren JM, Ibanez B, Bueno H, Lara-Pezzi E, Ordovas JM. Association of Sleep Duration and Quality with Subclinical Atherosclerosis. *Journal of The American College of Cardiology*. 2019; 73(2): 134-44. IF: 18.639 - Article.
- Nuche J, Montero Cabezas JM, Jimenez Lopez-Guarch C, Velazquez Martin M, Alonso Charterina S, Revilla Ostolaza Y, Arribas Ynsaurriaga F, Escribano Subias P. Frequency, Predictors, and Prognostic Impact of Pulmonary Artery Aneurysms in Patients With Pulmonary Arterial Hypertension. *American Journal of Cardiology*. 2019; 123(3): 474-81. IF: 2.843 - Article.
- Lip GYH, Collet JP, Haude M, Byrne R, Chung EH, Fauchier L, Halvorsen S, Lau D, Lopez-Cabanillas N, Lettino M, Marin F, Obel I, Rubboli A, Storey RF, Valgimigli M, Huber K, Potpara T, Lundqvist CB, Criqui H, Steffel J, Heidbuchel H, Stankovic G, Airaksinen J, Ten Berg JM, Capodanno D, James S, Bueno H, Morais J, Sibbing D, Rocca B, Hsieh MH, Akoum N, Lockwood DJ, Flores JRG, Jardine R; ESC Sci Document Grp. 2018 Joint European consensus document on the management of antithrombotic therapy in atrial fibrillation patients presenting with acute coronary syndrome and/or undergoing percutaneous cardiovascular interventions: a joint consensus document of the European Heart Rhythm Association (EHRA), European Society of Cardiology Working Group on Thrombosis, European Association of Percutaneous Cardiovascular Interventions (EAPCI), and European Association of Acute Cardiac Care (ACCA) endorsed by the Heart Rhythm Society (HRS), Asia-Pacific Heart Rhythm Society (APHRS), Latin America Heart Rhythm Society (LAHRS), and Cardiac Arrhythmia Society of Southern Africa (CASSA). *Europace*. 2019; 21(2): 192-3. IF: 6.100 - Article.
- Martin-Sanchez FJ, Llopis Garcia G, Llorens P, Jacob J, Herrero P, Gil V, Pastor AJ, Lopez-Picado A, Fuentes Ferrer M, Rossello X, Gil P, Diez Villanueva P, Calvo E, Mendez Bailon M, Cuesta-Triana F, Gonzalez Armengol JJ, Gonzalez Del Castillo J, Runkle I, Vidan MT, Comin-Colet J, Cruz Jentoft A, Bueno H, Miro O, Fernandez Perez C. 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. IF: 3.350 - Article.
- Miro O, Gil V, Rossello X, Martin-Sanchez FJ, Llorens P, Jacob J, Herrero P, Herrera Mateo S, Richard F, Escoda R, Fuentes M, Martin Mojarro E, Llauger L, Bueno H, Pocock S. Patients with acute heart failure discharged from the emergency department and classified as low risk by the MEESSI score (multiple risk estimate based on the Spanish emergency department scale): prevalence of adverse events and predictability. *Emergencias*. 2019; 31(1): 5-14. IF: 3.350 - Article.
- Lacunza-Ruiz FJ, Moya-Mitjans A, Martinez-Alday J, Baron-Esquivias G, Ruiz-Granell R, Garcia-Alberola A, Garcia-Bolao I, Arias MA, Ripoll-Vera T, Beiras X, Arribas F, Lopez-Gil M, Sotillo J, Ruiz-Granell R, Villacastin J, Ruiz-Mateas F, Martinez-Alday J, Arcocha MF, Telleria R, Curcio A, Fidalgo M, Tejada-Ruiz J, Alonso JMME, Martinez-Sande JL, Lechuga I, Garcia-Medin MD, Andrade F, Marti J, Orosa P, Lawers C, Sacristan JFG, Navarro A, Benetet J, Garcia J, Martin J, Atienza F, Perez L, Barba-Pichardo R, Gonzalez S, Toquero J, Cano L, Hernandez-Madrid A, Herreros B, Munoz JF, Murillo JML, Rodriguez A, Pastor A, Garcia-Guerrero JJ, Merino-Llorens JL, Moya A, Garcia-Alberola A, Ruiz FJL, Diaz E, Alzueta J, Arana E; Spanish Reveal Registry. Diagnostic yield of the implantable loop recorder in octogenarians. *European Geriatric Medicine*. 2019; 10(1): 129-33. IF: 1.233 - Article.
- Vives-Borras M, Martinez-Selles M, Ariza-Sole A, Vidan MT, Formiga F, Bueno H, Sanchis J, Alegre O, Duran-Cambra A, Lopez-Palop R, Abu-Assi E, Sionis A; LONGEVO-SCA Investigators. Clinical and prognostic implications of delirium in elderly patients with non-ST-segment elevation acute coronary syndromes. *Journal of Geriatric Cardiology*. 2019; 16(2): 121-8. IF: 1.763 - Article.
- Miro O, Rossello X, Gil V, Martin-Sanchez FJ, Llorens P, Herrero P, Jacob J, Lopez-Grima ML, Gil C, Imbernon FJL, Garrido JM, Perez-Dura MJ, Lopez-Diez MP, Richard F, Bueno H, Pocock SJ. The Usefulness of the MEESSI Score for Risk Stratification of Patients With Acute Heart Failure at the Emergency Department. *Revista Española de Cardiología*. 2019; 72(3): 198-207. IF: 5.126 - Article.
- Velazquez M, Albaran A, Hernandez I, Lopez-Gude MJ, Sarnago F, Martin R, Arribas F, Escribano P. Balloon Pulmonary Angioplasty for Inoperable Patients With Chronic Thromboembolic Pulmonary Hypertension. Observational Study in a Referral Unit. *Revista Española de Cardiología*. 2019; 72(3): 224-32. IF: 5.126 - Article.
- Zeymer U, Annemans L, Danchin N, Pocock S, Newsome S, Van de Werf F, Medina J, Bueno H. Impact of known or new-onset atrial fibrillation on 2-year cardiovascular event rate in patients with acute coronary syndromes: results from the prospective EPICOR Registry. *European Heart Journal-Acute Cardiovascular Care*. 2019; 8(2): 121-9. IF: 3.734 - Article.
- Sanchis J, Soler M, Nunez J, Ruiz V, Bonanad C, Formiga F, Valero E, Martinez-Selles M, Marin F, Ruescas A, Garcia-Blas S, Minana G, Abu-Assi E, Bueno H, Ariza-Sole A. Comorbidity assessment for mortality risk stratification in elderly patients with acute coronary syndrome. *European Journal of Internal Medicine*. 2019; 62: 48-53. IF: 3.660 - Article.
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- Fernandez-Friera L, Fuster V, Lopez-Melgar B, Oliva B, Sanchez-Gonzalez J, Macias A, Perez-Asenjo B, Zamudio D, Alonso-Farto JC, Espana S, Mendiguren J, Bueno H, Garcia-Ruiz JM, Ibanez B, Fernandez-Ortiz A, Sanz J. Vascular Inflammation in Subclinical Atherosclerosis Detected by Hybrid PET/MRI. *Journal of the American College of Cardiology*. 2019; 73(12): 1371-82. IF: 18.639 - Article.
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- Rossello X, Miro O, Llorens P, Jacob J, Herrero-Puente P, Gil V, Rizzi MA, Perez-Dura MJ, Espiga FR, Romero R, Sevillano JA, Vidan MT, Bueno H, Pocock SJ, Martin-Sanchez FJ; ICA-SEMES Research Group. 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 Departments Registry. *Annals of Emergency Medicine*. 2019; 73(6): 589-98. IF: 5.209 - Article.
- Sambola A, Bueno H, Gordon B, Mutuberria M, Barrabes JA, Del Blanco BG, Gonzalez-Fernandez V, Casamira N, Garcia-Dorado D. Worse 12-month prognosis in women with non-valvular atrial fibrillation undergoing percutaneous coronary intervention. *Thrombosis Research*. 2019; 178: 20-5. IF: 3.266 - Article.
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- Ortiz-Bautista C, Moran-Fernandez L, Diaz-Garcia M, Delgado-Nicolas MA, Ponz-De Antonio I, Rodriguez-Chaverri A, Garcia-Cosio MD, de Juan-Baguda J, Lora-Pablos D, Sanchez-Sanchez V, Escribano-Subias P, Bueno H, Arribas-Ynsaurriaga F, Delgado-Jimenez JF. Evaluation of a nurse-led intervention program in heart failure: A randomized trial. *Medicina Clínica*. 2019; 152(11): 431-7. IF: 1.277 - Article.
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End Master Investigations Directed on the Group

- **Student:** David Sanz Martín de la Mota
Title: Epidemiología del Tromboembolismo pulmonar en España. Análisis temporal basado en sistemas nacionales de información sanitaria
Director: Héctor José Bueno Zamora
Master: Máster de Salud Pública (ISCIII)
- **Student:** Nicolás Rosillo Ramírez
Title: Epidemiología de la Estenosis aórtica en España Análisis temporal basado en sistemas nacionales de información sanitaria
Director: Héctor José Bueno Zamora
Master: Máster de Salud Pública (ISCIII)
- **Student:** Juan José Pautasso
Title: Design and development of a novel pipeline for resting-state functional magnetic resonance imaging processing
Directors: Héctor José Bueno Zamora, Luis Marcos Vidal
Master: Máster Universitario de Ingeniería Biomédica (UPM)
- **Student:** Samara Andrea Alegría Muñoz
Title: Design and implementation of a Data Processing Pipeline for Diffusion Magnetic Resonance (dMR) to obtain microstructure and structural connectivity
Director: Héctor José Bueno Zamora
Master: Máster Universitario de Ingeniería Biomédica (UPM)
- **Student:** Alejandro Civit Indeguy
Title: Design and development of an application for visual analytics based on data from clinical registries in cardiology
Directors: Héctor José Bueno Zamora, Gema García Sáez
Master: Máster Universitario de Ingeniería Biomédica (UPM)

End Graduated Investigations Directed on the Group

- **Student:** Beatriz Paula Vallecillo Martín
Title: Diseño y desarrollo de Herramienta de generación de informes para pacientes con problemas cardiovasculares basada en datos de historia clínica electrónica
Directors: Héctor José Bueno Zamora, Gema García Sáez
Degree: Grado en Tecnologías y Servicios de Telecomunicación (UPM)
- **Student:** Rodrigo Escudero González
Title: Diseño y desarrollo de una aplicación multiplataforma para facilitar la gestión médica en pacientes con afecciones cardiovasculares mediante instrucciones de voz
Directors: Héctor José Bueno Zamora, Gema García Sáez
Degree: Grado en Tecnologías y Servicios de Telecomunicación (UPM)
- **Student:** Nerea Naranjo Santamaría
Title: Diseño y desarrollo de una herramienta de visualización analítica de resultados clínicos combinados en un entorno web
Directors: Héctor José Bueno Zamora, Gema García Sáez
Degree: Grado en Tecnologías y Servicios de Telecomunicación (UPM)
- **Student:** José Antonio Galiano Gordillo
Title: Evaluación de la concordancia en la medida del complejo QRS y determinación de un estándar para su medida manual
Director: Rafael Salguero Bodes
Degree: Medicina (UCM)
- **Student:** Juan Guiarao Mora
Title: Percepción de la eficacia de la terapia en pacientes con desfibrilador automático
Director: Rafael Salguero Bodes
Degree: Medicina (UCM)

Prizes and Awards

- Concurso CARDIOIMPULSO: Finalista en la categoría "La organización de la rehabilitación cardíaca en el área hospitalaria". AstraZeneca y Sociedad Española de Cardiología.
Premio a la Mejor Comunicación Oral presentada a reunión científica en el año 2018 en el 9º Certamen Científico Ana Mª Martínez.
Title: Análisis Modal de Fallos y Efectos aplicado a Prescripción y Administración de fármacos en Cardiología.
Autores: Guillermo Moreno Muñoz, Coral Ojeda García, Blanca Gutiérrez Asensio, Sara Jurado Palomo, Ana Sada Santiago, María Rojas Ledesma, Jesús Díaz Antón, María Carmen Torrijos García-Cervigón.
- Premio Catedra Novartis IESE - en Categoría III: Iniciativas de innovación asistencial y excelencia operativa en el ámbito de la gestión, que mejoren los resultados en salud y aporten eficiencia al sistema.
- Highly Cited Researcher in Clinical Medicine 2019. Web of Science - Héctor José Bueno Zamora.
- Programa healthstart madri+d. Proyecto seleccionado entre los 5 mejores proyectos de innovación en salud de la Comunidad de Madrid 2019. Software para la Mejora de la Gestión Hospitalaria Basado en Resultados Combinados.

Communication

- Number of news items published in the written press: 1

RESEARCH IN CARDIOVASCULAR IMAGE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Solís Martín, Jorge (R4)

Barrio Martínez, Patricia - Predoctoral Researcher (R1)
 Carbonell San Román, Sonsoles Alejandra - Predoctoral Researcher (R1)
 Cortes Beringola, Alejandro - Predoctoral Researcher (R1)
 Fernando Gasso, Lucía - Postdoctoral Researcher (R2)

Floz Camacho, Ángela - Postdoctoral Researcher (R2)
 García Robles, José Antonio - Clinical Researcher
 Jiménez López-Guarch, M^a del Carmen - Doctoral Researcher (R3)
 Ortega Restrepo, Juan Felipe - Clinical Researcher

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	4	15.918
TOTAL	4	15.918

- Nuche J, Montero Cabezas JM, Jimenez Lopez-Guarch C, Velazquez Martin M, Alonso Charterina S, Revilla Ostolaza Y, Arribas Ynsaurriaga F, Escribano Subias P. Frequency, Predictors, and Prognostic Impact of Pulmonary Artery Aneurysms in Patients With Pulmonary Arterial Hypertension. *American Journal of Cardiology*. 2019; 123(3): 474-81. IF: 2.843 - Article.

- Hinojar R, Zamorano JL, Fernandez-Mendez MA, Esteban A, Plaza-Martin M, Gonzalez-Gomez A, Carbonell A, Rincon LM, Nacher JJJ, Fernandez-Golfin C. Prognostic value of left atrial function by cardiovascular magnetic resonance feature tracking in hypertrophic cardiomyopathy. *International Journal of Cardiovascular Imaging*. 2019; 35(6): 1055-65. IF: 1.860 - Article.

- Ruiz-Lope LM, Ruiz-Hurtado G, Barderas MG, de la Cruz JJ, Lucia A, de la Sierra A, Gorostidi M, Vinyoles E, Segura J, Solis J, Arribas F, Garcia-Puig J, Tamargo J, O'Brien E, Volpe M, Whelton PK, Williams B, Banegas JR. Frequency and Prognosis of Treated Hypertensive Patients According to Prior and New Blood Pressure Goals. *Hypertension*. 2019; 74(1): 130-6. IF: 7.017 - Article.

- Navarro-García JA, Delgado C, Fernández-Velasco M, Val-Blasco A, Rodríguez-Sánchez E, Aceves-Ripoll J, Gómez-Hurtado N, Bada-Bosch T, Mérida-Herrero E, Hernández E, Praga M, Salguero R, Solís J, Arribas F, Delgado JF, Bueno H, Kuro-O M, Ruilope LM, Ruiz-Hurtado G. Fibroblast growth factor-23 promotes rhythm alterations and contractile dysfunction in adult ventricular cardiomyocytes. *Nephrology Dialysis Transplantation*. 2019; 34(11): 1864-75. IF: 4.198 - Article.
- Delgado JF, Ferrero Gregori A, Fernández LM, Claret RB, Sepúlveda AG, Fernández-Avilés F, González-Juanatey JR, García RV, Otero MR, Segovia Cubero J, Pascual Figal D, Crespo-Leiro MG, Alvarez-García J, Cinca J, Ynsaurriaga FA. Patient-Associated Predictors of 15- and 30-Day Readmission after Hospitalization for Acute Heart Failure. *Current Heart Failure Reports*. 2019; 16(6): 304-14. IF: N/A - Article.

Theses Defended or Directed on the Group

Candidate: Lucía Fernández Gassó

Title: Análisis poblacional de las hospitalizaciones por insuficiencia cardíaca en la Región de Murcia 2003-2013: tendencias, reingresos y pronóstico.

Director/s: Domingo Pascual Figal, Federico Soria Arcos

Date Defended: 29/11/2019

University: Universidad Complutense de Madrid

International Mention: Yes

HEART FAILURE – PULMONARY HYPERTENSION

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Delgado Jiménez, Juan Francisco (R4)

Blazquez Bermejo, Zorba - Predoctoral Researcher (R1)
 Caravaca Pérez, Pedro Joaquín - Predoctoral Researcher (R1)
 de Juan Baguda, Javier Salvador - Clinical Researcher
 Escribano Subias, M^a del Pilar - Doctoral Researcher (R4)
 Ferrón Moyano, Mercedes - Support Nurse
 García Gutiérrez, Raquel - Predoctoral Researcher (R1)
 García-Aranda Domínguez, Beatriz - Clinical Researcher

García-Cosío Carmena, M^a Dolores - Postdoctoral Researcher (R2)
 Morán Fernández, Laura Lucía - Clinical Researcher
 Nuche Berenguer, Jorge - Predoctoral Researcher (R1)
 Ochoa Parra, Nuria - Manager
 Sánchez Sánchez, Violeta - Clinical Researcher
 Velázquez Martín, M^a Teresa - Clinical Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	Fundación Casa del Corazón	1
Competitive	CSIC	1
Non Competitive	Various	1
TOTAL		6

Title: Bases genético-moleculares de la hipertensión arterial pulmonar y su expresión fenotípica en la población española.

Principal Investigator: M^a del Pilar Escribano Subiás

Project No.: PI15/02012

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2019

Title: Aportación de la hemodinámica de ejercicio en el diagnóstico precoz de la enfermedad tromboembólica crónica y en su estratificación pronóstica.

Principal Investigator: M^a del Pilar Escribano Subiás

Project No.: 2019/0121

Funding Body: Fundación Casa del Corazón

Start date: 21/10/2019

End date: 20/10/2020

Title: Locking cells against ebola virus.

Principal Investigator: Juan Francisco Delgado Jiménez

Project No.: HR18-00469

Funding Body: Consejo Superior de Investigaciones Científicas (CSIC)

Start date: 15/09/2019

End date: 14/09/2022

Title: Farmacogenómica en la Hipertensión Arterial Pulmonar: Estudio de la Correlación Genotípica-Fenotípica.

Principal Investigator: M^a del Pilar Escribano Subiás

Funding Body: Ferrer Internacional, S.A.

Start date: 20/12/2013

End date: 19/12/2016, extended to 31/12/2021

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	24	121.785
Editorials	1	3.847
TOTAL	25	125.632
Letters	5	27.067
TOTAL	30	152.699

- Vicent L, Ayesta A, Esteban-Fernandez A, Gomez-Bueno M, De-Juan J, Diez-Villanueva P, Iniesta AM, Rojas-Gonzalez A, Bover-Freire R, Iglesias D, Garcia-Aguado M, Perea-Egido JA, Martinez-Selles M. Sex Influence on the Efficacy and Safety of Sacubitril/Valsartan. *Cardiology*. 2019; 142(2): 73-8. IF: 1.561 - Article.
- Del Pozo R, Blanco I, Hernandez-Gonzalez I, Lopez-Meseguer M, Lopez-Reyes R, Lazaro-Salvador M, Elias-Hernandez T, Alvarez-Vega P, Perez-Penate GM, Martinez-Menaca A, Bedate P, Escribano-Subias P; REHAP Investigators. Real-life experience of inhaled iloprost for patients with pulmonary arterial hypertension: Insights from the Spanish REHAP registry. *International Journal of Cardiology*. 2019; 275: 158-64. IF: 3.471 - Article.
- Nuche J, Montero Cabezas JM, Jimenez Lopez-Guarch C, Velazquez Martin M, Alonso Charterina S, Revilla Ostolaza Y, Arribas Ynsaurriaga F, Escribano Subias P. Frequency, Predictors, and Prognostic Impact of Pulmonary Artery Aneurysms in Patients With Pulmonary Arterial Hypertension. *American Journal of Cardiology*. 2019; 123(3): 474-81. IF: 2.843 - Article.
- Vicent L, Esteban-Fernandez A, Gomez-Bueno M, De-Juan J, Diez-Villanueva P, Iniesta AM, Ayesta A, Gonzalez-Saldivar H, Rojas-Gonzalez A, Bover-Freire R, Iglesias D, Garcia-Aguado M, Perea-Egido JA, Martinez-Selles M. Sacubitril/Valsartan in Daily Clinical Practice: Data From a Prospective Registry. *Journal of Cardiovascular Pharmacology*. 2019; 73(2): 118-24. IF: 2.371 - Article.
- Jurado-Roman A, Agudo-Quilez P, Rubio-Alonso B, Molina J, Diaz B, Garcia-Tejada J, Martin R, Tello R. Superiority of wall motion score index over left ventricle ejection fraction in predicting cardiovascular events after an acute myocardial infarction. *European Heart Journal-Acute Cardiovascular Care*. 2019; 8(1): 78-85. IF: 3.734 - Article.
- Polzl G, Allipour Birgani S, Comin-Colet J, Delgado JF, Fedele F, Garcia-Gonzales MJ, Gustafsson F, Masip J, Papp Z, Stork S, Ulmer H, Vrtovec B, Wikstrom G, Altenberger J. Repetitive levosimendan infusions for patients with advanced chronic heart failure in the vulnerable post-discharge period. *Esc Heart Failure*. 2019; 6(1): 174-81. IF: 3.407 - Article.
- Blazquez-Gamero D, Galindo Izquierdo A, Del Rosal T, Baquero-Artigao F, Izquierdo Méndez N, Soriano-Ramos M, Rojo Conejo P, Gonzalez-Tome MI, Garcia-Burgillo A, Perez NP, Sanchez V, Ramos-Amador JT, De la

Calle M. Prevention and treatment of fetal cytomegalovirus infection with cytomegalovirus hyperimmune globulin: a multicenter study in Madrid. *Journal of Maternal-Fetal & Neonatal Medicine*. 2019; 32(4): 617-25. IF: 1.569 - Article.

• Garcia-Lunar I, Pereda D, Santiago E, Solanes N, Nuche J, Ascaso M, Bobi J, Sierra F, Dantas AP, Galan C, San Antonio R, Sanchez-Quintana D, Sanchez-Gonzalez J, Barbera JA, Rigol M, Fuster V, Ibanez B, Sabate M, Garcia-Alvarez A. Effect of pulmonary artery denervation in postcapillary pulmonary hypertension: results of a randomized controlled translational study. *Basic Research in Cardiology*. 2019; 114(2): 5. IF: 6.470 - Article.

• Velazquez M, Albaran A, Hernandez I, Lopez-Gude MJ, Sarnago F, Martin R, Arribas F, Escribano P. Balloon Pulmonary Angioplasty for Inoperable Patients With Chronic Thromboembolic Pulmonary Hypertension. *Observational Study in a Referral Unit*. *Revista Española de Cardiología*. 2019; 72(3): 224-32. IF: 5.126 - Article.

• Galian-Gay L, Carro Hevia A, Teixido-Tura G, Rodriguez Palomares J, Gutierrez-Moreno L, Maldonado G, Gonzalez-Alujas MT, Sao-Aviles A, Gallego P, Calvo-Iglesias F, Bermejo J, Robledo-Carmona J, Sanchez V, Saura D, Sevilla T, Burillo-Sanz S, Guala A, Garcia-Dorado D, Evangelista A; BICUSPID Investigators. Familial clustering of bicuspid aortic valve and its relationship with aortic dilation in first-degree relatives. *Heart*. 2019; 105(8): 603-8. IF: 5.082 - Article.

• Escribano-Subias P, Bendjenana H, Curtis PS, Lang I, Noordgraaf AV. Ambrisentan for treatment of inoperable chronic thromboembolic pulmonary hypertension (CTEPH). *Pulmonary Circulation*. 2019; 9(2): 2045894019846433. IF: 2.075 - Article.

• Manieri E, Herrera-Melle L, Mora A, Tomas-Loba A, Leiva-Vega L, Fernandez DL, Rodriguez L, Moran L, Hernandez-Cosido L, Torres JL, Seoane LM, Cubero FJ, Marcos M, Sabio G. Adiponectin accounts for gender differences in hepatocellular carcinoma incidence. *Journal of Experimental Medicine*. 2019; 216(5): 1108-19. IF: 10.892 - Article.

• Ortiz-Bautista C, Moran-Fernandez L, Diaz-Garcia M, Delgado-Nicolas MA, Ponz-De Antonio I, Rodriguez-Chaverri A, Garcia-Cosio MD, de Juan-Baguda J, Lora-Pablos D, Sanchez-Sanchez V, Escribano-Subias P, Bueno H, Arribas-Ynsaurriaga F, Delgado-Jimenez JF. Evaluation of a nurse-led intervention program in heart failure: A randomized trial. *Medicina Clínica*. 2019; 152(11): 431-7. IF: 1.277 - Article.

• Guala A, Teixido-Tura G, Rodriguez-Palomares J, Ruiz-Munoz A, Dux-Santoy L, Villalva N, Granato C, Galian L, Gutierrez L, Gonzalez-Alujas T, Sanchez V, Forteza A, Garcia-Dorado D, Evangelista A. Proximal aorta longitudinal strain predicts aortic root dilation rate and aortic events in Marfan syndrome. *European Heart Journal*. 2019; 40(25): 2047-55. IF: 23.239 - Article.

• Komajda M, Schope J, Wagenpfeil S, Tavazzi L, Bohm M, Ponikowski P, Anker SD, Filippatos GS, Cowie MR; QUALIFY Investigators. Physicians' guideline adherence is associated with long-term heart failure mortality in outpatients with heart failure with reduced ejection fraction: the QUALIFY international

registry. *European Journal of Heart Failure*. 2019; 21(7): 921-9. IF: 13.965 - Article.

• Gonzalez-Vilchez F, Delgado JF, Palomo J, Mirabet S, Diaz-Molina B, Almenar L, Arizón JM, Rangel-Sousa D, Perez-Villa F, Garrido IP, de la Fuente L, Gomez-Bueno M, Sanz ML, Crespo-Leiro MG. Conversion From Immediate-Release Tacrolimus to Prolonged-Release Tacrolimus in Stable Heart Transplant Patients: A Retrospective Study. *Transplantation Proceedings*. 2019; 51(6): 1994-2001. IF: 0.959 - Article.

• Torres F, Farber H, Ristic A, McLaughlin V, Adams J, Zhang J, Klassen P, Shanahan W, Grundy J, Hoffmann I, Cabell C, Escribano Subias P, Sood N, Keogh A, D'Souza G, Rubin L. Efficacy and safety of ralinepag, a novel oral IP agonist, in PAH patients on mono or dual background therapy: results from a phase 2 randomised, parallel group, placebo-controlled trial. *European Respiratory Journal*. 2019; 54(4): 1901030. IF: 11.807 - Article.

• Navarro-García JA, Delgado C, Fernández-Velasco M, Val-Blasco A, Rodríguez-Sánchez E, Aceves-Ripoll J, Gómez-Hurtado N, Bada-Bosch T, Mérida-Herrero E, Hernández E, Praga M, Salguero R, Solís J, Arribas F, Delgado JF, Bueno H, Kuro-O M, Ruilope LM, Ruiz-Hurtado G. Fibroblast growth factor-23 promotes rhythm alterations and contractile dysfunction in adult ventricular cardiomyocytes. *Nephrology Dialysis Transplantation*. 2019; 34(11): 1864-75. IF: 4.198 - Article.

• Barge-Caballero G, Castel-Lavilla MA, Almenar-Bonet L, Garrido-Bravo IP, Delgado JF, Rangel-Sousa D, Gonzalez-Costello J, Segovia-Cubero J, Farrero-Torres M, Lambert-Rodriguez JL, Crespo-Leiro MG, Hervas-Sotomayor D, Portoles-Ocampo A, Martinez-Selles M, De La Fuente-Galan L, Rabago-Juan-Aracil G, Gonzalez-Vilchez F, Mirabet-Perez S, Muñiz J, Barge-Caballero E. Venoarterial extracorporeal membrane oxygenation with or without simultaneous intra-aortic balloon pump support as a direct bridge to heart transplantation: results from a nationwide Spanish registry. *Interactive Cardiovascular and Thoracic Surgery*. 2019; 29(5): 670-7. IF: 1.931 - Article.

• Vicent L, Cinca J, Vazquez-Garcia R, Gonzalez-Juanatey JR, Rivera M, Segovia J, Pascual-Figal D, Bover R, Worner F, Delgado-Jimenez J, Fernandez-Aviles F, Martinez-Selles M. Discharge treatment with ACE inhibitor/ARB after a heart failure hospitalization is associated with a better prognosis irrespectively of left ventricular ejection fraction. *Internal Medicine Journal*. 2019; 49(12): 1505-13. IF: 1.767 - Article.

• Bueno H, de Graeff P, Richard-Lordereau I, Emmerich J, Fox KAA, Friedman CP, Gaudin C, El-Gazayerly A, Goldman S, Hemmrich M, Henderson RA, Himmelmann A, Irs A, Jackson N, James SK, Katus HA, Laslop A, Laws I, Mehran R, Ong S, Prasad K, Roffi M, Rosano GMC, Rose M, Sinnavee PR, Stough WG, Thygesen K, Van de Werf F, Varin C, Verheugt FWA, Alonso García MA. Report of the European Society of Cardiology Cardiovascular Round Table regulatory workshop update of the evaluation of new agents for the treatment of acute coronary syndrome: Executive summary. *European Heart Journal-Acute Cardiovascular Care*. 2019; 8(8): 745-54. IF: 3.734 - Article.

• Lopez-Azor JC, Vicent L, Valero-Masa MJ, Esteban-Fernandez A, Gomez-

Bueno M, Perez A, Diez-Villanueva P, De-Juan J, Manuel-Iniesta A, Bover R, del Prado S, Martinez-Selles M. Safety of sacubitril/valsartan initiated during hospitalization: data from a non-selected cohort. *Esc Heart Failure*. 2019; 6(6): 1161-6. IF: 3.407 - Article.

• Atamaïuk AN, Litewka DF, Baratta SJ, Seropian IM, Perez Prados G, Payaslian MO, Ortiz Fragola JP, Escribano Subias P. Vitamin D deficiency among patients with pulmonary hypertension. *BMC Pulmonary Medicine*. 2019; 19(1): 258. IF: 2.184 - Article.

• Serrano M, Moran L, Martinez-Flores JA, Mancebo E, Pleguezuelo D, Cabrera-Marante O, Delgado J, Serrano A. Immune Complexes of Beta-2-Glycoprotein I and IgA Antiphospholipid Antibodies Identify Patients With Elevated Risk of Thrombosis and Early Mortality After Heart Transplantation. *Frontiers in Immunology*. 2019; 10: 2891. IF: 4.716 - Article.

• Couto-Mallon D, Gonzalez-Vilchez F, Almenar-Bonet L, Diaz-Molina B, Segovia-Cubero J, Gonzalez-Costello J, Delgado-Jimenez J, Castel-Lavilla MA, Crespo-Leiro MG, Rangel-Sousa D, Martinez-Selles M, Rabago-Juan-Aracil G, De-la-Fuente-Galan L, Blasco-Peiro T, Hervas-Sotomayor D, Garrido-Bravo IP, Mirabet-Perez S, Muniz J, Barge-Caballero E. Prognostic Value of Serum Lactate Levels in Patients Undergoing Urgent Heart Transplant: A Subanalysis of the ASIS-TC Spanish Multicenter Study. *Revista Española de Cardiología (english Ed.)*. 2019; 72(3): 208-14. IF: N/A - Article.

• Delgado CPO, Perez AA, Subias PE. Pulmonary arterial hypertension: progress, prognosis and impact. *Insuficiencia Cardiaca*. 2019; 14: 1-7. IF: N/A - Article.

• Raurell-Torreda M, Arias-Rivera S, Martí JD, Frade-Mera MJ, Zaragoza-García I, Gallart E, Velasco-Sanz TR, San Jose-Arribas A, Blazquez-Martinez E; Grupo MOViPre. Degree of implementation of preventive strategies for post-ICU syndrome: Multi-centre, observational study in Spain. *Enfermería Intensiva*. 2019; 30(2): 59-71. IF: N/A - Article.

• López-Gil M, Fontenla A, Delgado JF, Rodríguez-Muñoz D. Subcutaneous implantable cardioverter defibrillators in patients with left ventricular assist devices: case report and comprehensive review. *European Heart Journal Case Reports*. 2019; 3(2). IF: N/A - Article.

• González-Vilchez F, Almenar-Bonet L, Crespo-Leiro MG, Segovia-Cubero J, González-Costello J, Arizón Del Prado JM, Sousa-Casanovas I, Sobrino-Márquez JM, Delgado-Jiménez J, Pérez-Villa F; 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 Cardiología (english Ed.)*. 2019; 72(11): 954-62. IF: N/A - Article.

• Delgado JF, Ferrero Gregori A, Fernández LM, Claret RB, Sepúlveda AG, Fernández-Avilés F, González-Juanatey JR, García RV, Otero MR, Segovia Cubero J, Pascual Figal D, Crespo-Leiro MG, Alvarez-García J, Cinca J, Ynsaurriaga FA. Patient-Associated Predictors of 15- and 30-Day Readmission after Hospitalization for Acute Heart Failure. *Current Heart Failure Reports*. 2019; 16(6): 304-14. IF: N/A - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Nuche J, Montero Cabezas JM, Alonso Charterina S, Escribano Subias P. Management of incidentally diagnosed pulmonary artery dissection in patients with pulmonary arterial hypertension. European Journal of Cardio-Thoracic Surgery. 2019; 56(1): 210-2. IF: 3.847 - Editorial Material.
- Lazaro Salvador M, Akerstrom F, Escribano Subias P, Berenguel Senen A, Martinez Mateo V, Rodriguez Padial L. Living With Severe Pulmonary Arterial Hypertension Without an Infusion Pump? Selexipag has a Role to Play. Archivos de Bronconeumología. 2019; 55(2): 102-3. IF: 4.214 - Letter.
- Roldan-Sevilla A, Palomino-Doza J, de Juan J, Sanchez V, Dominguez-Gonzalez C, Salguero-Bodes R, Arribas-Ynsaurriaga F. Missense Mutations in the FLNC Gene Causing Familial Restrictive Cardiomyopathy. Circulation-Genomic and Precision Medicine. 2019; 12(3): e002388. IF: 0.00 - Letter.
- Santos-Lozano A, Fiua-Luces C, Fernandez-Moreno D, Llaverio F, Arenas J, Lopez JA, Vazquez J, Escribano-Subias P, Zugaza JL, Lucia A. Exercise Benefits in Pulmonary Hypertension. Journal of The American College of Cardiology. 2019. 73(22): 2906-7. IF: 18.639 - Letter.
- Lazaro Salvador M, Escribano Subias P, Rodriguez Padial L. Right Heart Catheterization Further Confirms Successful Transition from Parenteral Prostacyclin to Oral Selexipag. Archivos de Bronconeumología. 2019; 55(7): 393-4. IF: 4.214 - Letter.
- Roldan-Sevilla A, Salguero-Bodes R, Valverde-Gomez M, Delgado J, Arribas-Ynsaurriaga F, Palomino-Doza J. Response by Roldan-Sevilla to Letter Regarding Article, "Missense Mutations in the FLNC Gene Causing Familial Restrictive Cardiomyopathy". Circulation-Genomic and Precision Medicine. 2019; 12(7): e002622. IF: 0.00 - Letter.
- Ortiz-Bautista C, Lopez-Gude MJ, Grande Garcia J, Perez-Vela JL, Perez-Gonzalez V, Escribano-Subias P. Extracorporeal Membrane Oxygenation Support During Pregnancy in Pulmonary Veno-occlusive Disease. Revista Española de Cardiología (english Ed.). 2019. 72(2): 174-5. IF: N/A - Letter.

Theses Defended or Directed on the Group

- Candidate:** Carlos Andrés Quezada Loaiza
Title: Manejo de la hipertensión arterial pulmonar: estratificación pronóstica y opciones terapéuticas
Director/s: Mª del Pilar Escribano Subias
Date Defended: 20/05/2019
University: Universidad Complutense de Madrid
International Mention: No

End Graduated Investigations Directed on the Group

- Student:** Lucia Muñoz Prejigueiro
Title: Programa de Resincronización Cardiaca del Hospital 12 de Octubre: Evaluación de los respondedores clínicos y ecocardiográficos a la terapia e identificación de factores asociados a falta de respuesta
Directors: Juan Delgado Jiménez, María López Gil y Adolfo Fontenla Cerezuela
Degree: Medicina con nivel de Master (UCM)
- Student:** María Puente Alonso
Title: Diseño y desarrollo de un algoritmo automático de cálculo de la presión capilar pulmonar (PCP) y una herramienta de visualización para interacción en la clínica/ en un entorno clínico
Directors: Gema García Sáez y MªTeresa Velázquez Martín
Degree: Ingeniería Biomédica (UPM)

Prizes and Awards

- Premio: Acreditación SEC Excelente y SEC Primaria. Sociedad Española de Cardiología
- Premiado: Unidad de Insuficiencia Cardiaca.
- Premio: Cátedra Novartis IESE - en Categoría III: Iniciativas de innovación asistencial y excelencia operativa en el ámbito de la gestión, que mejoren los resultados en salud y aporten eficiencia al sistema
- Premiado: Rafael Salguero (grupo MT) y Grupo Insuficiencia Cardiaca - Rehabilitación Cardiaca.

Communication

- Number of press releases issued: 2
- Number of news published in the written press: 1
- News published in other audiovisual media (radio, TV): 2

TRANSLATIONAL RESEARCH IN HYPERTENSION AND CARDIORENAL DISEASE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADERS: Ruilope Urioste, Luis Miguel (R4), Ruiz Hurtado, Gema (R4)
 Aceves Ripoll, Jennifer - Support Technician
 Da Cruz Junho, Carolina Victoria - Collaborator
 Fernández López, Mª Luisa - Support Nurse
 González Lafuente, Laura - Postdoctoral Researcher (R1)
 Guerrero Llamas, Lucía - Support Nurse

López Sánchez-Oro, Mª Luisa - Predoctoral Researcher (R1)
 Navarro García, José Alberto - Predoctoral Researcher (R1)
 Poveda Núñez, Jonay - Postdoctoral Researcher (R2)
 Rodríguez Sánchez, Elena - Predoctoral Researcher (R1)
 Segura de la Morena, José Julián - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	Fundación Casa del Corazón	1
Competitive	Fundación Renal Íñigo Álvarez de Toledo	1
TOTAL		6

- Title:** Asociación entre FGF-23 y las arritmias ventriculares en la enfermedad renal terminal: aproximación translacional y nuevas implicaciones terapéuticas.
Principal Investigator: Gema Ruiz Hurtado
Project No.: PI17/01093
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Papel de la presión arterial nocturna en la estratificación del riesgo cardiovascular: nuevas estrategias clínicas y experimentales.
Principal Investigator: Luis Miguel Ruilope Urioste
Project No.: PI17/01193
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Papel del factor de crecimiento de fibroblasto (FGF)-23 en las arritmias ventriculares: nuevo mediador en el acoplamiento excitación-contracción cardiaca.
Principal Investigator: Gema Ruiz Hurtado
Funding Body: Fundación Casa del Corazón
Start date: 07/07/2017
End date: 31/12/2021
- Title:** Papel del FGF-23 en la función cardíaca de los pacientes en diálisis y su relación con la incidencia de arritmias.
Principal Investigator: Gema Ruiz Hurtado
Funding Body: Fundación Renal Íñigo Álvarez de Toledo

Start date: 10/11/2017
End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	131.788
Reviews	2	7.172
Editorials	4	52.393
TOTAL	25	191.353
Letters	1	18.639
TOTAL	26	209.992

- Williams B, Mancia G, Spiering W, Rosei EA, Azizi M, Burnier M, Clement DL, Coca A, de Simone G, Dominiczak A, Kahan T, Mahfoud F, Redon J, Ruilope L, Zanchetti A, Kerins M, Kjeldsen SE, Kreutz R, Laurent S, Lip GYH, McManus R, Narkiewicz K, Ruschitzka F, Schmieder RE, Shlyakhto E, Tsoufis C, Aboyans V, Desormais I. [2018 ESC/ESH Guidelines for the management of arterial hypertension]. *Kardiologia Polska*. 2019; 77(2): 71-159. IF: 1.674 - Article.
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V, Chumakova G, Tarasov N, Meleshkevich T, Zateyshchikov D, Lantseva O, Belenki D, Obrezan A, Rossolko L, Fillipova E, Yakhontova P, Khokhlov A, Tan R, Sum C, Chang H, Distiller L, Pretorius M, Nortje H, Mitha E, Burgess L, Blignaut S, Venter T, Moodley R, Lombaard J, Govind U, Naidoo V, Mookadam M, Engelbrecht J, Omar M, Jurgens J, Podgorski G, Vawda H, Naidoo D, Emanuel S, Roodt A, Amod A, Van Zyl L, Segura J, Brito M, Fernandez-Cruz A, Artola S, Iglesias R, Toural E, Garcia-Ortiz L, Saban J, Mesa J, Vidal J, Linares J, del Canizo F, Rigla M, Suarez C, Llorente I, Moreno B, Antoli A, Peralta FG, Iglesias M, Pereg V, de Teresa L, Camafort M, Trescoli C, Satarasinghe R, Somasundaram N, Siyambalapitiya S, Antonypillai C, Bulughapitiya D, Medagama U, Huang C, Lu Y, Hwang J, Chiang C, Wen M, Chen J, Lai W, Chang K, Wang J, Yeh H, Kriangsak P, Deerochanawong C, Suwanwalaikorn S, Mangklabruks A, Kaewsuwanna P, Piayotai D, labluchanskyi M, Samoylov O, Godlevska O, Kovalyova O, Voloshyna O, Tseluyko V, Zotov S, Vykhovanyuk I, Dulgeroff A, Mayfield R, Zaniewski-Singh M, Ullal J, Aloj J, De La Rosa R, Mosely J, Wittmer B, Aronoff S, Rosenfeld J, Seidner M, Warren M, Fishman N, Weiss R, Arif A, Sandberg M, Lewis D, Ball E, Graf R, Breton C, Tamayo R, Richards R, Cefalu W, Uwaifo G, Zayour D, Hoffman J, Fitz-Patrick D, Khan B, Blaze K, Bressler P, Halpern S, Chappell D, Bergenstal R, Cuddihy R, Mattin G, Freedman Z, Gonzalez-Campoy J, Lerman S, Rendell M, Sitar S, Reeves M, Howard T, Soufer J, Miranda-Palma B, Laliotis A, Shomali M, Teltser M, Hurley D, Morawski E, Cherlin R, Houchin V, Welch M, Goytia-Leos D, Syed M, Kowaloff E, Weinrauch L, Peniston J, Brockmyre A, First B, Feld L, Huffman D, Nassim O, Gottschlich G, Patel A, Knopke C, Hernandez M, Diaz J, Giugliano G, Nicacio J, Eagerton D, Huntley R, Reed J, Magee M, Hippert R, Sofley C, Alzohaili O, Levins P, Anspach R, Shah S, Brusco O, Naidu J, Lindenbaum J, Jacks R, Hammond G, Arena C, Saxman K, Mach M, Kerstein H, Kereiakes D, Wahnen J, Wehmeier K, Chaykin L, Rothman J, Fogelfeld L, Stroger JH, Bittar N, Rosenstock J, Kayne D, Navarro J, Colfer H, Mokshagundam S, Shandilya L, Connery L, Wysham C, Dela Llana A, Jardula M, MacAdams M, Flippo G, Heurich E, Curtis C, Sanders D, Rawls R, Velazquez F, Osea E, Mahood K, Feldman G, Eder F, Riley E, Fowler W, Jain M, Shepard M, Schear M, Barker B, Strout C, Obiekwe O, Shanik M, Green C, Blakney E, Roberson K, Bretton E, Pish R, Kaveh K, Maynard B, Barager W, Soldyshev R, Austin B, Parmar P, Simpson R, Chauhan A, Kasper J, Burr R, Patel N, Mariano H, Pluto T, Bratcher C, Juarez M, Levinson L, Awad A, Longshaw K, Hoffman K, Richwine R, Molter D, Boscia J, Kowalyk S, Lemis P, Liss J, Orr R, Riser J, Wood J, Ubani A, Paine W, Hassani F, Miranda F, Hansen V, Hansen VR, Farris N, Bowden R, Ajani D, Maw K, Andersen J, Bergman B, Dunmyer S, Brandon D, Anderson M, Bononi P, Prawer J, Seidman B, Cruz H, Wilks K, DiSanto L, Buynak R, Christensen T, Denker P, Koppel W, Stedman M, Lewy-Alterbaum L, Karim S, Shapiro J, Gardner T, Oskin T, Gabra N, Malano J; EMPA-REG OUTCOME Investigators. Influence of Microvascular Disease on Cardiovascular Events in Type 2 Diabetes. *Journal of The American College of Cardiology.* 2019; 73(21): 2780-2. IF: 18.639 - Letter.

End Master Investigations Directed on the Group

Student: José Carlos Martínez Santamaría

Title: Deficiency in RIP2 improves cardiac calcium mishandling in an experimental model of chronic kidney disease

Directors: Gema Ruiz Hurtado, María Fernández Velasco

Master: Biociencias Moleculares (UAM)

End Graduated Investigations Directed on the Group

Student: Andrea Susmozas Sánchez

Title: Estatus oxidativo diferencial en la enfermedad renal terminal: variaciones entre diálisis convencional y diálisis en línea

Director: Gema Ruiz Hurtado

Degree: Biología Sanitaria (Universidad Rey Juan Carlos)

Communication

Number of news published in written press: 2

Patents

Title: Un método pronóstico y kit para la identificación de riesgo de desarrollo de albuminuria, riesgo de daño renal y riesgo cardiovascular en un sujeto humano hipertenso.

Number: PCT/ES2017/070265.

Type: PCT patent.

Inventors: Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Vivanco Martínez, Laura González Calero, Eugenia González Barderas.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%), Fundación Instituto de Investigación Sanitaria Jiménez Díaz (60%).

Date of application: 28/04/2017

Title: Un método pronóstico y kit para la identificación de riesgo de desarrollo de albuminuria, riesgo de daño renal y riesgo cardiovascular en un sujeto humano hipertenso.

Number: P201630559.

Type: Spanish patent.

Inventors: Luis Miguel Ruilope Urioste, Gloria Álvarez Llamas, Fernando Martín Vivanco, Laura González Calero, Eugenia González Barderas.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación Jiménez Díaz (60%), Fundación de Investigación del Hospital Nacional de Parapléjicos de Toledo (20%).

Date of application: 29/04/2016

PERINATAL MEDICINE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Galindo Izquierdo, Alberto (R4)

Albert de la Torre, Leticia - Predoctoral Researcher (R1)
 Caro Barri, Ana Teresa - Clinical Researcher
 Escribano Abad, David - Postdoctoral Researcher (R2)
 Flores Fernández, Marta - Clinical Researcher
 García Burguillo, Antonio - Postdoctoral Researcher (R2)
 Gómez Arriaga, Paula Isabel - Postdoctoral Researcher (R2)
 Gómez Montes, Mª Enery - Doctoral Researcher (R3)
 Granados Ruiz, Miguel Ángel - Postdoctoral Researcher (R2)
 Herraiz García, Ignacio - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
Non Competitive	Various	1
TOTAL		2

▪ **Title:** Elección del momento del parto en la preeclampsia y el crecimiento fetal restringido de aparición tardía: aproximación al dilema mediante tecnología analítica de alta resolución.

Principal Investigator: Alberto Galindo Izquierdo

Project No.: PI16/01955

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 31/06/2021

▪ **Title:** Evaluación de la capacidad funcional en pacientes en estado de fontan en la edad pediátrica.

Principal Investigator: Alberto Mendoza Soto

Funding Body: Evomed, S.L.

Start date: 15/03/2017

End date: 14/03/2020

Herrera Linde, Mª Dolores - Clinical Researcher
 Mendoza Soto, Alberto - Clinical Researcher
 Montañés Delmas, Mª Elena - Clinical Researcher
 Quezada Rojas, Mª Soledad - Postdoctoral Researcher (R2)
 Rodríguez Calvo, Jesús - Predoctoral Researcher (R1)
 Toral Vázquez, Belén - Clinical Researcher
 Villalain González, Cecilia - Postdoctoral Researcher (R2)

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	9	15.392
Editorials	1	2.414
TOTAL	10	17.806
Letters	1	1.136
TOTAL	11	18.942

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- Blazquez-Gamero D, Galindo Izquierdo A, Del Rosal T, Baquero-Artigao F, Izquierdo Méndez N, Soriano-Ramos M, Rojo Conejo P, Gonzalez-Tome MI, Garcia-Burguillo A, Perez NP, Sanchez V, Ramos-Amador JT, De la Calle M. Prevention and treatment of fetal cytomegalovirus infection with cytomegalovirus hyperimmune globulin: a multicenter study in Madrid. *Journal of Maternal-Fetal & Neonatal Medicine*. 2019; 32(4): 617-25. IF: 1.569 - Article.
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▪ Gorostidi M, Villalain C, Ruiz R, Jaunarena I, Cobas P, Lekuona A. Prevention of lymphorrhea in aortic lymphadenectomy. *International Journal of Gynecological Cancer*. 2019; 29(3): 645-6. IF: 1.746 - Article.

▪ Herraiz I, Villalba A, Ajuria E, Barasoain A, Mendoza A, Pizarro N, Escribano D, Galindo A. Impact of cell-free fetal DNA on invasive prenatal diagnostic tests in a real-world public setting. *Journal of Perinatal Medicine*. 2019; 47(5): 547-52. IF: 1.361 - Article.

▪ Martin-Cazana M, Grau S, Epalza C, Branas P, Flores M, Olmedilla M, Blazquez-Gamero D. Successful ceftolozane-tazobactam rescue therapy in a child with endocarditis caused by multidrug-resistant *Pseudomonas aeruginosa*. *Journal of Paediatrics and Child Health*. 2019; 55(8): 985-7. IF: 1.688 - Article.

▪ Ribera I, Ruiz A, Sanchez O, Eixarch E, Antolin E, Gomez-Montes E, Perez-Cruz M, Cruz-Lemini M, Sanz-Cortes M, Arevalo S, Ferrer Q, Vazquez E, Vega L, Dolader P, Montoliu A, Boix H, Simões RV, Masoller N, Sanchez-de-Toledo J, Comas M, Bartha JM, Galindo A, Martinez JM, Gomez-Roig L, Crispí F, Gomez O, Carreras E, Cabrerol L, Gratacos E, Llurba E. Multicenter prospective clinical study to evaluate children short-term neurodevelopmental outcome in congenital heart disease (children NEURO-HEART): study protocol. *BMC Pediatrics*. 2019; 19(1): 326. IF: 1.983 - Article.

▪ Bellido C, Barbero P, Forcén L, Blanco M, Alonso-Riaño M, Galindo A. Lung adenocarcinoma during pregnancy: clinical case and literature review. *Journal of Maternal-Fetal & Neonatal Medicine*. 2019; 32(19): 3300-2. IF: 1.569 - Article.

▪ Caicedo L, Hopper RK, Garcia H, Ivy DD, Haag D, Fineman J, Humpi T, Al-Tamimi O, Feinstein J, Berger RM, Berman-Rosenzweig E, Kashour T, Diaz GF, Mendoza A, Bobhate P, Handler S, Lopes AA, Barwad P, Kumar Rahit M, Krishnan U, Adatia ITK, Moledina S, Abman S, Cerro Marin MJD. EXPRESS: Acute Vasoreactivity Testing in Pediatric Idiopathic Pulmonary Arterial Hypertension: an international Survey on Current Practice. *Pulmonary Circulation*. 2019; 9(4): 2045894019857533. IF: 2.075 - Article.

▪ Valdeolmillos E, Herrera D, Montanes E, Mendoza A. Ductal flow reduction with covered coronary stents in neonates with pulmonary overflow after ductal stenting. *Progress in Pediatric Cardiology*. 2019; 52: 43-5. IF: N/A - Article.

▪ Flores M, Caro AT, Mendoza A. Initial experience in children with the use of macitentan in pulmonary arterial hypertension after side effects with other endothelin receptor antagonists. *Progress in Pediatric Cardiology*. 2019; 52: 55-6. IF: N/A - Article.

▪ Gorostidi M, Villalain C, Ruiz R, Jaunarena I, Lekuona A, Diez-Itza I. Maximizing Sentinel Lymph Node Detection: Aortic Sentinel Lymph Node Detection in Endometrial Cancer. *Journal of Minimally Invasive Gynecology*. 2019; 26(1): 23-4. IF: 2.414 - Editorial Material.

▪ Soriano-Ramos M, Orellana-Felis E, Moral-Pumarega MT, Lopez-Maestro

M, de Alba-Romero C, Galindo-Izquierdo A, Pallas-Alonso CR. Heparin in Congenital Chylothorax and Chylous Ascites. *Indian Journal of Pediatrics*. 2019; 86(7): 660-1. IF: 1.136 - Letter.

Theses Defended or Directed on the Group

- Candidate:** Cecilia Villalaín González
Title: Crecimiento intrauterino restringido tardío: optimización del diagnóstico y tratamiento
Director/s: Ignacio Herráiz García, Alberto Galindo Izquierdo
Date Defended: 27/05/2019
University: Universidad Complutense de Madrid
International Mention: No

End Graduated Investigations Directed on the Group

- Student:** Manuel Ernesto Arévalo y Ana María Ruiz Bejerano
Title: Resultados perinatales y maternos en las gestaciones de pacientes diagnosticadas de trastornos psiquiátricos. Estudio retrospectivo
Director: Antonio García Burguillo
Master: Medicina (UCM)
- Student:** Mª del Pilar Sánchez Martínez
Title: Inducción de parto en el Hospital 12 de Octubre: análisis de resultados y factores predictivos
Director: Antonio García Burguillo
Master: Medicina (UCM)
- Student:** Luis Juez
Title: Resultados del cribado poblacional mamográfico en la Unidad de Patología Mamaria del Hospital Universitario 12 de Octubre
Director: Alberto Galindo Izquierdo
Master: Medicina (UCM)
- Student:** Celia Permy Romero, Laura Sacristán Robles, María José Zamora Lorenci
Title: Predicción del resultado materno y perinatal adverso en la preeclampsia precoz.
Directors: Ignacio Herráiz García, Alberto Galindo Izquierdo
Master: Medicina (UCM)
- Student:** María Martínez Cuevas, Paula Cabestre Pinilla
Title: Características clínicas, epidemiológicas y factores pronósticos de la infección gestacional por citomegalovirus.
Director: Enery Gómez Montes
Master: Medicina (UCM)

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

RESEARCH ON CARDIOVASCULAR RISK

CENTER: Primary Care

GROUP LEADER: Minué Lorenzo, César (R3)

Camarelles Guillem, Francisco - Doctoral Researcher (R3)

Gámez Cabero, M^a Isabel - Doctoral Researcher (R3)

Granados Garrido, José Antonio - Postdoctoral Researcher (R2)

Martínez Suberviela, Francisco Javier - Doctoral Researcher (R3)

Matilla Pardo, Blanca - Postdoctoral Researcher (R2)

Olano Espinosa, Eduardo - Doctoral Researcher (R3)

Ruiz Pacheco, Margarita - Postdoctoral Researcher (R2)

Serrano Serrano, Encarnación - Doctoral Researcher (R3)

Vizcaíno Sánchez-Rodrigo, José M^a - Postdoctoral Researcher (R2)

Active Projects of the Research Group Not
Managed by Fundación para la
Investigación Biomédica del Hospital 12
de Octubre (FIBH120)

- Title:** Efectividad de un bot conversacional para dejar de fumar en población adulta: ensayo clínico pragmático en Atención Primaria: Déj@lo.

Principal Investigator: Eduardo Olano Espinosa

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Cohorte DESVELA. Análisis del papel de las aptitudes personales como determinantes de la incidencia, de la morbilidad, estilos de vida, calidad de vida, uso de servicios y mortalidad.

Principal Investigator: Blanca Notario. Investigador Collaborator: César Minué Lorenzo

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2022

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Editorials	1	1.277
TOTAL	1	1.277

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

AREA 6. INFLAMMATORY DISEASES AND IMMUNE DISORDERS

COORDINATOR: JOSÉ LUIS PABLOS ÁLVAREZ

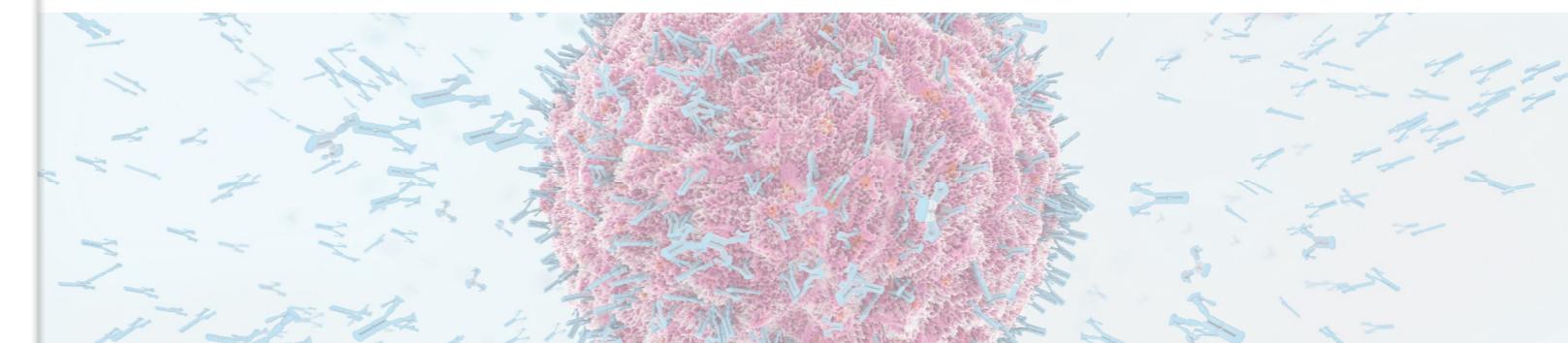
Asthma and Immunoallergic Diseases

Molecular and Cellular Bases of Rheumatic Diseases

Inflammatory and Autoimmune Diseases

Lymphocyte Immunobiology

Immunodeficiencies and Immunology of Transplants





The area of Inflammatory Diseases and Immune Disorders is a multidisciplinary area made up of five groups belonging to the 12 de Octubre University Hospital (3) and the Universidad Complutense de Madrid (2), grouped thematically and whose collaboration in projects and lines of research extend beyond the scope of the Hospital.

The area brings together more than 50 researchers who carry out both care and teaching activities and intensive translational research focused on inflammatory and immune-based pathologies.

The EITI area constitutes a cooperative structure that promotes research into the mechanisms responsible for the development and maintenance of inflammatory and immunological pathologies and, in this way, contributes to the benefit of patients, the global health of the population and the sustainability of the health system.

Research in the EITI area is markedly translational, with basic and experimental studies arising from the approach to clinical problems such as immunodeficiencies, the chronicity of inflammation and the need to develop individualised, pathogen-based curative therapies.

Therefore, the general objective of the EITI area is the study of the pathophysiological bases of inflammatory and immunological diseases and their translational implications aimed at the development of precision medicine and personalised therapies.

List of the five most relevant publications of the Inflammatory Diseases and Immune Disorders Area during 2019

The following are the 5 most relevant publications in the Inflammatory Diseases and Immune Disorders Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. Maleki SJ, Crespo JF, Cabanillas B. Anti-inflammatory effects of flavonoids. *Food Chemistry*. 2019; 299: 125124. IF: 6.306 - D1 - Review.
2. Martinez-Lopez M, Iborra S, Conde-Garrosa R, Mastrangelo A, Danne C, Mann ER, Reid DM, Gaboriau-Routhiau V, Chaparro M, Lorenzo MP, Minnerup L, Saz-Leal P, Slack E, Kemp B, Gisbert JP, Dzinek A, Robinson MJ, Ruperez FJ, Cerf-Bensussan N, Brown GD, Bernardo D, LeibundGut-Landmann S, Sancho D. Microbiota Sensing by Mincle-Syk Axis in Dendritic Cells Regulates Interleukin-17 and-22 Production and Promotes Intestinal Barrier Integrity. *Immunity*. 2019; 50(2). IF: 22.553 - D1- Article.
3. Cano-Romero FL, Laguna Goya R, Utrero-Rico A, Gomez-Massa E, Arroyo-Sanchez D, Suarez-Fernandez P, Lora D, Andres A, Castro-Panete MJ, Paz-Artal E. Longitudinal profile of circulating T follicular helper lymphocytes parallels anti-HLA sensitization in renal transplant recipients. *American Journal of Transplantation*. 2019; 19(1): 89-97. IF: 7.338 - D1- Article.
4. Marin AV, Cardenas PP, Jimenez-Reinoso A, Munoz-Ruiz M, Regueiro JR. Lymphocyte integration of complement cues. *Seminars in Cell & Developmental Biology*. 2019; 85: 132-42. IF: 6.691 - D1- Review.
5. Recio R, Melendez-Carmona MA, Martin-Higuera MC, Perez V, Lopez E, Lopez-Medrano F, Perez-Ayala A. Trichoderma longibrachiatum: an unusual pathogen of fungal pericarditis. *Clinical Microbiology and Infection*. 2019; 25(5): 586-7. IF: 7.117 - D1- Article.

ASTHMA AND IMMUNOALLERGIC DISEASES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Diéguez Pastor, M^a del Carmen (R3)

Barranco Jiménez, Ruth - Clinical Researcher
 Barrionuevo Sánchez, Esther - Postdoctoral Researcher (R2)
 Cabanillas Martín, Beatriz - Collaborator
 de las Cuevas Moreno, Natividad - Postdoctoral Researcher (R2)
 Enríquez Matas, Alicia - Postdoctoral Researcher (R2)
 Fernández Crespo, Jesús - Doctoral Researcher (R4)
 Fernández Rodríguez, Consuelo - Postdoctoral Researcher (R2)
 García Hernández, Gloria - Researcher Consultant

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	Fundación Merck Salud	1
Non Competitive	Various	1
TOTAL		2

- Title:** Identificación de marcadores no invasivos y nuevas dianas terapéuticas en pacientes con esofagitis eosinóflica.

Principal Investigator: M^a del Carmen Diéguez Pastor

Funding Body: Fundación Merck Salud

Start date: 01/07/2018

End date: 01/07/2021

- Title:** Búsqueda de marcadores no invasivos para el seguimiento de la esofagitis eosinófila: papel de la peristina sérica en la población pediátrica.

Principal Investigator: M^a del Carmen Diéguez Pastor

Funding Body: Sociedad Española de Gastroenterología Hepática y Nutrición Pediátrica

Start date: 07/03/2018

End date: 06/03/2020

García Moguel, Ismael - Predoctoral Researcher (R1)
 Guillén Vera, Daiana - Postdoctoral Researcher (R2)
 Herráez Herrera, Pilar de Lys - Predoctoral Researcher (R1)
 Luna Paredes, M^a del Carmen - Postdoctoral Researcher (R2)
 Mielgo Ballesteros, Ruth - Clinical Researcher
 Rodríguez Rodríguez, Julia - Doctoral Researcher (R3)
 Troyano Rivas, Carmen - Clinical Researcher

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	8	81.727
Editorials	2	5.102
TOTAL	10	86.829
Letters	5	18.298
TOTAL	15	105.127

- Mateo-Borrega MB, Garcia B, Hernando Larramendi C, Azofra J, Gonzalez-Mancebo E, Alvarado MI, Alonso Diaz de Durana MD, Nunez-Orjales R, Dieguez MC, Guilarte M, Soriano-Galarraga AM, Sosa G, Ferrer A, Garcia-Moral A, Beristain AM, Bartra J. IgE-mediated sensitization to galactose-alpha-1,3-galactose (alpha-gal) in urticaria and anaphylaxis in Spain: geographical variations and risk factors. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(6): 436-43. IF: 3.802 - Article.
- Sanchez-Bautista A, Rodriguez-Diaz JC, Garcia-Heredia I, Luna-Paredes C, Alcala-Minagorre PJ. Airway microbiota in patients with paediatric cystic fibrosis: Relationship with clinical status. *Enfermedades Infecciosas y Microbiologia Clinica*. 2019; 37(3): 167-71. IF: 1.685 - Article.
- Silverwood RJ, Rutter CE, Mitchell EA, Asher MI, Garcia-Marcos L, Strachan DP, Pearce N, Ait-Khaled N, Anderson HR, Beasley R, Bjorksten B, Brunekreef B, Crane J, Flohr C, Foliaki S, Forastiere F, Keil U, Lai CKW, Mallol J, Odhiambo

J, Robertson CF, von Mutius E, Weiland SK, Weinmayr G, Williams HC, Wong G, Clayton TO, Ellwood P, Mitchell EA, Stewart AW, Baena-Cagnani CE, Gomez M, Howitt ME, Weyler J, Pinto-Vargas R, da Cunha AJ, Souza LD, Kuaban C, Ferguson A, Rennie D, Standing P, Aguilar P, Amarales L, Benavides LA, Contreras A, Chen YZ, Kunii O, Pan L, Zhong NS, Aristizabal G, Cepeda AM, Ordonez GA, Bustos C, Riikjarv MA, Melaku K, Sa'aga-Banuve R, Pekkanen J, Hypolite IE, Novak Z, Zsigmond G, Awasthi S, Bhave S, Hanumante NM, Jain KC, Joshi MK, Khatav VA, Mantri SN, Pherwani AV, Rego S, Sabir M, Salvi S, Setty G, Sharma SK, Singh V, Sukumaran T, Babu PSS, Kartasasmitha CB, Konthen P, Suprihati W, Masjedi MR, Steriu A, Koffi BN, Odajima H, Al-Momen JA, Imanalieva C, Kudzyte J, Quah BS, Teh KH, Montefort S, Baeza-Bacab M, Barragan-Mejueiro M, Del-Rio-Navarro BE, Garcia-Almaraz R, Gonzalez-Diaz SN, Linares-Zapien FJ, Merida-Palacio JV, Ramirez-Chanona N, Romero-Tapia S, Romieu I, Bouayad Z, Asher MI, MacKay R, Moyes C, Pattemore P, Pearce N, Onadeko BO, Cukier G, Chiarella P, Cua-Lim F, Breborowicz A, Lis G, Camara R, Chiera ML, dos Santos JML, Nunes C, Pinto JR, Vlaski E, Fuimaono P, Pisi V, Goh DY, Zar HJ, Lee HB, Blanco-Quiros A, Busquets RM, Carvajal-Uruena I, Garcia-Hernandez G, Garcia-Marcos L, Diaz CG, Lopez-Silvarrey A, Morales-Suarez-Varela M, Perez-Yarza EG, Musa OA, Al-Rawas O, Mohammad S, Mohammad Y, Tabbah K, Huang JL, Kao CC, Trakultivakorn M, Vichyanond P, Iosefa T, Burr M, Strachan D, Holgado D, Lapides MC, Windom HH, Aldrey O, Sole D, Sears M, Aguirre V, Barba S, Shah J, Baratawidjaja K, Nishima S, de Bruyne J, Tuuau-Potoi N, Lai CK, Lee BW, El Sony A, Anderson R; ISAAC Phase Three Study Grp, ISAAC Int Data Ctr, ISAAC Principal Investigators, ISAAC Natl Coordinators Not. Are environmental risk factors for current wheeze in the International Study of Asthma and Allergies in Childhood (ISAAC) phase three due to reverse causation? *Clinical and Experimental Allergy*. 2019; 49(4): 430-41. IF: 4.741 - Article.

- Gartner S, Mondejar-Lopez P, de la Cruz OA, Alonso MJ, Alvarez M, Martin AA, de Aguero MIBG, Perez MJC, Aguilera PC, Roig MC, Aznar-Perez IC, Colomer JC, Pecellin ID, Montaner AE, Mulet JF, Hernandez GG, Guayarte P, Ortega DG, Pastrana DG, Ferreiro AL, Soria JLM, de Vicente CM, Merino MN, Hernandez CO, Frias JP, Ruiz EP, Amigo SR, Posadas AS, Sanchez-Solis M, Gomez JS, Cordero CV, Asensi JRV; Soc Espanola Neumologia Pediat. Follow-up protocol of patients with cystic fibrosis diagnosed by newborn screening. *Anales de Pediatría*. 2019; 90(4): UNSP 251.e1. IF: 1.166 - Article.
- Diaz-Campos RM, Bobolea I, Giron-Matute W, Guillen-Vera D, De las Cuevas-Moreno N, Melero-Moreno C. Autoimmune Diseases and Asthma. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(3): 246-8. IF: 3.802 - Article.
- Moreno M, Castillo-Corullon S, Perez-Ruiz E, Luna MC, Anton-Pacheco JL, Mondejar-Lopez P, De-la-Serna O, Villa JR, Osona B, Torres-Borrego J, Santiago-Burruchaga M, Asensio O, Andres-Martin A, Delgado-Pecellin I, Gonzalez Y, Palmero A, Escribano A. Spanish multicentre study on morbidity and pathogenicity of tracheal bronchus in children. *Pediatric Pulmonology*. 2019; 54(10): 1610-6. IF: 2.801 - Article.

- Gastaminza G, Ruiz-Canela M, Andres-Lopez B, Villarejo MJB, Cabanas R, Garcia-Nunez I, Goikoetxea MJ, Laguna JJ, Lobera T, Lopez-San Martin M, Martin-Lazaro J, Mielgo-Ballesteros R, Moreno E, Moya-Quesada MD, Ortega-Rodriguez N, Rojas-Perez-Ezquerra P, Rosado A, Salas M, Sanchez-Morillas L, Vila-Albelda C, Corominas M. Quality of Life in Patients with Allergic Reactions to Medications: Influence of a Drug Allergy Evaluation. *Journal of Allergy and Clinical Immunology-In Practice*. 2019; 7(8): 2714-21. IF: 7.550 - Article.
- de Llano LP, Cosio BG, Iglesias A, de Las Cuevas N, Soler-Cataluna JJ, Izquierdo JL, Lopez-Campos JL, Calero C, Plaza V, Miravitles M, Torregro A, Martinez-Moragon E, Soriano JB, Vina AL, Bobolea I. Mixed Th2 and non-Th2 inflammatory pattern in the asthma-COPD overlap: a network approach. *International Journal of Chronic Obstructive Pulmonary Disease*. 2018; 13: 591-601. IF: 2.917 - Article.
- Cuesta-Herranz J, Laguna JJ, Mielgo R, Perez-Camo I, Callejo AM, Begona L, Gomez MC, Madariaga B, Martinez A. Quality of life improvement with allergen immunotherapy treatment in patients with rhinoconjunctivitis in real life conditions. Results of an observational prospective study (CARA). *European Annals of Allergy and Clinical Immunology*. 2019; 51(5): 222-33. IF: N/A - Article.
- Maleki SJ, Crespo JF, Cabanillas B. Anti-inflammatory effects of flavonoids. *Food Chemistry*. 2019; 299: 125124. IF: 5.399 - Review.
- Guillen-Vera D, Ruiz-Ruigomez M, Garcia-Moguel I, Morales-Ruiz R, Corbella L, Fernandez-Rodriguez C. Chronic Pulmonary Aspergillosis Succesfully Treated With Isavuconazole. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(6): 459-60. IF: 3.802 - Editorial Material.
- Diaz-Campos RM, Prudencio-Ribera VC, Garcia-Moguel I, Fernandez-Rodriguez C, Corral-Blanco M, Jarrin-Estupinan ME, Melero-Moreno C. Mepolizumab for the Treatment of Eosinophilic Granulomatosis with Polyangiitis: Our Experience. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(5): 384-5. IF: 3.802 - Editorial Material.
- Garcia-Moguel I, Bobolea I, Dieguez Pastor MC, Lopez-Arranz Monge G, Jimenez RB. Acute eosinophilic pneumonia due to piperacillin/tazobactam. *Annals of Allergy Asthma & Immunology*. 2019; 122(3): 334-6. IF: 3.560 - Letter.
- Gonzalez-de-Olano D, Esteban-Lopez MI, Alonso-Diaz-de-Durana MD, Gonzalez-Mancebo E, Prieto-Garcia A, Gandofo-Cano M, Mohedano-Vicente E, Balugo-Lopez V, Fiador A, Mielgo-Ballesteros R, Vega-Castro A, Garcia-Montero A, Orfao A, Escribano L, Alvarez-Twose I. Frequency of clonal mast cell diseases among patients presenting with anaphylaxis: A prospective study in 178 patients from 5 tertiary centers in Spain. *Journal of Allergy and Clinical Immunology-In Practice*. 2019; 7(8): 2924-2926.e1. IF: 7.550 - Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MOLECULAR AND CELLULAR BASES OF RHEUMATIC DISEASES

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Pérez Gomariz, Rosa M^a (R4)

Carrión Caballo, Mar - Postdoctoral Researcher (R2)

Gutiérrez Cañas, Irene - Doctoral Researcher (R3)

Juarranz Moratilla, Yasmina - Doctoral Researcher (R3)

Martínez Mora, M^a del Carmen - Doctoral Researcher (R3)

Pérez García, Selene - Postdoctoral Researcher (R2)

Villanueva Romero, Raúl - Predoctoral Researcher (R1)

Active Projects of the Research Group Not
Managed by Fundación para la
Investigación Biomédica del Hospital 12
de Octubre (FIBH120)

- Title:** Eje VIP/receptores como biomarcador en enfermedades reumáticas y su implicación en la destrucción de cartílago y hueso.

Principal Investigator: Rosa M^a Pérez Gomariz, Yasmina Juarranz Moratilla

Project No.: PI17/00027

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Desarrollo y validación de un sistema de análisis de biomarcadores genéticos y/o epigenéticos para personalizar el tratamiento de enfermedades inflamatorias y autoinmunes.

Principal Investigator: Rosa M^a Pérez Gomariz

Project No.: RTC-2015-3562

Funding Body: Ministerio de Economía y Competitividad - Proyecto Retos de colaboración con empresas

Start date: 01/07/2015

End date: 31/06/2019

- Title:** Estudio de la expresión génica y mecanismos de regulación de VIP y sus receptores en artritis de reciente comienzo. Validación como marcador pronóstico.

Principal Investigator: Carmen Martínez Mora

Project No.: PI14/00477

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 30/16/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	2	8.669
Reviews	3	11.451
TOTAL	5	20.120

- Villanueva-Romero R, Gutierrez-Canas I, Carrion M, Gonzalez-Alvaro I, Rodriguez-Frade JM, Mellado M, Martinez C, Gomariz RP, Juarranz Y. Activation of Th lymphocytes alters pattern expression and cellular location of VIP receptors in healthy donors and early arthritis patients. *Scientific Reports*. 2019; 9(1): 7383. IF: 4.011 - Article.
- Perez-Garcia S, Carrion M, Villanueva-Romero R, Hermida-Gomez T, Fernandez-Moreno M, Mellado M, Blanco FJ, Juarranz Y, Gomariz RP. Wnt and RUNX2 mediate cartilage breakdown by osteoarthritis synovial fibroblast-derived ADAMTS-7 and -12. *Journal of Cellular and Molecular Medicine*. 2019; 23(6): 3974-83. IF: 4. 658 - Article.
- García-Cuesta EM, Santiago CA, Vallejo-Díaz J, Juarranz Y, Rodríguez-Frade JM, Mellado M. The Role of the CXCL12/CXCR4/ACKR3 Axis in Autoimmune Diseases. *Frontiers in Endocrinology*. 2019; 10: 585. IF: 3.634 - Review.
- Carrion M, Frommer KW, Perez-Garcia S, Muller-Ladner U, Gomariz RP, Neumann E. The Adipokine Network in Rheumatic Joint Diseases. *International Journal of Molecular Sciences*. 2019; 20 (17): 4091. IF: 4.183 - Review.
- Gomariz RP, Juarranz Y, Carrion M, Perez-Garcia S, Villanueva-Romero R, Gonzalez-Alvaro I, Gutierrez-Canas I, Lamana A, Martinez C. An Overview of VPAC Receptors in Rheumatoid Arthritis: Biological Role and Clinical Significance. *Frontiers in Endocrinology*. 2019; 10: 729. IF: 3.634 - Review.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

End Master Investigations Directed on the Group

Student: Borja Fernández Cerezo

Title: Papel de CCR7 en artritis reumatoide: relación con parámetros clínicos de gravedad, respuesta a tratamiento y dinámica ósea

Director: Amalia Lamana Domínguez

Master: Máster en Investigación en Medicina Traslacional (UCM)

Student: Marissa Josselyn Flores Santamaría

Title: Regulación de la expresión de los receptores de VIP en las enfermedades autoinmunes

Directoras: Carmen Martínez Mora y Yasmina Juarranz Moratilla

Master: Máster en Investigación en Medicina Traslacional (UCM)

Patents

Title: Método pronóstico de enfermedades autoinmunes mediante el genotipado de variantes genéticas del Péptido Intestinal Vasoactivo.

Type: European patent. European application Number: EP15764662.1; PCT application Number: PCT/ES2015/070182; PCT publication Number: WO2015140375.

Inventors: Isidoro González Álvaro, Ana M. Ortiz García, Amalia Lamana Domínguez, Rosa Pérez Gomariz, Carmen Martínez Mora, Javier Leceta Martínez y Yasmina Juarranz Moratilla.

Owners: Fundación de Investigación Biomédica del Hospital Universitario La Princesa (51%) y Universidad Complutense de Madrid (49%).

Date of application: 17 de Marzo de 2014.

Date of application: P201430364.

End Graduated Investigations Directed on the Group

Student: Marco Fariñas Fernández

Title: Contribución del sinoviocito fibroblástico a la degradación del cartílago en la artrosis

Directoras: Rosa Pérez Gomariz y Selene Pérez García

Degree: Biología (UCM)

INFLAMMATORY AND AUTOIMMUNE DISEASES

CENTER: Hospital Universitario 12 de Octubre (H12O)

GROUP LEADER: Pablos Álvarez, José Luis (R4)

Antón - Pacheco Sánchez, Juan Luis - Doctoral Researcher (R3)
 Carreira Delgado, Patricia Esmeralda - Doctoral Researcher (R3)
 Criado Carrasco, Gabriel - Doctoral Researcher (R3)
 del Rey Cerros, Manuel José - Postdoctoral Researcher (R2)
 Galindo Izquierdo, María - Doctoral Researcher (R3)
 García González, Alfredo Javier - Clinical Researcher
 Gómez Briz, Raquel - Clinical Researcher
 González Granado, José Mª - Doctoral Researcher (R3)
 Herrero Fernández, Beatriz - Predoctoral Researcher (R1)
 Joven Ibáñez, Beatriz Esther - Clinical Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	5
Competitive	EIT HEALTH	1
Non Competitive	Various	1
TOTAL		7

Title: Endoprótesis biodegradables en la vía aérea: efectos histológicos y estructurales en la pared traqueal normal y en un modelo animal de estenosis traqueal.

Principal Investigator: Juan Luis Antón-Pacheco Sánchez
Project No.: PI18/00693

Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2019
End date: 31/12/2021

Title: Predictores de morbilidad y mortalidad en una cohorte de incepción de pacientes con esclerodermia.

Principal Investigator: Patricia Esmeralda Carreira Delgado
Project No.: PI18/00867
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2019
End date: 31/12/2021

Lozano Morillo, Fernando - Clinical Researcher
 Martín López, María - Predoctoral Researcher (R1)
 Melchor Díaz, Sheila - Clinical Researcher
 Meroño Ortega, Carolina - Predoctoral Researcher (R1)
 Miranda Ramos, Vanesa - Support Technician
 Municio Rueda, Cristina Mª - Postdoctoral Researcher (R2)
 Sánchez Martín, Julio - Predoctoral Researcher (R1)
 Somovilla Crespo, Beatriz - Predoctoral Researcher (R1)
 Usategui Corral, Alicia - Postdoctoral Researcher (R2)

Title: Lámina A/C: Interés como diana terapéutica en enfermedad inflamatoria intestinal.

Principal Investigator: José Mª González Granado

Project No.: PI17/01395

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/20120

Title: Interacción entre inflamación, metabolismo y senescencia en las Artritis Crónicas.

Principal Investigator: José Luis Pablos Álvarez

Project No.: PI16/00032

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

Title: Clinical Validation of Genetic Markers to Predict Persistent Remission in Rheumatoid Arthritis Patients Treated with Biological Therapy (REMRABIT).

Principal Investigator: José Luis Pablos Álvarez (colaborador)

Project No.: PMP15/00032

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 22/07/2016

End date: 31/12/2018, extended to 28/02/2019

Title: Dispositivo médico para predicción en artritis reumatoide (prediction medical device for rheumatoid arthritis): Scale-Up de una plataforma predictiva on-line que mejora la calidad de vida del paciente con artritis reumatoide mediante la prescripción personalizada y eficiente de medicamentos biológicos.

Principal Investigator: José Luis Pablos Álvarez

Project No.: 2019/0107

Funding Body: EIT Health

Start date: 01/07/2019

End date: 31/12/2020

Title: Biomarcadores de inmunosupresión en pacientes con artritis crónicas en tratamiento con terapias inmunomoduladoras.

Principal Investigator: José Luis Pablos Álvarez

Funding Body: Merck Sharp Dohme España, S.A.

Start date: 01/12/2017

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	27	166.226
Reviews	1	4.183
TOTAL	28	170.409
Letters	1	5.149
TOTAL	29	175.558

Title: Carreira PE, Carmona L, Joven BE, Loza E, Andreu JL, Riemekasten G, Vettori S, Balbir-Gurman A, Airo P, Walker U, Damjanov N, Matucci-Cerinic M, Ananieva LP, Rednic S, Czirjak L, Distler O, Farge D, Hesselstrand R, Corrado A, Caramaschi P, Tikly M, Allanore Y; EUSTAR co-authors. Differences associated with age at onset in early systemic sclerosis patients: a report from the EULAR Scleroderma Trials and Research Group (EUSTAR) database. Scandinavian Journal of Rheumatology. 2019; 48(1): 42-51. IF: 2.706 - Article.

Title: Ferreiro-Iglesias A, Montes A, Perez-Pampin E, Canete JD, Raya E, Magro-Checa C, Vasilopoulos Y, Caliz R, Ferrer MA, Joven B, Carreira P, Balsa A, Pascual-Salcedo D, Blanco FJ, Moreno-Ramos MJ, Manrique-Arija S, Ordonez MDC, Alegre-Sancho JJ, Narvaez J, Navarro-Sarabia F, Moreira V, Valor L, Garcia-Portales R, Marquez A, Gomez-Reino JJ, Martin J, Gonzalez A. Evaluation of 12 GWAS-drawn SNPs as biomarkers of rheumatoid arthritis response to TNF inhibitors. A potential SNP association with response to etanercept. Plos One. 2019; 14(2): e0213073. IF: 2.776 - Article.

Title: Acosta-Herrera M, Kerick M, Gonzalez-Serna D, Wijmenga C, Franke A, GregerSEN PK, Padyukov L, Worthington J, Vyse TJ, Alarcon-Riquelme ME, Mayes MD, Martin J, Miller FW, Chen W, O'Hanlon TP, Cooper RG, Vencovsky J, Rider LG, Danko K, Wedderburn LR, Lundberg IE, Pachman LM, Reed AM, Ytterberg SR, Selva-O'Callaghan A, Radstake TR, Isenberg DA, Chinoy H,

Ollier WER, Scheet P, Peng B, Lee A, Lamb JA, Amos CI, Denton C, Hilton-Jones D, Plotz PH, Varsani H, Radstake TRDJ, Gorlova O, Rueda B, Martin JE, Alizadeh BZ, Palomino-Morales R, Coenen MJ, Vonk MC, Voskuyl AE, Scheurwegen AJ, Broen JC, van Riel PLCM, van 't Slot R, Italiaander A, Ophoff RA, Riemekasten G, Hunzelmann N, Simeon CP, Ortego-Centeno N, Gonzalez-Gay MA, Gonzalez-Escribano MF, Airo P, van Laar J, Herrick A, Hesselstrand R, Smith V, de Keyser F, Houssiau F, Chee MM, Madhok R, Shiels P, Westhovens R, Kreuter A, Kiener H, de Baere E, Witte T, Klareskog L, Beretta L, Scorza R, Lie BA, Hoffman-Vold AM, Carreira P, Varga J, Hinckliff M, Lee AT, Ying J, Han Y, Weng SF, Wigley FM, Hummers L, Nelson JL, Agarwal SK, Assassi S, Gourh P, Tan FK, Koeleman BPC, Arnett FC; Myositis Genetics Consortium, Scleroderma Genetics Consortium. Genome-wide meta-analysis reveals shared new loci in systemic seropositive rheumatic diseases. Annals of the Rheumatic Diseases. 2019; 78(3): 311-9. IF: 14.299 - Article.

Title: Cobo-Ibanez T, Lopez-Longo FJ, Joven B, Carreira PE, Munoz-Fernandez S, Maldonado-Romero V, Larena-Grijalba C, Cubas IL, Muriel ET, Mateos CB, de la Pena Lefebvre PG, Gomez-Gomez A, Nogal LB, Perez A, Almodovar R, Lojo L, Ruiz-Gutierrez L, Lopez-Robledo JC, Garcia de Yebenes MJ, Nuno-Nuno L. Long-term pulmonary outcomes and mortality in idiopathic inflammatory myopathies associated with interstitial lung disease. Clinical Rheumatology. 2019; 38(3): 803-15. IF: 2.293 - Article.

Title: Lopez-Mejias R, Carmona FD, Genre F, Remuzgo-Martinez S, Gonzalez-Juanatey C, Corrales A, Vicente EF, Pulito-Cueto V, Miranda-Filloy JA, Huaranga MAR, Blanco R, Robustillo-Villarino M, Rodriguez-Carrio J, Alperio-Lopez M, Alegre-Sancho JJ, Mijares V, Lera-Gomez L, Perez-Pampin E, Gonzalez A, Ortega-Castro R, Lopez-Pedrera C, Vivar MLG, Gomez-Arango C, Raya E, Narvaez J, Balsa A, Lopez-Longo FJ, Carreira P, Gonzalez-Alvaro I, Rodriguez-Rodriguez L, Fernandez-Gutierrez B, Ferraz-Amaro I, Gualillo O, Castaneda S, Martin J, Llorca J, Gonzalez-Gay MA. Identification of a 3'-Untranslated Genetic Variant of RARB Associated With Carotid Intima-Media Thickness in Rheumatoid Arthritis: A Genome-Wide Association Study. Arthritis & Rheumatology. 2019; 71(3): 351-60. IF: 9.002 - Article.

Title: Cohen S, Pablos JL, Pavelka K, Muller GA, Matsumoto A, Kivitz A, Wang H, Krishnan E. An open-label extension study to demonstrate long-term safety and efficacy of ABP 501 in patients with rheumatoid arthritis. Arthritis Research & Therapy. 2019; 21(1): 84. IF: 4.148 - Article.

Title: Gonzalez-Alvaro I, Castrejon I, Carmona L, Dougados M, Huizinga T, Abu Shakra M, Alberts A, Lopez MA, Amital H, Aringer M, Aslanidis S, Berenbaum F, Bijlsma H, Garcia FJB, Bliddal H, Borofsky M, Brocq O, Buidakov S, Cantini F, Perez LC, Chahade W, Ciconelli R, Codreanu C, Dahlqvist SR, Damjanov N, Diamantopoulos A, Dimdina L, Dimic A, Dorokhov A, Dubikov A, Fadienko G, Fano N, Ferreira G, Gabrielli A, Gaffney K, Gaudin P, Gerlag DM, Gerli R, Goncalves CR, Hansen MS, Hanivadhanakul P, Hoili C, Hou A, Hunter J, Illic T, Ionescu R, Kaine J, Kakurina N, Kamalova R, Kelly T, Knyazeva L, Krumina L, Kurthen R, Lagrone RP, Lapadula G, Lavrentjevs V, Lawson JG, Lazic Z,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



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▪ Herrero-Fernandez B, Gomez-Bris R, Somovilla-Crespo B, Gonzalez-Granado JM. Immunobiology of Atherosclerosis: A Complex Net of Interactions. *International Journal of Molecular Sciences*. 2019; 20(21): 5293. IF: 4.183 - Review.

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Theses Defended or Directed on the Group

- **Candidate:** Raquel Toribio Fernández
Title: Biological and pathological role of A-type lamins in T-cell mediated immune response
Director/s: José Mª González Granado
Date Defended: 18/01/2019
University: Universidad Autónoma de Madrid
International Mention: Yes

End Master Investigations Directed on the Group

- **Student:** Lorena A. López López
Title: Regulación del fenotipo secretor asociado a senescencia (SASP) por el catabolismo del triptófano en fibroblastos sinoviales
Director: Gabriel Criado Carrasco
Master: Master en Investigación en Inmunología (UCM)
- **Student:** Carolina Meroño Ortega
Title: TFAM knock-out skin fibroblasts: an ex vivo model of mitochondrial dysfunction
Directors: José Luis Pablos Álvarez y Manuel J. del Rey Cerros.
Master: Máster en Biomedicina Molecular, Universidad Autónoma de Madrid
- **Student:** María Ahijón Lana
Title: Factores implicados en la adherencia al tratamiento de los pacientes con artritis reumatoide
Director: Patricia Esmeralda Carreira Delgado
Master: Máster SER en Enfermedades Reumáticas mediadas por el Sistema Inmune (2017-2019)

- **Student:** Paula Virginia García Morales
Title: Mortalidad y causas de muerte en la Esclerosis sistémica
Director: Patricia Esmeralda Carreira Delgado
Master: Máster SER en Enfermedades Reumáticas mediadas por el Sistema Inmune (2017-2019)
- **Student:** Miriam Retuerto Guerrero
Title: Esclerosis sistémica: aterosclerosis subclínica y morbilidad
Director: Patricia Esmeralda Carreira Delgado
Master: Máster SER en Enfermedades Reumáticas mediadas por el Sistema Inmune (2017-2019)

- **Student:** Álvaro García Martos
Title: Comparación de las características ecográficas de los tendones en pacientes con esclerodermia difusa precoz y tardía
Director: Patricia Esmeralda Carreira Delgado

Master: Máster SER en Enfermedades Reumáticas mediadas por el Sistema Inmune (2017-2019)

- **Student:** Elena Rabadán Rubio
Title: Comportamiento de los nuevos criterios EULAR/ACR 2017 de clasificación de miopatías inflamatorias y sus principales subgrupos en la cohorte REMICAM
Director: Patricia Esmeralda Carreira Delgado
Master: Máster SER en Enfermedades Reumáticas mediadas por el Sistema Inmune (2017-2019)

End Graduated Investigations Directed on the Group

- **Students:** Leticia Torres Iñiguez, Yahovi Akakpo, Juan Francisco Montiel
Title: ¿Son útiles los inmunosupresores en la esclerosis sistémica?
Director: Patricia Esmeralda Carreira Delgado
Degree: Grado de Medicina (UCM)
- **Students:** Sergio Barrero y Rubén Castilla
Title: Aspiración de cuerpos extraños en una unidad de referencia
Director: Juan Luis Antón-Pacheco Sánchez
Degree: Grado de Medicina (UCM)

Prizes and Awards

- Distinción como socio de Honor de la Asociación Española de Enfermedades Pediátricas Obstructivas de la Vía Aérea Central, que pertenece a la asociación FEDER (enfermedades raras) - Dr. Juan Luis Antón-Pacheco Sánchez.

Patents

- **Title:** Nanocapsule compositions for the control released of agents of therapeutic interest.
Inventors: Pablo Luis Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, Mª Rocío Villegas Díaz, Alejandro Baeza García.
Owners: Universidad Complutense de Madrid (60%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (40%).
PCT extension application No.: PCT/EP2019/050425.
Date of application: 09/01/2019
- **Title:** Nanopartículas que Vehiculan la Colagenasa.
Number: EP18382005.9.
Type: European patent.
Inventors: Pablo Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, María Rocío Villegas Díaz, Alejandro Baeza García.
Owners: Fundación i+12 (40%), UCM (60%).
Date of application: 09/02/2018



LYMPHOCYTE IMMUNOBIOLOGY

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Regueiro González-Barros, José Ramón (R4)

Aguilar Sopeña, Oscar - Predoctoral Researcher (R1)
Alegre Gómez, Sergio - Predoctoral Researcher (R1)
Amaros Pérez, Beatriz - Predoctoral Researcher (R1)
Briones Contreras, Alejandro - Predoctoral Researcher (R1)
Cabañas Gutierrez, Carlos - Doctoral Researcher (R4)
Cárdenas Mastrascusa, Paula Patricia - Postdoctoral Researcher (R2)
Chaobo, Chen - Predoctoral Researcher (R1)
Chaparro García, Rebeca - Predoctoral Researcher (R1)
Cook Nugent, Emma Claire - Postdoctoral Researcher (R2)
Curz Adalia, Aranzazu - Doctoral Researcher (R3)
Cubero Palero, Francisco Javier - Doctoral Researcher (R3)
Fernández Malavé, Edgar Gonzalo - Doctoral Researcher (R4)
Fernández Megino, Rebeca - Predoctoral Researcher (R1)
García-Yébenes Mena, Virginia - Doctoral Researcher (R3)
Goicoechea de Jorge, Elena - Doctoral Researcher (R3)
Gómez del Moral, Manuel Mª - Doctoral Researcher (R3)
Gómez Perosanz, Marta - Predoctoral Researcher (R1)
Gutiérrez Tenorio, Josué - Predoctoral Researcher (R1)
Hao, Fengjie - Predoctoral Researcher (R1)

Hernández García, Elena - Predoctoral Researcher (R1)
Iborra Martín, Salvador - Doctoral Researcher (R3)
Jiménez Reinoso, Anais - Postdoctoral Researcher (R2)
Lafuente Duarte, Mª Esther - Doctoral Researcher (R3)
Lamas Paz, Arantza - Predoctoral Researcher (R1)
Lucientes Continente, Laura - Predoctoral Researcher (R1)
Marín Marín, Ana Victoria - Predoctoral Researcher (R1)
Martín Adriados, Beatriz - Predoctoral Researcher (R1)
Martínez Naves, Eduardo - Doctoral Researcher (R4)
Medrano García, Sandra - Predoctoral Researcher (R1)
Reche Gallardo, Pedro Antonio - Doctoral Researcher (R4)
Recio Hoyas, Mª José - Postdoctoral Researcher (R2)
Redondo Muñoz, Javier - Doctoral Researcher (R3)
Roda Navarro, Pedro - Doctoral Researcher (R4)
Sánchez-Trincado López, José Luis - Predoctoral Researcher (R1)
Torres Gómez, Álvaro - Predoctoral Researcher (R1)
Tortajada Alonso, Agustín - Postdoctoral Researcher (R2)
Ye, Hui - Predoctoral Researcher (R1)
Zheng, Kang - Predoctoral Researcher (R1)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Descifrando nuevas funciones de cambios epigenéticos inducidos por las interacciones célula-matriz que controlan la migración celular y la diseminación de la leucemia.

Principal Investigator: Javier Redondo Muñoz

Project No.: SAF2017-86327-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Organismo Gestor: Fundación General UCM

Start date: 2017

End date: 2020

- Title:** Mecanismos reguladores y función de las fosfatasas de especificidad dual en la respuesta inmunológica de los linfocitos T.

Principal Investigator: Pedro Roda Navarro

Project No.: SAF2016-75656-P

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Organismo Gestor: Fundación General UCM

Start date: 30/12/2016

End date: 29/12/2020

- Title:** ATTACK- Inmunoterapia del cáncer mediante anticuerpos biespecíficos que reclutan linfocitos T.

Principal Investigator: Pedro Roda Navarro

Project No.: RTC-2015-3805-1

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Organismo Gestor: Fundación General UCM

Start date: 01/07/2018

End date: 31/12/2020

- Title:** NUCLEUX MADRID-CM.
Project No.: Y2018/BIO-5207

Principal Investigators: Francisco Monroy y Javier Redondo Muñoz

Funding Body: Comunidad de Madrid

Start date: 2018

End date: 2021

- Title:** Gilead science scholarship in Hematology/Oncology.
Project No.: Gilead Science

Principal Investigator: Javier Redondo Muñoz

Funding Body: Gilead (USA)

Start date: 2017

End date: 2020

- Title:** "Regulación funcional de integrinas y otras moléculas de adhesión de leucocitos y células tumorales y su relevancia en unión, fusión y captación de exosomas".

Project No.: SAF2016-77096-R

Principal Investigator: Carlos Cabañas Gutiérrez

Funding Body: Ministerio de Economía, Industria y Competitividad

Start date: 30/12/2016

End date: 29/12/2020

- Title:** Innate lymphoid cells.

Project No.: RYC-2017-21837

Principal Investigator: Aránzazu Cruz Adalia

Funding Body: MINECO

Start date: 01/01/2019

End date: 31/12/2023

- Title:** Control of metabolic and molecular regulation mediated by HIF-1α in innate lymphoid cells.

Project No.: RTI2018-093647-B-I00

Principal Investigator: Aránzazu Cruz Adalia

Funding Body: MINECO

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Impacto de las células linfoides innatas en la fisiopatología de las enfermedades.

Project No.: EIN2019-103067

Principal Investigator: Aránzazu Cruz Adalia

Funding Body: MINECO

Start date: 01/09/2019

End date: 31/12/2020

- Title:** Iberoamerican Consortium for the Study of Liver Cirrhosis: A new Avenue for Therapeutics.

Project No.: UCM-25-2019

Principal Investigator: Francisco Javier Cubero Palero

Funding Body: Ministerio de Economía, Industria y Competitividad

Star date: 01/09/2019

End date: 31/03/2021

- Title:** Dissecting the activation of liver-generated microglia and neuroinflammation during alcohol misuse.

Project No.: ERAB EA1814

Principal Investigator: Francisco Javier Cubero Palero

Funding Body: European Foundation for Alcohol Research

Star date: 01/01/2019

End date: 31/12/2021

- Title:** Interdependence of oxidative stress and inflammation during chronic liver injury: a novel tool for theranostics.

Project No.: Gilead 44/2018

Principal Investigator: Francisco Javier Cubero Palero

Funding Body: Gilead

Star date: 01/06/2018

End date: 31/05/2020

- Title:** The role of ER stress and JNK in chronic liver disease.

Project No.: MINECO RETOS; SAF2016-78711

Entidad participante: Universidad Complutense de Madrid

Principal Investigator: Francisco Javier Cubero Palero and Eduardo Martínez-Naves

Presupuesto: 170.000,00 Euros

Star date: 01/01/2017

End date: 31/12/2020

- Title:** Lymphocyte integration of TCR and complement cues.

Project No.: MINECO RETOS; RTI2018-095673-B-I00

Participating body: Universidad Complutense de Madrid

Principal Investigators: Fernández Malavé E, Regueiro, JR

Star date: 01/01/2019

End date: 31/12/2021

- Title:** Optimización del complejo silicio mesoporoso-ca10 (msmp-ca10) como vacuna antineoplásica.

Project No.: IND2017/BMD-7684

Principal Investigator: Manuel Gómez del Moral Martín

Funding Body: CAM (Comunidad Autónoma de Madrid)

Star date: 10/01/2018

End date: 10/01/2021

- Title:** Crosstalk between Dendritic Cells and Lymphocytes in tissues and its physiopathological consequences.

Project No.: RTI2018-094484-B-I00

Principal Investigator: Salvador Iborra Martín

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Star date: 01/01/2019

End date: 31/12/2021



▪ **Title:** Descifrando las bases moleculares de enfermedades renales mediadas por el complemento.

Project No.: RTI2018-095955-B-I00

Principal Investigator: Elena Goicoechea de Jorge

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Descifrando las bases moleculares de enfermedades renales mediadas por el complemento.

Principal Investigator: Elena Goicoechea de Jorge

Funding Body: Fundación Inocente Inocente

Start date: 15/11/2017

End date: 15/10/2019

▪ **Title:** Análisis Bioinformático de la inmunogenicidad de contaminantes.

Project No.: 425-2019

Principal Investigator: Pedro A Reche

Funding Body: Art.83 Atreza

Start date: 30/09/2019

End date: 31/12/2020

▪ **Title:** Identificación de parámetros de inducción de tolerancia inmunitaria en el tratamiento de la alergia a ácaros y gramíneas con nuevas vacunas de conjugados.

Project No.: 144/2018

Principal Investigator: Pedro A Reche

Funding Body: Art.83 Inmunotek

Start date: 01/01/2018

End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	14	140.346
Reviews	5	23.449
Editorials	2	10.176
TOTAL	21	173.971
Letters	1	14.110
TOTAL	22	188.081

▪ Roda-Navarro P, Alvarez-Vallina L. Understanding the Spatial Topology of Artificial Immunological Synapses Assembled in T Cell-Redirecting Strategies: A Major Issue in Cancer Immunotherapy. *Frontiers in Cell and*

Developmental Biology. 2019; 7: 370. IF: 5.206 - Article.

▪ Recio MJ, Dominguez-Pinilla N, Perrig MS, Rodriguez Vigil-Iturrate C, Salmon-Rodriguez N, Martinez Faci C, Castro-Panete MJ, Blas-Espada J, Lopez-Nevadoz M, Ruiz-Garcia R, Chaparro-Garcia R, Allende LM, Gonzalez-Granado LI. Extreme Phenotypes With Identical Mutations: Two Patients With Same Non-sense NHEJ1 Homozygous Mutation. *Frontiers in Immunology*. 2019; 9: 2959. IF: 4.716 - Article.

▪ Mannaerts I, Thoen LFR, Eysackers N, Cubero FJ, Leite SB, Coldham I, Colle I, Trautwein C, van Grunsven LA. Unfolded protein response is an early, non-critical event during hepatic stellate cell activation. *Cell Death & Disease*. 2019; 10: 98. IF: 5.959 - Article.

▪ Cubero FJ, Woitok MM, Zoubek ME, de Bruin A, Hatting M, Trautwein C. Disruption of the FasL/Fas axis protects against inflammation-derived tumorigenesis in chronic liver disease. *Cell Death & Disease*. 2019; 10: 115. IF: 5.959 - Article.

▪ Bustos-Moran E, Blas-Rus N, Alcaraz-Serna A, Iborra S, Gonzalez-Martinez J, Malumbres M, Sanchez-Madrid F. Aurora A controls CD8(+) T cell cytotoxic activity and antiviral response. *Scientific Reports*. 2019; 9: 2211. IF: 4.011 - Article.

▪ Martinez-Lopez M, Iborra S, Conde-Garrosa R, Mastrangelo A, Danne C, Mann ER, Reid DM, Gaboriau-Routhiau V, Chaparro M, Lorenzo MP, Minnerup L, Saz-Leal P, Slack E, Kemp B, Gibsrt JP, Dzinek A, Robinson MJ, Ruperez FJ, Cerf-Bensussan N, Brown GD, Bernardo D, LeibundGut-Landmann S, Sancho D. Microbiota Sensing by Mincle-Syk Axis in Dendritic Cells Regulates Interleukin-17 and -22 Production and Promotes Intestinal Barrier Integrity. *Immunity*. 2019; 50(2). IF: 21.522 - Article.

▪ Guevara-Hoyer K, Gil C, Parker AR, Williams LJ, Orte C, de la Pena AR, Ochoa-Grullon J, De Frias ER, Garcia IS, Garcia-Gomez S, Recio MJ, Fernandez-Arquero M, de Diego RP, Ramos JT, Sanchez-Ramon S. Measurement of Typhim Vi IgG as a Diagnostic Tool to Determine Anti-polysaccharide Antibody Production Deficiency in Children. *Frontiers in Immunology*. 2019; 10: 654. IF: 4.716 - Article.

▪ Tomas-Loba A, Manieri E, Gonzalez-Teran B, Mora A, Leiva-Vega L, Santamans AM, Romero-Becerra R, Rodriguez E, Pintor-Chocano A, Feixas F, Lopez JA, Caballero B, Trakala M, Blanco O, Torres JL, Hernandez-Cosido L, Montalvo-Romeral V, Matesanz N, Roche-Molina M, Bernal JA, Mischo H, Leon M, Caballero A, Miranda-Saavedra D, Ruiz-Cabello J, Nevzorova YA, Cubero FJ, Bravo J, Vazquez J, Malumbres M, Marcos M, Osuna S, Sabio G. p38 gamma is essential for cell cycle progression and liver tumorigenesis. *Nature*. 2019; 568(7753): 557-60. IF: 43.070 - Article.

▪ Manieri E, Herrera-Melle L, Mora A, Tomas-Loba A, Leiva-Vega L, Fernandez DI, Rodriguez L, Moran L, Hernandez-Cosido L, Torres JL, Seoane LM, Cubero FJ, Marcos M, Sabio G. Adiponectin accounts for gender differences

in hepatocellular carcinoma incidence. *Journal of Experimental Medicine*. 2019; 216(5): 1108-19. IF: 10.892 - Article.

▪ Madhuri PL, Martin-Palma RJ, Martin-Adrados B, Abdulhalim I. Voltage controlled scattering from porous silicon Mie-particles in liquid crystals. *Journal of Molecular Liquids*. 2019; 281: 108-16. IF: 4.561 - Article.

▪ Molero-Abraham M, Sanchez-Trincado JL, Gomez-Perez M, Torres-Gomez A, Subiza JL, Lafuente EM, Reche PA. Human Oral Epithelial Cells Impair Bacteria-Mediated Maturation of Dendritic Cells and Render T Cells Unresponsive to Stimulation. *Frontiers in Immunology*. 2019; 10: 1434. IF: 4.716 - Article.

▪ Toribio V, Morales S, Lopez-Martin S, Cardeñes B, Cabañas C, Yáñez-Mó M. Development of a quantitative method to measure EV uptake. *Scientific Reports*. 2019; 9(1): 10522. IF: 4.011 - Article.

▪ Liao LJ, Schneider KM, Galvez EJC, Frissen M, Marschall HU, Su H, Hatting M, Wahlstrom A, Haybaeck J, Puchas P, Mohs A, Peng J, Bergheim I, Nier A, Hennings J, Reissig J, Zimmermann HW, Longerich T, Strowig T, Liedtke C, Cubero FJ, Trautwein C. Intestinal dysbiosis augments liver disease progression via NLRP3 in a murine model of primary sclerosing cholangitis. *Gut*. 2019; 68(8): 1477-92. IF: 17.943 - Article.

▪ Tortajada A, Gutierrez E, Pickering MC, Praga Terente M, Medjeral-Thomas N. The role of complement in IgA nephropathy. *Molecular Immunology*. 2019; 114: 123-32. IF: 3.064 - Article.

▪ Marin AV, Cardenas PP, Jimenez-Reinoso A, Munoz-Ruiz M, Regueiro JR. Lymphocyte integration of complement cues. *Seminars in Cell & Developmental Biology*. 2019; 85: 132-42. IF: 5.460 - Review.

▪ Lopez-Lera A, Corvillo F, Nozal P, Regueiro JR, Sanchez-Corral P, Lopez-Trascasa M. Complement as a diagnostic tool in immunopathology. *Seminars in Cell & Developmental Biology*. 2019; 85: 86-97. IF: 5.460 - Review.

▪ Dreger M, Madrazo E, Hurlstone A, Redondo-Munoz J. Novel contribution of epigenetic changes to nuclear dynamics. *Nucleus*. 2019; 10(1): 42-7. IF: 2.157 - Review.

▪ Redondo-Munoz J, Garcia-Pardo A, Teixido J. Molecular Players in Hematologic Tumor Cell Trafficking. *Frontiers in Immunology*. 2019; 10: 156. IF: 4.716 - Review.

▪ Chen CB, Nelson LJ, Avila MA, Cubero FJ. Mitogen-Activated Protein Kinases (MAPKs) and Cholangiocarcinoma: The Missing Link. *Cells*. 2019; 8(10): 1172. IF: 5.656 - Review.

▪ Regueiro JR, Fernandez FJ, Vega MC. Complement in leucocyte development and function. *Seminars in Cell & Developmental Biology*. 2019; 85: 84-5. IF: 5.460 - Editorial Material.

▪ Cabañas C, Yáñez-Mó M, van Spriel, AB. Editorial: Functional Relevance of

Tetraspanins in the Immune System. *Frontiers in Immunology*. 2019; 10: 1714. IF: 4.716 - Editorial Material.

▪ Garcia-Gomez S, Chaparro R, Safa A, Van den Rym A, Martinez-Barricarte R, Lorenzo L, Sanchez-Ramon S, Toledano V, Cubillos-Zapata C, Lopez-Collazo E, Martin-Arranz MD, Martin-Arranz E, Vela M, Gonzalez-Navarro P, Perez-Martinez A, Casanova JL, Recio MJ, de Diego RP. Double-strand break repair through homologous recombination in autosomal-recessive BCL10 deficiency. *Journal of Allergy and Clinical Immunology*. 2019; 143(5). IF: 14.110 - Letter.

Theses Defended or Directed on the Group

▪ **Candidate:** Mohamed Ramadan Mohamed

Title: Role of the JNK genes for disease progression in the NEMO model

Director/s: Christian Trautwein Francisco Javier Cubero

Date Defended: 24/09/2019

University: RWTH Aachen

International Mention: No

▪ **Candidate:** Alejandro Briones Contreras

Title: Modelos celulares de inmunodeficiencias congénitas de linfocitos T: aplicación a estudios de expresión y señalización

Director/s: José Ramón Regueiro, Paula Cárdenas M

Date Defended: 26/11/2019

University: Universidad Complutense de Madrid

International Mention: No

End Master Investigations Directed on the Group

▪ **Student:** Matías Estarás Hermosel

Title: Experimental evidences of the interaction between Phosphatase of Regenerating Liver 1 (PRL-1) and WD40 repeat domain protein 1 (WDR1)

Director: Pedro Roda Navarro

Master: Máster de investigación en Inmunología (UCM)

▪ **Student:** Alcibiades García Guerra

Title: Expresión y distribución a la sinapsis inmunitaria de la fosfatasa SSH-1 durante la activación del linfocito T

Director: Pedro Roda Navarro

Master: Máster de investigación (UCM)

▪ **Student:** Celso Yáñez Gómez

Title: Caracterización de los efectos de la inhibición de LSD1 en células leucémicas

Director: Javier Redondo Muñoz



Master: Máster de investigación en Inmunología (UCM)

▪ **Student:** Ester Díez Sainz

Title: Efecto de los exosomas derivados de células tumorales de cáncer de ovario sobre la proliferación y migración endotelial

Director: Carlos Cabañas Gutiérrez

Master: Máster en Genética y Biología Molecular (UAM)

▪ **Student:** Ana Valle Noguera.

Title: Role of HIF-1a in innate lymphoid cells during Citrobacter rodentium-induced colitis

Director: Aranzazu Cruz Adalia

Master: Máster en Investigación en Inmunología (UCM)

▪ **Student:** Nuria López Alcántara

Title: Interdependencia del estrés oxidativo y la respuesta inflamatoria en la enfermedad hepática crónica: Una nueva terapia teranótica

Director: Francisco Javier Cubero Palero

Master: Máster en Investigación en Inmunología (UCM)

▪ **Student:** Raquel Benedé Ubieto

Title: Efectos cumulativos del alcohol y la dieta grasa en el desarrollo de la enfermedad hepática crónica

Directors: Yulia A. Nevzorova y Francisco Javier Cubero Palero

Master: Máster Nutrición Humana y Dietética Aplicada (UCM)

▪ **Student:** Óscar Sabuz Vidal

Title: Avances en el estudio de variantes en el residuo p.735R del componente C3 asociadas con patología

Director: Agustín Tortajada Alonso

Master: Máster en Investigación en Inmunología (UCM)

▪ **Student:** Rebeca Fernández Megino

Title: Cells deficient in membrane complement regulators CD46 and/or CD55+CD59 as biosensors of dysfunctional complement sera

Directors: José Ramón Regueiro y Anaís Jiménez Reinoso

Master: Máster en Biomedicina Molecular (UAM)

▪ **Student:** Ignacio Boixo Merchant

Title: Identificación de mediadores de la inflamación intestinal asociada a estrés de retículo endoplásmico

Directors: Eduardo Martínez Naves y Manuel Gómez del Moral Martín

Master: Máster Análisis Sanitarios, de la Facultad de Farmacia (UCM)

▪ **Student:** Mónica Quirzo Albiño

Title: Computational Assembly of a Human Cytomegalovirus Vaccine Upon Experimental Epitope Legacy

Director: Pedro A Reche

Master: Máster en Investigación en Inmunología (UCM)

End Graduated Investigations Directed on the Group

▪ **Student:** Carmen Berges Herranz

Title: Efecto de la Glutamina en la fagocitosis dependiente de receptores del complemento

Director: Esther Lafuente Duarte

Degree: Grado Nutrición Humana y Dietética (UCM)

▪ **Student:** Sara Faress

Title: La suplementación con Glutamina induce la agrupación de receptores fagocíticos del complemento

Director: Esther Lafuente Duarte

Degree: Grado Nutrición Humana y Dietética (UCM)

▪ **Student:** Sofía El Fennane Fahim

Title: ¿Qué prebióticos parecen producir mejoras clínicas en pacientes con enfermedad de Crohn y Colitis ulcerosa?

Director: Esther Lafuente Duarte

Degree: Grado Nutrición Humana y Dietética (UCM)

▪ **Student:** Ángela San Román

Title: Impact of N-Ras inhibition on T-cell activation and Treg induction

Director: Edgar Fernández Malavé

Degree: Grado en Bioquímica (UCM)

▪ **Student:** Ana Redondo Urzainqui

Title: Estudio del papel de las células dendríticas convencionales de tipo 1 en el tejido adiposo visceral

Director: Salvador Iborra Martín

Degree: Grado en Biología Sanitaria. Universidad de Alcalá

▪ **Student:** Sara Charro Zanca

Title: Reactivación de linfocitos Tc de memoria residente en leishmaniasis cutánea

Director: Salvador Iborra Martín

Degree: Grado en Bioquímica (UCM)

▪ **Student:** Héctor Fernando Peláez Prestel

Title: Condicionamiento de la respuesta inmunitaria por las células epiteliales

Director: Pedro A Reche

Degree: Grado de Bioquímica (UCM)

Communication

▪ Number of press releases disseminated: 2

▪ Number of news published in the written press: 2 (Tribuna Complutense, La Vanguardia)

▪ News published in other audiovisual media (radio, TV): 1 (Radio: Libertad FM)

IMMUNODEFICIENCIES AND IMMUNOLOGY OF TRANSPLANTS

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Paz Artal, Estela (R4)

Allende Martínez, Luis Miguel - Doctoral Researcher (R4)
 Baro Fernández, María - Postdoctoral Researcher (R2)
 Blas Espada, Javier - Predoctoral Researcher (R1)
 Castro Panete, Mª José - Doctoral Researcher (R3)
 Domínguez Pinilla, Nerea - Collaborator
 Gómez Massa, Elena - Predoctoral Researcher (R1)
 González Granado, Luis Ignacio - Clinical Researcher
 Guerra García, Mª Pilar - Predoctoral Researcher (R1)
 Guerra Vales, Juan Manuel - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	AECC	1
Non Competitive	Various	4
TOTAL		7

Title: Modulación de la respuesta inmune humoral frente al trasplante renal por células T cooperadoras foliculares (TFH).

Principal Investigator: Estela Paz Artal

Project No.: PI18/00969

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

Title: Caracterización molecular de pacientes con inmunodeficiencia primaria mediante la utilización de la secuenciación del exoma completo y su repercusión funcional.

Principal Investigator: Luis Miguel Allende Martínez

Project No.: PI16/02053

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

Laguna Goya, Rocío - Postdoctoral Researcher (R2)
 Lasa Lázaro, María - Bachelor Researcher
 López Nebado, Marta - Predoctoral Researcher (R1)
 Mancebo Sierra, Mª Esther - Doctoral Researcher (R3)
 Pérez Alonso, Vanesa - Postdoctoral Researcher (R2)
 Ruiz Contreras, Jesús - Doctoral Researcher (R3)
 Talayero Giménez de Azcárate, Paloma - Postdoctoral Researcher (R2)
 Utrero Rico, Alberto - Predoctoral Researcher (R1)
 Vivanco Martínez, José Luis - Doctoral Researcher (R3)

Title: Targeting de CD25 en MDSC: ¿posibilidad terapéutica para el cáncer?

Principal Investigator: Estela Paz Artal

Funding Body: Fundación Científica de la Asociación Española Contra el Cáncer (AECC)

Start date: 01/07/2017

End date: 30/06/2019

Title: Cuantificación y evaluación funcional de células TFH (cooperadoras foliculares) y BREG (B Reguladoras) en el receptor renal: relación con la evolución del injerto.

Principal Investigator: Estela Paz Artal

Funding Body: Sociedad Madrileña de Trasplantes

Start date: 25/05/2017

End date: 24/05/2020

Title: Valuación in vitro de la validez y reproducibilidad inter-centro e inter-muestra en la determinación con el inmunobiograma de los patrones de sensibilidad/resistencia a la terapia inmunosupresora en pacientes con trasplante renal.

Principal Investigator: Mª Esther Mancebo Sierra

Funding Body: Fundacion General de Investigacion de la Sociedad Madrileña de Trasplante

Start date: 27/07/2019

End date: 01/08/2020

Title: cribado neonatal de inmunodeficiencia combinada grave mediante determinación de trecs (T-cell receptor excision circles) en tarjeta de Guthrie.

Principal Investigator: Luis Ignacio González Granado

Funding Body: Roche Diagnostics, S.L.U.

Start date: 31/02/2017

End date: 31/12/2018, extended to 31/08/2019

Title: Caracterización molecular de pacientes con inmunodeficiencia variable común: hacia una medicina personalizada.

Principal Investigator: Luis Ignacio González Granado

Funding Body: CSL Behring, S.A.

Start date: 25/05/2016

End date: 26/05/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	23	87.173
Reviews	3	8.091
Editorials	1	1.166
TOTAL	27	96.430
Letters	2	6.372
TOTAL	29	102.802

Mensa-Vilaro A, Garcia-Morato MB, de la Calle-Martín O, Franco-Jarava C, Martinez-Saavedra MT, Gonzalez-Granado LI, Gonzalez-Roca E, Fuster JL, Alsina L, Mutchinick OM, Balderrama-Rodriguez A, Ramos E, Modesto C, Mesa-Del-Castillo P, Ortego-Centeno N, Clemente D, Souto A, Palmou N, Remesal A, Leslie KS, Gomez de la Fuente E, Bravo Gallego LY, Campistol JM, Dhoubi NG, Bejaoui M, Dutra LA, Terreri MT, Mosquera C, Gonzalez T, Canellas J, Garcia-Ruiz de Morales JM, Wouters CH, Bosque MT, Cham WT, Jimenez-Trevino S, de Inocencio J, Bloomfield M, Perez de Diego R, Martinez-Pomar N, Rodriguez-Pena R, Gonzalez-Santesteban C, Soler-Palacin P, Casals F, Yague J, Allende LM, Rodriguez-Gallego JC, Colobran R, Martinez-Martinez L, Lopez-Granados E, Arostegui JI. Unexpected relevant role of gene mosaicism in patients with primary immunodeficiency diseases. *Journal of Allergy and Clinical Immunology*. 2019; 143(1): 359-68. IF: 14. 11 - Article.

Cano-Romero FL, Laguna Goya R, Utrero-Rico A, Gomez-Massa E, Arroyo-Sanchez D, Suarez-Fernandez P, Lora D, Andres A, Castro-Panete MJ, Paz-Artal E. Longitudinal profile of circulating T follicular helper lymphocytes parallels anti-HLA sensitization in renal transplant recipients. *American Journal of Transplantation*. 2019; 19(1): 89-97. IF: 7.163 - Article.

Schutz K, Alecsandru D, Grimbacher B, Haddock J, Bruining A, Driessens G, de Vries E, van Hagen PM, Hartmann I, Fraioli F, Milito C, Mitrevski M, Quinti

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Moreno-Perez D, Alvarez Garcia FJ, Alvarez Aldean J, Cilleruelo Ortega MJ, Garces Sanchez M, Garcia Sanchez N, Hernandez Merino A, Mendez Hernandez M, Merino Moina M, Montesdeoca Melian A, Ruiz-Contreras J; Comite Asesor de Vacunas de la Asociación Española de Pediatría. Immunisation schedule of the Spanish Association of Paediatrics: 2019 recommendations. *Anales de Pediatría*. 2019; 90(1): 56.e1-56.e9. IF: 1.166 - Article.

Recio MJ, Dominguez-Pinilla N, Perrig MS, Rodriguez Vigil-Iturrate C, Salmon-Rodriguez N, Martinez Faci C, Castro-Panete MJ, Blas-Espada J, Lopez-Nevadoz M, Ruiz-Garcia R, Chaparro-Garcia R, Allende LM, Gonzalez-Granado LI. Extreme Phenotypes With Identical Mutations: Two Patients With Same Non-sense NHEJ1 Homozygous Mutation. *Frontiers in Immunology*. 2019; 9: 2959. IF: 4.716 - Article.

Gonzalez-Granado LI, Ruiz-Garcia R, Blas-Espada J, Moreno-Villares JM, German-Diaz M, Lopez-Nevado M, Paz-Artal E, Toldos O, Rodriguez-Gil Y, de Inocencio J, Dominguez-Pinilla N, Allende LM. Acquired and Innate Immunity Impairment and Severe Disseminated Mycobacterium genavense Infection in a Patient with a NF-kappa B1 Deficiency. *Frontiers in Immunology*. 2019; 9: 3148. IF: 4.716 - Article.

Mendez-Echevarria A, Luis Ignacio GG, Allende LM, Beatriz F, Teresa D, Cristina C, Antonio PM, Raquel, RG, Olaf N. Fatal *Pneumocystis jirovecii* and Cytomegalovirus Infections in an Infant With Normal TRECs Count Pitfalls of Newborn Screening for Severe Combined Immunodeficiency. *Pediatric Infectious Disease Journal*. 38(2): 157 - 160. IF: 2.317 - Article.

Aristegui Fernandez J, Gonzalez Perez-Yarza E, Mellado Pena MJ, Rodrigo Gonzalo de Liria C, Hernandez Sampelayo T, Garcia Garcia JJ, Ruiz Contreras J, Moreno Perez D, Garrote Llanos E, Ramos Amador JT, Cilla Eguiluz CG, Mendez Hernandez M, grupo de estudio HOSPIGRIP, grupo de estudio HOSPIGRIP. Child hospital admissions associated with influenza virus infection in 6 Spanish cities (2014-2016). *Anales de Pediatría*. 2019; 90(2): 86-93. IF: 1.166 - Article.

Almeida AC, Perez V, Baro M, Guerra-Garcia P, Vivanco JL. Atypical Autoimmune Hematologic Disorders in a Patient with Kabuki Syndrome. *Journal of Pediatric Hematology Oncology*. 2019; 41(2): 114-5. IF: 0.947 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



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- Picazo JJ, Ruiz-Conterras J, Casado-Flores J, Negreira S, Baquero-Artigao F, Hernandez-Sampelayo T, Otheo E, Amo MD, Mendez C; Heracles Study Group. Impact of 13-valent pneumococcal conjugate vaccination on invasive pneumococcal disease in children under 15years old in Madrid, Spain, 2007 to 2016: The HERACLES clinical surveillance study. *Vaccine*. 2019; 37(16): 2200-7. IF: 3.269 - Article.
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 - Rubio-San-Simon A, Lazaro Rodriguez I, Vazquez Gomez F, Vivanco Martinez JL, Perez Alonso V. Eficacia y seguridad en el uso del eltrombopag en un caso de aplasia medular adquirida grave. Anales de Pediatría. 2019; 90(4): 246-7. IF: 1.166 - Letter.
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Theses Defended or Directed on the Group

- Candidate:** Francisco Luis Cano Romero
Title: Linfocitos T cooperadores foliculares circulantes en trasplante renal
Director/s: Rocío Laguna Goya Estela Paz Artal
Date Defended: 15/11/2019
University: Universidad Complutense de Madrid
International Mention: No

End Master Investigations Directed on the Group

- Student:** Cecilia González Cuadrado
Title: Inmunidad entrenada en trasplante de órganos sólidos
Director: Estela Paz Artal
Master: Máster en Investigación en Inmunología, Universidad Complutense de Madrid

End Graduated Investigations Directed on the Group

- Student:** Marta Chivite Lacaba

Title: Papel de las células supresoras de estirpe mieloide en la evolución de pacientes de trasplante renal

Director: Alberto Utrero Rico
Degree: Grado en Biotecnología, Universidad Politécnica de Madrid

Student: Ana de Lope Planelles

Title: Respuesta humoral alogénica y frente a citomegalovirus en pacientes trasplantados renales

Director: Rocío Laguna Goya

Degree: Grado en Biología Sanitaria, Universidad de Alcalá

Student: Sara Posadas Cantera

Title: Cribado neonatal de inmunodeficiencia combinada grave (IDCG) mediante determinación de TRECS (T-cell receptor excision circle) en tarjeta de Guthrie

Directors: Luis M. Allende, Luis I. Gonzalez-Granado

Degree: Grado en Medicina

Students: María García Montero y María Hernández Rodríguez

Title: Impacto de la Radiografía de Tórax en el manejo de los lactantes con bronquiolitis

Director: Jesús Ruiz Contreras

Degree: Grado en Medicina

Students: David García Castellanos, Marina Lara González, Andrea Martínez López, Zhu Xiaqun Xu

Title: Evolución de la enfermedad neumocócica invasora en niños menores de 15 años tras la introducción de la vacuna neumocócica conjugada 13-valente

Director: Jesús Ruiz Contreras

Degree: Grado en Medicina

Student: Almudena Quevedo Córdoba y María Jesús Sánchez Martín

Title: Adecuación de las pruebas diagnósticas y del tratamiento en la faringitis aguda del niño

Director: Jesús Ruiz Contreras

Degree: Grado en Medicina

Students: María del Rosario Cabrera Reyes, Ana María de la Torre Sanz

Title: Eficacia de la vacuna de rotavirus en lactantes ingresados por gastroenteritis aguda

Director: Jesús Ruiz Contreras

Degree: Grado en Medicina

Patents

- Title:** ARN de interferencia para el tratamiento del síndrome linfoproliferativo autoinmune de tipo 1A.

Inventors: Estela Paz Artal, Mª Esther Mancebo Sierra.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).

Spanish Patent Application No.: P201430504.

Date of application: 04/04/2014

Communication

- Number of press releases disseminated: 1
- Number of news published in the written press: 4
- News in other audiovisual media (radio, TV): 1 (SER: program Hoy por Hoy: "Detección precoz de los niños burbuja" (13/09/2019) (Drs. Allende and Gonzalez-Granado) https://cadenaser.com/emisora/2019/09/13/ser_madrid_sur/1568376678_151249.html.



AREA 7. INFECTIOUS DISEASES AND AIDS

COORDINATOR: RAFAEL DELGADO VÁZQUEZ

Virology and HIV/AIDS

Molecular Epidemiology of Hospital and Emerging Infections

Translational Research in Leishmaniasis

Translational Research in Malaria

Infectious Pathologies

Translational Research Group on Pediatric Infectious Diseases



The Infectious Diseases and AIDS area of the Instituto i+12 covers a spectrum of activity that ranges from clinical to translational research and fundamental biology. The area is made up of consolidated groups that work mainly on (1) Clinical signs of infection in immunosuppressed and transplant patients, (2) Molecular epidemiology of hospital infection and multi-resistance, (3) HIV and AIDS, (4) Translational research in leishmaniasis and (5) host-parasite relationship in malaria.

The area makes use of the hospitalisation facilities of the Hospital Universitario 12 de Octubre, and has a platform for carrying out clinical trials and a laboratory infrastructure that allows complex problems to be tackled with advanced techniques in immunology, as well as molecular and cellular biology and genomics.

Objectives set in the area

- Encourage the request of human resources - pre- and especially post-doctoral researchers with the capacity to develop independent research, who participate in the development of research projects among the groups of the area.
- Maintaining the current level of funding from national programmes and increasing funding through (1) European funds: H2020 framework programmes, ERC, IMI and (2) industry partnerships.
 - Improve investment in high-cost analytical instrumentation technology to be individually funded (cytometry, ultracentrifugation) and bio-informatics (Software and support for NGS along with the incorporation of a bioinformatics specialist in microbial genomics).
 - Increase the scientific production of collaborative works with own main authorship and to initiate the activity of proposals of patents of procedures for diagnostic or pathogenic studies related to the activity of the group.

List of the five most relevant publications of the Infectious Diseases and AIDS Area during 2019

The following are the 5 most relevant publications in the Infectious Diseases and AIDS Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. **Fernandez-Ruiz M, Albert E, Gimenez E, Ruiz-Merlo T, Parra P, Lopez-Medrano F, San Juan R, Polanco N, Andres A, Navarro D, Aguado JM.** Monitoring of alphavirus DNA levels for the prediction of immunosuppression-related complications after kidney transplantation. *American Journal of Transplantation*. 2019; 19(4): 1139-49. IF: 7.338 - D1 - Article.
2. **Fernandez-Ruiz M, Gimenez E, Vinuesa V, Ruiz-Merlo T, Parra P, Amat P, Montejo M, Paez-Vega A, Cantisan S, Torre-Cisneros J, Fortun J, Andres A, San Juan R, Lopez-Medrano F, Navarro D, Aguado JM;** Group for Study of Infection in Transplantation of the Spanish Society of Infect. Regular monitoring of cytomegalovirus-specific cell-mediated immunity in intermediate-risk kidney transplant recipients: predictive value of the immediate post-transplant assessment. *Clinical Microbiology and Infection*. 2019; 25(3): 381.e1. IF: 7.117 - D1 - Article.
3. **Ramos-Soriano J, Reina JJ, Illescas BM, de la Cruz N, Rodriguez-Perez L, Lasala F, Rojo J, Delgado R, Martin N.** Synthesis of Highly Efficient Multivalent Disaccharide/[60]Fullerene Nanoballs for Emergent Viruses. *Journal of the American Chemical Society*. 2019; 141(38): 15403-12. IF: 14.612 - D1 - Article.
4. **Recio R, Melendez-Carmona MA, Martin-Higuera MC, Perez V, Lopez E, Lopez-Medrano F, Perez-Ayala A.** Trichoderma longibrachiatum: an unusual pathogen of fungal pericarditis. *Clinical Microbiology and Infection*. 2019; 25(5): 586-7. IF: 7.117 - D1 - Article.
5. **Jimenez-Anton MD, Grau M, Corral MJ, Olias-Molero AI, Alunda JM.** Efficient infection of hamster with Leishmania donovani by retro-orbital inoculation. *Virulence*. 2019; 10(1): 711-8. IF: 5.542 - D1 - Article.

VIROLOGY AND HIV/AIDS

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Delgado Vázquez, Rafael (R4)

Aranguren Rivas, Paula - Bachelor Researcher
 Bermejo Plaza, Laura - Bachelor Researcher
 Bisbal Pardo, Otilia - Bachelor Researcher
 Calonge Sanz, Inés - Bachelor Researcher
 Domínguez Domínguez, Lourdes - Clinical Researcher
 Folgueira López, Mª Dolores - Doctoral Researcher (R4)
 García Álvarez, Mónica - Doctoral Researcher (R4)
 Gutiérrez Cueto, Francisca - Support Technician
 Hernando Jerez, Asunción - Doctoral Researcher (R3)
 Labiod Becerro, Nuria - Bachelor Researcher

Lasala Sánchez, Fátima - Postdoctoral Researcher (R2)
 López Caballero, Mª Teresa - Clinical Researcher
 Pérez Rivilla, José Alfredo - Clinical Researcher
 Pulido Ortega, Federico - Doctoral Researcher (R4)
 Rial Crestelo, David - Clinical Researcher
 Rubio García, Rafael - Postdoctoral Researcher (R2)
 Santacreu Guerrero, Mireia - Bachelor Researcher
 Taravillo Cañete, Irene - Clinical Researcher
 Zurita Salas, Mª del Sagrario - Support Technician

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	5
Competitive	Commission of the European Communities	1
TOTAL		6

▪ **Title:** Relevancia biológica de la interacción del virus ébola con el receptor DC-SIGN.

Principal Investigator: Rafael Delgado Vázquez

Project No.: PI18/01007

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Citomegalovirus congénito: aspectos diagnósticos y pronósticos.

Principal Investigator: Mª Dolores Folgueira López

Project No.: PI18/00740

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Asociación del microbioma intestinal y la translocación bacteriana con biomarcadores predictivos de eventos NO-SIDA en pacientes infectados por VIH.

Principal Investigator: Mónica García Álvarez

Project No.: PI16/01124

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

▪ **Title:** Tratamiento antirretroviral guiado por genotipo proviral: ensayo clínico piloto de prueba de concepto ("TAR-PRO").

Principal Investigator: Federico Pulido Ortega

Project No.: PI16/00678

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 30/12/2019, extended to 31/12/2020

▪ **Title:** Caracterización y estudio de la relevancia clínica de un nuevo mecanismo de resistencia a inhibidores de proteasa localizado en la proteína de envoltura de VIH-1.

Principal Investigator: Rafael Delgado Vázquez

Project No.: PI14/00708

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 30/12/2017, extended to 30/06/2019

▪ **Title:** Optomechanics for Virology - VIRUSCAN.

Principal Investigator: Rafael Delgado Vázquez

Funding Body: Commission of the European Communities

Start date: 01/11/2016

End date: 30/10/2021

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	37	147.114
Editorials	1	34.648
TOTAL	38	180.762
Letters	2	3.357
TOTAL	40	184.119

- Kissling E, Rose A, Emborg HD, Gherasim A, Pebody R, Pozo F, Trebbien R, Mazagatos C, Whitaker H, Valenciano M, Filipovic SK, Visekruna-Vucina V, Novosel IP, Lovric Z, Petrovic G, Drazenovic V, Vince A, Topic A, Mihalic JB, Huljev E, Luksic B, Karabuva S, Cikes M, Emborg HD, Trebbien R, Helmuth IG, Krause TG, Lina B, Falchi A, Vilcu AM, Souty C, Blanchon T, Launay T, van der Werf S, Enouf V, Behillil S, Valette M, Launay O, Lachatre M, Lenzi N, L'Honneur AS, Galtier F, Olivier OG, Foulongne V, Merle C, Vanhems P, Laine F, Lagathu G, Carrat F, Valenciano M, Kissling E, Rose A, Penttinen P, Buda S, Preuss U, Tolksdorf K, Biere B, Duerrwald R, Smallfield M, Wedde M, Domegan L, Hunt M, O'Donnell J, Joyce M, Lewis O, Collins C, Dunford L, Moran J, Tuite G, Connell J, de Gascun C, Casado I, Fernandino L, Martinez-Baz I, Juanbeltz R, Ibanez CG, Castilla J, Navascues A, Aguinaga A, Ezpeleta C, Meijer A, van der Hoek W, Bagheri M, van den Brink S, Dijkstra F, Goderski G, de Lange M, Marzec T, Overduin P, Poorter E, Reukers D, Teirlinck AC, Wijsman L, Donker G, Hooiveld M, Gomez V, Kislaya I, Machado A, Nunes B, Rodrigues AP, Conde P, Costa I, Cristovao P, Guiomar R, Pechirra P, Lazar M, Cherciu CM, Mihai ME, Stoian E, Dragomirescu C, Popa MI, Juganari G, Gradinariu M, Loghin I, Vlad L, Duca E, Hurmuzache M, Dorobat C, Tardei G, Melinte V, Zaharia M, Popescu CP, Ceausu E, Florescu SA, Larrauri A, Gherasim A, Mazagatos C, Pozo F, Casas I, Comas LG, Marisquerena MEI, Galan JC, Folgueira MD, Castilla J, Cenoz MG, Navascues A, Rubio CQ, Ochoa EM, Blasco M, Duran JG, Vanrell JM, Reina J, Castrillejo D, Larrauri A, Gherasim AM, Delgado C, Oliva J, Pozo F, Casas I, Larrauri A, Gherasim AM, Mazagatos C, Pozo F, Casas I, Latorre M, Lou MIM, Milagro AM, Alzpirua A, Cilla G, Montes M, Brytting M, Enkirch T, Carnahan A, Wiman A, Pebody R, Whitaker H, Andrews N, Ellis J, Marques DF, Cottrell S, Reynolds A, Gunson R, Shepherd SJ, Thompson C, Galiano M, Robertson C, O'Doherty M, Owens K, Yonova I, Moore C, Johnson J, de Lusignan S, McMenamin J, Zambon M; European IVE Grp. Interim 2018/19 influenza vaccine effectiveness: six European studies, October 2018 to January 2019. *Eurosurveillance*. 2019; 24(8): 2-14. IF: 7.421 - Article.
- Origuen J, Orellana MA, Fernandez-Ruiz M, Corbella L, San Juan R, Ruiz-Ruigomez M, Lopez-Medrano F, Lizasoain M, Ruiz-Merlo T, Maestro-de la Calle G, Parra P, Villa J, Delgado R, Aguado JM. Toxin B PCR Amplification Cycle Threshold Adds Little to Clinical Variables for Predicting Outcomes in Clostridium difficile Infection: a Retrospective Cohort Study. *Journal of Clinical Microbiology*. 2019; 57(2): UNSP e01125-18. IF: 4.959 - Article.
- de Mendoza C, Piron M, Gonzalez R, Jimenez A, Caballero E, Roc L, Benito R, Ramos JM, Soriano V, Rodriguez C, Vera M, del Romero J, Marcaida G, Ocete MD, Caballero E, Molina I, Aguilera A, Rodriguez-Calvino JJ, Navarro D, Rivero C, Vilarino MD, Benito R, Algarate S, Gil J, de Lejarazu RO, Rojo S, Eiros JM, San Miguel A, Manzardo C, Miro JM, Garcia J, Paz I, Poveda E, Calderon E, Escudero D, Trigo M, Diz J, Garcia-Campello M, Rodriguez-Iglesias M, Hernandez-Betancor A, Martin AM, Ramos JM, Gimeno A, Gutierrez F, Rodriguez JC, Sanchez V, Gomez-Hernando C, Cilla G, Perez-Trallero E, Lopez-Aldeguer J, Fernandez-Pereira L, Niubo J, Hernandez M, Lopez-Lirola AM, Gomez-Sirvent JL, Force L, Cifuentes C, Perez S, Morano L, Raya C, Gonzalez-Praetorius A, Perez JL, Penaranda M, Hernaez-Crespo S, Montejo JM, Roc L, Martinez-Sapina A, Viciana I, Cabezas T, Lozano A, Fernandez JM, Garcia-Bermejo I, Gaspar G, Garcia R, Gorgolas M, Vegas C, Blas J, Miralles P, Valeiro M, Aldamiz T, Margall N, Guardia C, do Pico E, Polo I, Aguinaga A, Ezpeleta C, Sauleta S, Piron M, Torres P, Gonzalez R, Jimenez A, Blanco L, Suarez A, Rodriguez-Aval I, Perez-Rivilla A, Parra P, Fernandez M, Fernandez-Alonso M, Trevino A, Requena S, Benitez-Gutierrez L, Cuervas-Mons V, de Mendoza C, Barreiro P, Soriano V, Corral O, Gomez-Gallego F; HTLV Spanish Study Grp. Clinical Presentation of Individuals With Human T-Cell Leukemia Virus Type-1 Infection in Spain. *Open Forum Infectious Diseases*. 2019; 6(2): UNSP ofz036. IF: 3.371 - Article.
- Rodriguez-Gallego E, Tarancón-Diez L, Garcia F, Del Romero J, Miguel Benito J, Alba V, Herrero P, Rull A, Dominguez-Molina B, Martinez-Madrid O, Martin-Pena L, Pulido F, Leon A, Rodriguez C, Rallón N, Peraire J, Vilades C, Leal M, Vidal F, Ruiz-Mateos E; ECRIS integrated in the Spanish AIDS Research Network. Proteomic Profile Associated With Loss of Spontaneous Human Immunodeficiency Virus Type 1 Elite Control. *Journal of Infectious Diseases*. 2019; 219(6): 867-76. IF: 5.045 - Article.
- Velo-Higueras C, Cuellar-Flores I, Sainz-Costa T, Navarro-Gomez ML, Garcia-Navarro C, Fernandez-McPhee C, Ramirez A, Bisbal O, Blazquez-Gamero D, Ramos-Amador JT, Valencia-Ortega E, Gonzalez-Tome MI. Young adults and HIV. Awareness and risk behaviour of a group living in Spain. *Enfermedades Infecciosas y Microbiología Clínica*. 2019; 37(3): 176-82. IF: 1.685 - Article.
- Perez-Molina JA, Martinez E, Blasco AJ, Arribas JR, Domingo P, Iribarren JA, Knobel H, Lazaro P, Lopez-Aldeguer J, Lozano F, Marino A, Miro JM, Moreno S, Negredo E, Pulido F, Rubio R, Santos J, de la Torre J, Tuset M,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

von Wichmann MA, Gatell JM. Analysis of the costs and cost-effectiveness of the guidelines recommended by the 2018 GESIDA/Spanish National AIDS Plan for initial antiretroviral therapy in HIV-infected adults. *Enfermedades Infecciosas y Microbiología Clínica*. 2019; 37(3): 151-9. IF: 1.685 - Article.

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▪ Jimenez-Sousa MA, Jimenez JL, Fernandez-Rodriguez A, Brochado-Kith O, Bellon JM, Bernal-Morell E, Munoz-Fernandez MA, Resino S, del Amo J, Navarro ML, Gonzalez MI, Blanco JL, Gonzalez J, Del Amo J, Jarrin I, Alejos B, Hernando V, Moreno C, Iniesta C, Sousa LMG, Perez NS, Munoz-Fernandez MA, Garcia-Merino IM, Fernandez IC, Rico CG, de la Fuente JG, Concejo PP, Portilla J, Merino E, Reus S, Boix V, Giner L, Gadea C, Portilla I, Pampliega M, Diez M, Rodriguez JC, Sanchez-Paya J, Gomez JL, Hernandez J, Aleman MR, Alonso MD, Hernandez MI, Diaz-Flores F, Garcia D, Pelazas R, Lirola AL, Rubio R, Pulido F, Bisbal O, Hernando A, Dominguez L, Crestelo DR, Bermejo L, Santacreu M, Iribarren JA, Arrizabalaga J, Aramburu MJ, Camino X, Rodriguez-Arondo F, von Wichmann MA, Tome LP, Goenaga MA, Bustinduy MJ, Azkune H, Ibarguren M, Lizardi A, Kortajarena X, Gutierrez F, Masia M, Padilla S, Navarro A, Montolio F, Robledano C, Colome JG, Adsuar A, Pascual R, Fernandez M, Garcia E, Garcia JA, Barber X, Berenguer J, de Quiros JCLB, Gutierrez I, Ramirez M, Padilla B, Gijon P, Aldamiz-Echevarria T, Tejerina F, Parras FJ, Balsalobre P, Diez C, Latorre LP, Vidal F, Peraire J, Vilades C, Veloso S, Vargas M, Lopez-Dupla M, Olona M, Rull A, Rodriguez-Gallego E, Alba V, Alonso MM, Aldeguer JL, Julia MB, Pitarch MT, Hernandez IC, Munoz EC, Tovar SC, Lleti MS, Navarro JF, Gonzalez-garcia J, Arnalich F, Arribas JR, de la Serna JIB, Castro JM, Escosa L, Herranz P, Hontanon V, Garcia-Bujalance S, Lopez-Hortelano MG, Gonzalez-Baeza A, Martin-Carbonero ML, Mayoral M, Mellado MJ, Mican RE, Montejano R, Montes ML, Moreno V, Perez-Valero I, Rodes B, Sainz T, Sendagorta E, Alcariz NS, Valencia E, Blanco JR, Oteo JA, Ibarra V, Metola L, Sanz M, Perez-Martinez L, Dalmau D, Jaen A, Sanmarti M, Cairo M, Martinez-Lacasa J, Velli P, Font R, Xercavins M, Alonso N, Rivero M, Reparaz J, de Alda MGR, Cano MTD, de Galarreta BPR, Segura F, Amengual MJ, Navarro G, Sala M, Cervantes M, Pineda V, Calzado S, Navarro M, de los Santos I, Sanz JS, Aparicio AS, Cepeda CS, Fraile LGF, Gayo EM, Moreno S, Casado JL, Dronda F, Moreno A, Elias MJP, Ayerbe CG, Gutierrez C, Madrid N, Terron SD, Marti P, Ansa U, Serrano S, Vivancos MJ, Bernal E, Cano A, Garcia AA, Urbeta JB, Munoz A, Alcaraz MJ, Villalba MD, Garcia F, Hernandez J, Pena A, Munoz L, Vinuesa D, Martinez-Montes C, Garcia F, Guerrero-Beltran C, Del Romero J, Rodriguez C, Puerta T, Carrio JC, Vera M, Ballesteros J, Ayerdi O, Riera M, Penaranda M, Leyes M, Ribas MA, Campins AA, Vidal C, Fanjul F, Murillas J, Homar F, Santos J, Ayerbe CG, Viciiana I, Palacios R, Gonzalez CM, Viciiana P, Espinosa N, Lopez-Cortes LF, Podzamczer D, Ferrer E, Imaz A, Tiraboschi J, Silva A, Saumoy M, Olalla J, del Arco A, de la Torre J, Prada JL, Guerrero JMD, Stachowski JP, Martinez OJ, Vera FJ, Martinez L, Garcia J, Alcaraz B, Jimeno A, Iglesias AC, Souto BP, de Cea AM, Galera C, Albendin H, Perez A, Iborra A, Moreno A, Merlos MA, Vidal A, Suarez-Garcia, Malmierca E, Gonzalez-Ruano P, Rodrigo DM, Mohamed-Balgata MO, Vidal MAG, Perez VE, Molina MJT, Garcia JV, Moreno JPS, Gorgolas M, Cabello A, Alvarez B, Prieto L, Moreno JS, Caso AA, Gutierrez CH, Mena MN, Puerto MJG, Vilalta RF, Ribera AF, Roman AR, Herrero MTB, Juarez AR, Lopez PL, Sanchez IM, Martinez JP, Jimenez MC, Perea RT, Ruiz-Capillas JJJ, Pineda JA; CoRIS Spanish HIV HGM BioBank LTNP Cohort. VDR rs2228570 Polymorphism Is Related to Non-Progression to AIDS in Antiretroviral Therapy Naive HIV-Infected Patients. *Journal of Clinical Medicine*. 2019; 8(3): 311. IF: 5.688 - Article.

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- Kuhn JH, Adachi T, Adhikari NKJ, Arribas JR, Bah IE, Bausch DG, Bhadelia N, Borchert M, Brantsaeter AB, Brett-Major DM, Burgess TH, Chertow DS, Chute CG, Cieslak TJ, Colebunders R, Crozier I, Davey RT, de Clerck H, Delgado R, Evans L, Fallah M, Fischer WA 2nd, Fletcher TE, Fowler RA, Grunewald T, Hall A, Hewlett A, Hoepelman AIM, Houlihan CF, Ippolito G, Jacob ST, Jacobs M, Jakob R, Jacquierioz FA, Kaiser L, Kalil AC, Kamara RF, Kapetshi J, Klenk HD, Kobinger G, Kortepeter MG, Kraft CS, Kratz T, Bosa HSK, Lado M, Lamontagne F, Lane HC, Lobel L, Lutwama J, Lyon GM 3rd, Massaquoi MBF, Massaquoi TA, Mehta AK, Makuma VM, Murthy S, Musoke TS, Muyembe-Tamfum JJ, Nakayeyune P, Nanclares C, Nanyanja M, Nsio-Mbeta J, O'Dempsey T, Paweska JT, Peters CJ, Piot P, Rapp C, Renaud B, Ribner B, Sabeti PC, Schieffelin JS, Slenczka W, Soka MJ, Sprecher A, Strong J, Swanepoel R, Uyeki TM, van Herp M, Vetter P, Wohlf DA, Wolf T, Wolz A, Wurie AH, Yoti Z. New filovirus disease classification and nomenclature. *Nature Reviews Microbiology*. 2019; 17(5): 261-3. IF: 34.648 - Editorial Material.

- Lalueza A, Folgueira D, Diaz-Pedroche C, Hernandez-Jimenez P, Ayuso B, Castillo C, Laureiro J, Trujillo H, Torres M, Lumbreras C. Severe lymphopenia in hospitalized patients with influenza virus infection as a marker of a poor outcome. *Infectious Diseases*. 2019; 51(7): 543-6. IF: 2.191 - Letter.

- Garcia-Lara NR, Carbayo Jiménez T, Pérez Rivilla A, Pallás Alonso CR. Cruces de leche materna en las unidades neonatales. *Anales de Pediatría*. 2019; 91(5): 359-60. IF: 1.166 - Letter.

Patents

- Title:** Derivados de sulfuro como potenciales agentes antivirales.
Number: P201931084.
Type: Spanish patent.
Inventors: Carmen Gil Ayuso-Gontán, Ana Martínez Gil, Nuria Campillo Martín, Covadonga Alonso Martí, Rafael Delgado Vázquez, Fátima Lasala Sánchez.
Owners: Consejo Superior de Investigaciones Científicas (60%), Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria (20%), Fundación i+12 (20%).
Date of application: 05/12/2019

MOLECULAR EPIDEMIOLOGY OF HOSPITAL AND EMERGING INFECTIONS

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Chaves Sánchez, Fernando (R4)

Fradejas Villajos, Isabel - Predoctoral Researcher (R1)
López Roa, Paula - Postdoctoral Researcher (R2)
Lora-Tamayo Morillo-Velarde, Jaime - Doctoral Researcher (R3)
Mancheño Losa, Mikel - Predoctoral Researcher (R1)
Melendez Carmona, Mª Ángeles - Predoctoral Researcher (R1)
Muñoz Gallego, Irene - Predoctoral Researcher (R1)

Orellana Miguel, Mª Ángeles - Postdoctoral Researcher (R2)
Pérez de Ayala Balzola, Ana - Doctoral Researcher (R3)
Recio Martínez, Raul - Predoctoral Researcher (R1)
Viedma Moreno, Ester - Postdoctoral Researcher (R2)
Villa García, Jénifer - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	4
Competitive	SEIMC	1
TOTAL		5

- Title:** Influencia en el pronóstico de la infección de prótesis articular de las características genotípicas y fenotípicas de los microorganismos responsables: más allá de la especie y el antibiograma.

Principal Investigator: Jaime Lora-Tamayo Morillo –Velarde
Project No.: PI18/01623
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2019
End date: 31/12/2021

- Title:** Estudio prospectivo, multicéntrico, de la respuesta inmunológica a la infección por plasmodium en diferentes grupos de población residentes en España.

Principal Investigator: Ana Pérez de Ayala Balzola
Project No.: PI17/01791
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020

- Title:** Expresión génica global de cepas de *Staphylococcus aureus* sensible a meticilina, causantes de BRC o EI, y su relación con la actividad de antimicrobianos sobre modelos experimentales.

Principal Investigator: Fernando Chaves Sánchez
Project No.: PI15/02013
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018, extended to 31/12/2019

- Title:** Estudio prospectivo, multicéntrico, de prevalencia de parasitemia submicroscópica por *Plasmodium* en pacientes inmigrantes residentes en Madrid.

Principal Investigator: Ana Pérez de Ayala Balzola
Project No.: PI14/01671
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 30/06/2019

- Title:** Estudio clínico, farmacológico y microbiológico del tratamiento optimizado con beta-lactámicos en combinación con colistina de la infección osteoarticular con y sin material ortopédico por bacilos gram-negativos resistentes a fluoroquinolonas.

Principal Investigator: Jaime Lora-Tamayo Morillo-Velarde
Funding Body: Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica (SEIMC)
Start date: 01/09/2017
End date: 01/09/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	70.029
Reviews	1	0.485
Editorials	2	9.918
TOTAL	22	80.432
Letters	2	9.728
TOTAL	24	90.160

- Wouthuyzen-Bakker M, Sebillotte M, Lomas J, Taylor A, Palomares EB, Murillo O, Parvizi J, Shohat N, Reinoso JC, Sanchez RE, Fernandez-Sampedro M, Senneville E, Huotari K, Allende JMB, Garcia-Canete J, Lora-Tamayo J, Ferrari MC, Vaznaisiene D, Yusuf E, Aboltins C, Trebse R, Salles MJ, Benito N, Vila A, Toro MDD, Kramer TS, Petersdorf S, Diaz-Brito V, Tufan ZK, Sanchez M, Arvieux C, Soriano A; ESCMID Study Group for Implant-Associated Infections (ESGAI). Clinical outcome and risk factors for failure in late acute prosthetic joint infections treated with debridement and implant retention. *Journal of Infection*. 2019; 78(1): 40-7. IF: 5.099 - Article.
- Lora-Tamayo J, Murillo O, Ariza J. Clinical Use of Colistin in Biofilm-Associated Infections. *Advances in Experimental Medicine and Biology*. 2019; 1145: 181-95. IF: 2.126 - Article.
- Origuen J, Orellana MA, Fernandez-Ruiz M, Corbella L, San Juan R, Ruiz-Ruigomez M, Lopez-Medrano F, Lizasoain M, Ruiz-Merlo T, Maestro-de la Calle G, Parra P, Villa J, Delgado R, Aguado JM. Toxin B PCR Amplification Cycle Threshold Adds Little to Clinical Variables for Predicting Outcomes in Clostridium difficile Infection: a Retrospective Cohort Study. *Journal of Clinical Microbiology*. 2019; 57(2): UNSP e01125-18. IF: 4.959 - Article.
- Mitswan W, Jimenez-Munguia I, Visutthi M, Sianglum W, Jover A, Barcenilla F, Garcia M, Pujol M, Gasch O, Dominguez MA, Camoez M, Duenas C, Ojeda E, Martinez JA, Marco F, Chaves F, Lagarde M, Lopez-Medrano F, Montejo JM, Bereciertua E, Hernandez JL, von Wichmann MA, Goenaga A, Garcia-Arenzana JM, Padilla B, Padilla C, Cercenado E, Garcia-Prado G, Tapiol J, Horcajada JP, Montero M, Salvado M, Arnaiz A, Fernandez C, Calbo E, Xercavins M, Granados A, Fontanals D, Pintado V, Loza E, Torre-Cisneros J, Lara R, Rodriguez-Lopez F, Natera C, Blanco JR, Olarte I, Benito N, Mirelis B, Murillas J, de Gopegui ER, Espejo H, Morera MA, Rodriguez-Bano J, Lopez-Cortes LE, Pascual A, Martin C, Lepe JA, Molina J, Sorde R, Almirante B, Larrosa N, Rodriguez-Ortega MJ, Voravuthikunchai SP; REIPI GEIH Study Grp. Rhodomyrtone decreases Staphylococcus aureus SigB activity during exponentially growing phase and inhibits haemolytic activity within membrane vesicles. *Microbial Pathogenesis*. 2019; 128: 112-8. IF: 2.581 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Lalueza A, Folgueira D, Munoz-Gallego I, Trujillo H, Laureiro J, Hernandez-Jimenez P, Moral-Jimenez N, Castillo C, Ayuso B, Diaz-Pedroche C, Torres M, Arrieta E, Arevalo-Canas C, Madrid O, Lumbreras C. Influence of viral load in the outcome of hospitalized patients with influenza virus infection. *European Journal of Clinical Microbiology & Infectious Diseases*. 2019; 38(4): 667-73. IF: 2.591 - Article.
- Morata L, Cobo J, Fernandez-Sampedro M, Vasco PG, Ruano E, Lora-Tamayo J, Sanchez Somolinos M, Ruano PG, Nieto AR, Arnaiz A, Estebanez Munoz M, Jimenez-Mejias ME, Lozano Serrano AB, Munoz E, Rodriguez-Pardo D, Argelich R, Arroyo A, Barbero JM, Cuadra F, Del Arco A, del Toro MD, Guio L, Jimenez-Beatty D, Lois N, Martin O, Martinez Alvarez RM, Martinez-Marcos FJ, Porras L, Ramirez M, Vergas Garcia J, Soriano A. Safety and efficacy of prolonged use of dalbavancin in bone and joint infections. *Antimicrobial Agents and Chemotherapy*. 2019; 63(5): e02280-18. IF: 4.715 - Article.
- Recio R, Melendez-Carmona MA, Martin-Higuera MC, Perez V, Lopez E, Lopez-Medrano F, Perez-Ayala A. Trichoderma longibrachiatum: an unusual pathogen of fungal pericarditis. *Clinical Microbiology and Infection*. 2019; 25(5): 586-7. IF: 6.425 - Article.
- Pintado V, Pazos R, Jimenez-Mejias ME, Rodriguez-Guardado A, Diaz-Pollan B, Cabellos C, Garcia-Lechuz JM, Lora-Tamayo J, Domingo P, Munoz E, Domingo D, Gonzalez-Romo F, Lepe-Jimenez JA, Rodriguez-Lucas C, Gil A, Pelegrin I, Chaves F, Pomar V, Ramos A, Alarcon T, Perez-Cecilia E. Staphylococcus aureus meningitis in adults: A comparative cohort study of infections caused by meticillin-resistant and meticillin-susceptible strains. *Journal of Hospital Infection*. 2019; 102(1): 108-15. IF: 3.704 - Article.
- San-Juan R, Martinez-Redondo I, Fernandez-Ruiz M, Ruiz-Ruigomez M, Corbella L, Hernandez-Jimenez P, Silva JT, Lopez-Medrano F, Recio R, Orellana MA, Aguado JM. A short course of antibiotic treatment is safe after catheter withdrawal in catheter-related bloodstream infections due to coagulase-negative staphylococci. *European Journal of Clinical Microbiology & Infectious Diseases*. 2019; 38(5): 977-83. IF: 2.591 - Article.
- Benito N, Mur I, Ribera A, Soriano A, Rodriguez-Pardo D, Sorli L, Cobo J, Fernandez-Sampedro M, del Toro MD, Guio L, Praena J, Bahamonde A, Riera M, Esteban J, Baraia-Etxaburu JM, Martinez-Alvarez J, Jover-Saenz A, Duenas C, Ramos A, Sobrino B, Euba G, Morata L, Pigrau C, Horcajada JP, Coll P, Crusi X, Ariza J, Garcia-Gonzalez M, Perez-Villar F, Prats-Gispert L, Ramirez-Hidalgo M, De-la-Pena-Trigueros M, Lopez-Azkarreta I, Lopez-Martinez M, Lora-Tamayo J, Murillo O, Pedrero S, Amador J, Garcia-Paino L, Parrondo S, Raya C, Moreno A, Blanco-Martinez-de-Morentin MA, Zapico-Aldea, LRGF, Lozano L, Munoz-Mahamud E, Merino-Perez J, Alier A, Prim N, Puig L, Unon A, Blanco A, Garcia-Canete J, Parron-Camero R, Farinas MC, Manuel-Bloque R, Salas-Venero C, Campo-Loarte J, Munoz-Rubio E, Sanchez-Romero I, Escudero-Sanchez R, Ruiz-Carbajosa P, Gonzalez A, Gonzalez JC, Jordan M, Rivera A, Marinescu C, Montaner F, Ramirez A, Corona PS, Lung M, Puig-Asensio M, Munain-Ezcurra MA, Penas-Espinar C, Suarez AI, Gomez MJ, Lopez-Pliego M; REIPI Spanish Network Res Infect D, SEIMC Spanish Soc Infect Dis Clini. The Different Microbial Etiology of Prosthetic Joint Infections according to Route of Acquisition and Time after Prosthesis Implantation, Including the Role of Multidrug-Resistant Organisms. *Journal of Clinical Medicine*. 2019; 8(5): UNSP 673. IF: 5.688 - Article.
- Losada Galván I, Madrid Pascual O, Herrero-Martinez JM, Perez-Ayala A, Lizasoain Hernández M. Does Progressive Introduction of Benznidazole Reduce the Chance of Adverse Events in the Treatment of Chagas Disease? *American Journal of Tropical Medicine and Hygiene*. 2019; 100(6): 1477-81. IF: 2.315 - Article.
- Rivero-Menendez O, Navarro-Rodriguez P, Bernal-Martinez L, Martin-Cano G, Lopez-Perez L, Sanchez-Romero I, Perez-Ayala A, Capilla J, Zaragoza O, Alastryu-Izquierdo A. Clinical and Laboratory Development of Echinocandin Resistance in Candida glabrata: Molecular Characterization. *Frontiers in Microbiology*. 2019; 10: 1585. IF: 4.259 - Article.
- Fradejas I, Rubio JM, Martin-Diaz A, Herrero-Martinez JM, Ruiz-Giardin JM, Rojo-Marcos G, Velasco M, Calderon-Moreno M, Azcona-Gutierrez JM, Merino FJ, Olmo BA, Espinosa M, Cuadrado M, Gonzalez-Monte E, Jaqueti J, Cuadros J, Campelo C, Delgado-Iribarren A, Martin-Rabadan P, Garcia-Garcia C, Martin-Laso MA, Valle-Borrego B, Garcia MC, Lizasoain M, Perez-Ayala A. Prevalence of submicroscopic malaria infection in immigrants living in Spain. *Malaria Journal*. 2019; 18(1): 242. IF: 2.798 - Article.
- Moles L, Gomez M, Moroder E, Jimenez E, Escuder D, Bustos G, Melgar A, Villa J, del Campo R, Chaves F, Rodriguez JM. Serratia marcescens colonization in preterm neonates during their neonatal intensive care unit stay. *Antimicrobial Resistance and Infection Control*. 2019; 8(1): 135. IF: 3.224 - Article.
- Wouthuyzen-Bakker M, Sebillotte M, Lomas J, Kendrick B, Palomares EB, Murillo O, Parvizi J, Shohat N, Reinoso JC, Sanchez RE, Fernandez-Sampedro M, Senneville E, Huotari K, Allende JMB, Garcia AB, Lora-Tamayo J, Ferrari MC, Vaznaisiene D, Yusuf E, Aboltins C, Trebse R, Salles MJ, Benito N, Vila A, Toro MDD, Kramer TS, Petersdorf S, Diaz-Brito V, Tufan ZK, Sanchez M, Arvieux C, Soriano A; ESCMID Study Group for Implant-Associated Infections (ESGAI). Timing of implant-removal in late acute periprosthetic joint infection: A multicenter observational study. *Journal of Infection*. 2019; 79(3): 199-205. IF: 5.099 - Article.
- Melendez-Carmona MA, Muñoz-Gallego I, Viedma E, Lora-Tamayo J, Chaves F. Intraosteoblastic activity of levofloxacin and rifampin alone and in combination against clinical isolates of meticillin-susceptible Staphylococcus aureus causing prosthetic joint infection. *International Journal of Antimicrobial Agents*. 2019; 54(3): 356-60. IF: 4.615 - Article.
- Flores-Anton B, Martin-Cornejo J, Morante-Santana MA, Garcia-Lara NR, Sierra-Colomina G, De la Cruz-Bertolo J, Martin-Arriscado-Arroba C, Escuder-
- Vieco D, Soriano-Ramos M, Chaves F, Pallas-Alonso CR. Comparison of two methods for cleaning breast pump milk collection kits in human milk banks. *Journal of Hospital Infection*. 2019; 103(2): 217-22. IF: 3.704 - Article.
- Muñoz-Gallego I, Moral N, Pascual C, Alonso Y, Folgueira L. BK virus viral load: analysis of the requests received by the microbiology laboratory and clinical involvement of the issued results. *European Journal of Clinical Microbiology & Infectious Diseases*. 2019; 38(10): 1969-73. IF: 2.591 - Article.
- Zaragoza-Garcia I, Perez-Garcia S, Orellana-Miguel MLÁ, Pose-Becerra C, Goñi-Olangua MA. The effectiveness of an online training program in a nursing unit: extraction of blood cultures. *Revista da Escola de Enfermagem da Usp*. 2019; 53: e03531. IF: 0.945 - Article.
- Panero I, San-Juan R, Eiriz C, Garcia-Pérez D, Paredes I, González C, Recio R, Carretero O, Lagares A, Gómez PA. Uncommon case of Mycobacterium bovis brain abscess complicated by suppurative fistula, and review of the literature. *Revista de Neurologia*. 2019; 69(10): 417-22. IF: 0.485 - Review.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Answer to June 2019 Photo Quiz. *Journal of Clinical Microbiology*. 2019; 57(6): e00649-18. IF: 4.959 - Editorial Material.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Photo Quiz: An Unexpected Organism Isolated from an Intracranial Epidural Abscess. *Journal of Clinical Microbiology*. 2019; 57(6): UNSP e00648-18. IF: 4.959 - Editorial Material.
- Calleja Algarra A, Prieto Barrios M, Manrique Multiozabal A, Alonso Moraleda R, Fradejas Villajos I, Perez-Ayala A, Lopez Medrano F, Rodriguez Peralto JL, Ortiz Romero PL, Zarco Olivo C. Chromoblastomycosis: an autochthonous case of a tropical disease. *Journal of The European Academy of Dermatology and Venereology*. 2019; 33(2): 76-8. IF: 5.113 - Letter.
- Villa J, Carretero O, Viedma E, Lora-Tamayo J, Mingorance J, Chaves F. Emergence of NDM-7-producing multi-drug-resistant Enterobacter hormaechei sequence type ST-78 in Spain: a high-risk international clone. *International Journal of Antimicrobial Agents*. 2019; 53(4): 533-4. IF: 4.615 - Letter.

Theses Defended or Directed on the Group

- **Candidate:** Isabel Fradejas Villajos
Title: Diagnóstico de Strongyloides stercoralis en un hospital de tercer nivel: retos y mejoras
Directors: Ana Pérez de Ayala Balzola, José Miguel Rubio Muño
Date Defended: 10/10/2019
University: Universidad Autónoma de Madrid
International Mention: Yes

TRANSLATIONAL RESEARCH IN LEISHMANIASIS

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Alunda Rodríguez, José M^a (R4)

Cuquerella Ayensa, Montserrat - Doctoral Researcher (R3)
de la Fuente López, M^a Concepción - Doctoral Researcher (R3)

Olías Molero, Ana Isabel - Predoctoral Researcher (R1)

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Tratamiento oral de leishmaniosis: miltefosina, microbiota y terapéutica racional

Project No.: PR87/19-22646.

Principal Investigator: José M^a Alunda Rodríguez

Funding Body: UCM-Banco de Santander

Start date: 04/12/2019

End date: 31/12/2020

- Title:** Más allá de la "pipeline" de fármacos: modelo cooperativo reticular para acelerar el descubrimiento y desarrollo de antiparasitarios animales.

Project No.: EIN2019-102897

Principal Investigator: José M^a Alunda Rodríguez

Funding Body: Ministerio de Educación y Ciencia

Start date: 01/06/2019

End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	7	27.394
TOTAL	7	27.394

- Moraes CB, Witt G, Kuzikov M, Ellinger B, Calogeropoulou T, Prousis KC, Mangani S, Di Pisa F, Landi G, Iacono LD, Pozzi C, Freitas-Junior LH, Dos

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Olias-Molero AI, Corral MJ, Jimenez-Anton MD, Alunda JM. Early antibody response and clinical outcome in experimental canine leishmaniasis. *Scientific Reports*. 2019; 9(1): 18606. IF: 4.011 - Article.

- Manzano JL, Cueto-Díaz EJ, Olias-Molero AI, Perea A, Herraiz T, Torrado JJ, Alunda JM, Gamarro F, Dardonville C. Discovery and Pharmacological Studies of 4-Hydroxyphenyl-Derived Phosphonium Salts Active in a Mouse Model of Visceral Leishmaniasis. *Journal of Medicinal Chemistry*. 2019; 62(23): 10664-75. IF: 6.054 - Article.

- Jiménez-Antón MD, Grau M, Olías-Molero AI, Alunda JM. Syrian Hamster as an Advanced Experimental Model for Visceral Leishmaniasis. *Methods in Molecular Biology*. 2019; 1971: 303-14. IF: N/A - Article.

End Graduated Investigations Directed on the Group

- Student:** Pablo Veiras Muñoz

Title: Twitter: análisis del impacto de la leishmaniosis canina

Director: José M^a Alunda Rodríguez

Degree: Grado en Veterinaria (UCM)

- Student:** Rosa Erica Fontán Matilla

Title: Quimioterapia de la leishmaniosis canina en el siglo XXI: análisis biométrico entre el año 2000 y 2017.

Director: José M^a Alunda Rodríguez

Degree: Grado en Veterinaria (UCM)

TRANSLATIONAL RESEARCH IN MALARIA

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Bautista Santa Cruz, José Manuel (R4)

Abad González, Paloma - Predoctoral Researcher (R1)
Díez Martín, Amalia - Doctoral Researcher (R3)
Gallego Iniesta, M^a Milagros - Doctoral Researcher (R3)
González Azcárate, Isabel - Doctoral Researcher (R3)

Marín García, Patricia - Doctoral Researcher (R4)
Puyet Catalina, Antonio - Doctoral Researcher (R4)
Reyes Palomares, Armando - Doctoral Researcher (R4)
Sánchez Jaut, Sandra - Predoctoral Researcher (R1)

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	2	7.551
TOTAL	2	7.551

- Kamali AN, Noorbakhsh SM, Hamedifar H, Jadidi-Niaragh F, Yazdani R, Bautista JM, Azizi G. A role for Th1-like Th17 cells in the pathogenesis of inflammatory and autoimmune disorders. *Molecular Immunology*. 2019; 105: 107-15. IF: 3.064 - Article.
- Rodriguez-Garcia A, Morales ML, Garrido-Garcia V, Garcia-Baquero I, Leivas A, Carreño-Tarragona G, Sanchez R, Arenas A, Cedena T, Ayala RM,

Bautista JM, Martinez-Lopez J, Linares M. Protein Carbonylation in Patients with Myelodysplastic Syndrome: An Opportunity for Deferasirox Therapy. *Antioxidants*. 2019; 8(11): 508. IF: - Article.

- de Mendoza C, Bautista JM, Perez-Benavente S, Kwaku R, Fobil J, Soriano V, Diez A. Screening for retroviruses and hepatitis viruses using dried blood spots reveals a high prevalence of occult hepatitis B in Ghana. *Therapeutic Advances in Infectious Disease*. 2019; 6: 2049936119851464. IF: N/A - Article.
- González LM, Estrada K, Grande R, Jiménez-Jacinto V, Vega-Alvarado L, Sevilla E, Barrera J, Cuesta I, Zaballos Á, Bautista JM, Lobo CA, Sánchez-Flores A, Montero E. Comparative and functional genomics of the protozoan parasite Babesia divergens highlighting the invasion and egress processes. *Plos Neglect Trop D*. 2019; 13(8): e0007680. IF: N/A - Article.

INFECTIOUS PATHOLOGIES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Aguado García, José M^a (R4)

Corbella Vázquez, Laura - Predoctoral Researcher (R1)
Fernández Ruiz, Mario - Doctoral Researcher (R3)
Hernández Jiménez, M^a del Pilar - Researcher/a clínico
Lizasoain Hernández, Manuel - Clinical Researcher
López Medrano, Francisco - Doctoral Researcher (R4)
Maestro de la Calle, Guillermo - Clinical Researcher
Oríguen Sabater, Julia - Doctoral Researcher (R3)

Parra Aragón, Patricia - Support Technician
Rodríguez Goncer, Isabel - Postdoctoral Researcher (R2)
Ruiz Ruigómez, María - Predoctoral Researcher (R1)
Ruiz Merlo, Tamara - Support Nurse
San Juan Garrido, Rafael - Doctoral Researcher (R3)
Sequeira Lopes da Silva, José Tiago - Postdoctoral Researcher (R2)

Active Research Projects

Type of Document	No. of Documents	Σ IF (JCR 2018)
Competitive	ISCIII	6
Competitive	Commission of the European Communities	1
Competitive	FMM	1
TOTAL		8

- Title:** Ensayo clínico aleatorizado, doble ciego, controlado con placebo: profilaxis secundaria con vancomicina oral en pacientes con infección recién por C. difficile y alto riesgo de recidiva.
Principal Investigator: Julia Oríguen Sabater
Project No.: PI18/01949
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2019
End date: 31/12/2021
- Title:** Score integrado de factores inmunológicos y genotípicos de predicción de riesgo y evolución de la infección por CMV en pacientes con trasplante renal.
Principal Investigator: José M^a Aguado García
Project No.: PI17/01120
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Desarrollo de un prototipo de aplicador de catéter para minimizar los riesgos de flebitis o bacteriemia asociada a la infección de catéteres venosos periféricos y validación clínica en animales.

- Principal Investigator:** Francisco López Medrano
Project No.: DTS16/00191
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2018, extended to 31/12/2019
- Title:** Validación de una estrategia de prevención de infección en portadores de trasplante renal basada en un budle individualizado de medias y un score del grado neto de inmunosupresión.
Principal Investigator: Francisco López Medrano
Project No.: PI16/00793
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019, extended to 30/06/2021
- Title:** Utilidad de la monitorización de la viremia por anellovirus como marcador subrogado del estado neto de inmunosupresión en receptores de trasplante renal.
Principal Investigator: Mario Fernández Ruiz
Project No.: PI15/01953
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 30/12/2018, extended to 30/06/2020
- Title:** Validación de un nuevo modelo de puntuación pronóstica basado en parámetros inmunológicos y virológicos como marcadores subrogados del estado neto de inmunosupresión en receptores de un trasplante de órgano sólido (SIMPLICITY-EBV).
Principal Investigator: Rafael San Juan Garrido
Project No.: PI14/00174
Funding Body: Instituto de Salud Carlos III (ISCIII)

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Start date: 01/01/2015
End date: 31/12/2017, extended to 30/06/2019

- **Title:** Combacte-Care. Combating bacterial resistance in europe-carbapenem resistance - European prospective cohort study on Enterobacteriaceae Showing resistance to carbapenems.

Principal Investigator: José Mª Aguado García

Funding Body: Commission of the European Communities

Start date: 01/01/2019

End date: 31/12/2019

- **Title:** Monitorización de la inmunidad celular específica frente a citomegalovirus en receptores de trasplante renal sometidos a tratamiento de inducción con globulina policlonal anti-timocítica.

Principal Investigator: Mario Fernández Ruiz

Project No.: FIMM 2014/0092

Funding Body: Fundación de Investigación Médica Mutua Madrileña (FMM)

Start date: 27/10/2014

End date: 26/10/2017, extended to 30/04/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	29	99.234
Reviews	3	7.598
Editorials	4	14.480
TOTAL	36	121.312
Letters	6	86.069
TOTAL	42	207.381

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- Guillen-Vera D, Ruiz-Ruigomez M, Garcia-Moguel I, Morales-Ruiz R, Corbella L, Fernandez-Rodriguez C. Successful Treatment of Chronic Pulmonary Aspergillosis With Isavuconazole. *Journal of Investigational Allergology and Clinical Immunology*. 2019; 29(6): 459-60. IF: 3.802 - Editorial Material.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Answer to June 2019 Photo Quiz. *Journal of Clinical Microbiology*. 2019; 57(6): e00649-18. IF: 4.959 - Editorial Material.
- Carretero O, Recio R, Silva JT, Panero I, Gonzalez C, Caso O, San Juan R, Lopez-Roa P. Photo Quiz: An Unexpected Organism Isolated from an Intracranial Epidural Abscess. *Journal of Clinical Microbiology*. 2019; 57(6): UNSP e00648-18. IF: 4.959 - Editorial Material.
- Tiago Silva J, Mejia-Chew C, Spec A, Aguado JM, Lopez-Medrano F. And then there were none. *Revista Española de Quimioterapia*. 2019; 32(6): 551-7. IF: 0.76 - Editorial Material.
- Silva JT, Lopez-Medrano F, Aguado JM. Diverticulitis. *New England Journal of Medicine*. 2019; 380(5): 500. IF: 70.67 - Letter.
- Calleja Algarra A, Prieto Barrios M, Manrique Multiozabal A, Alonso Moraleda R, Fradejas Villajos I, Perez-Ayala A, Lopez Medrano F, Rodriguez Peralto JL, Ortiz Romero PL, Zarco Olivo C. Chromoblastomycosis: an autochthonous case of a tropical disease. *Journal of the European Academy of Dermatology and Venereology*. 2019; 33(2): 76-8. IF: 5.113 - Letter.
- Lalueza A, Folgueira D, Diaz-Pedroche C, Hernandez-Jimenez P, Ayuso B, Castillo C, Laureiro J, Trujillo H, Torres M, Lumbrieras C. Severe lymphopenia in hospitalized patients with influenza virus infection as a marker of a poor outcome. *Infectious Diseases*. 2019; 51(7): 543-6. IF: 2.191 - Letter.
- Fernandez-Ruiz M, Rodriguez-Goncer I, Ruiz-Merlo T, Parra P, Lopez-Medrano F, Andres A, Aguado JM. Low 25-hydroxyvitamin D Levels and the Risk of Late CMV Infection After Kidney Transplantation: Role for CMV-specific Mediated Immunity. *Transplantation*. 2019; 103(8): 216-7. IF: 4.743 - Letter.

- Fernandez-Ruiz M, Vargas JC, Ruiz-Ruigomez M. Bilateral endophthalmitis as the initial presentation of pneumococcal endocarditis. Enfermedades Infecciosas y Microbiología Clínica. 2019; 37(7): 488-90. IF: 1.685 - Letter.
- de Mendoza C, Roc L, Fernández-Alonso M, Soriano V, Rodríguez C, Vera M, del Romero J, Marcaida G, Ocete MD, Caballero E, Aguilera A, Rodríguez-Calviño JJ, Rivero C, Vilariño MD, Benito R, Algarate S, de Lejarazu RO, Rojo S, Eirós JM, Ramos C, Manzardo C, Miró JM, García-Costa J, Calderón E, Escudero D, Trigo M, Díz J, García-Campello M, Rodríguez-Iglesias M, Hernández-Betancor A, Martín AM, Ramos JM, Gimeno A, Sánchez V, Guzmán M, Gómez-Hernando C, Echeverría MJ, Cilla G, Fernández-Pereira L, Hernández M, López-Lirola AM, Gómez-Sirvent JL, Force L, Cifuentes C, Pérez S, Morano L, Raya C, González-Praetorius A, Peñaranda M, Nieto MC, Montejo JM, Roc L, Viciana I, Cabezas T, Lozano A, Pérez-Camacho I, Fernández JM, García-Bermejo I, Gaspar G, Tellez R, Górgolas M, Pérez L, Monsalvo S, Valeiro M, Aldamiz T, Margall N, Guardia C, do Pico E, Sauleda S, Pirón M, González R, Richart A, Barea L, Jiménez A, Blanco L, Suárez A, Rodríguez-Avial I, Parra P, Fernández M, Fernández-Alonso M, Reina G, Treviño A, Requena S, Benítez-Gutiérrez L, Cuervas-Mons V, de Mendoza C, Barreiro P, Soriano V, Corral O, Gómez-Gallego F; Spanish HTLV Network. HTLV testing of solid organ transplant donors. Clinical Transplantation. 2019; 33(10): e13670. IF: 1.667 - Letter.

Theses Defended or Directed on the Group

- Candidate:** Julia Origen
Title: Evaluación del significado de la bacteriuria asintomática en trasplantados renales: estudio prospectivo randomizado de profilaxis vs no profilaxis
Directors: Rafael San Juan, Francisco López Medrano, José Mª Aguado García
Date Defended: 22/01/2019
University: Universidad Complutense de Madrid
International Mention: No

End Graduated Investigations Directed on the Group

- Student:** Angel Ramos / María Ponte
Title: Complicaciones neurológicas de la endocarditis infecciosa: importancia de la neuroimagen y la anticoagulación

Director: Francisco López Medrano
Degree: Grado en Medicina (UCM)

Students: Guillermo Chiara Graciani, Daniel García García, Ángel Marrero Sánchez y Miguel Saro Buendía
Title: Diseño, aplicación y estudio del impacto de una estrategia de promoción de la vacunación de la gripe en estudiantes de medicina en España
Director: Francisco López Medrano
Degree: Grado en Medicina (UCM)

Patents

- Title:** Aplicador para catéter y método de uso.
Number: P201931127.
Type: Spanish patent.
Inventors: Francisco López Medrano.
Owners: Fundación i+12 (100%).
Date of application: 18/12/2019
- Title:** Aplicador de catéteres y catéter que incorpora aplicador.
Number: PCT/ES2016/070403.
Type: PCT patent.
Inventor: Francisco López Medrano.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Date of application: 27/05/2016
- Title:** Aplicador de catéteres y catéter que incorpora aplicador.
Number: P201530745.
Type: Spanish patent.
Inventor: Francisco López Medrano.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Date of application: 28/05/2015

Communication

- Number of press releases disseminated: 3
- Number of news published in the written press: 2
- News in other audiovisual media (radio, TV): 1

TRANSLATIONAL RESEARCH GROUP ON PEDIATRIC INFECTIOUS DISEASES

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Blázquez Gamero, Daniel (R3)
Domínguez Rodríguez, Sara - Postdoctoral Researcher (R2)
Epalza Ibarrondo, Cristina - Predoctoral Researcher (R1)
Fernández Cooke, Elisa - Postdoctoral Researcher (R2)
González Tomé, Mª Isabel - Doctoral Researcher (R4)
Grasa Lozano, Carlos Daniel - Predoctoral Researcher (R1)

Moraleda Redecilla, Mª Cinta - Doctoral Researcher (R3)
Prieto Tato, Luis Manuel - Doctoral Researcher (R3)
Rojo Conejo, Pablo - Doctoral Researcher (R4)
Soriano Ramos, María - Predoctoral Researcher (R1)
Tagarro García, Alfredo - Doctoral Researcher (R3)

Active Research Projects

Type of Document	No. of Documents	Σ IF (JCR 2018)
Competitive	ISCI	4
Competitive	Commission of the European Communities	1
Non Competitive	Various	2
TOTAL		7

- Title:** Empirical treatment against cytomegalovirus and tuberculosis in severe pneumonia in HIV- infected infants: a randomized controlled clinical trial.
Principal Investigator: Pablo Rojo Conejo
Project No.: RIA2017MC-2013
Funding Body: Commission of the European Communities
Start date: 01/02/2019
End date: 31/01/2024
- Title:** Validación de dos scores diagnósticos para la neumonía bacteriana en niños.
Principal Investigator: Alfredo Tagarro García
Project No.: PI17/01458
Funding Body: Instituto de Salud Carlos III (ISCI)
Start date: 01/01/2018
End date: 31/12/2020

- Title:** Estudio multicéntrico sobre la respuesta celular T materna y neonatal en la infección congénita por citomegalovirus.
Principal Investigator: Daniel Blázquez Gamero
Project No.: PI16/00807
Funding Body: Instituto de Salud Carlos III (ISCI)
Start date: 01/01/2017
End date: 31/12/2019, extended to 30/06/2021
- Title:** Diagnóstico de infecciones nosocomiales en pacientes pediátricos críticos: Comparación de un test molecular con hemocultivos convencionales.
Principal Investigator: Pablo Rojo Conejo
Project No.: PI16/01950
Funding Body: Instituto de Salud Carlos III (ISCI)
Start date: 01/01/2017
End date: 31/12/2019, extended to 30/06/2021
- Title:** Impacto del tratamiento antirretroviral en el SNC del paciente pediátrico con infección VIH. Correlación con neuroimagen y perfil neurocognitivo.
Principal Investigator: Mª Isabel González Tomé
Project No.: PI15/00694
Funding Body: Instituto de Salud Carlos III (ISCI)
Start date: 01/01/2016
End date: 31/12/2018, extended to 30/06/2020
- Title:** Exantemas en la infancia, proyecto de realidad aumentada.
Principal Investigator: Pablo Rojo Conejo
Funding Body: Fondazione Penta Onlus
Start date: 10/12/2019

End date: 31/12/2021

- **Title:** Early treated perinatally HIV infected individuals: improving children's actual life.

Principal Investigator: Pablo Rojo Conejo

Funding Body: Fondazione Penta Onlus

Start date: 18/07/2016

End date: 17/07/2017, extended to 31/08/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- **Title:** Respiratory Syncytial virus Consortium in EUrope (RESCEU): Presumed risk factors and biomarkers for RSV-related severe disease and related sequelae.

Principal Investigator: Federico Martinón Torres. Investigador Principal Hospital 12 de Octubre: Pablo Rojo Conejo. Investigador colaborador: Cristina Epalza Ibarrondo

Funding Body: University of Oxford, Funder Innovative Medicines Initiative (IMI)

Start date: 2017

- **Title:** Evaluación de factores genéticos en la susceptibilidad y pronóstico de las infecciones por enterovirus (Enterogen).

Principal Investigator: Federico Martinón Torres. Investigador Principal Hospital 12 de Octubre: Cristina Epalza Ibarrondo

Funding Body: Grupo de Investigación en Genética, Vacunas, Infecciones y Pediatría (GENVIP) C.H.U. de Santiago

Start date: 2017

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	29	101.586
Reviews	1	14.753
TOTAL	30	116.339
Letters	3	16.601
TOTAL	33	132.940

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Blazquez-Gamero D, Galindo Izquierdo A, Del Rosal T, Baquero-Artigao F, Izquierdo Méndez N, Soriano-Ramos M, Rojo Conejo P, Gonzalez-Tome MI, Garcia-Burguillo A, Perez NP, Sanchez V, Ramos-Amador JT, De la Calle M. Prevention and treatment of fetal cytomegalovirus infection with cytomegalovirus hyperimmune globulin: a multicenter study in Madrid. *Journal of Maternal-Fetal & Neonatal Medicine*. 2019; 32(4): 617-25. IF: 1.569 - Article.

- Prieto LM, Santiago B, del Rosal T, Carazo B, Jimenez AB, Perez-Gorricho B, Rubio F, Tagarro A, Blazquez-Gamero D, Moreno-Perez D, Mellado MJ, Baquero-Artigao F; Spanish Paediatric TB Research Network (pTBred). Linezolid-containing Treatment Regimens for Tuberculosis in Children. *Pediatric Infectious Disease Journal*. 2019; 38(3): 263-7. IF: 2.317 - Article.

- Bustos Lozano G, Soriano-Ramos M, Pinilla Martin MT, Chumillas Calzada S, Garcia Soria CE, Pallas-Alonso CR. Early Hypophosphatemia in High-Risk Preterm Infants: Efficacy and Safety of Sodium Glycerophosphate from First Day on Parenteral Nutrition. *Journal of Parenteral and Enteral Nutrition*. 2019; 43(3): 419-25. IF: 4.109 - Article.

- Velo-Higueras C, Cuellar-Flores I, Sainz-Costa T, Navarro-Gomez ML, Garcia-Navarro C, Fernandez-McPhee C, Ramirez A, Bisbal O, Blazquez-Gamero D, Ramos-Amador JT, Valencia-Ortega E, Gonzalez-Tome MI. Young adults and HIV. Awareness and risk behaviour of a group living in Spain. *Enfermedades Infecciosas y Microbiología Clínica*. 2019; 37(3): 176-82. IF: 1.685 - Article.

- Fernandez-Cooke E, Barrios Tascon A, Anton-Lopez J, Grasa Lozano CD, Sanchez-Manubens J, Calvo C; Grupo de trabajo para el estudio de la enfermedad de Kawas. Infecciones previas o coincidentes con la sospecha de enfermedad de Kawasaki inverted question markdebemos cambiar nuestra actitud? *Anales de Pediatría*. 2019;90(4):213-8. IF: 1.166 - Article.

- Vives-Onos I, Codina-Grau MG, Noguera-Julian A, Blazquez-Gamero D, Fortuny C, Baquero-Artigao F, Frick MA, Saavedra-Lozano J, Goycochea-Valdivia W, Rives-Ferreiro MT, Montesdeoca-Melian A, Calavia-Garsaball O, Ferreras-Antolin L, Marin-Soria JL, Dulin-Iniguez E, Soler-Palacin P; the REDICCMV Study Group. Is Polymerase Chain Reaction in Neonatal Dried Blood Spots Reliable for the Diagnosis of Congenital Cytomegalovirus Infection? *Pediatric Infectious Disease Journal*. 2019; 38(5): 520-4. IF: 2.317 - Article.

- Tagarro A, Cruz-Canete M, Otheo E, Launes C, Couceiro JA, Perez C, Alfayate S; Grupo de trabajo de Infecciones Respiratorias de la SEIP. Oseltamivir para el tratamiento de la gripe en niños y adolescentes. *Anales de Pediatría*. 2019; 90(5): 317.e1-317.e8. IF: 1.166 - Article.

- Borghini L, Png E, Binder A, Wright VJ, Pinnock E, de Groot R, Hazelzet J, Emonts M, Van der Flier M, Schlapbach LJ, Anderson S, Secka F, Salas A, Fink C, Carroll ED, Pollard AJ, Coin LJ, Kuijpers TW, Martinon-Torres F, Zenz W, Levin M, Hibberd ML, Davila S, Gormley S, Hamilton S, Herberg J, Hourmat

- Hoggart C, Kafourou M, Sancho-Shimizu V, Abdulla A, Agapow P, Bartlett M, Bellos E, Eleftherohorinou H, Galassini R, Inwald D, Mashbat M, Menikou S, Mustafa S, Nadel S, Rahman R, Thakker C, Bokhandi S, Power S, Barham H, Pathan N, Ridout J, White D, Thurston S, Faust S, Patel S, McCormick J, Davies P, Cratev L, Navarra H, Carter S, Ramaiah R, Patel R, Tuffrey C, Gribbin A, McCready S, Peters M, Hardy K, Standing F, O'Neill L, Abelake E, Deep A, Nsirim E, Willis L, Young Z, Royad C, White S, Fortune PM, Hudnott P, Gonzalez FA, Barral-Arca R, Cebey-Lopez M, Curras-Tuala MJ, Garcia N, Vicente LG, Gomez-Carballa A, Rial JG, Beiroa AG, Grande AJ, Iglesias PL, Santos AEM, Martinon-Torres N, Sanchez JMM, Perez BM, Pacheco PO, Pardo-Seco J, Pischedda S, Calle IR, Rodriguez-Tenreiro C, Redondo-Collazo L, Fernandez SS, Silva MDP, Vega A, Reyes SB, Leon MCL, Mingorance AN, Barrios XG, Vergara EO, Torre AC, Vivanco A, Fernandez R, Sanchez FG, Forte MS, Rojo P, Contreras JR, Palacios A, Navarro M, Alvarez CA, Lozano MJ, Carreras E, Sanagustin SB, Neth O, Padilla MDM, Tato LMP, Guillen S, Silveira LF, Moreno D, van Furth AMT, van der Flier M, Boeddhna NP, Driessens GJA, Pajkrt D, Sanders EAM, van de Beek D, van der Ende A, Philipsen HLA, Adeel AOA, Breukels MA, Brinkman DMC, de Korte, CCMM, de Vries E, de Waal WJ, Dekkers R, Dings-Lammertink A, Doedens RA, Donker AE, Dousma M, Faber TE, Gerrits, GPJM, Gerver JAM, Heidema J, Homann-van der Veen J, Jacobs MAM, Jansen NJG, Kawczynski P, Klucovska K, Kneyber MCJ, Koopman-Keemink Y, Langenhorst VJ, Leusink J, Loza BF, Merth IT, Miedema CJ, Neeleman C, Noordzij JG, Obihara CC, van Overbeek-van Gils ALT, Poortman GH, Potgieter ST, Potjewijd J, Rosias PPR, Sprong T, ten Tuscher GW, Thio BJ, Tramper-Stranders GA, van Deuren M, van der Meer H, van Kuppevelt AJM, van Wermesken AM, Verwijs WA, Wolfs TFW, Agyeman P, Aebi C, Berger C, Giannoni E, Stocker M, Posfay-Barbe KM, Heininger U, Bernhard-Stirmann S, Niederer-Lohner A, Kahlert C, Hasters P, Relly C, Baer W, Paulus S, Frederick H, Jennings R, Johnston J, Kenwright R, Agbeko R, Bojang K, Sarr I, Kebbeh N, Sey G, Saidyhan M, Cole F, Thomas G, Antonio M, Walcher W, Geishofner G, Klobassa D, Martin M, Pfurtscheller K, Reiter K, Rodl S, Zobel G, Zohrer B, Topke B, Fucik P, Gabriel M, Penzien JM, Diab G, Miethling R, Deeg KH, Hammer J, Varnholt V, Schmidt A, Bindl L, Sillaber U, Huemer C, Meier P, Simic-Schleicher G, Markart M, Pfau E, Broede H, Ausserer B, Kalhoff H, Arpe V, Schweitzer-Krantz S, Kasper JM, Loranth K, Bittrich HJ, Simma B, Klinge J, Fedlmaier M, Weigand N, Herting E, Grube R, Fusch C, Gruber A, Schimmel U, Knauf-Schiefer S, Lassig W, Hennenberger A, von der Wense A, Tillmann R, Schwarck J, Sitzmann FC, Streif W, Muller H, Kurnik P, Groneck P, Weiss U, Groblacher-Roth H, Bensch J, Moser R, Schwarz R, Lenz K, Hofmann T, Gopel W, Schulz D, Berger T, Hauser E, Forster KM, Peters J, Nicolai TH, Kumlien B, Beckmann R, Seitz C, Huseman D, Schurmann R, Ta VH, Weikmann E, Evert W, Hautz J, Seidenberg J, Wocko L, Luigs P, Reiter HL, Quietzach J, Konig M, Herrmann J, Mitter H, Seidler E, Maak B, Sperl W, Zwiauer K, Meissl M, Koch R, Cremer M, Breuer HA, Gorke W, Nossal R, Pernice W, Brangenberg R, Salzer HR, Koch H, Schaller G, Paky F, Strasser F, Eitelberger F, Sontheimer D, Lischka A, Kronberger M, Dilch A, Scheibenpflug C, Bruckner R, Mahler K, Runge K, Kunze W, Schermann P; EUCLIDS Consortium. Identification of regulatory variants associated with genetic susceptibility to meningococcal disease. *Scientific Reports*. 2019; 9(1): 6966. IF: 4.011 - Article.

regulatory variants associated with genetic susceptibility to meningococcal disease. *Scientific Reports*. 2019; 9(1): 6966. IF: 4.011 - Article.

- Fernandez-Cooke E, Barrios Tascon A, Sanchez-Manubens J, Antón J, Grasa Lozano CD, Aracil Santos J, Villalobos Pinto E, Clemente Garulo D, Mercader Rodríguez B, Bustillo Alonso M, Nuñez Cuadros E, Navarro Gómez MI, Domínguez-Rodríguez S, Calvo C; KAWA-RACE study group. Epidemiological and clinical features of Kawasaki disease in Spain over 5 years and risk factors for aneurysm development. (2011-2016): KAWA-RACE study group. *Plos One*. 2019; 14(5): e0215665. IF: 2.776 - Article.

- Chan MK, Goodall R, Judd A, Klein N, Chiappini E, Klimkait T, Ngo-Giang-Huong N, Palma P, Rossi P, Thorne C, Turkova A, Zangari P, Rojo P, Babiker AGA, Fraaij PL, Pajkrt D, Marques L, Collins IJ, Gibb DM, Gonzalez-Tome MI, Ramos JT, Navarro ML, Noguera-Julian A, Warszawski J, Konigs C, Spoulou V, Prata F, Goetghebuer T, Galli L, Naver L, Giaquinto C, Marcynska M, Okhonskaia L, Malyuta R, Volokha A, Ene I, Gibb D, Watters S, Chan M, McCoy L, Babiker A, Marcellin AG, Calvez V, Munoz MA, Wahren B, Foster C, Cotton M, Robb M, Ananworanich J, Claiden P, Pillay D, Persaud D, De Boer RJ, Schroter J, Anelone AJN, Puthanakit T, Ceci A, Giannuzzi V, Luzuriaga K, Chomont N, Cameron M, Cancrini C, Yates A, Kuhn L, Violari A, Otwombe K, Pepponi I, Rocchi F, Rinaldi S, Tagarro A, Lain MG, Vaz P, Lopez E, Nhampossa T; European Pregnancy Paediatr 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 Children's Actual Life with Novel Immunotherapeutic Strategies (EPIICAL) study groups. *AIDS*. 2019; 33(7): 1155-65. IF: 4.499 - Article.

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Sampelayo Matos T, Santos Sebastián M. Characteristics and Disease Course in a Cohort of Children With PFAPA Syndrome in the Community of Madrid, Spain. *Reumatología Clínica*. 2019; 15(6): 355-9. IF: N/A - Article.

- Penazzato M, Townsend CL, Rakhamina N, Cheng Y, Archary M, Cressey TR, Kim MH, Musiime V, Turkova A, Ruel TD, Rabie H, Sugandhi N, Rojo P, Doherty M, Abrams EJ; PAD04 participants. Prioritising the most needed paediatric antiretroviral formulations: the PAD04 list. *Lancet HIV*. 2019; 6(9): 623-31. IF: 14.753 - Review.
- Grasa CD, Fernandez-Cooke E, Sanchez-Manubens J, Anton J, Crespo D, Garcia M, Lopez A, Lirola Cruz MJ, Diaz-Delgado de la Pena R, Calvo C; Spanish network for the study of Kawasaki disease, KAWA-RACE. Kawasaki disease in infants 3 months of age and younger: a multicentre Spanish study. *Annals of the Rheumatic Diseases*. 2019; 78(2): 289-90. IF: 14.299 - Letter.
- Tascón AB, Maifaz FC, Sombrero HR, Fernández-Cooke E, Sánchez-Manubens J, Perez-Lescure Picarzo J; en representacion de la Sociedad Espanola de Cardiología Pediátrica y Cardiopatía. National consensus on the cardiological treatment and follow-up of Kawasaki disease. *Anales de Pediatría*. 2019; 90(2): 135-6. IF: 1.166 - Letter.
- Soriano-Ramos M, Orellana-Felis E, Moral-Pumarega MT, Lopez-Maestro M, de Alba-Romero C, Galindo-Izquierdo A, Pallas-Alonso CR. Heparin in Congenital Chylothorax and Chylous Ascites. *Indian Journal of Pediatrics*. 2019; 86(7): 660-1. IF: 1.136 - Letter.

Theses Defended or Directed on the Group

- Candidate: Julia Origuen
Title: Evaluación del significado de la bacteriuria asintomática en trasplantados renales: estudio prospectivo randomizado de profilaxis vs no profilaxis
Directors: Rafael San Juan, Francisco López Medrano, José Mª Aguado García
Date Defended: 22/01/2019
University: Universidad Complutense de Madrid
International Mention: No

End Graduated Investigations Directed on the Group

- Student: Carmen Arquero
Title: Evaluación de la mejoría clínica con macrólidos en niños con neumonía por mycoplasma
Director: Alfredo Tagarro García
Degree: Grado en Medicina (UCM)

- Student: Ana Camacho
Title: Factores que influyen en un reservorio bajo a largo plazo en niños VIH de transmisión vertical
Director: Alfredo Tagarro García
Degree: Grado en Medicina (UCM)

- Student: Paula Cabrera
Title: Relación entre el peso en la población infantil y la aparición de complicaciones adquirida en la neumonía infantil
Director: Alfredo Tagarro García
Degree: Grado en Medicina (UCM)

- Student: María Remartínez
Title: A prospective, observational, cohort, multicentre study of early antiretroviral treatment in HIV-infected infants
Director: Alfredo Tagarro García
Degree: Grado en Medicina (UCM)

- Student: Paula Díaz Miravalls
Title: Descripción de las neumonías adquiridas en la comunidad por S. aureus en niños
Director: Luis Prieto Tato
Degree: Grado en Medicina (UCM)

- Student: Julia Díaz Miravalls
Title: Descripción de las neumonías adquiridas en la comunidad por S. aureus en niños
Director: Daniel Blázquez Gamero y Luis Prieto Tato
Degree: Grado en Medicina (UCM)

- Student: Riansares Carrero Arribas, Blanca Sánchez Durán y Eloísa Zamora Moreno
Title: Utilidad de la PCR en sangre seca de talón para el diagnóstico de la infección congénita por citomegalovirus
Director: Cinta Moraleda Redecilla y Daniel Blázquez Gamero
Degree: Grado en Medicina (UCM)

- Student: María Martínez Cuevas
Title: Características clínicas, epidemiológicas y factores pronósticos de la infección gestacional por Citomegalovirus
Director: Daniel Blázquez Gamero
Degree: Grado en Medicina (UCM)

- Student: Miriam Bragado Pascual
Title: Impacto global de un programa de optimización del uso de antibióticos en un hospital infantil
Director: Daniel Blázquez Gamero
Degree: Grado en Medicina (UCM)



Communication

- Number of press releases disseminated: 6
- Number of news items published in the written press: 118
- News in other audiovisual media (radio, TV): 2

AREA 8. NEUROSCIENCES AND MENTAL HEALTH

COORDINATOR: EVA M^a CARRO DÍAZ

Cognition and Psychosis

Neurodegenerative Diseases

Translational Psychiatry

Neurotraumatology and Subarachnoid Hemorrhage

Addictions and Comorbidity

Neurovascular Research



The Neurosciences and Mental Health area is made up of 3 mixed groups made up of researchers from the 12 de Octubre (H120) University Hospital and the Faculty of Medicine of the Complutense University of Madrid (UCM), 1 mixed group made up of H120 researchers, the Faculty of Psychology of the UCM and the Faculty of Psychology of the Autonomous University of Madrid (UAM) and 2 groups made up exclusively of H120 researchers.

Objectives set in this area

▪ Objectives set in this area:

- Promote the quality and translation of the results of basic and clinical research - This is one of the main objectives set out in Area 8 with a high degree of implementation. Area 8 is made up of basic groups with great experience in basic research and years of leading or collaborating in cross-sectional research with clinical groups, active in terms of editing protocols and clinical practice guidelines, with notable research activity.
- The area has a high potential availability of patients for clinical and translational research.
- The quality indices of the scientific production of several of its members are at the top of their specialities in Spain and several groups are international references in their respective fields of scientific interest. Almost all the groups in the area are members of national or regional competitive scientific consortia: CIBER, Thematic Networks and others.
- Promote projects, programmes or other initiatives of inter- and intra-area collaboration, and jointly with other groups from other research institutes and organisations.
- The degree of achievement of this priority objective set out in Area 8 has continued to progress and advance during the year. The quality and number of joint projects and publications continues to increase, as does the number of guidelines and clinical trials.
- Within this objective and contributing to the degree of execution achieved, we should also highlight the increase in the incorporation of basic researchers, clinical researchers in training and specialists or senior researchers, following competitive tenders and contracts, integrating them into research groups in the area.
- Promote interaction and cooperation between the research groups that make up the area.
- The area's scientific meetings have been held annually. This last year the meeting of Area 8 took place in October and the content of the meeting was recorded in the corresponding minutes. It was agreed to increase the number of meetings to a minimum of two per year.

List of the five most relevant publications of the Neurosciences and Mental Health Area during 2019

The following are the 5 most relevant publications in the Neurosciences and Mental Health Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. **Cuartero MI, de la Parra J, Perez-Ruiz A, Bravo-Ferrer I, Duran-Laforet V, Garcia-Culebras A, Garcia-Segura JM, Dhaliwal J, Frankland PW, Lizasoain I, Moro MA.** Abolition of aberrant neurogenesis ameliorates cognitive impairment after stroke in mice. *Journal of Clinical Investigation*. 2019; 129(4): 1536-50. IF: 11.864 - D1 - Article.
2. **Garcia-Culebras A, Duran-Laforet V, Peña-Martínez C, Moraga A, Ballesteros I, Cuartero MI, de la Parra J, Palma-Tortosa S, Hidalgo A, Corbi AL, Moro MA, Lizasoain I.** Role of TLR4 (Toll-Like Receptor 4) in N1/N2 Neutrophil Programming After Stroke. *Stroke*. 2019; 50(10): 2922-32. IF: 7.190 - D1 - Article.
3. **Sanchez-Morla EM, Lopez-Villarreal A, Jimenez-Lopez E, Aparicio AI, Martinez-Vizcaino V, Roberto RJ, Vieta E, Santos JL.** Impact of number of episodes on neurocognitive trajectory in bipolar disorder patients: a 5-year follow-up study. *Psychological Medicine*. 2019; 49(8): 1-9. IF: 5.813 - D1- Article.
4. **Fernandez-Sotos P, Fernandez-Caballero A, Gonzalez P, Aparicio AI, Martinez-Gras I, Torio I, Dompablo M, Garcia-Fernandez L, Santos JL, Rodriguez-Jimenez R.** Digital Technology for Internet Access by Patients With Early-Stage Schizophrenia in Spain: Multicenter Research Study. *Journal of Medical Internet Research*. 2019; 21(4): e11824. IF: 5.034 - D1- Article.
5. **Gimenez-Gomez P, Perez-Hernandez M, O'Shea E, Caso JR, Martin-Hernandez D, Cervera LA, Centelles MLG, Gutierrez-Lopez MD, Colado MI.** Changes in brain kynurenone levels via gut microbiota and gut-barrier disruption induced by chronic ethanol exposure in mice. *FASEB Journal*. 2019; 33(11): 12900-14. IF: 4.966 - D1 - Article.

COGNITION AND PSYCHOSIS

CENTER: Hospital Universitario 12 de Octubre (H12O) – Universidad Complutense de Madrid (UCM) – Universidad Autónoma de Madrid (UAM)

GROUP LEADER: Rodríguez Jiménez, Roberto (R4)

Bagney Lifante, Alexandra - Postdoctoral Researcher (R2)
Caballero González, Montserrat - Clinical Researcher
Domínguez Tobar, Mónica - Postdoctoral Researcher (R2)
Espejo-Saavedra Roca, Juan Manuel - Postdoctoral Researcher (R2)
Fares Otero, Natalia Elena - Postdoctoral Researcher (R2)
Feito García, Marta - Support Nurse
Fernández Sotos, Patricia - Predoctoral Researcher (R1)
García López, Alicia - Predoctoral Researcher (R1)
Jiménez Arriero, Miguel Ángel - Doctoral Researcher (R3)
Martínez Gras, Isabel - Postdoctoral Researcher (R2)
Molina Martín, Juan de Dios - Postdoctoral Researcher (R2)

Moreno Montes, Eva Mª - Doctoral Researcher (R4)
Olmos Albacete, Ricardo - Doctoral Researcher (R3)
Pérez Nevot, Antonio Luis - Clinical Researcher
Rentero Martín, David - Predoctoral Researcher (R1)
Romero Ferreiro, Mª Verónica - Doctoral Researcher (R3)
Rosa Cerezo, Laura - Support Nurse
Saiz Brionez, Nazaret - Support Nurse
Sánchez Morla, Eva Mª - Doctoral Researcher (R3)
Sánchez Pastor, Luis - Clinical Researcher
Serrano Pedraza, Ignacio - Doctoral Researcher (R3)
Torío Palmero, losune - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Non Competitive	Various	1
TOTAL		3

▪ **Title:** Impacto de los episodios maníacos en la progresión del deterioro cognitivo en el trastorno bipolar y su relación con actividad inflamatoria y estrés oxidativo: estudio longitudinal a 2 años.

Principal Investigator: Eva Mª Sánchez Morla

Project No.: PI18/01275

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Factores que influyen en la funcionalidad en la comunidad de pacientes con primeros episodios psicóticos. Estudio longitudinal de neurocognición, cognición social y síntomas clínicos.

Principal Investigator: Roberto Rodríguez Jiménez

Project No.: PI16/00359

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

▪ **Title:** Factores que influyen en la comunidad de pacientes con esquizofrenia en estados iniciales: estudio longitudinal de neurocognición, cognición social y síntomas clínicos.

Principal Investigator: Roberto Rodríguez Jiménez

Funding Body: Otsuka Pharmaceutical S.A.

Start date: 31/07/2016

End date: 30/07/2019

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12O)

▪ **Title:** The binocular interaction in motion perception: implications on the activation of visual inhibitory mechanisms.

Project No.: PGC2018-093406-B-I00

Principal Investigator: Ignacio Serrano Pedraza

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Estudios electrofisiológicos del lenguaje y de la cognición social en pacientes con esquizofrenia, familiares de primer grado y sujetos control.

Project No.: PGC2018-098876-B-100

Principal Investigator: Eva Mª Moreno Montes

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2019

End date: 31/12/2021

▪ **Title:** Entornos inteligentes controlados por respuestas fisiológicas, perceptuales y conductuales ante experiencias emocionales.

Principal Investigator: Antonio Fernández Caballero, José Miguel Latorre Postigo **Project No.:** (DPI2016-80894-R)

Funding Body: Ministerio de Economía, Industria y Competitividad

Start date: 01/01/2016

End date: 31/12/2019

▪ **Title:** Test Adaptativos Informatizados Multidimensionales: mejoras en la calibración y en los algoritmos de selección de ítems.

Project No.: PSI2017-85022-P

Principal Investigator: Francisco J. Abad García

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2018

End date: 31/12/2020

▪ **Title:** Nuevas estrategias terapéuticas basadas en la realidad virtual para el tratamiento de los trastornos por uso de alcohol.

Principal Investigator: Rosa Mª Jurado Barba

Project No.: (PSI2015-68851-P)

Funding Body: Ministerio de Economía, Industria y Competitividad

Start date: 2016

End date: 2018, ampliado a junio de 2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	14	53.620
Reviews	1	2.776
Editorials	2	5.979
TOTAL	17	62.193

▪ Jiménez-López E, Sanchez-Morla EM, Lopez-Villarreal A, Aparicio Al, Martinez-Vizcaino V, Vieta E, Rodriguez-Jimenez R, Santos JL. Neurocognition and functional outcome in patients with psychotic, non-psychotic bipolar I disorder, and schizophrenia. A five-year follow-up. European Psychiatry.

2019; 56: 60-8. IF: 3.941 - Article.

▪ Fernandez-Sotos P, Fernandez-Caballero A, Gonzalez P, Aparicio Al, Martinez-Gras I, Torio I, Domínguez M, Garcia-Fernandez L, Santos JL, Rodriguez-Jimenez R. Digital Technology for Internet Access by Patients With Early-Stage Schizophrenia in Spain: Multicenter Research Study. Journal of Medical Internet Research. 2019; 21(4): e11824. IF: 4.945 - Article.

▪ Arango C, Baeza I, Bernardo M, Canas F, de Dios C, Diaz-Marsa M, Garcia-Portilla MP, Gutierrez-Rojas L, Olivares JM, Rico-Villademoros F, Rodriguez-Jimenez R, Sanchez-Morla EM, Segarra R, Crespo-Facorro B. Long-acting injectable antipsychotics for the treatment of schizophrenia in Spain. Revista de Psiquiatria y Salud Mental. 2019; 12(2): 92-105. IF: 2.927 - Article.

▪ de Santiago L, Sánchez Morla EM, Ortiz M, Lopez E, Amo Usanos C, Alonso-Rodríguez MC, Barea R, Cavaliere-Ballesta C, Fernandez A, Boquete L. A computer-aided diagnosis of multiple sclerosis based on mfVEP recordings. Plos One. 2019; 14(4): e0214662. IF: 2.776 - Article.

▪ Fernandez-Sotos P, Lopez-Arcas Calleja P, Lozano-Vicario L, Garcia-Tercero E, del Yerro-Alvarez MJ, Lopez-Alvarez J. Sindrome de leuocencefalopatia posterior reversible en un paciente con enfermedad de Parkinson y sintomatología inicial psiquiatrica: una presentacion clinica compleja. Revista de Neurologia. 2019; 68(10): 426-30. IF: 0.485 - Article.

▪ Sanchez-Morla EM, Lopez-Villarreal A, Jimenez-Lopez E, Aparicio Al, Martinez-Vizcaino V, Roberto RJ, Vieta E, Santos JL. Impact of number of episodes on neurocognitive trajectory in bipolar disorder patients: a 5-year follow-up study. Psychological Medicine. 2019; 49(8): 1-9. IF: 5.641 - Article.

▪ Bioque M, Mas S, Costanzo MC, Cabrera B, Lobo A, Gonzalez-Pinto A, Rodriguez-Toscano E, Corripio I, Vieta E, Baeza I, Ibanez A, Fraile MG, Cuesta MJ, Mezquida G, Lafuente A, Bernardo M, Amoretti S, Meseguer A, Lopez G, Vidal J, Alonso A, Rabella M, Ortega IG, Lopez P, Barcones MF, de-Lacamara C, Sanjuan J, Rovira EL, Mane A, Berge D, Sole B, Gomes-Da Costa S, de la Serna E, Castro-Fornieles J, Contreras F, Albacete A, Garcia-Alvarez L, Tomas LD, Zabala A, Segarra R, Morales-Munoz I, Rodriguez-Jimenez R, Usall J, Butjosa A, Sarro S, Landin-Romero R, Saiz-Ruiz J, Lopez-Illundain JM, Balanza-Martinez V, PEPs GRP. Gene-environment interaction between an endocannabinoid system genetic polymorphism and cannabis use in first episode of psychosis. European Neuropsychopharmacology. 2019; 29(6): 786-94. IF: 4.468 - Article.

▪ Nunez C, Stephan-Otto C, Usall J, Bioque M, Lobo A, Gonzalez-Pinto A, Pina-Camacho L, Vieta E, Castro-Fornieles J, Rodriguez-Jimenez R, Butjosa A, Janssen J, Cabrera B, Parellada M, Bernardo M, PEPs group. Neutrophil Count Is Associated with Reduced Gray Matter and Enlarged Ventricles in First-Episode Psychosis. Schizophrenia Bulletin. 2019; 45(4): 846-58. IF: 7.289 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Escarti MJ, Garcia-Martí G, Sanz-Requena R, Martí-Bonmatí L, Cabrera B, Vieta E, Lobo A, Castro-Fornieles J, Gonzalez-Pinto A, Cortizo R, Piñacamacho L, Parellada M, Bernardo M, Sanjuan J, Mezquida G, Bioque M, Janssen J, Arango C, Zorilla I, Gonzalez I, de-la-Camara C, Barcones MF, García-Iturroso EJA, Mane A, Montserrat C, Bonnin CM, Martínez-Aran A, de la Serna E, Baeza I, Contreras F, Menchón JM, González-Blanco L, García-Alvarez L, Rodríguez-Jiménez R, Morales-Muñoz I, Usall J, Butjosa A, Sarro S, Pomarol-Clotet E, PEPs Grp. Auditory hallucinations in first-episode psychosis: A voxel-based morphometry study. *Schizophrenia Research*. 2019; 209: 148-55. IF: 4.569 - Article.
- Rodríguez-Jiménez R, Santos JL, Domínguez M, Santabarbara J, Aparicio Al, Olmos R, Jiménez-López E, Sanchez-Morla E, Lobo A, Palomo T, Kern RS, Green MP, Nuechterlein KH, García-Fernández L. MCCB cognitive profile in Spanish first episode schizophrenia patients. *Schizophrenia Research*. 2019; 211: 88-92. IF: 4.569 - Article.
- 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, From the FLAMM-PEPs study, Centro de Investigación Biomédica en Red de Salud Mental. Differences in the regulation of inflammatory pathways in adolescent- and adult-onset first-onset psychosis. *European Child & Adolescent Psychiatry*. 2019; 28(10): 1395-405. IF: 3.74 - Article.
- García-Fernández L, Cabot-Ivorra N, Rodríguez-García V, Pérez-Martín J, Domínguez M, Pérez-Gálvez B, Rodríguez-Jiménez R. Computerized cognitive remediation therapy, REHACOM, in first episode of schizophrenia: A randomized controlled trial. *Psychiatry Research*. 2019; 281: 112563. IF: 2.208 - Article.
- Cavaliere C, Vilades E, Alonso-Rodríguez MC, Rodrigo MJ, Pablo LE, Miguel JM, López-Guillén E, Morla EMS, Boquete L, García-Martín E. Computer-Aided Diagnosis of Multiple Sclerosis Using a Support Vector Machine and Optical Coherence Tomography Features. *Sensors*. 2019; 19(23): 5323. IF: 3.031 - Article.
- de Santiago L, Ortiz Del Castillo M, García-Martín E, Rodrigo MJ, Sánchez Morla EM, Cavaliere C, Cordón B, Miguel JM, López A, Boquete L. Empirical Mode Decomposition-Based Filter Applied to Multifocal Electoretinograms in Multiple Sclerosis Diagnosis. *Sensors*. 2019; 20(1): 7. IF: 3.031 - Article.
- Fernandez-Sotos P, Torio I, Fernandez-Caballero A, Navarro E, Gonzalez P, Domínguez M, Rodríguez-Jiménez R. Social cognition remediation interventions: A systematic mapping review. *Plos One*. 2019; 14(6): e0218720. IF: 2.776 - Review.
- Salagre E, Arango C, Artigas F, Ayuso-Mateos JL, Bernardo M, Castro-Fornieles J, Bobes J, Desco M, Fananas L, Gonzalez-Pinto A, Haro JM, Leza JC, McKenna PJ, Meana JJ, Menchón JM, Mico JA, Palomo T, Pazos A, Perez V, Saiz-Ruiz J, Sanjuan J, Tabares-Seisdedos R, Crespo-Facorro B, Casas M, Vilella E, Palao D, Olivares JM, Rodriguez-Jiménez R, Vieta E. CIBERSAM: Ten years of collaborative translational research in mental disorders. *Revista de Psiquiatría y Salud Mental*. 2019; 12(1): 1-8. IF: 2.927 - Editorial Material.
- Fernandez-Caballero A, Miguel Latorre J, Martinez-Rodrigo A, Rodriguez-Jiménez R, Hussain A. Editorial: Physiological Computing of Social Cognition. *Frontiers in Human Neuroscience*. 2019; 13: 326. IF: 2.87 - Editorial Material.

Theses Defended or Directed on the Group

- Candidate:** Estela Jiménez López
Title: Neurocognición y resultado funcional en el trastorno bipolar con síntomas psicóticos.
Directors: José Luis Santos Gómez, Eva Mª Sánchez Morla
Date Defended: 03/05/2019
University: Universidad de Castilla-La Mancha
International Mention: No
- Candidate:** Miguel Ortiz del Castillo
Title: Análisis avanzado de registros de electrorretinografía multifocal aplicado al diagnóstico de esclerosis múltiple.
Directors: Luciano Boquete Vázquez, Eva Mª Sánchez Morla
Date Defended: 20/06/2019
University: Universidad de Alcalá
International Mention: No
- Candidate:** Iosune Torío Palmero
Title: Conciencia de enfermedad en esquizofrenia: relación con sintomatología y cognición.
Director: Roberto Rodríguez Jiménez
Date Defended: 08/11/2019
University: Universidad Complutense de Madrid
International Mention: No
- Candidate:** Lorena Alicia Martín Arnal
Title: Let's read comics and texts! A comparative study performed with children and adults.
Directors: José Antonio León Cascón, Ricardo Olmos Albacete
Date Defended: 29/11/2019
University: Universidad Autónoma de Madrid
International Mention: Sí

End Master Investigations Directed on the Group

- Student:** Alberto Velasco Herrera
Title: Intervenciones positivas como apoyo al tratamiento en trastorno mental grave
Director: Mª Verónica Romero Ferreiro
Master: Máster Universitario en Psicología General Sanitaria (UCM)
- Student:** Aurora García Robles
Title: Sesgo atribucional en pacientes tras un Primer Episodio Psicótico: un estudio de casos y controles
Directors: Roberto Rodríguez Jiménez, Mónica Domínguez Tobar, Iosune Torío Palmero
Master: Máster Universitario en Iniciación a la Investigación en Salud Mental
- Student:** Belén Casado Carrillo
Title: Disparity Sensitivity Function in the elderly
Director: Ignacio Serrano Pedraza
Master: Máster Universitario en Psicogerontología (UCM)
- Student:** Laura Ortiz García
Title: Estilos atribucionales en Primeros Episodios Psicóticos: Internal, Per-

sonal And Situational Attributions Questionnaire (IPSAQ)
Directors: Roberto Rodríguez Jiménez, Mónica Domínguez Tobar, Iosune Torío Palmero
Master: Máster Universitario en Iniciación a la Investigación en Salud Mental

End Graduated Investigations Directed on the Group

- Student:** Ana Ferriz Díaz
Title: Relación entre los ácidos grasos Omega 3 (DHA) y el trastorno por déficit de atención y/o hiperactividad en la infancia.
Director: Mª Verónica Romero Ferreiro
Degree: Grado en Psicología (UCM)

Prizes and Awards

- Mª Verónica Romero Ferreiro: Premio extraordinario de doctorado correspondiente al curso 2016-2017. Otorgado por la Comisión Permanente del Consejo de Gobierno de la UCM el 19/10/2019.

NEURODEGENERATIVE DISEASES

CENTER: Hospital Universitario 12 de Octubre (H12O)

GROUP LEADER: Carro Diaz, Eva M^a (R4)

Antequera Tienda, Desireé - Support Technician
 Bartolomé Robledo, Fernando - Doctoral Researcher (R3)
 Benito León, Julián - Doctoral Researcher (R3)
 Bermejo Pareja, Félix - Consultant
 Blanco Palmero, Víctor Antonio - Clinical Researcher
 Da Cunha Alves, Victoria - Predoctoral Researcher (R1)
 de la Cueva de Vicente, Macarena - Predoctoral Researcher (R1)
 González Sánchez, Marta - Predoctoral Researcher (R1)

Hernández Gallego, Jesús - Doctoral Researcher (R3)
 Herrero San Martín, Alejandro Octavio - Clinical Researcher
 Llamas Velasco, Sara - Postdoctoral Researcher (R2)
 Molina Arjona, José Antonio - Doctoral Researcher (R3)
 Pérez Martínez, David Andrés - Postdoctoral Researcher (R2)
 Rubio Fernández, Marcos - Doctoral Researcher (R3)
 Villarejo Galende, Alberto - Doctoral Researcher (R3)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	3
Competitive	MINECO	1
Non Competitive	Various	6
TOTAL		10

- Title:** Validación de la proteína salival lactoferrina como biomarcador de la Enfermedad de Alzheimer: alternativa al diagnóstico y mecanismo patogénico.

Principal Investigator: Eva M^a Carro Diaz

Project No.: PI18/00118

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Evolución clínica y radiológica del síndrome radiológico aislado.

Principal Investigator: Julián Benito León

Project No.: PI16/00451

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

- Title:** Inflamación periférica como factor de riesgo en la patología de la enfermedad de Alzheimer: nuevas herramientas diagnósticas y dianas terapéuticas.

Principal Investigator: Eva M^a Carro Diaz

Project No.: PI15/00780

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2019

- Title:** Aproximación multiómica para el diagnóstico precoz de la Enfermedad de Alzheimer y la Enfermedad de Parkinson.

Principal Investigator: Julián Benito León

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/06/2019

End date: 31/05/2020

- Title:** Cuidados y consejos al paciente con Esclerosis Múltiple.

Principal Investigator: David Andrés Pérez Martínez

Funding Body: MERCK S.L.U.

Start date: 01/06/2017

End date: 06/07/2020

- Title:** Environmental epidemiology of essential tremor.

Principal Investigator: Julián Benito León

Funding Body: YALE UNIVERSITY

Start date: 15/03/2018

End date: 28/02/2021

- Title:** Desarrollo programa de cribado virtual para el diagnóstico precoz para pacientes con Esclerosis Múltiple.

Principal Investigator: David Andrés Pérez Martínez

Funding Body: NOVARTIS FARMACEUTICA S.A.

Start date: 22/02/2018

End date: 21/02/2020, extended to 31/01/2021

- Title:** ETORGAI-ANTIAGE "ANTIAGE (productos personalizados para combatir el envejecimiento)".

Principal Investigator: Eva M^a Carro Diaz

Funding Body: BIOPRAXIS RESEARCH AIE

Start date: 08/06/2015

End date: 07/06/2020

- Title:** Creación, gestión y mantenimiento de una plataforma digital común para la detección precoz y abordaje de la disfunción neuropsicológica en pacientes de esclerosis múltiple del Hospital Universitario 12 de Octubre.

Principal Investigator: Julián Benito León

Funding Body: NOVARTIS FARMACEUTICA S.A

Start date: 06/08/2015

End date: 05/08/2018, extended to 31/01/2019

- Title:** Estudio ICHRIS (improving characterization of radiologically isolated syndrome).

Principal Investigator: Julián Benito León

Funding Body: Fundación Investigación Biomédica Hospital 12 de Octubre

Start date: 27/10/2016

End date: 26/10/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	19	79.326
Reviews	3	10.745
TOTAL	22	90.071
Letters	4	5.935
TOTAL	26	96.006

- Martínez de Toda I, Miguelez L, Vida C, Carro E, De la Fuente M. Altered Redox State in Whole Blood Cells from Patients with Mild Cognitive Impairment and Alzheimer's Disease. *Journal of Alzheimers Disease*. 2019; 71(1): 153-63. IF: 3.517 - Article.

- Bermejo-Guerrero L, Sanchez-Tejerina D, Sanchez-Tornero M, Sánchez-Sánchez MDC, Gomez-Grande A, Villarejo-Galende A, Martín AOH, Gonzalez-Sánchez M. Low Amyloid-PET Uptake in Iowa-Type Cerebral Amyloid Angiopathy with Cerebral Venous Thrombosis. *Journal of Alzheimers Disease*. 2019; 72(3): 677-81. IF: 3.517 - Article.

- Costa AS, Jokel R, Villarejo A, Llamas-Velasco S, Domoto-Reilley K, Wojtala

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

J, Reetz K, Machado A. Bilingualism in Primary Progressive Aphasia A Retrospective Study on Clinical and Language Characteristics. *Alzheimer Disease & Associated Disorders*. 2019; 33(1): 47-53. IF: 2.378 - Article.

Contador I, Bermejo-Pareja F, Fernandez-Calvo B, LLamas S, Villarejo A, Vega S, Benito-Leon J. Disability subtypes and mortality rates in older adults: A longitudinal population-based study (NEDICES). *Archives of Gerontology and Geriatrics*. 2019; 80: 88-94. IF: 2.611 - Article.

Benito-Leon J, Serrano JL, Louis ED, Holobar A, Romero JP, Povalej-Brzan P, Kranjc J, Bermejo-Pareja F, del Castillo MD, Posada IJ, Rocon E. Essential tremor severity and anatomical changes in brain areas controlling movement sequencing. *Annals of Clinical and Translational Neurology*. 2019; 6(1): 83-97. IF: 4.656 - Article.

Perez-Grijalba V, Romero J, Pesini P, Sarasa L, Monleon I, San-Jose I, Arbizu J, Martinez-Lage P, Munuera J, Ruiz A, Tarraga L, Boada M, Sarasa M, Goni M, Pujadas F, Villarejo A, Frank A, Pena-Casanova J, Fernandez M, Pinol G, Blesa R, Gil P, Pascual LF, Aguilar M, Frisoni GB, Matias-Guiu J, Andreasen N, Antunez C, Vellas B, Touchon J, AB255 Study Grp. Plasma A beta 42/40 Ratio Detects Early Stages of Alzheimer's Disease and Correlates with CSF and Neuroimaging Biomarkers in the AB255 Study. *Jpad-Journal of Prevention of Alzheimers Disease*. 2019; 6(1): 34-41. IF: - Article.

Vida C, Kobayashi H, Garrido A, Martinez de Toda I, Carro E, Molina JA, De la Fuente M. Lymphoproliferation Impairment and Oxidative Stress in Blood Cells from Early Parkinson's Disease Patients. *International Journal of Molecular Sciences*. 2019; 20(3): 771. IF: 4.183 - Article.

Posa D, Martinez-Gonzalez L, Bartolome F, Nagaraj S, Porras G, Martinez A, Martin-Reqero A. Recapitulation of Pathological TDP-43 Features in Immortalized Lymphocytes from Sporadic ALS Patients. *Molecular Neurobiology*. 2019; 56(4): 2424-32. IF: 4.586 - Article.

Muceli S, Poppendieck W, Hoffmann KP, Dosen S, Benito-Leon J, Barroso FO, Pons JL, Farina D. A thin-film multichannel electrode for muscle recording and stimulation in neuroprosthetics applications. *Journal of Neural Engineering*. 2019; 16(2): 26035. IF: 4.551 - Article.

Lopez-Blanco R, Velasco MA, Mendez-Guerrero A, Romero JP, del Castillo MD, Serrano JL, Rocon E, Benito-Leon J. Smartwatch for the analysis of rest tremor in patients with Parkinson's disease. *Journal of the Neurological Sciences*. 2019; 401: 37-42. IF: 2.651 - Article.

Mato-Abad V, Labiano-Fontcuberta A, Rodriguez-Yanez S, Garcia-Vazquez R, Munteanu CR, Andrade-Garda J, Domingo-Santos A, Galan Sanchez-Seco V, Aladro Y, Martinez-Gines ML, Ayuso L, Benito-Leon J. Classification of radiologically isolated syndrome and clinically isolated syndrome with machine-learning techniques. *European Journal of Neurology*. 2019; 26(7): 1000-5. IF: 4.387 - Article.

- Laurence M, Benito-Leon J, Calon F. Malassezia and Parkinson's Disease. *Frontiers in Neurology*. 2019; 10: 758. IF: 2.635 - Article.
- Benito-Leon J, Contador I, Vega S, Villarejo-Galende A, Bermejo-Pareja F. Non-steroidal anti-inflammatory drugs use in older adults decreases risk of Alzheimer's disease mortality. *Plos One*. 2019; 14(9): e0222505. IF: 2.776 - Article.
- Matarazzo M, Arroyo-Gallego T, Montero P, Puertas-Martín V, Butterworth I, Mendoza CS, Ledesma-Carbajo MJ, Catalán MJ, Molina JA, Bermejo-Pareja F, Martínez-Castrillo JC, López-Manzanares L, Alonso-C?novas A, Rodríguez JH, Obeso I, Martínez-Martín P, Martínez-Ávila JC, de la Cámara AG, Gray M, Obeso JA, Giancardo L, Sánchez-Ferro Á. Remote Monitoring of Treatment Response in Parkinson's Disease: The Habit of Typing on a Computer. *Movement Disorders*. 2019; 34(10): 1488-95. IF: 8.222 - Article.
- González de la Aleja J, Guerrero-Molina M, Saiz-Díaz RA, Lopez-Munoz F, Raga-Martínez I, Hernandez-Gallego J, Navarrete-Chamorro P, Povedano-Montero FJ. Peripapillary retinal nerve fibre layer thinning in genetic generalized epilepsy. *Seizure-European Journal of Epilepsy*. 2019; 71: 201-6. IF: 2.765 - Article.
- Marquie M, Aguero C, Amaral AC, Villarejo-Galende A, Ramanan P, Chong MST, Saez-Calveras N, Bennett RE, Verwer EE, Kim SJW, Dhaynaut M, Alvarez VE, Johnson KA, McKee AC, Frosch MP, Gomez-Isla T. [18 F]-AV-1451 binding profile in chronic traumatic encephalopathy: a postmortem case series. *Acta Neuropathologica Communications*. 2019; 7(1): 164. IF: 5.883 - Article.
- Benito-Leon J, Sanz-Morales E, Melero H, Louis ED, Romero JP, Rocon E, Malpica N. Graph theory analysis of resting-state functional magnetic resonance imaging in essential tremor. *Human Brain Mapping*. 2019; 40(16): 4686-702. IF: 4.554 - Article.
- Benito-Leon J, Romero JP, Louis ED, Sanchez-Ferro A, Matarazzo M, Molina-Arjona JA, Mato-Abad V. Diffusion tensor imaging in orthostatic tremor: a tract-based spatial statistics study. *Annals of Clinical and Translational Neurology*. 2019; 6(11): 2212-22. IF: 4.656 - Article.
- Perez-Grijalba V, Arbizu J, Romero J, Prieto E, Pesini P, Sarasa L, Guillen F, Monleon I, San-Jose I, Martinez-Lage P, Munuera J, Hernandez I, Buendia M, Sotolongo-Grau O, Alegret M, Ruiz A, Tarraga L, Boada M, Sarasa M, Goni M, Pujadas F, Villarejo A, Frank A, Pena-Casanova J, Fernandez M, Pinol G, Blesa R, Gil P, Pascual LF, Aguilar M, Frisoni GB, Matias-Guiu J, Andreassen N, Antunez C, AB255 Study Grp. Plasma A beta 42/40 ratio alone or combined with FDG-PET can accurately predict amyloid-PET positivity: a cross-sectional analysis from the AB255 Study. *Alzheimers Research & Therapy*. 2019; 11(1): 96. IF: 6.142 - Article.
- Benito-Leon J, Louis ED, Mato-Abad V, Sanchez-Ferro A, Romero JP, Matarazzo M, Serrano JL. A data mining approach for classification of orthostatic and essential tremor based on MRI-derived brain volume and

- cortical thickness. *Annals of Clinical and Translational Neurology*. 2019; 6(12): 2531-43. IF: 4.656 - Article.
- Hernandez-Gallego J, Llamas-Velasco S, Bermejo-Pareja F, Vega S, Tapia-Merino E, Rodriguez-Sanchez E, Boycheva E, Serrano JL, Gil-Garcia JF, Trincado R, Sanchez-Rodrigo JMV, Cacho J, Contador I, Garcia-Ptacek S, Sierra-Hidalgo F, Cubo E, Carro E, Villarejo-Galende A, Garcia-Patino RG, Benito-Leon J. Neurological Disorders in Central Spain, Second Survey: Feasibility Pilot Observational Study. *Jmir Research Protocols*. 2019; 8(1): e10941. IF: N/A - Article.
- León Ruiz M, Rodríguez Sarasa ML, Sanjuán Rodríguez L, Pérez Nieves MT, Ibáñez Estélez F, Arce S, García-Albea Ristol E, Benito-Leon J. Guidelines for seizure management in palliative care: Proposal for an updated clinical practice model based on a systematic literature review. *Neurologia*. 2019; 34(3): 165-97. IF: 2.038 - Review.
- Ferreira JJ, Mestre TA, Lyons KE, Benito-León J, Tan EK, Abbruzzese G, Hallett M, Haubenberger D, Elble R, Deuschl G, MDS Task Force on Tremor and the MDS Evidence Based Medicine Committee. MDS evidence-based review of treatments for essential tremor. *Movement Disorders*. 2019; 34(7): 950-8. IF: 8.222 - Review.
- León-Ruiz M, Pérez-Nieves MT, Arce-Arce S, Benito-León J, Ezpeleta-Echávarri D. Evidencias actuales sobre la realidad virtual y su utilidad potencial en la neurorrehabilitación postictus. *Revista de Neurologia*. 2019; 69(12): 497-506. IF: 0.485 - Review.
- León Ruiz M, Benito-León J. The Top 50 Most-Cited Articles in Orthostatic Tremor: A Bibliometric Review. *Tremor and Other Hyperkinetic Movements*. 2019; 9. IF: N/A - Review.
- León-Ruiz M, Benito-León J. Craniocerebral metastases from a supraglottic squamous cell carcinoma: A case report and literature review. *Clinical Case Reports*. 7(12): 2316 - 2320. IF: N/A - Review.
- Benito-Leon J, Laurence M. Malassezia in the central nervous system and multiple sclerosis. *Infection*. 2019; 47(1): 135-6. IF: 2.927 - Letter.
- León Ruiz M, García Soldevilla MA, Vidal Díaz MB, Izquierdo Esteban L, Benito-Leon J, García-Albea Ristol E. Acute myocardial infarction associated with bilateral subacute cardioembolic stroke in the anterior cerebral artery territory: The hidden face of a new-onset atrial fibrillation. *Neurologia*. 2019; 34(2): 127-30. IF: 2.038 - Letter.
- Sanchez-Tejerina San Jose D, Ostos-Moliz F, Toldos-Gonzalez O, Gonzalo-Martinez JF, Herrero-San Martin A. Miopatia toxica asociada al tratamiento concomitante con atorvastatina y colchicina. *Revista de Neurologia*. 2019; 68(11): 488-9. IF: 0.485 - Letter.
- Laespada-Garcia MI, Bermejo-Guerrero L, Rabano-Suarez P, Ruiz-Ortiz M, Azcarate-Diaz FJ, Ramos-Gonzalez A, Herrero-San Martin AO. Signo de sal

- y pimienta como presentación de una lesión pontina no vascular. *Revista de Neurologia*. 2019; 69(3): 133-4. IF: 0.485 - Letter.

Theses Defended or Directed on the Group

- Candidate:** David Andrés Pérez Martínez
Title: Evaluación y desarrollo de una consulta médica virtual en un servicio de neurología: eficiencia, seguridad y satisfacción de un modelo de consulta de visita única y evaluación virtual de resultados.
Director: Jorge Matías-Guiu Guia
Date Defended: 25/10/2019
University: Universidad Complutense de Madrid
International Mention: No

End Master Investigations Directed on the Group

- Student:** Adriana Figueroa García
Title: Efecto del silenciamiento de SORL1 en la viabilidad celular y la autofagia
Director: Eva Mª Carro Díaz, Fernando Bartolomé Robledo
Master: Máster Universitario en Terapias Avanzadas e Innovación Biotecnológica (Universidad Francisco de Vitoria)
- Student:** Jairo Sanz Corbacho
Title: El papel de la α -sinucleína total y oligomerizada en saliva como biomarcador en la enfermedad de parkinson
Director: Eva Mª Carro Díaz, Fernando Bartolomé Robledo
Master: Máster

End Graduated Investigations Directed on the Group

- Student:** Paula Carrasquilla García
Title: Estudio de la interacción de α -sinucleína con procesos neurodegenerativos
Director: Eva Mª Carro Díaz, Fernando Bartolomé Robledo
Degree: Grado en Biología (UCM)
- Student:** María Rodríguez Jiménez
Title: Estudio de alteraciones del ritmo circadiano en un modelo animal de alzheimer: ratones APP/PS1
Director: Eva Mª Carro Díaz
Degree: Grado en Biología (UCM)

- Student:** Lucía María Ferro Martínez
Title: Estudio de mecanismos moleculares implicados en la regulación de la lactoferrina en glándulas salivales en la enfermedad de alzheimer
Director: Eva Mª Carro Díaz, Fernando Bartolomé Robledo
Degree: Grado en Biología (UCM)

- Student:** Aida Lema Vila
Title: Estudio de los inhibidores de bace sobre la producción de β -amiloide
Director: Eva Mª Carro Díaz, Fernando Bartolomé Robledo
Degree: Grado en Biología (UCM)

Patents

- Title:** Agentes moduladores de N-Procalcitonina para la prevención y el tratamiento de enfermedades neurodegenerativas.
Number: PCT/ES2015/070004
Type: PCT patent.
Inventors: Eva Mª Carro Diaz, Eva Tavares Vázquez, Javier Miñano Sánchez
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,66%), Servicio Andaluz de Salud (50%), Universidad de Sevilla (16,66%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (16,66%)
Date of application: 08/01/2015
- Title:** Infrared analysis of peripheral blood fractions obtained to indicate cognitive development associated with Alzheimer's Disease.
Inventors: Pedro Carmona Hernández, Adolfo Toledano Gasca, Miguel Calero Vara, Pablo Martínez Martín, Félix Bermejo Pareja
Owners: Consejo Superior Investigaciones Científicas (50%), Instituto de Salud Carlos III (25%), Fundación CIEN (5%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%)
No. PCT USA national phase entry request: 14237979
Date of application: 12/05/2014
- Title:** Infrared analysis of peripheral blood fractions obtained to indicate cognitive development associated with Alzheimer's Disease.
Inventors: Pedro Carmona Hernández, Adolfo Toledano Gasca, Miguel Calero Vara, Pablo Martínez Martín, Félix Bermejo Pareja
Owners: Consejo Superior Investigaciones Científicas (50%), Instituto de Salud Carlos III (25%), Fundación CIEN (5%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%)
Nº Application for national phase PCT EP: 12821746
Date of application: 12/02/2014
- Title:** Agentes moduladores de N-Procalcitonina para la prevención y el tratamiento de enfermedades neurodegenerativas.
Inventors: Eva Tavares Vázquez, Javier Miñano Sánchez y Eva Mª Carro Díaz.
Owners: Servicio Andaluz de Salud (50%), Universidad de Sevilla (16,66%),

Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,66%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (16,66%).

Nº Solicitud Patente Española: P201430015

Fecha solicitud: 08/01/2014

- **Title:** Modelo animal de déficit cognitivo, procedimiento de obtención y aplicaciones Alzheimer.

Inventors: Eva Mª Carro Díaz, Desireé Antequera Tienda, Consuelo Pascual Pérez

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (50%)

PCT extension application No.: PCT/ES2013/070693

Date of application: 07/10/2013

- **Title:** Use of Microparticles Containing Genetically Modified Cells in the Treatment of Neurodegenerative Diseases (EN).

Inventors: Rosa Mª Hernández Martín, Gorka Orive Arroyo, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva Mª Carro Díaz y José Luis Pedraz Muñoz

Owners: Universidad del País Vasco, Fundación para la Investigación Biomédica del Hospital 12 de Octubre, Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED)

Nº Publicación Internacional: WO/2010/010223

Fecha de Publicación Internacional: 28/01/2010

Nº de solicitud Internacional: PCT/ES2009/070309

Fecha de Presentación Internacional: 23/07/2009

Nº de solicitud Nacional: P200802217 (ES)

Fecha Prioridad: 24/07/2008 (ES)

- **Title:** Method for Treating Neurodegenerative Diseases (EN).

Inventors: Gorka Orive Arroyo, Rosa Mª Hernández Martín, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva Mª Carro Díaz y José Luis Pedraz Muñoz

Owners: Universidad del País Vasco (33%), Fundación para la Investigación

Biomédica del Hospital 12 de Octubre (33%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED) (33%)

Nº Publicación Internacional: WO/2010/089442

Fecha de Publicación Internacional: 12/08/2010

Nº de solicitud Internacional: PCT/ES2010/070059

Fecha de Presentación Internacional: 04/02/2010

- **Title:** Análisis infrarrojo de fracciones de sangre periférica obtenida para indicar desarrollo cognitivo asociado a la Enfermedad de Alzheimer.

Inventors: Pedro Carmona Hernández, Adolfo Toledo Gasca, Miguel Calero Lara, Pablo Martínez Martín, Félix Bermejo Pareja

Owners: Consejo Superior de Investigaciones Científicas (CSIC) (50%), Instituto de Salud Carlos III (ISCIII) (25%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (20%), Fundación CIEN (5%)

Nº Solicitud: P201131370

Fecha Prioridad: 08/08/2011

PCT extension application No.: PCT/ES2012/070613

Fecha solicitud: 07/08/2012

European Patent Application No.: EP20120382330

Fecha solicitud: 07/08/2012

- **Title:** Modelo animal de déficit cognitivo. Procedimiento de obtención y aplicaciones.

Inventors: Eva Mª Carro Díaz, Desireé Antequera Tienda, Consuelo Pascual Pérez

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (50%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED) (50%).

Spanish Patent Application No.: P201231533

Date of application: 05/10/2012

Communication

- News in other audiovisual media (radio, TV): 1. Hoy por Hoy program. Madrid (12/02/2019) / Audio / Hoy por Hoy Madrid / Cadena SER play.cadenaser.com

TRANSLATIONAL PSYCHIATRY

CENTER: Hospital Universitario 12 de Octubre (H120) – Universidad Complutense de Madrid (UCM)

GROUP LEADERS: Leza Cerro, Juan Carlos (R4), Agüera Ortiz,

Luis Fernando (R4)

Caso Fernández, Javier - Doctoral Researcher (R3)

Castillo García, Isabel Mª - Postdoctoral Researcher (R2)

García Bueno, Borja - Doctoral Researcher (R3)

González Bris, Álvaro - Predoctoral Researcher (R1)

González Prieto, Marta - Predoctoral Researcher (R1)

Herrera Rodríguez, Sara - Clinical Researcher

Holgado Madera, Pedro Manuel - Clinical Researcher

López Álvarez, Jorge - Clinical Researcher

López Fuentetaja, Ana Mª - Clinical Researcher

López Gutierrez, Irene - Predoctoral Researcher (R1)

Mac-Dowell Mata, Karina Soledad - Postdoctoral Researcher (R2)

Martín Hernández, David - Postdoctoral Researcher (R2)

Moreno Moreno, Beatriz - Support Technician

Muñoz Madrigal, José Luis - Doctoral Researcher (R3)

Navío Acosta, Mercedes - Doctoral Researcher (R3)

Ramos García, Javier - Clinical Researcher

Robledo Montaña, Javier - Predoctoral Researcher (R1)

Sanz Fuentenebro, Francisco Javier - Doctoral Researcher (R3)

Ulecia Morón, Cristina - Predoctoral Researcher (R1)

Villalba Borruel, Antonio Miguel - Support Nurse

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- **Title:** Estudio del papel de la autofagia en el trastorno depresivo mayor y la enfermedad psicótica y su posible modulación farmacológica y regulación epigenética.

Principal Investigator: Javier Caso Frnández

Project No.: SAF2017-83053-R

Funding Body: Ministerio de Ciencia e Innovación

Start date: 01/01/2018

End date: 31/12/2020

- **Title:** Transporte y señalización del lipopolisacárido bacteriano periférico en el sistema nervioso central: un nuevo modelo de interacción neuro-inmune en patología psiquiátrica. **Principal Investigator:** Borja García Bueno

Project No.: SAF2017-85888-R

Funding Body: Ministerio de Ciencia e Innovación

Start date: 01/01/2018

End date: 31/12/2020

- **Title:** Estudio de la regulación noradrenérgica del sistema CX3CL1 /CX3CR1 y su implicación en la enfermedad de Alzheimer.

Principal Investigator: José Luis Muñoz

Project No.: SAF2017-86620-R

Funding Body: Ministerio de Ciencia e Innovación

Start date: 01/01/2018

End date: 31/12/2020

- **Title:** Origen y consecuencias de la inflamación en fases tempranas de psicosis. Un estudio traslacional.

Principal Investigator: Juan Carlos Leza Cerro

Project No.: SAF 2016/75500-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/12/2016

End date: 31/12/2019

- **Title:** Origen y consecuencias de la inflamación en fases tempranas de psicosis. Un estudio traslacional.

Principal Investigator: Juan Carlos Leza Cerro

Project No.: SAF 2016/75500-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/12/2016

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	15	58.386
Reviews	2	10.937
Editorials	1	2.927
TOTAL	18	72.250
Letter	1	4.180
TOTAL	19	76.363

- Martin-Hernandez D, Tendilla-Beltran H, Madrigal JLM, Garcia-Bueno B, Leza JC, Caso JR. Chronic Mild Stress Alters Kynurene Pathways Changing the Glutamate Neurotransmission in Frontal Cortex of Rats. *Molecular Neurobiology*. 2019; 56(1): 490-501. IF: 4.586 - Article.
- Garcia S, Alberich S, MacDowell KS, Martinez-Cengotitabengoa M, Lopez P, Zorrilla I, Leza JC, Gonzalez-Pinto A. Association Between Medication Adherence and Oxidative Stress in Patients With First-Episode Mania. *Frontiers in Psychiatry*. 2019; 10: 162. IF: 3.161 - Article.
- Fernandez-Sotos P, Lopez-Arcas Calleja P, Lozano-Vicario L, Garcia-Tercero E, del Yerro-Alvarez MJ, Lopez-Alvarez J. Sindrome de leuocencefalopatia posterior reversible en un paciente con enfermedad de Parkinson y sintomatología inicial psiquiátrica: una presentación clínica compleja. *Revista de Neurología*. 2019; 68(10): 426-30. IF: 0.485 - Article.
- Casquero-Veiga M, Garcia-Garcia D, MacDowell KS, Perez-Caballero L, Torres-Sánchez S, Fraguas D, Berrocoso E, Leza JC, Arango C, Descos M, Soto-Montenegro ML. Risperidone administered during adolescence induced metabolic, anatomical and inflammatory/oxidative changes in adult brain: A PET and MRI study in the maternal immune stimulation animal model. *European Neuropsychopharmacology*. 2019; 29(7): 880-96. IF: 4.468 - Article.
- Herraiz I, Villalba A, Ajuria E, Barasoain A, Mendoza A, Pizarro N, Escribano D, Galindo A. Impact of cell-free fetal DNA on invasive prenatal diagnostic tests in a real-world public setting. *Journal of Perinatal Medicine*. 2019; 47(5): 547-52. IF: 1.361 - Article.
- Sanz-Fuentenebro FJ, Uriarte JJU, Bonet Dalmau P, Molina Rodriguez V, Bernardo Arroyo M. Pattern of use of clozapine in Spain. Variability and under-prescription. *Revista de Psiquiatría y Salud Mental*. 2019; 12(3): 151-62. IF: 2.927 - Article.
- Oriolo G, Blanco-Hinojo L, Navines R, Marino Z, Martin-Hernandez D, Cavero M, Gimenez D, Caso J, Capuron L, Forns X, Pujol J, Sola R, Martin-Santos R. Association of chronic inflammation and perceived stress with abnormal functional connectivity in brain areas involved with interoception in hepatitis C patients. *Brain Behavior and Immunity*. 2019; 80: 204-18. IF: 6.17 - Article.
- del Ser T, Zea MA, Valenti M, Olazaran J, Lopez-Alvarez J, Rebollo-Vazquez A, Avila-Villanueva M, Frades B, Medina M, Fernandez-Blazquez MA. Effects of commonly prescribed drugs on cognition and mild cognitive impairment in healthy elderly people. *Journal of Psychopharmacology*. 2019; 33(8): 965-74. IF: 4.221 - Article.
- Manera V, Fabre R, Stella F, Loureiro JC, Aguera-Ortiz L, Lopez-Alvarez J, Hanon C, Hoertel N, Aalten P, Ramakers I, Zeghari R, Robert P. A survey on the prevalence of apathy in elderly people referred to specialized memory centers. *International Journal of Geriatric Psychiatry*. 2019; 34(10): 1369-77. IF: 3.141 - Article.
- Bioque M, Mac-Dowell KS, Meseguer A, Macau E, Valero R, Vieta E, Leza JC, Bernardo M. Effects of electroconvulsive therapy in the systemic inflammatory balance of patients with severe mental disorder. *Psychiatry and Clinical Neurosciences*. 2019; 73(10): 628-35. IF: 3.489 - Article.
- Moreno C, Parellada M, MacDowell KS, Garcia-Bueno B, Cabrera B, Gonzalez-Pinto A, Saiz P, Lobo A, Rodriguez-Jimenez R, Berrocoso E, Bernardo M, Leza JC, From the FLAMM-PEPs study, Centro de Investigacion Biomedica en Red de Salud Men. Differences in the regulation of inflammatory pathways in adolescent- and adult-onset first-onset psychosis. *European Child & Adolescent Psychiatry*. 2019; 28(10): 1395-405. IF: 3.74 - Article.
- Tendilla-Beltran H, Meneses-Prado S, Vazquez-Roque RA, Tapia-Rodriguez M, Vazquez-Hernandez AJ, Coatl-Cuaya H, Martin-Hernandez D, MacDowell KS, Garces-Ramirez L, Leza JC, Flores G. Risperidone Ameliorates Prefrontal Cortex Neural Atrophy and Oxidative/Nitrosative Stress in Brain and Peripheral Blood of Rats with Neonatal Ventral Hippocampus Lesion. *Journal of Neuroscience*. 2019; 39(43): 8584-99. IF: 6.074 - Article.
- Gimenez-Gomez P, Perez-Hernandez M, O'Shea E, Caso JR, Martin-Hernandez D, Cervera LA, Centelles MLG, Gutierrez-Lopez MD, Colado MI. Changes in brain kynurene levels via gut microbiota and gut-barrier disruption induced by chronic ethanol exposure in mice. *FASEB Journal*. 2019; 33(11): 12900-14. IF: 5.391 - Article.
- Martin-Hernandez D, Pereira MP, Tendilla-Beltran H, Madrigal JLM, Garcia-Bueno B, Leza JC, Caso JR. Modulation of Monoaminergic Systems by Antidepressants in the Frontal Cortex of Rats After Chronic Mild Stress Exposure. *Molecular Neurobiology*. 2019; 56(11): 7522-33. IF: 4.586 - Article.
- Gutierrez IL, Gonzalez-Prieto M, Caso JR, Garcia-Bueno B, Leza JC, Madrigal JLM. Reboxetine Treatment Reduces Neuroinflammation and Neurodegeneration in the 5xFAD Mouse Model of Alzheimer's Disease: Role of CCL2. *Molecular Neurobiology*. 2019; 56(12): 8628-42. IF: 4.586 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

▪ Fuentetaja AML, Villaverde Ol. Psychological intervention in the hospital setting. *Revista Clinica Contemporanea*. 2019; 10(1): UNSP e1. IF: N/A - Article.

▪ Fraguas D, Diaz-Caneja CM, Ayora M, Hernandez-Alvarez F, Rodriguez-Quiroga A, Recio S, Leza JC, Arango C. Oxidative Stress and Inflammation in First-Episode Psychosis: A Systematic Review and Meta-analysis. *Schizophrenia Bulletin*. 2019; 45(4): 742-51. IF: 7.289 - Review.

▪ Lopez-Alvarez J, Sevilla-Llewellyn-Jones J, Aguera-Ortiz L. Anticholinergic Drugs in Geriatric Psychopharmacology. *Frontiers in Neuroscience*. 2019; 13: 1309. IF: 3.648 - Review.

▪ Salagre E, Arango C, Artigas F, Ayuso-Mateos JL, Bernardo M, Castro-Fornieles J, Bobes J, Desco M, Fananas L, Gonzalez-Pinto A, Haro JM, Leza JC, McKenna PJ, Meana JJ, Menchon JM, Mico JA, Palomo T, Pazos A, Perez V, Saiz-Ruiz J, Sanjuan J, Tabares-Seisdedos R, Crespo-Facorro B, Casas M, Vilella E, Palao D, Olivares JM, Rodriguez-Jimenez R, Vieta E. CIBERSAM: Ten years of collaborative translational research in mental disorders. *Revista de Psiquiatria y Salud Mental*. 2019; 12(1): 1-8. IF: 2.927 - Editorial Material.

▪ Aguera-Ortiz L, Lyketsos C, Ismail Z. Comment on "Personality changes during the transition from cognitive health to mild cognitive impairment". *Journal of the American Geriatrics Society*. 2019; 67(1): 190-1. IF: 4.113 - Letter.

▪ Fuentetaja AML, Villaverde Ol. Psychological intervention in the hospital setting. *Revista Clinica Contemporanea*. 2019; 10(1): UNSP e1. IF: N/A - Article.

Patents

▪ **Title:** Procedimiento para la elaboración de nanopartículas lipídicas, y nanopartículas lipídicas con los macrófagos cerebrales como células diana
Number: P201800272

Type: Spanish patent

Inventors: Borja García Bueno, Aline Sayd Gaban, Francisco Monroy Muñoz, Lara Hernández Moleiro, Juan Carlos Leza Cerro

Owners: Fundación i+12 (20%), UCM (80%)

Date of application: 12/12/2018

NEUROTRAUMATOLOGY AND SUBARACHNOID HEMORRHAGE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Lagares Gómez-Abascal, Alfonso (R4)

Castaño León, Ana M^a - Postdoctoral Researcher (R2)

Fernández Alén, José Antonio - Postdoctoral Researcher (R2)

Gómez López, Pedro Antonio - Postdoctoral Researcher (R2)

Martín Munárriz, Pablo - Predoctoral Researcher (R1)

Navarro Main, Blanca - Predoctoral Researcher (R1)
Paredes Sansinenea, Igor - Postdoctoral Researcher (R2)
Sánchez Carabias, M^a Cristina - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	Comunidad de Madrid	1
Competitive	EIT HEALTH	1
Competitive	FMM	1
Competitive	Atresmedia Corporacion	1
TOTAL		6

Title: Papel de la respuesta inflamatoria aguda en el daño cerebral: traumatismo craneoencefálico y hemorragia subaracnoidea.

Principal Investigator: Alfonso Lagares Gómez-Abascal

Project No.: PI18/01387

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

Title: Efectos neurocognitivos de la craneoplantia: cambios en la hemo e hidrodinámica cerebral. Efectos de una profilaxis antibiótica dirigida sobre la tasa de infección.

Principal Investigator: José Antonio Fernández Alén

Project No.: PI16/01939

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019, extended to 30/06/2021

Title: Clasificación intraoperatoria de tumores cerebrales mediante modelos inmersivos 3D en la Comunidad de Madrid.

Principal Investigator: Alfonso Lagares Gómez-Abascal

Project No.: Y2018/BIO-4826

Funding Body: Comunidad de Madrid

Start date: 01/01/2019

End date: 31/12/2021

Title: Blood biomarkers to improve the management of mild traumatic brain injury.

Principal Investigator: Alfonso Lagares Gómez-Abascal

Funding Body: EIT HEALTH

Start date: 01/07/2019

End date: 31/12/2020

Title: Nuevas herramientas para la detección y monitorización de la lesión axonal traumática.

Principal Investigator: Ana M^a Castaño León

Project No.: FMM 2019/0133

Funding Body: Fundación de Investigacion Medica Mutua Madrileña (FMM)

Start date: 14/11/2019

End date: 31/12/2022

Title: Programa de intervención neuropsicológica en pacientes con daño cerebral adquirido y sus familias.

Principal Investigator: Alfonso Lagares Gómez-Abascal

Project No.: 2016/0037

Funding Body: Atresmedia Corporacion

Start date: 01/01/2018

End date: 30/11/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	8	42.121
Reviews	1	0.485
Editorials	1	1.723
TOTAL	10	44.329

- Hilario A, Hernandez-Lain A, Sepulveda JM, Lagares A, Perez-Nunez A, Ramos A. Perfusion MRI grading diffuse gliomas: Impact of permeability parameters on molecular biomarkers and survival. Neurocirugia. 2019; 30(1): 11-8. IF: 0.519 - Article.
- van Essen TA, den Boogert HF, Cnossen MC, de Ruiter GCW, Haitsma I, Polinder S, Steyerberg EW, Menon D, Maas AIR, Lingsma HF, Peul WC, Cecilia A, Hadie A, Vanni A, Judith A, Krisztina A, Norberto A, Nada A, Lasse A, Azasevac A, Audny A, Anna A, Hilko A, Gerard A, Kaspars A, Philippe A, Luisa AM, Camelia B, Rafael B, Ronald B, Pal B, Ursula B, Romuald B, Ronny B, Javier BF, Bo-Michael B, Antonio B, Remy B, Habib B, Thierry B, Maurizio B, Luigi B, Christopher B, Federico B, Harald B, Ert A, Morten B, Hugo D, Pierre B, Peter B, Alexandra B, Vibike B, Joanne B, Camilla B, Andras B, Monika B, Emiliana C, Rosa CM, Peter C, Guillermo CL, Marco C, Elsa C, Carpenter K, Ana CL, Francesco C, Giorgio C, Arturo C, Giuseppe C, Maryse C, Mark C, Jonathan C, Lizzie CK, Johnny C, Jamie DC, Marta C, Amra C, Nicola C, Endre C, Marek C, Claire DF, Francois D, Pierre D, Helen D, Veronique D, Francesco DC, Bart D, Godard CWD, Dula D, Ding SH, Diederik D, Abhishek D, Emma D, Jens D, Guy-Loup D, George E, Heiko E, Ari E, Patrick E, Erzsebet E, Martin F, Valery LF, Feng JF, Kelly F, Francesca F, Gilles F, Ulderico F, Shirin F, Alex F, Pablo G, Damien G, Dashiell G, Gao GY, Karin G, Pradeep G, Alexandre G, Lelde G, Benoit G, Ben G, Jagos G, Pedro AG, Francesca G, Russell LG, Deepak G, Juanita AH, Iain H, Jed AH, Raimund H, Eirik H, Daniel H, Astrid H, Stefan H, Lindsay H, Jilske H, Peter JH, Kristine HA, Bram J, Stefan J, Mike J, Bojan J, Jiang JY, Kelly J, Konstantinos K, Mladen K, Ari K, Maija K, Thomas K, Riku K, Angelos GK, Balint K, Erwin K, Ksenija K, Daniel K, Lars-Owe K, Noemi K, Alfonso L, Linda L, Steven L, Fiona L, Christian L, Rolf L, Valerie L, Jin L, Leon L, Roger L, Hester L, Dirk L, Angels L, Andrew IRM, Stephen M, Marc M, Marek M, Sebastian M, Alex M, Geoffrey M, Didier M, Francisco ML, Costanza M, Armando M, Hugues M, Alessandro M, Julia M, Charles M, Catherine M, Bela M, David M, Tomas M, Cristina MK, Davide M, Visakh M, Lynnette M, Holger M, Nandesh N, Ancuta N, David N, Virginia N, Daan N, Quentin N, Jozsef N, Mauro O, Annemarie O, Matej O, Fabrizio O, Aarno P, Paul MP, Adriana P, Jean-Francois P, Natascha P, Vincent P, Paolo P, PeulWilco, Anna PK, Sebastien PF, Matti P, Horia P, Antonia PM, Suzanne P, Inigo P, Jussi P, Louis P, Andreea R, Arminas R, Rahul R, Malinka R, Ruben R, Veronika R, Jonathan R, Samuli R, Saulius R, Cecilia R, Olav R, Gerwin R, Jonathan R, Jeffrey R, Christina R, Guy R, Rolf R, Sandra R, Daniel R, Martin R, Marco S, Barbara S, Juan S, Oliver S, Francesca S, Renan SP, Janos S, Edgar S, Luminita S, Davide S, Nadine S, Inger S, Barbara S, Silke S, Herbert S, Guus S, Frederik SR, Elisabeth S, Michael S, Ozcan S, Toril S, Lidwien S, Dirk S, Peter S, Abayomi S, Emmanuel S, Simon S, Nicole S, Ana S, Robert S, William S, Ewout WS, Nino S, Nina S, Anneliese S, Silvio TF, Riikka T, Victoria T, Paivi T, Steven TM, Braden TA, Olli T, Ralph T, Guido T, Alice T, Matt T, Dick T, Christos T, Luuba TJF, Tony T, Maria TC, Peter V, Shirley V, Egils V, Gregory V, Mathieu V, Joukje V, Jeroen, TJMV, Thomas AV, Wim V, Caroline V, Dominique V, Thijs VV, Julia V, Audrey V, Alessia V, Emmanuel V, Kimberley V, Jan V, Paul MV, Anne V, Rimantas V, Giacinta V, Carmen VL, Victor V, Daphne V, Peter V, Zoltan V, Derick W, Kevin KWW, Lei W, Lars W, Eno W, Guy W, Lindsay W, Maren KLW, Stefan W, Peter Y, Alexander Y, Menashe Z, Yang ZH, Agate Z, Fabrizio Z, CENTER-TBI Investigators Partici. Variation in neurosurgical management of traumatic brain injury: a survey in 68 centers participating in the CENTER-TBI study. Acta Neurochirurgica. 2019; 161(3): 435-49. IF: 1.834 - Article.
- Panero Perez I, Castano Leon AM, Gandia Gonzalez ML, Kolias A. Call to participate in the international study of traumatic brain injury results (Global Neurotrauma Outcomes Study). Neurocirugia. 2019; 30(2): 77-80. IF: 0.519 - Article.
- Vande Vyvere T, Wilms G, Claes L, Martin Leon F, Nieboer D, Verheyden J, van den Hauwe L, Pullens P, Maas AIR, Parizel PM, Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Inj. Central versus Local Radiological Reading of Acute Computed Tomography Characteristics in Multi-Center Traumatic Brain Injury Research. Journal of Neurotrauma. 2019; 36(7): 1080-92. IF: 3.754 - Article.
- Cicuendez M, Castano-Leon A, Ramos A, Hilario A, Gomez PA, Lagares A. The added prognostic value of magnetic resonance imaging in traumatic brain injury: The importance of traumatic axonal injury when performing ordinal logistic regression Journal of Neuroradiology. 2019; 46(5): 299-306. IF: 2.467 - Article.
- Steyerberg EW, Wiegers E, Sewalt C, Buki A, Citerio G, De Keyser V, Ercole A, Kunzmann K, Lanyon L, Lecky F, Lingsma H, Manley G, Nelson D, Peul W, Stocchetti N, von Steinbuchel N, Vande Vyvere T, Verheyden J, Wilson L, Maas AIR, Menon DK, CENTER-TBI Participants Investigat. Case-mix, care pathways, and outcomes in patients with traumatic brain injury in CENTER-TBI: a European prospective, multicentre, longitudinal, cohort study Lancet Neurology. 2019; 18(10): 923-34. IF: 28.755 - Article.
- Castano-Leon AM, Cicuendez M, Navarro B, Paredes I, Munarriz PM, Cepeda S, Hilario A, Ramos A, Gomez PA, Lagares A. Longitudinal Analysis of Corpus Callosum Diffusion Tensor Imaging Metrics and Its Association with Neurological Outcome. Journal of Neurotrauma. 2019; 36(19): 2785-802. IF: 3.754 - Article.
- Perez IP, Fernandez CE, Perez DG, Lagares A, Roldan LJ, Alen JAF, Leon AMC, Paredes I. Transcranial cerebellar herniation following craniotomy: Case

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

report and literature review. *Neurocirugia*. 2019; 30(6-7): 294-99. IF: 0.519
- Article.

- Panero I, San-Juan R, Eiriz C, García-Pérez D, Paredes I, González C, Recio R, Carretero O, Lagares A, Gómez PA. Uncommon case of Mycobacterium bovis brain abscess complicated by suppurative fistula, and review of the literature. *Revista de Neurologia*. 2019; 69(10): 417-22. IF: 0.485 - Review.
- Perez IP, Garcia-Perez D, Abascal AL. Positive Outcome of Endoscopic Third Ventriculostomy in Fourth Ventricular Outlet Obstruction. *World Neurosurgery*. 2019; 132: 135-7. IF: 1.723 - Editorial Material.

Theses Defended or Directed on the Group

- Candidate:** Marta Cicuendez López-Ocaña
Title: Valor de la resonancia magnética en el diagnóstico y pronóstico de la lesión axonal difusa en el traumatismo craneoencefálico grave
Directors: Alfonso Lagares Gómez-Abascal, Ana Ramos
Date Defended: 11/01/2019
University: Universidad Complutense de Madrid
International Mention: No
- Candidate:** Santiago Cepeda Chafla
Title: Factores de riesgo de progresión hemorrágica de los hematomas intracerebrales traumáticos
Directors: Alfonso Lagares Gómez-Abascal, Pedro Antonio Gómez López
Date Defended: 11/10/2019
University: Universidad Complutense de Madrid
International Mention: No
- Candidate:** Ana M^a Castaño León
Title: Herramientas pronósticas en los pacientes con traumatismo craneoencefálico
Directors: Alfonso Lagares Gómez-Abascal, Pedro Antonio Gómez López

Date Defended: 20/09/2019
University: Universidad Complutense de Madrid
International Mention: No

End Graduated Investigations Directed on the Group

- Student:** Laura García Escudero, María Huerta Carrascosa, Marta Vidal Terriente
- Title:** Aplicación de los criterios de Denver y Memphis en los pacientes con lesión cerebrovascular traumática cerrada en el Hospital Doce de Octubre
- Director:** Alfonso Lagares Gómez-Abascal
- Degree:** Grado en Medicina (UCM)

Prizes and Awards

- Primer accésit Premio Dr. Pedro Mata 2019, otorgado por la Sociedad Madrileña de Neurocirugía, al trabajo titulado: Abordaje endoscópico endonasal transesfenoidal para el tratamiento de adenomas hipofisarios: comparación con la técnica microscópica tradicional a través de la metodología propensity score.
- Premio Sexto Obrero 2019, otorgado por la Sociedad Española de Neurocirugía, al trabajo titulado: El uso de la secuencia Tensor de difusión como herramienta pronostica en los pacientes con traumatismo craneoencefálico grave y moderado. Autora: Ana M^a Castaño-León.

Communication

- Number of news published in written press: 2

ADDICTIONS AND COMORBIDITY

CENTER: Hospital Universitario 12 de Octubre (H120) - Universidad Complutense de Madrid (UCM)

GROUP LEADER: Rubio Valladolid, Gabriel (R4), Colado Megía, M^a Isabel (R4)

Arias Horcajadas, Francisco - Doctoral Researcher (R3)
Gil de Biedma Elduayen, Leticia - Predoctoral Researcher (R1)
Giménez Gómez, Pablo - Predoctoral Researcher (R1)
Gómez Núñez, M^a del Carmen - Auxiliary Technician
Gutiérrez López, M^a Dolores - Doctoral Researcher (R3)
Jurado Barba, M^a Rosa - Doctoral Researcher (R3)
López Muñoz, Francisco - Collaborator

Marín Mayor, Marta - Postdoctoral Researcher (R2)
Martínez Maldonado, Andrés - Predoctoral Researcher (R1)
Morales Puerto, Nuria - Predoctoral Researcher (R1)
O'Shea Gaya, Esther - Doctoral Researcher (R4)
Pérez Hernández, Mercedes - Predoctoral Researcher (R1)
Prieto Valverde, Raquel - Postdoctoral Researcher (R2)
Sion, Ana M^a Alexandra - Postdoctoral Researcher (R2)
Vidal Casado, Rebeca - Postdoctoral Researcher (R2)

(PNSD2017-017)

Start date: 01/09/2017

End date: 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	9	27.692
Reviews	1	3.000
TOTAL	10	30.692

- Vidal R, Garro-Martinez E, Diaz A, Castro E, Florensa-Zanuy E, Taketo MM, Pazos A, Pilar-Cuellar F. Targeting beta-Catenin in GLAST-Expressing Cells: Impact on Anxiety and Depression-Related Behavior and Hippocampal Proliferation. *Molecular Neurobiology*. 2019; 56(1): 553-66. IF: 4.586 - Article.
- Lopez-Rodriguez JA, Rigabert A, Gomez Llano MN, Rubio G, Grupo ASSIST. Cribado de riesgos derivados del consumo de drogas utilizando la herramienta ASSIST (Alcohol, smoking and substances involvement screening test) en pacientes de atención primaria: estudio transversal. *Atención Primaria*. 2019; 51(4): 200-7. IF: 1.346 - Article.
- Sanchez-Camarero C, Ortega-Santiago R, Arias-Horcajadas F, Madoz-Gurpide A, Miangolarra-Page JC, Palacios-Cena D. Altered fine motor control and manual dexterity in people with cocaine dependence: An observational study. *Australian Occupational Therapy Journal*. 2019; 66(3): 304-12. IF: 1.278 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

• Silva-Peña D, García-Marchena N, Alen F, Araos P, Rivera P, Vargas A, García-Fernández MI, Martín-Velasco AI, Villanúa MA, Castilla-Ortega E, Santín L, Pavón FJ, Serrano A, Rubio G, Rodríguez de Fonseca F, Suárez J. Alcohol-induced cognitive deficits are associated with decreased circulating levels of the neurotrophin BDNF in humans and rats. *Addiction Biology*. 2019; 24(5): 1019-33. IF: 4.223 - Article.

• Giménez-Gómez P, Pérez-Hernández M, O'Shea E, Caso JR, Martín-Hernández D, Cervera LA, Centelles MLG, Gutiérrez-López MD, Colado MI. Changes in brain kynurenone levels via gut microbiota and gut-barrier disruption induced by chronic ethanol exposure in mice. *FASEB Journal*. 2019; 33(11): 12900-14. IF: 5.391 - Article.

• González E, Arias F, Szerman N, Vega P, Mesías B, Basurte I. Coexistence between personality disorders and substance use disorder. Madrid study about prevalence of dual pathology. *Actas Españolas de Psiquiatría*. 2019; 47(6): 218-28. IF: 1.479 - Article.

• Araos P, Vidal R, O'Shea E, Pedraz M, García-Marchena N, Serrano A, Suárez J, Castilla-Ortega E, Ruiz JJ, Campos-Cloute R, Santín LJ, Rodríguez de Fonseca F, Pavón FJ, Colado MI. Serotonin is the main tryptophan metabolite associated with psychiatric comorbidity in abstinent cocaine-addicted patients. *Scientific Reports*. 2019; 9(1): 16842. IF: 4.011 - Article.

• Alvarez-Sesmero S, Povedano-Montero FJ, Arias-Horcajadas F, Marín-Mayor M, Navarrete-Chamorro P, Raga-Martínez I, Rubio G, López-Muñoz F. Retinal Nerve Fiber Layer in Patients with Alcohol Use Disorder. *Applied Sciences-Basel*. 2019; 9(24): 5331. IF: 2.217 - Article.

• De-Sola J, Rubio G, Talledo H, Pistoni L, Van Riesen H, de Fonseca FR. Cell Phone Use Habits Among the Spanish Population: Contribution of Applications to Problematic Use. *Frontiers in Psychiatry*. 2019; 10: 883. IF: 3.161 - Article.

• Lopez-Munoz F, Tracy DK, Povedano-Montero FJ, Breedvelt J, García-Pacíos J, Fernández-Martín MP, Rubio G, Alamo C. Trends in the scientific literature on atypical antipsychotic drugs in the United Kingdom: a bibliometric study. *Therapeutic Advances in Psychopharmacology*. 2019; 9: UNSP 2045125318820207. IF: 3.000 - Review.

Theses Defended or Directed on the Group

Candidate: Cristina Abuín Martínez

Title: Implicación de la vía kinurenina en los efectos inmediatos y a largo plazo inducidos por 3,4-metilendioximetanfetamina (MDMA, éxtasis) en cerebro de rata.

Directors: Mª Isabel Colado Megía, Mª Esther O'Shea Gaya, Rebeca Vidal Casado

Date Defended: 26/07/2019

University: Universidad Complutense de Madrid

International Mention: No

End Master Investigations

Directed on the Group

Student: Carlos Núñez de la Calle

Title: Efecto del 3,3'-diindolilmetano sobre la neurotoxicidad inducida por 3,4-metilendioximetanfetamina (MDMA) en el estriado de rata

Directors: Mª Esther O'Shea Gaya, Mercedes Pérez-Hernández

Master: Máster en Psicofarmacología y Drogas de Abuso (UCM)

End Graduated Investigations

Directed on the Group

Student: Débora Pino García

Title: Inhibición de KMO: efecto a largo plazo sobre el consumo de EtOH en un modelo de binge drinking

Directors: Mª Dolores Gutiérrez López, Pablo Giménez Gómez

Degree: Grado en Bioquímica (UCM)

Student: María Almazán Gómez, Sandra Jiménez Peinado

Title: Comunicación clínica e inteligencia emocional en estudiantes de medicina"

Director: Gabriel Rubio Valladolid

Degree: Grado en medicina

NEUROVASCULAR RESEARCH

CENTER: Hospital Universitario 12 de Octubre (H120) - Universidad Complutense de Madrid (UCM)

GROUP LEADER: Lizasoain Hernández, Ignacio (R4), Moro Sánchez, Mª Ángeles (R4)

Calleja Castaño, Patricia - Doctoral Researcher (R3)
Castejón Ferrer, David - Doctoral Researcher (R3)
Díaz Guzmán, Jaime - Doctoral Researcher (R4)
Durán Laforet, Violeta - Predoctoral Researcher (R1)
Fernández Valle, Encarnación - Doctoral Researcher (R3)
García Biro, Lidia - Manager
García Culebras, Alicia - Postdoctoral Researcher (R2)
García Segura, Juan Manuel - Doctoral Researcher (R3)
Hurtado Moreno, Olivia - Postdoctoral Researcher (R2)

Jareño Flores, Tania - Support Technician
Martínez Marlasca, Ana - Predoctoral Researcher (R1)
Medina Alonso, Violeta - Postdoctoral Researcher (R2)
Ostos Moliz, Fernando - Predoctoral Researcher (R1)
Peña Martínez, Carolina - Predoctoral Researcher (R1)
Pradillo Justo, Jesús Miguel - Postdoctoral Researcher (R2)
Quinto Alemany, David - Predoctoral Researcher (R1)
Torres López, Cristina - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

Title: Nuevas dianas del TLR4 en el ictus: la interacción neutrófilo-plaqua en los fenómenos de inflamación, hemorragia y trombosis. Estudio traslacional básico-clínico.

Principal Investigator: Ignacio Lizasoain Hernández

Project No.: PI17/01601

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

Title: SAFETOLL: "Desarrollo de nuevas aplicaciones terapéuticas de ApTO-LL, en enfermedades vasculares y autoinmunes".

Principal Investigator: Ignacio Lizasoain Hernández

Project No.: RTC-2017-6283-1

Funding Body: Ministerio de Ciencia, Innovación y Universidades

Start date: 01/01/2018

End date: 30/06/2020

Title: Testando nuevas estrategias para tratar enfermedades cerebrales asociadas al envejecimiento.

Principal Investigator: Mª Ángeles Moro Sánchez

Project No.: SAF2016-81716

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2017

End date: 31/12/2018, extended to 30/06/2019

Title: Nuevas dianas terapéuticas en la enfermedad cerebrovascular aguda y crónica: el receptor de hidrocarburos aromáticos (AHR).

Principal Investigator: Mª Ángeles Moro Sánchez

Project No.: SAF2015-68632-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2016

End date: 31/12/2019

Title: Therapeutic targeting of the neutrophil clock in cardiovascular disease.

Principal Investigator: Mª Ángeles Moro Sánchez

Funding Body: Fundación La Caixa

Start date: 06/11/2018

End date: 05/11/2021

Title: Effect of citicoline on vascular cognitive impairment: an experimental study.

Principal Investigator: Mª Ángeles Moro Sánchez

Funding Body: FERRER INTERNACIONAL S.A.

Start date: 07/02/2019
End date: 06/02/2022

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	7	61.129
TOTAL	7	61.129
Letters	1	0.485
TOTAL	8	61.614

- Adrover JM, del Fresno C, Crainiciuc G, Cuartero MI, Casanova-Acebes M, Weiss LA, Huerga-Encabo H, Silvestre-Roig C, Rossant J, Cossio I, Lechuga-Vieco AV, Garcia-Prieto J, Gomez-Parrizas M, Quintana JA, Ballesteros I, Martin-Salamanca S, Aroca-Crevillen A, Chong SZ, Evrard M, Balabanian K, Lopez J, Bidzhekov K, Bachelerie F, Abad-Santos F, Munoz-Calleja C, Zarock A, Soehnlein O, Weber C, Ng LG, Lopez-Rodriguez C, Sancho D, Moro MA, Ibanez B, Hidalgo A. A Neutrophil Timer Coordinates Immune Defense and Vascular Protection. *Immunity*. 2019; 50(2): 390-402.e10. IF: 21.522 - Article.
- Cuartero MI, de la Parra J, Perez-Ruiz A, Bravo-Ferrer I, Duran-Laforet V, Garcia-Culebras A, Garcia-Segura JM, Dhaliwal J, Frankland PW, Lizasoain I, Moro MA. Abolition of aberrant neurogenesis ameliorates cognitive impairment after stroke in mice. *Journal of Clinical Investigation*. 2019; 129(4): 1536-50. IF: 12.282 - Article.
- Duran-Laforet V, Fernandez-Lopez D, Garcia-Culebras A, Gonzalez-Hijon J, Moraga A, Palma-Tortosa S, Garcia-Yebenes I, Vega-Perez A, Lizasoain I, Moro MA. Delayed Effects of Acute Reperfusion on Vascular Remodeling and Late-Phase Functional Recovery After Stroke. *Frontiers in Neuroscience*. 2019; 13: 767. IF: 3.648 - Article.
- Palma-Tortosa S, Hurtado O, Pradillo JM, Ferreras-Martin R, Garcia-Yebenes I, Garcia-Culebras A, Moraga A, Moro MA, Lizasoain I. Toll-like receptor 4 regulates subventricular zone proliferation and neuroblast migration after experimental stroke. *Brain Behavior and Immunity*. 2019; 80: 573-82. IF: 6.17 - Article.
- Garcia-Culebras A, Duran-Laforet V, Peña-Martínez C, Moraga A, Ballesteros I, Cuartero MI, de la Parra J, Palma-Tortosa S, Hidalgo A, Corbi AL, Moro MA, Lizasoain I. Role of TLR4 (Toll-Like Receptor 4) in N1/N2 Neutrophil Programming After Stroke. *Stroke*. 2019; 50(10): 2922-32. IF: 6.058 - Article.
- Bravo-Ferrer I, Cuartero MI, Medina V, Ahedo-Quero D, Peña-Martínez C, Perez-Ruiz A, Fernandez-Valle ME, Hernandez-Sanchez C, Fernandez-Salguero PM, Lizasoain I, Moro MA. Lack of the aryl hydrocarbon receptor accelerates aging in mice. *FASEB Journal*. 2019; 33(11): 12644-54. IF: 5.391 - Article.
- Peña-Martínez C, Duran-Laforet V, Garcia-Culebras A, Ostos F, Hernandez-Jimenez M, Bravo-Ferrer I, Perez-Ruiz A, Ballenilla F, Diaz-Guzman J, Pradillo JM, Lizasoain I, Moro MA. Pharmacological Modulation of Neutrophil Extracellular Traps Reverses Thrombotic Stroke tPA (Tissue-Type Plasminogen Activator) Resistance. *Stroke*. 2019; 50(11): 3228-37. IF: 6.058 - Article.
- Sanchez-Tejerina San Jose D, Ostos-Moliz F, Toldos-Gonzalez O, Gonzalo-Martinez JF, Herrero-San Martin A. Miopatia toxica asociada al tratamiento concomitante con atorvastatina y colchicina. *Revista de Neurologia*. 2019; 68(11): 488-9. IF: 0.485 - Letter.

Theses Defended or Directed on the Group

- Candidate:** Violeta Medina Alonso
Title: Demencia vascular: búsqueda de dianas terapéuticas en un modelo preclínico
Directors: M^a Ángeles Moro Sánchez, Ignacio Lizasoain Hernández, Macarena Hernández Jiménez
Date Defended: 25/11/2019
University: Universidad Complutense de Madrid
International Mention: No

End Master Investigations Directed on the Group

- Alumno:** Inés Pérez Romero
Title: Neurogénesis y memoria hipocampal en un modelo de dieta alta en sodio
Director: M^a Angeles Moro Sánchez, Jesús Miguel Pradillo Justo
Master: UCM

Scientific Outreach Activities

- 39TH Spanish Society of Pharmacology Meeting. "Investigation of Rodent Adult Neurogenesis in Homeostasis and Disease: an example of the use of Conditional Mice in Neuropharmacology". 3-5 julio de 2019.
- 7º Simposio Latinoamericano en Enfermedades Vasculares Cerebrales. "Modelos Experimentales en Deterioro Cognitivo". Conferencia Invitada. 31 de mayo de 2019.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- CNIC-Conference "New concepts in age-related cardiovascular disease". "Adult neurogenesis as a novel target in vascular cognitive impairment". Madrid, 25 octubre 2019.
- Coloquio UCM "Mujeres y Ciencia". Facultad de Medicina UCM. 11 de febrero de 2019.
- Hay alguien ahí (2x84 Mujeres y Ciencia). Inforadio UCM. 11 de febrero de 2019.
- Participación en la Décima Noche Europea de los Investigadores e Investigadoras. 27 de septiembre de 2019.

End Master Investigations Directed on the Group

- Student:** Sofía Álvarez Galeano
Title: Enfermedad de McArdle: aproximaciones a terapia basadas en el uso de células madre pluripotenciales inducidas, iPSCs
Director: M^a Esther Gallardo Pérez
Master: Máster Interuniversitario de descubrimiento de fármacos. (UCM-CEU-UAH)

End Graduated Investigations Directed on the Group

- Student:** Rubén Fraguá Baeza
Title: Utilización de iPSCs como modelo de estudio de atrofia óptica dominante.
Director: M^a Esther Gallardo Pérez
Degree: Grado en Bioquímica. (UAM)
- Student:** Carmen Bernardino Morcillo
Title: Enfermedad de McArdle: Aproximaciones a terapia basadas en el uso de iPSCs.
Director: M^a Esther Gallardo Pérez
Degree: Grado en Bioquímica. (UAM)

Communication

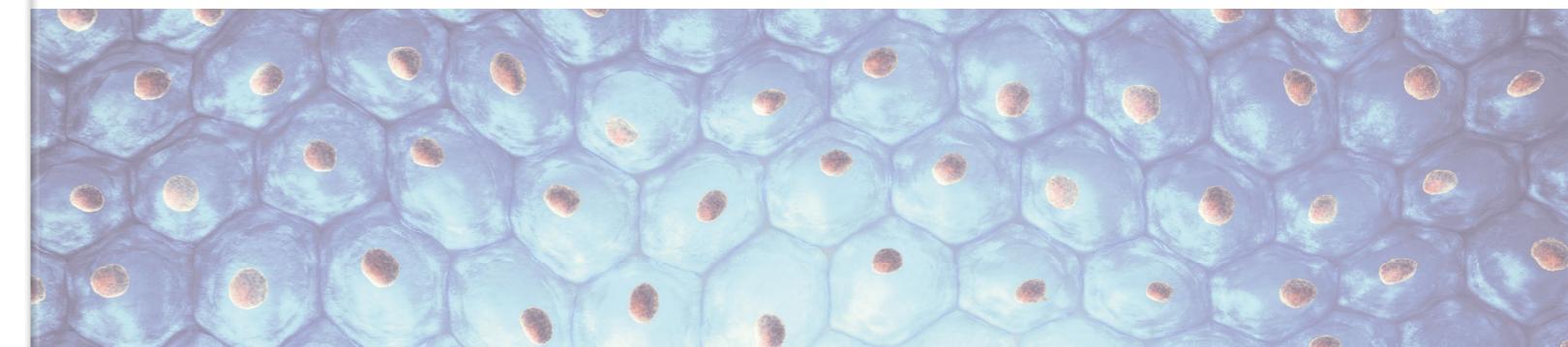
- Number of news published in the written press: 1
- News in other audiovisual media (radio, TV): 1 (Interview for TVE and la 2 on the international day of women and girls in science, 11/02/2019).



AREA 9. TRANSVERSAL

COORDINATOR: FRANCISCO JAVIER FERNÁNDEZ MARTÍNEZ

Research on Physical Activity and Health
Regenerative Medicine
Medical Chemistry Laboratory
Research on Intelligent Biomaterials
Genetics and Inheritance
Care Research - InveCuid
Translational Research with iPS Cells



The Transversal Area is made up of 7 research groups, which contribute more than 80 researchers to the structure of the Instituto i+12 and share as their main characteristic the interdisciplinary nature of their approaches and the horizontal nature of their approaches.

In this sense, they cover aspects ranging from the identification of the biological mechanisms involved in the aetiology of a wide range of pathologies, including the genomic approach to them, to the development of therapeutic methodologies that allow the replacement or regeneration of structurally and functionally damaged tissues or organs. It also includes the development of intelligent biomaterials or new drugs for high-incidence diseases or for rare diseases with no treatment available. All these, in addition to research in patient care and safety, enables the creation of an area within the scientific structure made up of various axes that can channel the development of inter- and intra-group research projects that can respond to the requirements of any other area of the Instituto i+12.

General objectives of cooperative development in this area

- Promote interaction and cooperation between the research groups that make up the area - An area meeting was held and minutes were taken.
- Promote the implementation of online collaboration tools at corporate level (i+12), in order to facilitate communication and inter- and intra-group work - The incorporation of tools for the holding of telematic meetings (Zoom) has been requested and promoted.
- Promote the incorporation and development of the area's emerging groups to encourage their consolidation.
- Promote the creation of a register of diagnostic methods, therapies and actions to be applied in clinical practice - implementation of the cross-sectional platform resource management tool (Schemas) for its translational use.
- Establish contracts and collaboration agreements with companies with the aim of maximising the economic performance of research projects in general and those of a cross-sectional nature in particular - promotion and negotiation with commercial houses (Genycell, Illumina, Thermo Fisher,...) in conjunction with the Research Foundation, to establish purchasing agreements.
- Propose new ways of achieving and adapting high-performance common-use equipment - establishing a protocol for billing services to internal and external groups.

List of the five most relevant publications of the Transversal Area during 2019

The following are the 5 most relevant publications in the Transversal Area selected on the basis of original articles led by researchers in the area, published in decile 1 of their thematic category in JCR and most often cited:

1. **Izquierdo-Barba I, Santos-Ruiz L, Becerra J, Feito MJ, Fernandez-Villa D, Serrano MC, Diaz-Guemes I, Fernandez-Tome B, Enciso S, Sanchez-Margallo FM, Monopoli D, Afonso H, Portoles MT, Arcos D, Vallet-Regi M.** Synergistic effect of Si-hydroxyapatite coating and VEGF adsorption on Ti6Al4V-ELI scaffolds for bone regeneration in an osteoporotic bone environment. *Acta Biomaterialia*. 2019; 83: 456-66. IF: 7.242 - D1- Article.
2. **Encinas N, Angulo M, Astorga C, Colilla M, Izquierdo-Barba I, Vallet-Regi M.** Mixed-charge pseudo-zwitterionic mesoporous silica nanoparticles with low-fouling and reduced cell uptake properties. *Acta Biomaterialia*. 2019; 84: 317-27. IF: 7.242 - D1- Article.
3. **Mora-Raimundo P, Lozano D, Manzano M, Vallet-Regi M.** Nanoparticles to Knockdown Osteoporosis-Related Gene and Promote Osteogenic Marker Expression for Osteoporosis Treatment. *Acs Nano*. 2019; 13(5): 5451-64. IF: 14.588 - D1- Article.
4. **Valenzuela PL, Castillo-Garcia A, Morales JS, Izquierdo M, Serra-Rexach JA, Santos-Lozano A, Lucia A.** Physical Exercise in the Oldest Old. *Comprehensive Physiology*. 2019; 9(4): 1281-304. IF: 6.604 - D1- Article.
5. **Galera-Monge T, Zurita-Diaz F, Garesse R, Gallardo ME.** The mutation m.13513G > A impairs cardiac function, favoring a neuroectoderm commitment, in a mutant-load dependent way. *Journal of Cellular Physiology*. 2019; 234(11): 19511-22. IF: 5.546 - D1 - Article.

RESEARCH ON PHYSICAL ACTIVITY AND HEALTH

CENTER: Universidad Europea (UE) - Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Lucia Mulas, Alejandro (R4)

Alcazar Rodríguez, Javier - Predoctoral Researcher (R1)
Brea Alejo, Lidia - Postdoctoral Researcher (R2)
Fernández Moreno, David - Predoctoral Researcher (R1)
Fiuza Luces, Carmen - Doctoral Researcher (R3)
Garatachea Vallejo, Nuria - Collaborator
González Saiz, Laura - Collaborator
Herrera Olivares, Alba Mª - Predoctoral Researcher (R1)
Izquierdo García, Juan - Clinical Researcher
Martín Ruiz-Valdepeñas, Asunción - Postdoctoral Researcher (R2)

Morales Rojas, Javier Salvador - Predoctoral Researcher (R1)
Pagola Aldazábal, Itziar - Collaborator
Perales Santaella, María - Collaborator
Rincón Castanedo, Cecilia - Predoctoral Researcher (R1)
Santalla Hernández, Alfredo - Collaborator
Santana Sosa, Elena - Collaborator
Santos Lozano, Alejandro - Collaborator
Sanz Ayán, Mª Paz - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Non Competitive	Various	1
TOTAL		1

- Title:** Análisis de proceso rehabilitación cardiaca propuesta de un modelo de mejora.

Principal Investigator: Juan Izquierdo García

Funding Body: AMGEN S.A.

Start date: 27/06/2019

End date: 26/06/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Ejercicio como terapia coadyuvante en cáncer pediátrico (tumores sólidos): Del laboratorio a la clínica. Parte 1: Ejercicio en Neuroblastoma (estudio preclínico y clínico)

Funding Body: UEM
Star date: 01/02/2018
End date: 01/02/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	18	143.599
Reviews	6	25.027
Editorials	1	4.899
TOTAL	25	173.525
Letters	4	108.094
TOTAL	29	281.619

- Alejo LB, Pagola-Aldazabal I, Fiúza-Luces C, Huerga D, de Torres MV, Verdugo AS, Solano MJO, Felipe JL, Lucia A, Ruiz-Casado A. Exercise prehabilitation program for patients under neoadjuvant treatment for rectal cancer: A pilot study. *Journal of Cancer Research and Therapeutics*. 2019; 15(1): 20-25. IF: 1.392 - Article.
- Martinez-Velilla N, Casas-Herrero A, Zambom-Ferraresi F, Lopez Saez de Asteasu M, Lucia A, Galbete A, Garcia-Baztan A, Alonso-Renedo J, Gonzalez-Glaría B, Gonzalo-Lazaro M, Apezteguia Iraizoz I, Gutierrez-Valencia M, Rodriguez-Manas L, Izquierdo M. Effect of Exercise Intervention on Functional Decline in Very Elderly Patients During Acute Hospitalization A Randomized Clinical Trial. *JAMA Internal Medicine*. 2019; 179(1): 28-36. IF: 20.768 - Article.
- Hampel H, Vergallo A, Afshar M, Akman-Anderson L, Arenas J, Benda N, Batrla R, Broich K, Caraci F, Cuello AC, Emanuele E, Haberkamp M, Kiddie SJ, Lucia A, Mapstone M, Verdooner SR, Woodcock J, Lista S. Blood-based systems biology biomarkers for next-generation clinical trials in Alzheimer's disease? *Dialogues in Clinical Neuroscience*. 2019; 21(2): 177-91. IF: 20.768 - Article.
- Llaver F, Luque Montoro M, Arrazola Sastre A, Fernandez-Moreno D, Lacerda HM, Parada LA, Lucia A, Zugaza JL. Epidermal growth factor receptor controls glycogen phosphorylase in T cells through small GTPases of the RAS family. *Journal of Biological Chemistry*. 2019; 294(12): 4345-58. IF: - Article.
- Real-Martinez A, Brull A, Huerta J, Tarrasó G, Lucia A, Martin MA, Arenas J, Andreu AL, Nogales-Gadea G, Vissing J, Krag TO, de Luna N, Pinós T. Low survival rate and muscle fiber-dependent aging effects in the McArdle disease mouse model. *Scientific Reports*. 2019; 9(1): 5116. IF: 4.011 - Article.
- Ortuno-Costela MDC, Cerrada V, Garcia-Lopez M, Arenas J, Martinez J, Lucia A, Garesse R, Gallardo ME. Derivation of an aged mouse induced pluripotent stem cell line, IISHD0i005-A. *Stem Cell Research*. 2019; 36: 101418. IF: 3.929 - Article.
- Herrera-Olivares AM, Fernandez-Luque JA, Paradas C, Lucia A, Santalla A. Combined HIIT and Resistance Training in Very Long-Chain Acyl-CoA Dehydrogenase Deficiency: A Case Report. *Frontiers in Physiology*. 2019; 10: 650. IF: 3.201 - Article.
- He ZH, Tian Y, Valenzuela PL, Huang CY, Zhao JX, Hong P, He ZL, Yin SH, Lucia A. Myokine/Adipokine Response to "Aerobic" Exercise: Is It Just a Matter of Exercise Load? *Frontiers in Physiology*. 2019; 10: 691. IF: 3.201 - Article.
- Valenzuela PL, Mata F, Morales JS, Castillo-Garcia A, Lucia A. Does Beef Protein Supplementation Improve Body Composition and Exercise Performance? A Systematic Review and Meta-Analysis of Randomized Controlled Trials. *Nutrients*. 2019; 11(6): 1429. IF: 4.171 - Article.
- Ruilope LM, Ruiz-Hurtado G, Barberas MG, de la Cruz JJ, Lucia A, de la Sierra A, Gorostidi M, Vinyoles E, Segura J, Solis J, Arribas F, Garcia-Puig J, Tamargo J, O'Brien E, Volpe M, Whelton PK, Williams B, Banegas JR. Frequency and Prognosis of Treated Hypertensive Patients According to Prior and New Blood Pressure Goals. *Hypertension*. 2019; 74(1): 130-6. IF: 7.017 - Article.
- Sáez de Asteasu ML, Martínez-Velilla N, Zambom-Ferraresi F, Casas-Herrero A, Lucia A, Galbete A, Izquierdo M. Physical Exercise Improves Function in Acutely Hospitalized Older Patients: Secondary Analysis of a Randomized Clinical Trial. *Journal of the American Medical Directors Association*. 2019; 20(7): 866-73. IF: 4.899 - Article.
- Alvarez C, Ramirez-Campillo R, Lucia A, Ramirez-Velez R, Izquierdo M. Concurrent exercise training on hyperglycemia and comorbidities associated: Non-responders using clinical cutoff points. *Scandinavian Journal of Medicine & Science in Sports*. 2019; 29(7): 952-67. IF: 3.631 - Article.
- Fiúza-Luces C, Valenzuela PL, Laine-Menéndez S, Fernandez-de la Torre M, Bermejo-Gómez V, Rufian-Vazquez L, Arenas J, Martin MA, Lucia A, Moran M. Physical Exercise and Mitochondrial Disease: Insights From a Mouse Model. *Frontiers in Neurology*. 2019; 10: 790. IF: 2.635 - Article.
- Barcena C, Valdes-Mas R, Mayoral P, Garabaya C, Durand S, Rodriguez F, Fernandez-Garcia MT, Salazar N, Nogacka AM, Garatachea N, Bossut N, Aprahamian F, Lucia A, Kroemer G, Freije JMP, Quiros PM, Lopez-Otin C. Healthspan and lifespan extension by fecal microbiota transplantation into progeroid mice. *Nature Medicine*. 2019; 25(8): 1234-42. IF: 30.641 - Article.
- Boraita A, Sanchez-Testal MV, Diaz-Gonzalez L, Heras ME, Alcocer-Ayuga M, de la Rosa A, Rabandan M, Abdul-Jalbar B, de Isla LP, Santos-Lozano A, Lucia A. Apparent Ventricular Dysfunction in Elite Young Athletes: Another Form of Cardiac Adaptation of the Athlete's Heart. *Journal of the American Society of Echocardiography*. 2019; 32(8): 987-96. IF: 6.111 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Martinez-Gomez R, Valenzuela PL, Barranco-Gil D, Moral-Gonzalez S, Garcia-Gonzalez A, Lucia A. Full-Squat as a Determinant of Performance in CrossFit. *International Journal of Sports Medicine*. 2019; 40(9): 592-6. IF: 2.132 - Article.
- Valenzuela PL, Castillo-Garcia A, Morales JS, Izquierdo M, Serra-Rexach JA, Santos-Lozano A, Lucia A. Physical Exercise in the Oldest Old. *Comprehensive Physiology*. 2019; 9(4): 1281-304. IF: 6.246 - Article.
- Furman D, Campisi J, Verdin E, Carrera-Bastos P, Targ S, Franceschi C, Ferrucci L, Gilroy DW, Fasano A, Miller GW, Miller AH, Mantovani A, Weyand CM, Barzilai N, Goronzy JJ, Rando TA, Effros RB, Lucia A, Kleinstreuer N, Slavich GM. Chronic inflammation in the etiology of disease across the life span. *Nature Medicine*. 2019; 25(12): 1822-32. IF: 30.641 - Article.
- Rodriguez-Gomez I, Santalla A, Diez-Bermejo J, Munguia-Izquierdo D, Alegre LM, Nogales-Gadea G, Arenas J, Martin MA, Lucia A, Ara I. A New Condition in McArdle Disease: Poor Bone HealthBenefits of an Active Lifestyle. *MEDICINE AND SCIENCE IN SPORTS AND EXERCISE*. 2018; 50(1): 3-10. IF: 4.291 - Article.
- Morales JS, Valenzuela PL, Pareja-Galeano H, Rincon-Castanedo C, Rubin DA, Lucia A. Physical exercise and Prader-Willi syndrome: A systematic review. *Clinical Endocrinology*. 2019; 90(5): 649-61. IF: 2.897 - Review.
- Diaz-Pena R, de los Santos MJ, Lucia A, Castro-Santos P. Understanding the role of killer cell immunoglobulin-like receptors in pregnancy complications. *Journal of Assisted Reproduction and Genetics*. 2019; 36(5): 827-35. IF: 2.82 - Review.
- Dominguez-Gonzalez C, Hernandez-Lain A, Rivas E, Hernandez-Voth A, Sayas Catalán J, Fernandez-Torron R, Fuiza-Luces C, Garcia JG, Moris G, Olive M, Miralles F, Diaz-Manera J, Caballero C, Mendez-Ferrer B, Marti R, Garcia Arumi E, Badosa MC, Esteban J, Jimenez-Mallebrera C, Encinar AB, Arenas J, Hirano M, Martin MA, Paradas C. Late-onset thymidine kinase 2 deficiency: a review of 18 cases. *Orphanet Journal of Rare Diseases*. 2019; 14(1): 100. IF: 3.687 - Review.
- Rosero ID, Ramirez-Velez R, Lucia A, Martinez-Velilla N, Santos-Lozano A, Valenzuela PL, Morilla I, Izquierdo M. Systematic Review and Meta-Analysis of Randomized, Controlled Trials on Preoperative Physical Exercise Interventions in Patients with Non-Small-Cell Lung Cancer. *Cancers*. 2019; 11(7): 944. IF: 6.162 - Review.
- Morales JS, Valenzuela PL, Rincon-Castanedo C, Santos-Lozano A, Fuiza-Luces C, Lucia A. Is health status impaired in childhood cancer survivors? A systematic review and meta-analysis. *Critical Reviews in Oncology Hematology*. 2019; 142: 94-118. IF: 5.012 - Review.
- Valenzuela PL, Morales JS, Emanuele E, Pareja-Galeano H, Lucia A. Supplements with purported effects on muscle mass and strength. *European Journal of Nutrition*. 2019; 58(8): 2983-3008. IF: 4.449 - Review.
- Valenzuela PL, Garcia AC, Morales JS, Santos-Lozano A, Lucia A. Athletic "Oldest-Old": Alive and Kicking. *Journal of the American Medical Directors Association*. 2019; 20(8): 949-51. IF: 4.899 - Editorial Material.
- Boraita A, Santos-Lozano A, Lucia A. Interpretation of Studies on the Occurrence of Atrial Fibrillation in Elite Athletes-Reply. *JAMA Cardiology*. 2019; 4(4): 393. IF: 11.866 - Letter.
- Santos L, Olmo-Aguado SD, Valenzuela PL, Winge K, Iglesias-Soler E, Arguelles-Luis J, Alvarez-Valle S, Parcerio-Iglesias GJ, Fernandez-Martinez A, Lucia A. Photobiomodulation in Parkinson's disease: A randomized controlled trial. *Brain Stimulation*. 2019; 12(3): 810-12. IF: 6.919 - Letter.
- Santos-Lozano A, Fiua-Luces C, Fernandez-Moreno D, Llaverio F, Arenas J, Lopez JA, Vazquez J, Escribano-Subias P, Zugaza JL, Lucia A. Exercise Benefits in Pulmonary Hypertension. *Journal of the American College of Cardiology*. 2019; 73(22): 2906-7. IF: 18.639 - Letter.
- Valenzuela PL, Santos-Lozano A, Lucia A. More on the Record-Breaking Performance in a 70-Year-Old Marathoner. *New England Journal of Medicine*. 2019; 381(3): 293-4. IF: 70.67 - Letter.

Theses Defended or Directed on the Group

- **Candidate:** Javier Salvador Morales
Title: Beneficios del ejercicio físico en población con cáncer pediátrico: Evidencias epidemiológicas y clínicas
Directors: Alejandro Lucía Mulas, Carmen Fiua Luces
Date Defended: 05/12/2019
University: Universidad Europea de Madrid
International Mention: No

End Master Investigations Directed on the Group

- **Student:** Borja Gutierrez Santamaría, Alberto Sanchis Martínez
Title: Valoración de la condición física en supervivientes de cáncer pediátrico a largo plazo
Director: Carmen Fiua Luces
Master: Master Universitario en Actividad Física y Salud (UEM)

Communication

- Number of press releases disseminated: 91

REGENERATIVE MEDICINE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Flores de la Cal, Ana Isabel (R4)

Alcázar Garrido, Álvaro - Support Technician
de la Torre Merino, Mª Paz - Doctoral Researcher (R3)
García García-Porrero, Alicia - Postdoctoral Researcher (R2)
Grande García, Jesús Alfredo - Doctoral Researcher (R3)
Gutiérrez Vélez, Mª del Carmen - Postdoctoral Researcher (R2)

Masero Casasola, Ana Rosa - Doctoral Researcher (R4)
Muñoz Galligo, Eloy - Doctoral Researcher (R4)
Pérez Lorenzo, Mª Jesús - Postdoctoral Researcher (R2)
Vielsa Gordillo, Isabel Mª - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Non Competitive	Various	2
TOTAL		4

- **Title:** Análisis celular y molecular de las estructuras tisulares en pacientes con patología de suelo pélvico. Papel de las células madre mesenquimales de placenta en la regeneración *in vivo* e *in vitro*.

Principal Investigator: Ana Isabel Flores de la Cal

Project No.: PI18/01278

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- **Title:** Estudio del efecto terapéutico del trasplante de las células madre mesenquimales obtenidas de la placenta en la mejora de la incontinencia urinaria de esfuerzo provocada por el parto.

Principal Investigator: Ana Isabel Flores de la Cal

Project No.: PI15/01803

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

- **Title:** Estudio del papel de la alfa sinucleina y las células madre mesenquimales de placenta en la Enfermedad de Parkinson, una de las dos enfermedades neurodegenerativas más frecuentes.

Principal Investigator: Ana Isabel Flores de la Cal

Funding Body: Fundacion Neurociencias y Envejecimiento

Start date: 01/02/2012

End date: 31/05/2015, extended to 31/03/2020

- **Title:** Estudio *in vitro* del efecto de fármacos inmunosupresores sobre la diferenciación ósea de células mesenquimales derivadas de la placenta.

Principal Investigator: Ana Isabel Flores de la Cal

Funding Body: Fundación Francisco Soria Melguito

Start date: 12/12/2019

End date: 31/12/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12)

- **Title:** Mecanismos celulares y moleculares para los efectos anti-inflamatorios de células madre mesenquimales de decidua humana en un modelo de esclerosis múltiple.

Principal Investigator: Paz de la Torre Merino

Project No.: PI17/00047

Funding Body: Instituto de Salud Carlos III (ISCIII)

Fecha de inicio: 01/01/2018

End date: 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	2	10.870
TOTAL	2	10.870

- Paris JL, de la Torre P, Cabanas MV, Manzano M, Flores Al, Vallet-Regi M. Suicide-gene transfection of tumor-tropic placental stem cells employing

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ultrasound-responsive nanoparticles. *Acta Biomaterialia*. 2019; 83: 372-8.
IF: 6.638 - Article.

- Calvo AC, Cibreiro GA, Merino PT, Roy JF, Galiana A, Rufian AJ, Cano JM, Martin MA, Moreno L, Larrode P, Vazquez PC, Galan L, Mora J, Muñoz-Blanco JL, Muñoz MJ, Zaragoza P, Pegoraro E, Soraru G, Mora M, Lunetta C, Penco S, Tarlarini C, Esteban J, Osta R, Redondo AG. Collagen XIX Alpha 1 Improves Prognosis in Amyotrophic Lateral Sclerosis. *Aging and Disease*. 2019; 10(2): 278-92. IF: 4.232 - Article.
- Ortiz-Bautista C, Lopez-Gude MJ, Grande García J, Perez-Vela JL, Perez-Gonzalez V, Escribano-Subias P. Extracorporeal Membrane Oxygenation Support During Pregnancy in Pulmonary Veno-occlusive Disease. *Revista Española de Cardiología* (english Ed.). 2019; 72(2): 174-5. IF: N/A - Letter.

End Graduated Investigations Directed on the Group

- Student:** Laura de la Puente Ovejero
- Title:** Estudio comparativo de la contractilidad de las células de la mucosa suburetral de pacientes afectas de la patología de suelo pélvico
- Director:** Ana Isabel Flores de la Cal
- Degree:** Grado en Biología Sanitaria (Universidad de Alcalá)

Patents

- Title:** Células Madre de la decidua parietalis de la placenta para su uso en la incontinencia urinaria de esfuerzo crónica
- Number:** P201931035
- Type:** Patente Española
- Inventors:** Ana Isabel Flores de la Cal, Paz de la Torre Merino, M^a Jesús Pérez Lorenzo, Álvaro Alcázar Garrido, Eloy Muñoz Gállico, Ana Rosa Masero Casasola, M^a del Carmen Gutiérrez Vélez, José Medina Polo, Jesús Alfredo Grande García, Alicia García García Porrero
- Owners:** Fundación i+12 (100%)
- Date of application:** 22/11/2019

MEDICAL CHEMISTRY LABORATORY

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: López Rodríguez, M^a Luz

Algar Lizana, Sergio - Predoctoral Researcher (R1)
Arribas Álvarez, Iván - Predoctoral Researcher (R1)
Benhamú Salama, Bellinda - Doctoral Researcher (R3)
Canales Mayordomo, M^a Ángeles - Doctoral Researcher (R4)
Escobar Peña, Ana Andrea - Predoctoral Researcher (R1)
Gil Ordóñez, Ana - Predoctoral Researcher (R1)

Khier Fernández, Nora - Predoctoral Researcher (R1)
Marcos Ramiro, Beatriz - Postdoctoral Researcher (R2)
Martínez Ortíz, Mónica - Predoctoral Researcher (R1)
Martín-Fontecha Corrales, M^a del Mar - Doctoral Researcher (R3)
Ortega Gutiérrez, Silvia - Doctoral Researcher (R4)
Vázquez Villa, M^a del Henar - Doctoral Researcher (R3)

- Marin-Ramos NI, Balabasquer M, Ortega-Nogales FJ, Torrecillas IR, Gil-Ordonez A, Marcos-Ramiro B, Aguilar-Garrido P, Cushman I, Romero A, Medrano FJ, Gajate C, Mollinedo F, Philips MR, Campillo M, Gallardo M, Martin-Fontecha M, Lopez-Rodriguez ML, Ortega-Gutierrez S. A Potent Isoprenylcysteine Carboxylmethyltransferase (ICMT) Inhibitor Improves Survival in Ras-Driven Acute Myeloid Leukemia. *Journal of Medicinal Chemistry*. 2019; 62(13): 6035-46. IF: 6.054 - Article.
- Marín-Ramos NI, Ortega-Gutiérrez S, López-Rodríguez ML. Blocking Ras inhibition as an antitumor strategy. *Seminars in Cancer Biology*. 2019; 54: 91-100. IF: 9.658 - Review.

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Nuevas estrategias terapéuticas dirigidas al desarrollo de tratamientos eficaces para enfermedades de alta incidencia.
- Principal Investigator:** M^a Luz López Rodríguez
- Funding Body:** Ministerio de Economía y Competitividad (MINECO)
- Project No.:** SAF2016-78792-R
- Fecha de inicio:** 01/01/2017
- End date:** 31/12/2019

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	1	6.054
Reviews	1	9.658
TOTAL	2	15.712

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Patents

- Title:** Novel biphenylsulfoximines as allosteric modulators of the dopamine D1 receptor
- Authors:** M^a Luz López-Rodríguez, Bellinda Benjamú Salama, M^a del Henar Vázquez Villa, Javier García Cárcel, Fernando Rodríguez de Fonseca, José Manuel Brea Floriani, M^a Isabel Loza García
- Owners:** Universidad Complutense de Madrid y Universidad de Santiago
- Referencia:** EP 17382372
- Priority Country:** Europa
- Date of application:** 19/06/2017

RESEARCH ON INTELLIGENT BIOMATERIALS

CENTER: Universidad Complutense de Madrid (UCM)

GROUP LEADER: Vallet Regí, María (R4)

Aguilar Colomer, Anna - Predoctoral Researcher (R1)
 Alvarez Corchado, Elena - Predoctoral Researcher (R1)
 Arcos Navarrete, Daniel - Doctoral Researcher (R3)
 Cabañas Criado, M^a Victoria - Doctoral Researcher (R3)
 Colilla Nieto, Montserrat - Doctoral Researcher (R3)
 Doadrio Villarejo, Antonio Luis - Doctoral Researcher (R4)
 Doadrio Villarejo, Juan Carlos - Doctoral Researcher (R3)
 García Fontecha, Ana - Postdoctoral Researcher (R2)
 Gisbert Garzaran, Miguel - Doctoral Researcher (R3)
 González Ortiz, Blanca - Doctoral Researcher (R3)
 Heras Rubio, Clara - Predoctoral Researcher (R1)

Izquierdo Barba, Isabel - Postdoctoral Researcher (R2)
 Jimenez Holguin, Javier - Predoctoral Researcher (R1)
 Lozano Borregón, Daniel - Postdoctoral Researcher (R2)
 Manzano García, Miguel - Doctoral Researcher (R3)
 Mora Raimundo, Patricia - Predoctoral Researcher (R1)
 Moreno Zafra, Víctor Manuel - Predoctoral Researcher (R1)
 Peña López, Juan - Doctoral Researcher (R3)
 Román Zaragoza, Jesús - Doctoral Researcher (R4)
 Salinas Sánchez, Antonio Jesús - Doctoral Researcher (R3)
 Sánchez Salcedo, Sandra - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- Title:** Soportes biocerámicos enriquecidos con células mesenquimales y osteostatina para la regeneración de defectos óseos.
- Principal Investigator:** Antonio Jesús Salinas Sánchez
- Project No.:** PI15/00978
- Funding Body:** Instituto de Salud Carlos III (ISCIII)
- Start date:** 01/01/2016
- End date:** 31/12/2018, extended to 31/12/2020

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Active aGelng and Osteoporosis: The next challenge for smart nano-biomaterials and 3D technologies.

Organismo: European Commission Horizon 2020

Principal Investigator: Isabel Izquierdo Barba

Start date: 01/11/2019

End date: 28/03/2023

- Title:** MesOporous matrices for localized pH-triggered release of therapeutic ions and drugs (MOZART).

Organismo: European Commission Horizon 2020

Call: H2020-NMP-PILOTS-2015 (Call for Nanotechnologies, Advanced Materials and Production)

Topic: NMP-06-2015 (Novel nanomaterials and nanocapsules)

Type of Action: RIA (Research and Innovation Actions)

Project coordinator: Chiara Vitale. WP 4 leader: María Vallet-Regí

Start date: 01/11/2015

End date: 31/10/2019

- Title:** nanoSistema polivalente capaz de apoyar soluciones para hueso infectado, con cáncer y osteoporótico (STRAUSS).

Principal Investigator: María Vallet-Regí, Montserrat Colilla Nieto

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Project No.: MAT2015-64831-R

Start date: 01/01/2016

End date: 31/12/2019

- Title:** PolyValent mEsporous nanosystem for bone Diseases (VERDI).

Principal Investigator: María Vallet-Regí

Funding Body: European Research Council Executive Agency. Horizon 2020

Project No.: ERC-2015-AdG Proposal No. 694160

Start date: 01/10/2016

End date: 30/09/2021

- Title:** Nanomateriales regenerativos en escenarios de patología ósea: osteoporosis e infección.

Principal Investigator: Daniel Arcos Navarrete, M^a Teresa Portolés Pérez

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Project No.: MAT2016-75611-R

Start date: 30/12/2016

End date: 29/12/2020

- Title:** Desarrollo de nanotransportadores inteligentes para terapia contra neuroblastoma.

Principal Investigator: María Vallet-Regí

Funding Body: Asociación de familias de niños enfermos con neuroblastoma

Start date: 26/07/2017

End date: 25/07/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	14	94.222
Reviews	6	27.680
TOTAL	20	121.902

- Izquierdo-Barba I, Santos-Ruiz L, Becerra J, Feito MJ, Fernandez-Villa D, Serrano MC, Diaz-Guemes I, Fernandez-Tome B, Enciso S, Sanchez-Margallo FM, Monopoli D, Afonso H, Portoles MT, Arcos D, Vallet-Regí M. Synergistic effect of Si-hydroxyapatite coating and VEGF adsorption on Ti6Al4V-ELI scaffolds for bone regeneration in an osteoporotic bone environment. *Acta Biomaterialia*. 2019; 83: 456-66. IF: 6.638 - Article.
- Paris JL, de la Torre P, Cabanas MV, Manzano M, Flores AI, Vallet-Regí M. Suicide-gene transfection of tumor-tropic placental stem cells employing ultrasound-responsive nanoparticles. *Acta Biomaterialia*. 2019; 83: 372-8. IF: 6.638 - Article.
- Encinas N, Angulo M, Astorga C, Colilla M, Izquierdo-Barba I, Vallet-Regí M. Mixed-charge pseudo-zwitterionic mesoporous silica nanoparticles with low-fouling and reduced cell uptake properties. *Acta Biomaterialia*. 2019; 84: 317-27. IF: 6.638 - Article.
- Paris JL, Lafuente-Gomez N, Cabanas MV, Roman J, Pena J, Vallet-Regí M. Fabrication of a nanoparticle-containing 3D porous bone scaffold with proangiogenic and antibacterial properties. *Acta Biomaterialia*. 2019; 86: 45-55. IF: 6.638 - Article.
- Varini E, Sanchez-Salcedo S, Malavasi G, Lusvardi G, Vallet-Regí M, Salinas AJ. Cerium (III) and (IV) containing mesoporous glasses/alginate beads for bone regeneration: Bioactivity, biocompatibility and reactive oxygen species. *Acta Biomaterialia*. 2019; 86: 45-55. IF: 6.638 - Article.
- Gomez-Cerezo N, Casarrubios L, Saiz-Pardo M, Ortega L, de Pablo D, Diaz-Guemes I, Fernandez-Tome B, Enciso S, Sanchez-Margallo FM, Portoles MT, Arcos D, Vallet-Regí M. Mesoporous bioactive glass/epsilon-polycaprolactone scaffolds promote bone regeneration in osteoporotic sheep. *Acta Biomaterialia*. 2019; 90: 393-402. IF: 6.638 - Article.
- Mora-Raimundo P, Lozano D, Manzano M, Vallet-Regí M. Nanoparticles to Knockdown Osteoporosis-Related Gene and Promote Osteogenic Marker Expression for Osteoporosis Treatment. *Academy of Science Nano*. 2019; 13(5): 5451-64. IF: 13.903 - Article.
- Delpiano GR, Casula MF, Piludu M, Corpino R, Ricci PC, Vallet-Regí M, Sanjust E, Monduzzi M, Salis A. Assembly of Multicomponent Nano-Bioconjugates Composed of Mesoporous Silica Nanoparticles, Proteins, and Gold Nanoparticles. *ACS Omega*. 2019; 4(6): 11044-52. IF: 2.584 - Article.
- Alvarez R, Muñoz-Piña S, Gonzalez MU, Izquierdo-Barba I, Fernandez-Martinez I, Rico V, Arcos D, Garcia-Valenzuela A, Palmero A, Vallet-Regí M, Gonzalez-Elipe AR, Garcia-Martin JM. Antibacterial Nanostructured Ti Coatings by Magnetron Sputtering: From Laboratory Scales to Industrial Reactors. *Nanomaterials*. 2019; 9(9): 1217. IF: 4.034 - Article.
- Martinez-Carmona M, Izquierdo-Barba I, Colilla M, Vallet-Regí M. Concanavalin A-targeted mesoporous silica nanoparticles for infection treatment. *Acta Biomaterialia*. 2019; 96: 547-56. IF: 6.638 - Article.
- Varini E, Sanchez-Salcedo S, Malavasi G, Lusvardi G, Vallet-Regí M, Salinas AJ. Cerium (III) and (IV) containing mesoporous glasses/alginate beads for bone regeneration: Bioactivity, biocompatibility and reactive oxygen species. *Acta Biomaterialia*. 2019; 86: 45-55. IF: 6.638 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



species activity. Materials Science & Engineering C-Materials for Biological Applications. 2019; 105: 109971. IF: 4.959 - Article.

- Prado A, Milanes Al, Cabello E, Diaz R, Ferrando A, Pozo G, Leonor M, Manzano M. Dosimetric Comparison of Four Volumetric-Modulated Arc Therapy Beam Arrangements Utilized for Hippocampal-Sparing Whole-Brain Radiation Therapy. Journal of Medical Physics. 2019; 44(1): 1-8. IF: N/A - Article.

- Prado A, Gaitan A, Leonor M, Manzano M, Cabello E, Diaz R, Ferrando A, Milanes A, Pozo G. Performance of the eclipse monitor unit objective tool utilizing volumetric modulated arc therapy for rectal cancer. Reports of Practical Oncology and Radiotherapy. 2019; 24(2): 227-32. IF: N/A - Article.

- Castillo RR, Vallet-Regí M. Functional Mesoporous Silica Nanocomposites: Biomedical Applications and Biosafety. International Journal of Molecular Sciences. 2019; 20(4): 929. IF: 4.183 - Review.

- Manzano M, Vallet-Regí M. Ultrasound responsive mesoporous silica nanoparticles for biomedical applications. Chemical Communications. 55(19): 2731 - 2740. IF: 6.164 - Review.

- Vallet-Regí M. Bioceramics: from bone substitutes to nanoparticles for drug delivery. 2019. Pure and Applied Chemistry. 2019; 91(4): 687-706. IF: 2. 35 - Review.

- Castillo RR, Lozano D, Gonzalez B, Manzano M, Izquierdo-Barba I, Vallet-Regí M. Advances in mesoporous silica nanoparticles for targeted stimuli-responsive drug delivery: an update. Expert Opinion on Drug Delivery. 2019; 16(4): 415-39. IF: 5. 4 - Review.

- Vallet-Regí M, González B, Izquierdo-Barba I. Nanomaterials as Promising Alternative in the Infection Treatment. International Journal of Molecular Sciences. 2019; 20(15): 3806. IF: 4.183 - Review.

- Paris JL, Baeza A, Vallet-Regí M. Overcoming the stability, toxicity, and biodegradation challenges of tumor stimuli-responsive inorganic nanoparticles for delivery of cancer therapeutics. Expert Opinion on Drug Delivery. 2019; 16(10): 1095-112. IF: 5.4 - Review.

Theses Defended or Directed on the Group

- Candidate:** Miguel Gisbert Garzaran
Title: Stimuli-Responsive Mesoporous Nanomatrizes for Drug Delivery
Directors: Miguel Manzano García
Date Defended: 29/10/2019
University: Universidad Complutense de Madrid
International Mention: No

End Master Investigations Directed on the Group

- Title:** Hipertermia aplicada al tratamiento de la infección
Student: Manuela Cedrum Morales
Directors: Isabel Izquierdo Barba y Blanca González Ortiz
Master: Máster en Física Biomédica (UCM)
- Title:** Diseño de nanopartículas para aplicaciones biomédicas
Student: Manuel Estévez Amado
Directors: Blanca González Ortiz e Isabel Izquierdo Barba
Master: Facultad de Ciencias Químicas (UCM)
- Title:** Yesntesis y caracterización de nanopartículas de vidrio mesoporoso para la regeneración ósea y la infección
Student: Claudia Beltrán Sánchez
Directors: Antonio Salinas, Sandra Sánchez
Master: Master en Medicina Traslacional (UCM)

End Graduated Investigations Directed on the Group

- Title:** Terapias combinadas a partir de nanotransportadores para el tratamiento de la infección bacteriana
Student: Carlos González Andrieu
Director: Isabel Izquierdo-Barba
Degree: Grado en Ciencias Físicas (UCM)
- Title:** Nanosistemas para el tratamiento de la infección mediante hipertermia
Student: Raúl Cano Martín
Director: Blanca González Ortiz
Degree: Grado en Ciencias Físicas (UCM)
- Title:** Diseño y síntesis de nanopartículas de silice mesoporosa con capacidad de vectorización para el tratamiento de la infección
Student: Elvis Cabrera Pinilla
Director: Blanca González Ortiz
Degree: Grado en Ciencias Físicas (UCM)
- Title:** Yesntesis y caracterización de soportes biocerámicos para el tratamiento de defectos óseos en casos de osteoporosis o pseudoartrosis
Student: Álvaro López Hidalgo
Directors: Antonio Salinas Sanchez y Sandra Sánchez Salcedo
Degree: Grado en Ciencias Físicas (UCM)

- Title:** Yesntesis y caracterización de Nanopartículas de vidrio mesoporoso dopadas con iones de estroncio para el tratamiento de enfermedades óseas como la osteoporosis
Student: Jonathan Israel Espinoza Correa
Directors: Antonio Salinas, Sandra Sánchez
Degree: Grado en Ciencias Físicas (UCM)

Prizes and Awards

- Medalla al Mérito en Investigación y Educación Universitaria en reconocimiento de sus relevantes servicios prestados en el campo de la educación universitaria y la investigación científica concedida por el Ministerio de Ciencia e Innovación a la Dra. María Vallet Regí.
- Premio Influentials a la Trayectoria Profesional concedido por El Confidencial y Herbert Smith Freehills a la Dra. María Vallet Regí.
- FEMS Materials Innovation Prize concedido por la Federation of European Materials Societies a la Dra. María Vallet Regí.
- George Winter Award concedido por la Sociedad Europea de Biomateriales (European Society for Biomaterials) a la Dra. María Vallet Regí.
- Premio Homenaje en la 1ª Edición de los Premios Internacionales Zendal, en reconocimiento a su contribución al campo de la ciencia y la salud, en concreto en el campo de la Biomedicina concedido por el Grupo Zendal a la Dra. María Vallet Regí.
- Académica de Honor electa de la Real de la Academia Europea de Doctores. Dra. María Vallet Regí.

- La Prof. María Vallet Regí se encuentra en la lista de investigadores más citados de 2019 (Highly Cited Researcher 2019).

Patents

- Title:** Nanocapsule compositions for the control released of agents of therapeutic interest
Inventors: Pablo Luis Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, Mª Rocío Villegas Díaz, Alejandro Baeza García
Owners: Universidad Complutense de Madrid (60%), Fundación para la Investigación Biomédica del Hospital 12 de Octubre (40%)
PCT extension application No.: PCT/EP2019/050425
Date of application: 09/01/2019
- Title:** Nanopartículas que Vehiculizan la Colagenasa
Number: EP18382005.9
Type: European patent.
Inventors: Pablo Ortiz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regí, María Rocío Villegas Díaz, Alejandro Baeza García
Owners: Fundación i+12 (40%), UCM (60%)
Date of application: 09/02/2018

Communication

- Number of news published in the written press: 32
- News in other audiovisual media (radio, TV): 10

GENETICS AND INHERITANCE

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Fernández Martínez, Francisco Javier (R4)

Gómez Manjón, Irene - Predoctoral Researcher (R1)
Mayo de Andrés, Sonia - Doctoral Researcher (R3)
Moreno García, Marta - Doctoral Researcher (R3)

Moreno Izquierdo, Ana - Clinical Researcher
Sánchez Calvin, M^a Teresa - Predoctoral Researcher (R1)
Vargas Gallego, Carmela - Clinical Researcher

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
Competitive	FMM	1
TOTAL		3

- Title:** Evaluación de la utilización del exoma fetal como herramienta para la identificación de la base genética de las alteraciones ecográficas mayores.

Principal Investigator: Francisco Javier Fernández Martínez

Project No.: PI18/01657

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2019

End date: 31/12/2021

- Title:** Identificación de un modelo combinado de tecnologías genómicas para la realización de diagnóstico prenatal genético.

Principal Investigator: Francisco Javier Fernández Martínez

Project No.: PI15/02036

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018, extended to 30/06/2020

- Title:** Caracterización genómica de mutaciones germinales y somáticas en pacientes pediátricos con epilepsia refractaria.

Principal Investigator: Sonia Mayo de Andrés

Project No.: FMM 2019/0144

Funding Body: Fundacion de Investigacion Medica Mutua Madrileña (FMM)

Start date: 05/12/2019

End date: 04/12/2022

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	1	3.929
TOTAL	1	3.929
Letters	2	13.608
TOTAL	3	17.537

- Cerrada V, Garcia-Lopez M, Moreno-Izquierdo A, Villaverde C, Zurita O, Martin-Merida MI, Arenas J, Ayuso C, Gallardo ME. Derivation of a human DOA iPSC line, IISHD0i006-A, with a mutation in the ACO2 gene: c.1999G>A; p.Glu667Lys. Stem Cell Research. 2019; 40: 101566. IF: 3.929 - Article.
- Garcia-Giordano L, Paraiso-Medina S, Alonso-Calvo R, Fernandez-Martinez FJ, Maojo V. genoDraw: A Web Tool for Developing Pedigree Diagrams Using the Standardized Human Pedigree Nomenclature Integrated with Biomedical Vocabularies. Amia ... Annual Symposium Proceedings. Amia Symposium. 2019; 2019: 457-66. IF: N/A - Article.
- Tous-Romero F, Vico-Alonso C, Calleja-Algarra A, Sanchez-Calvin MT, Palencia-Perez S. Thick nails, plantar keratoderma, follicular hyperkeratosis, and leukokeratosis associated with a novel mutation in KRT6A gene. International Journal of Dermatology. 2019; 58(4): 89-90. IF: 1.794 - Letter.
- de la Hoz, CPDF, Hernandez-Lain A, Olive M, Sanchez-Calvin MT, Gonzalo-Martinez JF, Dominguez-Gonzalez C. Adult-onset distal spinal muscular atrophy: a new phenotype associated with KIF5A mutations. Brain. 2019; 142(12): e66. IF: 11.814 - Letter.

CARE RESEARCH – InveCuid

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Pérez García, Santiago (R2)

Aguilar Ortega, Juana M^a - Researcher Enfermería.
Collados Gómez, Laura - Postdoctoral Researcher (R2)
García Manzanares, M^a Elena - Researcher Enfermería
Garzón Delgado, M^a del Valle - Researcher Enfermería

Hidalgo Doniga, Carolina - Researcher Enfermería
López López, Candelas - Postdoctoral Researcher (R2)
Pajero Otero, Violeta - Researcher Enfermería
Zaragoza García, Ignacio - Postdoctoral Researcher (R2)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- Title:** Desarrollo prototipo dispositivo de ostomía para prevención y/o contención de hernias paraestomales y validación clínica en pacientes ostomizados.

Principal Investigator: M^a Elena García Manzanares

Project No.: DTS17/00179

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2019, extended to 31/12/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	3	6.096
TOTAL	3	6.096

- Aguilar-Ortega JM, Gonzalez-Pascual J, Cardenete-Reyes C, Perez-De-Algabe-Cuenca C, Perez-Garcia S, Esteban-Gonzalo L. Adherence to initial exclusive breastfeeding among Chinese born and native Spanish mothers. BMC Pregnancy and Childbirth. 2019; 19(1): 44. IF: 2.413 - Article.

- Pajero Otero V, García Delgado E, Martín Cortijo C, Romay Barrero HM, de Carlos Iriarte E, Avendaño-Coy J. Kinesio taping versus compression garments for treating breast cancer-related lymphedema: a randomized, cross-over, controlled trial. Clinical Rehabilitation. 2019; 33(12): 1887-97. IF: 2.738 - Article.

- Zaragoza-García I, Perez-Garcia S, Orellana-Miguel MLÁ, Pose-Becerra C, Goñi-Olangua MA. The effectiveness of an online training program in a nursing unit: extraction of blood cultures. Revista da Escola de Enfermagem da USP. 2019; 53: e03531. IF: 0.945 - Article.

- Lopez-Lopez C, Robleda-Font G, Frade-Mera MJ, Gil-Castillejos D, Sanchez-Sanchez MM, Acevedo-Nuevo M, Via-Clavero G, Mondejar JJR, Fructuoso OV, Romeo JDM, Arias-Rivera S. Clinical Practice Guidelines of the American College of Critical Care Medicine for the Prevention and Management of Pain, Agitation/Sedation, Delirium, Immobility, and Sleep Disruption in Adult Patients. Enfermeria Intensiva. 2019; 30(1): 38-42. IF: N/A - Editorial Material.

Active Projects of the Research Group Not Managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH120)

- Title:** Diseño y validación del instrumento UNAV-ENF-Conocer el significado que tiene para la persona.

Principal Investigator: M^a Isabel Saracibar Razquin

Agencia Financiadora: Instituto de Salud Carlos III (ISCIII)

Project No.: PI17/00179

Start date: 01/01/2018

End date: 31/12/2020

- Title:** Valoración, diagnóstico y tratamiento realizado por las enfermeras estomatoterapeutas en los problemas de la piel periestomal.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

End Graduated Investigations Directed on the Group

- Student:** Sofía Olalde Hightower
Title: Análisis de la satisfacción laboral de la enfermera en el ámbito rural relacionada con la evolución del rol profesional y las condiciones laborales
Director: Candelas López López
Degree: Enfermería (UCM)
- Student:** Arancha Santos Bermúdez de Castro
Title: Papel de enfermería en patologías del suelo pélvico en mujeres
Director: Candelas López López
Degree: Enfermería (UCM)
- Student:** Cristina Malpartida Comerón
Title: Actuación de la enfermera de atención primaria en la prevención y diagnóstico precoz del riesgo de suicidio en adolescentes
Director: Candelas López López
Degree: Enfermería (UCM)
- Student:** Marta García-Bonacho Puent
Title: Errores de medicación en la práctica enfermera: revisión bibliográfica
Director: Candelas López López
Degree: Enfermería (UCM)
- Student:** Lara Cisneros Fernández
Title: Papel de la enfermera en el uso de la ecografía para canalización del acceso vascular
Director: Candelas López López
Degree: Enfermería (UCM)
- Student:** Daniel Carrera Cabezuelo
Title: Plan de cuidados estandarizado en la paciente
Director: M.ª Elena García Manzanares
Degree: Enfermería (UCM)
- Student:** Fátima Zohra Benslaiman El Azouan
Title: Plan de cuidados estandarizado de enfermería: histerectomía en mujeres jóvenes con cáncer de cuello de útero.
Director: M.ª Elena García Manzanares
Degree: Enfermería (UCM)

- Student:** Lara Domínguez González
Title: PAE pacientes con trastorno disociativo
Director: Santiago Pérez García
Degree: Enfermería (UCM)
- Student:** Andrea Sánchez Ambrosio
Title: Participación de los hermanos en los cuidados de pacientes pediátricos onco-hematológicos y su comunicación
Director: Laura Collados Gómez
Degree: Enfermería (UEM)
- Student:** Juan Manuel Arechaga Rodríguez
Title: El Baby-Led Weaning: arma de doble filo en la alimentación infantil
Director: Laura Collados Gómez
Degree: Enfermería (UEM)
- Student:** Sandra Vera Gallardo
Title: Adolescentes diabéticos mellitus tipo 1 con adicciones
Director: Laura Collados Gómez
Degree: Enfermería (UEM)
- Student:** Carlos Vaquero Corrales
Title: El alcoholismo en España desde un enfoque socio-sanitario y cultural
Director: Laura Collados Gómez
Degree: Enfermería (UEM)
- Student:** Valentina Ortega Gil
Title: Prevención primaria del accidente cerebrovascular: Educación para la salud en pacientes con más de 65 años de la Comunidad de Madrid
Director: Laura Collados Gómez
Degree: Enfermería (UEM)

Prizes and Awards

- Premio al mejor artículo publicado en 2018: "Aplicación de la terapia de vacío en el tratamiento de la dehiscencia completa de la inserción mucocutánea del estoma". Hidalgo Doniga C, Caso Maestro O, Pérez Torres JB, García Manzanares ME. 8º Certamen científico Ana María Martínez. Hospital Universitario 12 de Octubre.

TRANSLATIONAL RESEARCH WITH iPS CELLS

CENTER: Hospital Universitario 12 de Octubre (H120)

GROUP LEADER: Gallardo Pérez, M.ª Esther (R2)

Cerrada López, Victoria - Predoctoral Researcher (R1)

García López Marta - Predoctoral Researcher (R1)

Active Research Projects

Type of Funding	Funding Body	No. of Projects
Competitive	ISCIII	2
TOTAL		2

- Title:** Enfermedad de Mcardle: aproximaciones terapéuticas 2D/3D basadas en el uso de iPSCs.
Principal Investigator: M.ª Esther Gallardo Pérez
Project No.: PI18/00151
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2019
End date: 31/12/2021
- Title:** Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención. Parte 2: aproximaciones a terapia basadas en el uso de iPSCs.
Principal Investigator: M.ª Esther Gallardo Pérez
Project No.: PI15/00484
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018, extended to 30/06/2020

Publications*

Type of Document	No. of Documents	Σ IF (JCR 2018)
Articles	3	12.380
Reviews	2	8.841
TOTAL	5	21.221

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2018 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

End Master Investigations Directed on the Group

- Student:** Sofía Álvarez Galeano
Title: Enfermedad de McArdle: aproximaciones a terapia basadas en el uso de células madre pluripotenciales inducidas, iPSCs
Director: M.ª Esther Gallardo Pérez
Master: Máster Interuniversitario de descubrimiento de fármacos. (UCM-CEU-UAH)



End Graduated Investigations Directed on the Group

Student: Rubén Fraguá Baeza
Title: Utilización de iPSCs como modelo de estudio de atrofia óptica dominante.

Director: Mª Esther Gallardo Pérez
Degree: Grado en Bioquímica. (UAM)

Student: Carmen Bernardino Morcillo
Title: Enfermedad de McArdle: Aproximaciones a terapia basadas en el uso de iPSCs.

Director: Mª Esther Gallardo Pérez
Degree: Grado en Bioquímica. (UAM)

Communication

- Number of news published in the written press: 1
- News in other audiovisual media (radio, TV): 1 (Interview for TVE and la 2 on the international day of women and girls in science, 11/02/2019).