

ANNUAL SCIENTIFIC REPORT 2018

i+12

Instituto de Investigación
Hospital 12 de Octubre



Presentation	2	Clinical Research Support Platforms	36
Participating Entities	4	Scientific Support Unit	36
Mission, Vision and Values	5	Biobank	37
Organizational Structure	6	Other Support Services at Instituto i+12	38
Governing Bodies	8	Scientific Documentation Service	38
Goberning Council	8	Innovation Support Unit i+12	39
Delegated Commission	10		
Directorate	11		
Sub-Directorate	11		
Advisory Bodies	12	Research Activity	40
Scientific Advisory Board	12	Research Projects	42
Research Committee	13	Clinical Trials	49
Ethics Committees	15	Participation in Collaborative Research Networks	52
Ethics Committee for Research with Medical Products (ECRMP)	15	Collaborative Research Networks (RETICS)	52
Ethics Committee for Animal Welfare	17	Research Support Platforms in	
Management and Administration	18	Health Science and Technology	53
Financial-Administrative Management Area	18	Networked Biomedical Research Groups (CIBER)	54
Scientific Management Area	18	Other Networks and Collectives	55
General Organizational Structure of Instituto i+12	19		
Human and Technological Resources	20	Scientific Activity: Results	56
Human Resources	22	Publications indexed in The Journal Citation Reports (JCR 2017)	58
Contracts for Researchers and Technicians	22	Analysis	58
Care Staff who Benefited from			
Grants for Intensification of Research Activity	27	Clinical Practice Guidelines	82
Technological Resources	29	Technology Transfer Activities and IPR Portfolio	87
Translational Research Support Platforms	29	Industrial Property	87
Genomics Unit	29	Processes for Public Procurement of Innovation	91
Proteomics Unit	30	Application for Innovation Calls	91
Cytometry Unit	32	Actions for Development	91
Confocal Microscopy Unit	33	Programs for Innovation in Health Care	91
Bioinformatics Unit	34	Activity in the Framework of Plataforma ITEMAS	92
Animal Facility and Experimental Operating Rooms	35	Training Actions	92
		Alliances and Search for Partners	92
		Transfer Actions	92
		Publication of the Services of UAI i+12	93

Training Activities	94	Area 3 – Rare and Genetically Based Diseases	184
Courses	96	Rare, Mitochondrial, and Neuromuscular Diseases	185
Seminars and One-Day Sessions	97	Pathophysiology of Mitochondrial Biogenesis	190
i+12 Sessions	98	Mitochondrial Membrane Laboratory	192
Seminars at the i+12 Research Center	99	Porphyria, Haemochromatosis and Anemia	194
Seminars on Cancer Immunotherapy	100	Regulation of Cellular Homeostasis	196
Doctoral Theses Directed or Defended in 2018 by Researchers from the Institute	101	ALS Research Group	198
Financial Report	106	Area 4 – Epidemiology and Evaluation of Technologies, Sanitary Services and Information System	200
Research Areas and Groups	110	Clinical Epidemiology, Health Technologies and Information and Communication Techniques	201
Area 1 – Cancer	112	Research in Health Services and Results	205
Translational Biophysics	113	Maternal and Child Health	206
Translational Energetic Metabolism	115	Research in Complex Patients and Health System	211
Translational Haematology	117	Clinical Practice Appropriateness and Patient Safety	212
Neuro-Oncology	125	Area 5 – Cardiovascular	214
Cutaneous Oncology	128	Translational Multidisciplinary Cardiovascular Research	215
Thoracic and Clinical-Translational Oncology	133	Research on Cardiovascular Imaging	222
Genitourinary and Cellular and Molecular Oncology	141	Heart Failure – Pulmonary Hypertension	223
Breast and Gynecologic Cancer	146	Translational Research in Hypertension and Cardiorenal Disease	227
Digestive Cancer	150	Perinatal Medicine	231
Immunooncology and Immunotherapy	154	Research on Cardiovascular Risk	233
Lymphoide Differentiation	155	Area 6 – Inflammatory Diseases and Immune Disorders	234
Area 2 – Chronic Diseases and Transplantation	156	Asthma and Immunoallergic Diseases	235
Ageing, Neuroimmunology, and Nutrition	157	Molecular and Cellular Bases of Rheumatic Diseases	237
Respiratory Diseases	160	Inflammatory and Autoimmune Diseases	239
Bone Metabolism, Diabetes, and Nutrition	164	Lymphocyte Immunobiology	243
Clinical Nephrology	166	Immunodeficiencies and Immunology of Transplants	248
Pulmonary Surfactant and Respiratory Diseases	169	Area 7 – Infectious Diseases and AIDS	252
Male's Integral Health	171	Virology and HIV/AIDS	253
Tissue Engineering	174	Molecular Epidemiology of Hospital and Emerging Infections	257
Abdominal Organ Transplant	176	Translational Research in Leishmaniasis	260
Critical Patient	179		
Kidney Transplant	182		

Translational Research in Malaria	262
Infectious Pathologies	263
Translational Research Group on Pediatric Infectious Diseases	269
Area 8 – Neurosciences and Mental Health	276
Cognition and Psychosis	277
Neurodegenerative Diseases	280
Translational Psychiatry	285
Neurotraumatology and Subarachnoid Hemorrhage	288
Addictions and Comorbidity	290
Neurovascular Research	293
Area 9 – Transversal	296
Research on Physical Activity and Health	297
Regenerative Medicine	300
Medical Chemistry Laboratory	302
Homeostasis and the Tissue Physiopathology of the Stem Cells	304
Research on Intelligent Biomaterials	306
Genetics and Inheritance	312
Care Research	314

ANNUAL SCIENTIFIC REPORT 2018

i+12

Instituto de Investigación
Hospital 12 de Octubre



PRES

Once again, it gives me great pleasure to present the 2018 Annual Activity Report of Instituto de Investigación Hospital 12 de Octubre (Instituto i+12 [Hospital 12 de Octubre Research Institute]). As in the past, the report aims to present the scientific results achieved by the professionals at our institute during the year.

December 2018 marked the end of the Instituto i+12 Strategic Plan. During the present year, we have carried out an in-depth analysis, whose results are reflected in the strategy formulated for Strategic Plan 2019-2023. The new plan has 4 strategic areas: Sustainability and Development, Communication, Innovation, and Quality. Its main objective is to continue the work carried out in Strategic Plan 2014-2018 by laying the foundations for our actions in the future and thus consolidating the activity of Instituto i+12 during recent years.

In the Communication area, one of the key activities during 2018 was the implementation of "microsites" for our research groups. These microsites provide information from the research groups that is updated in real time. In parallel, we have worked on the English translation of the web page and its implementation. These developments are aimed at increasing our visibility and reporting on the scientific output of our professionals.

In the Quality area, a key activity was the drafting and approval of a Manual of Good Scientific Practice for Instituto i+12, which includes the content typical of this type of document.

As in previous years, and in line with our Strategic Plan, the Action Plan of the Foundation for Biomedical Research of Hospital 12 de Octubre (FIBH12O) included the funding necessary to publish intramural calls for grants for intensification of research and innovation, which are aimed at various professional profiles, as well as the call for grants aimed at incorporating a Head of Residents/Researcher. This call has been highly successful since its implementation. Our most outstanding new projects include the publication of the first call for seed projects, which is aimed at researchers whose projects have been presented for the Acción Estratégica de Salud (AES [Strategic Actions in Health]) and are now well placed despite not having been awarded funding. We have also replaced the call for grants to staff research groups with calls for contracts.

Of particular interest are the results of our scientific output, which we present in this report and which clearly show, year after year, that the scientific excellence of Instituto i+12 is now fully consolidated. The scientific structure of Instituto i+12, with its 9 areas and 62 research groups, has made it possible to develop translational research and ensure stable scientific output over the years.

During the year 2018, research staff from Instituto i+12 generated 832 indexed publications (original articles, reviews, and editorials). The overall impact factor of the publications was 4,884.134 points, representing, once again, an increase in the scientific output generated by professionals from Instituto i+12. With respect to the quality of the publications, 54% appeared in first-quartile journals (Q1), and of these, 50% were in first-decile journals (D1) in the relevant specialty area.

In addition, during 2018, our researchers received funding for 40 projects in national and international public and private calls. A total of 239 clinical trials and observational studies were contracted. The research projects carried out at Instituto i+12 during the year led to the publication of 61 clinical practice guidelines, and members of the Institute directed or defended 30 doctoral theses.

The year 2018 also saw the consolidation of and increase in the activity of our Innovation Support Unit (UAI i+12). Thanks to the hard work of the Unit's members, we were able to participate in innovative public purchase initiatives. We now have a growing portfolio of innovation projects, we have processed numerous applications for intellectual property rights, we have worked actively to forge alliances and search for partners at various levels (industry, universities, and public bodies), we have various patents in force, and we have licensed our Strategic Plan follow-up tool, Sistema SEPiR+i12. During the year, we invested considerable effort in presenting the service portfolio of the UAI i+12 in the various care services of Hospital 12 de Octubre, with the aim of creating a culture of innovation among clinical care staff.

Our Annual Report provides us with yet another opportunity to show our achievements and improvements. Therefore, I would like to thank each and every one of the professionals who form part of Instituto i+12 for their day-to-day dedication and effort, which make it possible for us to achieve such magnificent results, as demonstrated by the results set out above.

Thank you.

Dr. Joaquín Arenas Barbero
Scientific Director, Instituto i+12

PARTICIPATING ENTITIES

The Instituto de Investigación Hospital 12 de Octubre (Instituto i+12) was constituted in 2009 through the association of various entities with common interests. The entities that currently make up the Institute are:



- 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 Universitario 12 de Octubre.
- Dirección General de Investigación, Formación e Infraestructuras Sanitarias de la Consejería de Sanidad de la Comunidad de Madrid.

MISSION, VISION, AND VALUES

Mission

"To develop research and innovation activities in a setting of excellence and quality that make it possible to translate results to the resolution of the health problems of the general population by promoting cooperation and alliances with other agents in the public and private sectors".

Vision

"Instituto de Investigación Hospital 12 de Octubre aims to become a reference center for multidisciplinary biomedical research in the fields of clinical and translational research at both national and international level. Similarly, Instituto i+12 aims to become a reference center for teaching, both through Universidad Complutense de Madrid and Universidad Autónoma de Madrid, and for postgraduate training at Hospital Universitario 12 de Octubre.

Instituto i+12 will act as a driver for the generation and dissemination of knowledge, with emphasis on promotion of innovation and fast and effective translation of results to clinical practice, especially patient care, in order to develop new diagnostic and treatment methods for the diseases that most affect the population by promoting cooperation and alliances with other agents in the public and private sectors".

Values

- High-level scientific and technical skills.
- Commitment to and identification with Instituto i+12.
- Cooperation between basic and clinical research and promotion of synergies.
- Sensitivity to the needs of society.
- Search for excellence through continuous evaluation and improvement.
- Optimization and sharing of resources.
- Strategic alignment.
- Innovation, knowledge transfer, and resolution of health problems.
- Cooperation and openness to alliances with other agents.
- International outlook.



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 (FIBH12O) is included in the general organizational structure of Instituto i+12 and is complemented by the Scientific Management Area.

GOVERNING BODIES

Governing Council

The Goberning 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 Goberning Council is stipulated in clause 7 of the Cooperation Agreement for the creation of Instituto i+12. The Goberning Council is formed by the persons set out below.

CHAIR

Fernando Prados Roa

Vice-Councillor of Health Care, Servicio Madrileño de Salud

FIRST VICE-CHAIR

Ignacio Lizasoain Hernández

Vice-Rector of Scientific Policy, Research and Doctoral Studies 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 (FIBH12O)

Antonio Jesús Roldán Rodríguez-Marín

Member of the Board of Trustees, FIBH12O, Vice-Chair

José Nieves González

Member of the Board of Trustees, FIBH12O

Mª Andión Goñi Olangua

Member of the Board of Trustees, FIBH12O

Joaquín Arenas Barbero

Member of the Board of Trustees, FIBH12O and Director of Instituto i+12

Mª Puy Goyache Goñi

Member of the Board of Trustees, FIBH12O

Mª Ángeles Moro Sánchez

Member of the Board of Trustees, FIBH12O

José Luis Pablos Álvarez

Member of the Board of Trustees, FIBH12O, and representative of the Research Committee of Instituto de Investigación Hospital 12 de Octubre (i+12)

José Luis Álvarez-Sala Walther

Deacon of the School of Medicine, UCM

Prof. José Manuel Cuevva Marcos

Representative of the UAM

Jesús Mª Paramio González

Representative of the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT)
[Center for Research on Energy, Environment, and Technology]

Sergio Calvo Fernández

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 FIBH12O



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 Gorbeneing 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 Gorbeneing 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

José Luis Álvarez-Sala Walther
Representative of UCM

Prof. José Manuel Cuevza Marcos
Representative of UCM

Jesús M^a Paramio González
Representative of CIEMAT

Sergio Calvo Fernández
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

M^a 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 Gorbeneing 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 Gorbeneing Council.

In 2018 the position of Scientific Subdirector is held by:

Juan Carlos Leza Cerro

Coordinator of the Neuroscience and Mental Health Research Area 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. Director of the Clinical Unit for Infectious Diseases, Microbiology, and Preventive Medicine of Hospital Universitario Virgen del Rocío, Sevilla.

MEMBERS

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 – VHIO, 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.

Isabel Illa Sendra

Professor of Neurology, Universitat Autònoma de Barcelona, Head of the Neuromuscular Diseases Unit, Neurology Department, Hospital Santa Creu i Sant Pau, Barcelona.

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.

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).

Juan Carlos Leza Cerro

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).

Eva M^a Carro Díaz

Head of the Neurodegenerative Diseases Group, 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 latest 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 Ethics Committee for Research with Medical Products (ECRMP) of Instituto i+12 are the following:

CHAIR

M^a del Puy Goyache Goñi
Pharmacist, Hospital Pharmacy.

VICE-CHAIR

Luis Manuel Manso Sánchez
Physician, Oncology.

MEMBERS

M^a Luisa Albelda de la Haza
Law Graduate.
M^a de las Mercedes Catalán González
Physician, Intensive Care.
Eduardo Gutiérrez Martínez
Physician, Nephrology.
M^a Pilar Hernández Suárez
University Diploma in Nursing (CEAS).

Ana Jiménez Ubieto

Physician, Hematology and Hemotherapy.

Francisco Javier Mazuecos Gómez

Social Worker, Ayuntamiento de Madrid.

César Minué Lorenzo

Family Physician, Servicio Madrileño de Salud.

Montserrat Pilas Pérez

University Diploma in Nursing.

Mª del Carmen Riesco Martínez

Physician, Oncology.

Yolanda Rodríguez Gil

Physician, Histopathology.

Roberto Rodríguez Jiménez

Physician, Psychiatry.

Sarahí Elizabeth Valdez Acosta

Clinical (Technical secretary CElm).

Raquel Siguín Gómez

Pharmacist, Primary Care.

Sagrario Alegre Alonso

Coordinator, AECC.

Mª Mar Espino Hernández

Pediatric Nephrology

Julián Palomino Doza

Physician, Cardiology.

Rafael San Juan Garrido

Physician, Microbiology.

Eva Carro Díaz

Research Comission.

Cristina Martín-Arriscado Arroba

Estatistician.

Estela Paz Artal

Physician, Inmunology.

SECRETARY

María Ugalde Díez

Doctor of Biological Scienicie.

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 (FIBH12O). It is organized into 5 main units.

HEAD

Mª del Mar López Martín
Director, FIBH12O.

- Accounting Unit
- Project Follow-up Unit
- Billing, Private Management and Clinical Trials Unit
- Human Resources Unit
- Purchases Unit

18

19

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.

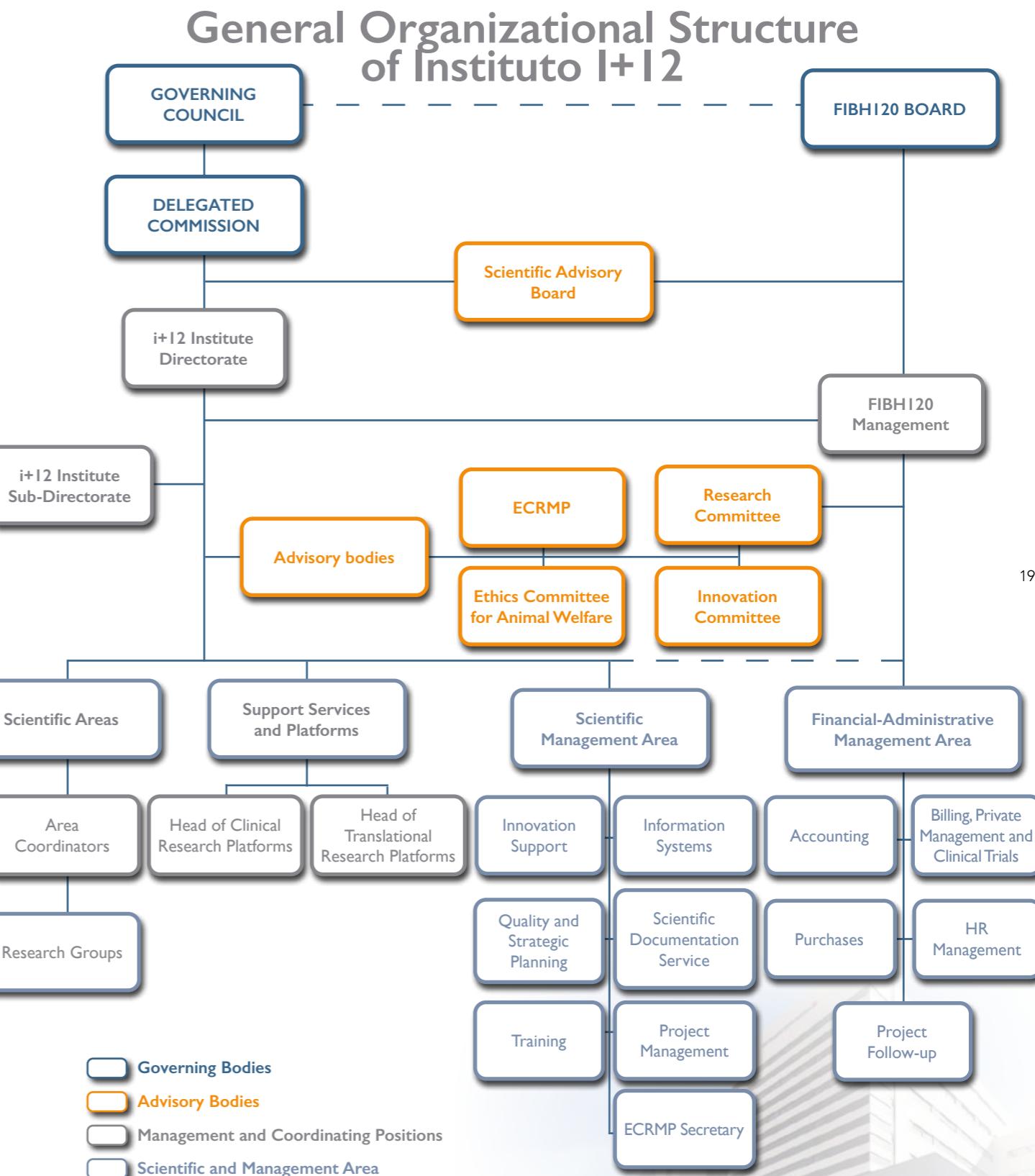
These units were organized into the Scientific Management Area, with the aim of creating an integrated structure for management by the professionals of Instituto i+12.

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

HEADED BY

Joaquín Arenas Barbero
Instituto de Investigación Hospital 12 de Octubre (i+12).

- Quality and Strategic Planning Unit
- Innovation Support Unit
- Training Unit
- Project Management Unit
- Information Systems Unit
- Technical Secretary, Ethics Committee
- Scientific Documentation Service



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 2018 are set out below.

MANAGEMENT OF ACCREDITED RESEARCH INSTITUTES	Managers of certified research institutes	1
RESEARCHERS		
37	Stabilization Program contracts - ISCIII	4
	Stabilization Program contracts - MICINN	1
	Researcher contracts SNS-Miguel Servet-ISCIII	7
	Juan Rodés contracts	2
	Researchers' platform	10
	CIBER researchers	13
RESEARCHERS WHO HAVE COMPLETED SPECIALIZED TRAINING IN HEALTH CARE	Río Hortega-ISCIII researchers	3
12	Researchers who have completed specialized training in Health Care-i+12	9
POSTDOCTORAL RESEARCHERS	Sara Borrell contracts-ISCII	1
14	Juan de la Cierva-MICINN	1
	Postdoctoral-i+12 contracts	12
PREDOCCTORAL RESEARCHERS	Predoctoral researchers in Training in Health Research-ISCIII	1
4	Predoctoral contracts for Training in Health Care-MICINN	1
	Grant/Contract for Training of University Teaching staff FPU-MEC	1
	Grant/Contract for Training of Researchers FPI-MICINN	1
RESEARCHERS ASSIGNED TO RESEARCH PROJECTS	Researchers Assigned to i+12 Projects	36
193	Researchers Assigned to ECM – i+12 Projects	53
	Researchers Assigned to Public Projects	64
	Researchers Assigned to Private Projects	40
SUPPORT TECHNICIANS	Technician Stabilization Program contracts – ISCIII	2
22	Support Technician contracts – Comunidad de Madrid	19
	Research Support Technicians – i+12	1

Total 283

Contracts funded by public bodies and awarded in 2018 are set out below.

Support bioinformatic technician to the research contracts for the IIS-ISCIII:

Jorge Docampo Cordero

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

Elena Rodríguez Sánchez

Contrats I-PFIS: IIS MD-Company in health sciencieces and technologies -ISCIII:

Jessica Encinas Mayoral
Ainhoa Erce Llamazares

Sara Borrell-ISCIII contracts:

Ajay Kalanjana Monnappa

Miguel Servet-ISCIII contracts:

Mario Fernández Ruiz
Mª del Carmen Fiua Luces

Río Hortega-ISCIII contracts:

Víctor Antonio Blanco Palmero
Gonzalo Carreño Gómez-Tarragona
Paula Salgado Cámara

Juan Rodés contracts:

Esther Barrionuevo Sánchez
Sara Llamas Velasco
Ester Viedma Moreno

Mobility of health professionals and researchers from SNS (M-BAE)-ISCIII:

Rafael Alberto Alonso Fernández

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

1 laboratory technician contrac, tutoring by:

Alberto García Redondo

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 Educación, Juventud y Deporte. Comunidad de Madrid. Dirección General de Investigación e Innovación. Consejería de Educación e Investigación. Comunidad de Madrid:

7 contracts for predoctoral researchers, tutored by:

Luis Miguel Allende Martínez
Héctor Bueno Zamora
Juan Francisco Delgado Jiménez
Estela Paz Artal

Roberto Delgado Jiménez
Daniel Rueda Fernández
Jorge Solís Martín

Grants for incorporation Juan de la Cierva grants . Ministerio de Economía, Industria y Competitividad:

Cristina Municio Rueda

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

Mikel Mancheño Losa

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

Inés García-Consuegra Galiana

Grants associate research project i+12:

Mª del Pilar Hernández Jiménez	Sara Laine Menéndez
Carmen Domínguez Alonso	Santiago García Borrego
Noemí Ceprían Costoso	Raquel Sánchez Baltasar
Cristina Sánchez Carabias	Leyla Blanco García
Marta García López	Elena Rodríguez Sánchez
Genoveva Gómez Estévez	Laura González Lafuente
Gabriel García Salamero	Marta Seijo Vila
Beatriz Herrero Fernández	Lucía Marcela Figueroa Ospina
Diana Gómez Díaz	Ana Peñas Pita da Veiga
Francisco Javier Cotrina Vinagre	

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

Incorporation of a trainee 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

Jesús González Olmedo

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

Carolina Rubio Martín

Incorporation of a trainee 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

Pedro Pablo Rodríguez Quezada
Cristina Martín Blas

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

Mireia Santacreu Guerrero

Incorporation Postdoctoral Researcher for development oncological research Project i+12 entitled "Caracterización Molecular de las Neoplasias Neuroendocrinas Gastrointestinales. Aplicación en el Contexto Clínico", funded by Asociación Española Contra el Cáncer (AECC):

Beatriz Soldevilla Navarro

Grant assigned to research group “Perinatal medicine” of Instituto de Investigación Hospital 12 de Octubre - i+12:

Cecilia Villalaín González

Grant assigned to research group “Regenerative medicine” of Instituto de Investigación Hospital 12 de Octubre - i+12:

Mª Paz de la Torre Merino

Grant assigned to research group “Translational research in hypertension and cardiorenal syndrome” of Instituto de Investigación Hospital 12 de Octubre - i+12:

Luis Miguel Ruilope Urioste

Grant assigned to research group “Porphyria, hemochromatosis, and anemia” of Instituto de Investigación Hospital 12 de Octubre - i+12:

Mª José Borrero Corte

Research contracts for professionals after complet the Specilaized Formation- i+12:

Daiana Guillén Vera

Sonia Mayo de Andrés

Research contracts for Health professionals during their Specialized Training - i+12:

Ana Teresa Carro Barri

Gonzalo Carreño Gómez-Tarragona

Carlos Daniel Grasa Lozano

Irene Muñoz Gallego

Mª Teresa Muñoz Jiménez

Isabel Rodríguez Goncer

Nerea Salmón Rodríguez

Mario Sánchez Tornero

Grants to finance research contracts to candidates of Río Hortega - i+12:

Fernando Caravaca Fontán

Óscar Cabrera Marante

Sonia Mayo de Andrés

Grant to stabilizing a Juan Rodés contract - i+12:

Mario Fernández Ruiz

Researchs contracts for new PhD - i+12:

Cristina María Municio Rueda

Researchs Postdoctoral contracts- i+12:

Mª Gabriela Atencia Cibreiro

Francisco Ávila Román

Macarena Calero Calero

Juan Manuel Coya Raboso

Meuri del Camino de Juan Romero

Chagla Deftelari

José Luis Morgado Pacual

Susana Peralta Morales

Jonay Poveda Núñez

Fátima Rodríguez Fornes

Mª Alfonsina Trento Martín

Mª del Carmen Vida Rueda

Technicians Contrats Associated to research Project - i+12:

Clara Calleja Fernández

Macarena de Vicente de la Cueva

Nuria Labiod Becerro

Irene Gómez Manjón

Mª Jesús Pérez Lorenzo

Irene Taravillo Cañete

Isabel Cuenca Navarro

Marta García López

Alessia Gutiérrez Delgado

Alba Rodríguez García

Karla Santos de Frutos

Sara Asensio Peña

Patricia Suárez Fernández

Mónica Domípablo Tobar

Miguel Pedrera Jiménez

Complementary grants for Research Groups pertaining to Redes de Investigación Cooperativa en Salud (RTICS) - i+12:

Mª del Carmen Diéguez Pastor

Manuel Praga Terente

José Luis Pablos Álvarez

José Mª Aguado García

Gabriel Rubio Valladolid

Carmen Rosa Pallás Alonso

Rafael Rubio García

Care Staff who Benefited from Grants for Intensification of Research Activity

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

Jorge Adeva Alfonso

Rosa Mª Ayala Díaz

José Manuel Caro Teller

Eva Mª Ciruelos Gil

Javier de la Serna Torroba

Cristina Domínguez González

Pilar Escribano Subias

María Galindo Izquierdo

Rocío García Carbonero

Carlos Gómez Martín

Carlos González Gómez

Carlos Grande García

Lara Carmen Iglesias Docampo

Beatriz Joven Ibáñez

Manuel Lizasoain Hernández

María López Gil

Carlos Lumbreras Bermejo

Luis Manuel Manso Sánchez

Joaquín Martínez López

Montserrat Morales Conejo

Juan Antonio Núñez Sobrino

David Andrés Pérez Martínez

Santiago Ponce Aix

Inmaculada Rapado Martínez

Antonia Rodríguez Izquierdo

Pablo Rojo Conejo

Rafael Salguero Bodes

Fernando Sarnago Cebada

Jorge Solís Martín

Alberto Villarejo Galende

Intensification contracts for research activity associated to research projects - i+12.

Luis Miguel Allende Martínez	Laura Lema Roso
Fernando Arribas Ynsaurriaga	Manuel Lizasoain Hernández
Julián Benito León	José Antonio López Martín
Daniel Blázquez Gamero	Francisco López Medrano
Patricia E. Carreira Delgado	Jaime Lora-Tamayo Morillo-Velarde
Teresa Cañero Escribano	José Luis Pablos Álvarez
Eva Mª Ciruelos Gil	Mª Liz Paciello Coronel
Guillermo de Velasco Oria de Rueda	Carmen Rosa Pallás Alonso
Cristina Domínguez González	Addison Julián Palomino Doza
Laura Domínguez Pérez	Ana Pérez de Ayala Balzola
Pilar Escribano Subías	Luis Prieto Tato
Adolfo Fontenla Cerezuela	Eva Mª Sánchez Morla
Mª Elena García Manzanares	Juan Manuel Sepúlveda Sánchez
Carlos Gómez Martín	Antonio Serrano Hernández
Beatriz Esther Joven Ibáñez	Mª Pilar Tejada Palacios
Antonio Laluez Blanco	

Intensification contracts for research activity for Nursing Staff - i+12.

Luis Fernando Carrasco Rodríguez-Rey	Javier Izquierdo García
Laura Collados Gómez	Candelas López López
María de la Vieja Soriano	María Sáenz Jalón

Intensification contracts of research activity for nonclinical healthcare specialized technical personnel for the development of an innovation project - i+12.

Antonio Martín González

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.
- NextSeq 500 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).

COORDINATOR

Francisco Javier Fernández Martínez

TECHNICAL MANAGER

Juan Carlos Rubio Muñoz

PROTEOMICS UNIT

Instituto i+12 has been supported by the Proteomics Unit since 2007. The main objectives of this unit are to provide service and support to researchers and promote scientific research and continuous technological development in the area of proteomics.

Proteomics provides a set of tools that enable the study of the molecular pathogenesis of diseases, as well as the identification of specific biomarkers that make it possible to diagnose, classify, and predict disease. It also defines new therapeutic targets and predicts the response to drugs.

Services Offered

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

The Proteomics Unit offers a wide range of services for analyzing proteins, many of which require external services. In addition, most of the services require close interaction with the user to determine the best analytical strategy to use.

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 support and service with the following technologies:

- 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.
- Identification of proteins both in gel and in solution.
- 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 of gels for subsequent identification of proteins.
- Theoretical and practical assistance in the specific design of different types of immunoblotting.
- 1D differential expression analysis.

Facilities and Infrastructure

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

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 Doc™ 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.

TECHNICAL MANAGER

Inés García-Consuegra Galiana

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, thus providing a considerable improvement in performance and better use of the equipment.
- 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).

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

I. 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).

MANAGERS

Gema Ruiz Hurtado

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

Consultancy service for the design of sequencing experiments for devices in Instituto i+12.

Processing, analysis, and interpretation of results, mainly from the NGS platforms of Instituto i+12.

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 H12O 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).

COORDINATOR

Francisco Javier Fernández Martínez

TECHNICAL MANAGER

Aitor Delmiro Magdalena

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 Ethics Committee for Animal Welfare.
- 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

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 costing 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.

TECHNICAL MANAGER

Agustín Gómez de la Cámara

BIOBANK i+12

The i+12 Biobank regulates the management of samples on data generated during clinical practice at Hospital Universitario I2 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 aliquotting 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.

SCIENTIFIC DIRECTOR

José Luis Rodríguez Peralto

TECHNICAL COORDINATOR

Alicia Maroto Pérez

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 Instituto 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.

MANAGER

María López Berlanga

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.

MANAGER

José Manuel Estrada Lorenzo

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 2018, 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.

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 2018 managed by Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12O) 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	67
Chronic Diseases and Transplantation	23
Rare and Genetically Based Diseases	23
Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	14
Cardiovascular	26
Inflammatory Diseases and Immune Disorders	13
Infectious Diseases and AIDS	29
Neurosciences and Mental Health	18
Transversal	4
Associated Clinical Researchers/Groups	16
Total	233

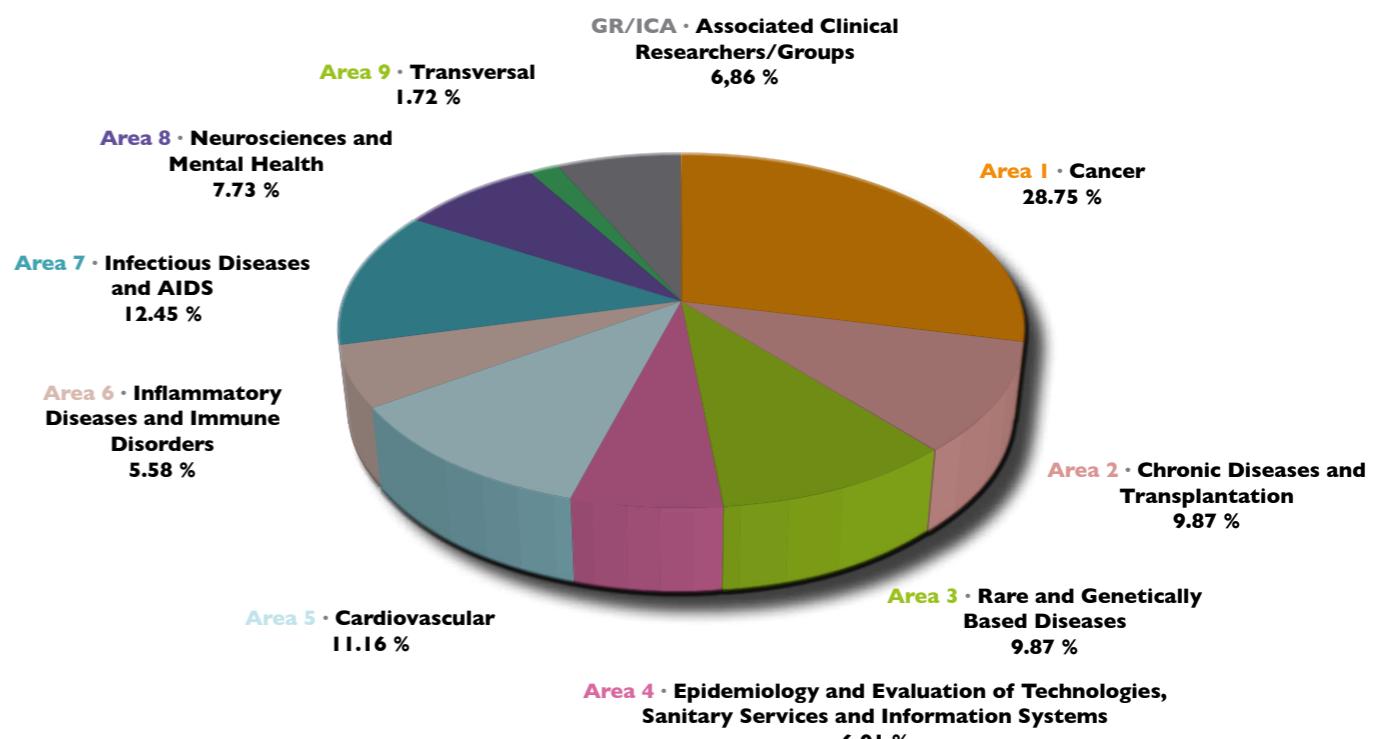
The table below shows the distribution of active projects with respect to the funding body.

FUNDING BODY	ACTIVE PROJECTS
Instituto de Salud Carlos III (ISCIII)	101
Fundación Mutua Madrileña (FMM)	12
Fundación Científica Asociación Española Contra el Cáncer	6
Commission of The European Communities	3
Ministerio de Economía y Competitividad (MINECO)	3
University of Miami	2
Fundación SENEFRO	2
Fundación Española Oncología Médica	2
Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)	1
Fundación MAPFRE Medicina (FMAPFRE)	1
Atresmedia Corporación	1
Fundación Eugenio Rodríguez Pascual	1
Fundación Casa del Corazón	1
Fundación Madrileña de Nefrología	1
Fundación Ramón Areces	1
Fundación Renal Íñigo Álvarez de Toledo	1
Fundación Alicia Koplowitz	1
Fundación Anemia de Falconi	1
Fundación Merck Salud	1
Fundación para la Investigación Médica Aplicada	1
Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica	1
Sociedad Española de Gastroenterología Hepática y Nutrición Pediátrica	1
Other (Noncompetitive)	88
Total	233

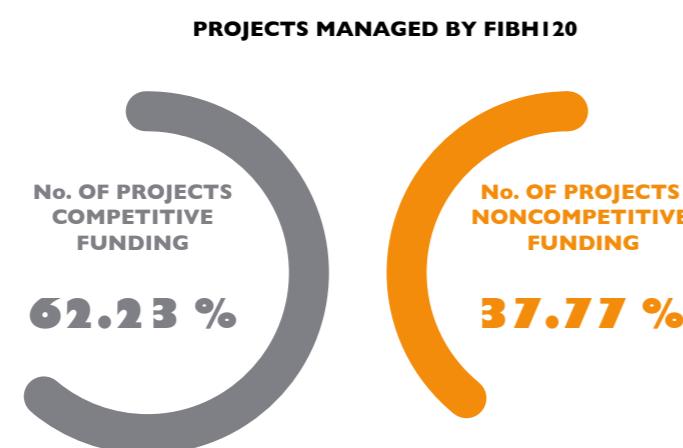
Next table show the Active Research Projects in 2018 according to the type of funding for the 9 Research Areas and Associated Clinical Researcher/Groups.

i+12 RESEARCH AREA	No. OF PROJECTS COMPETITIVE FUNDING	No. OF PROJECTS NONCOMPETITIVE FUNDING	TOTAL PROJECTS
AREA 1 Cancer	35	32	67
AREA 2 Chronic Diseases and Transplantation	14	9	23
AREA 3 Rare and Genetically Based Diseases	21	2	23
AREA 4 Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	9	5	14
AREA 5 Cardiovascular	16	10	26
AREA 6 Inflammatory Diseases and Immune Disorders	9	4	13
AREA 7 Infectious Diseases and AIDS	22	7	29
AREA 8 Neurosciences and Mental Health	10	8	18
AREA 9 Transversal	4	0	4
GR/ICA Associated Clinical Researchers/Groups	5	11	16
TOTAL	145	88	233

The following graph shows the distribution of projects active projects managed by FIBH12O in 2018 by research area:



The following graph shows the distribution of projects active in 2018 according to the type of funding.



As the figure shows, in terms of distribution by area, the Research Area with the largest number of projects in 2018 was the Cancer Research Area, followed by the Infectious Diseases and AIDS Research Area and Cardiovascular Research Area.

Below, we set out **the public and private competitive research projects** funded by various bodies, **and granted during 2018**:

Health Research Projects-ISCIII:

- Analysis of the efficacy of CDK4/6 inhibitors combined with hormone treatment in luminal breast cancer according to the intrinsic subtype and markers of immunity. AI - Breast and Gynecologic Cancer. PI - Eva M^a Ciruelos Gil.
- Use of the new c-Myc-regulating oncogene hnRNP K as a therapeutic target in leukemia and lymphoma. AI - Translational Haematology. PI - Miguel Gallardo Delgado.
- Molecular characterization for selection of personalized therapy in the treatment of gastric cancer. AI - Digestive Tract Cancer. PI - Carlos Gómez Martín.
- Characterization and follow-up of the immune system in elderly patients with multiple myeloma treated in trial GEM-2017FIT: attempting to personalize treatment in order to maximize response. AI - Translational Haematology. Juan José Lahuerta Palacios.
- Expansion and optimization of adoptive immunotherapy with chimeric antigen receptors in hematologic neoplasm (OPTIMI-CAR). AI - Translational Haematology. Joaquín Martínez López.
- New therapeutic strategies for squamous cell cancer of the head and neck. AI - Genitourinary and Cellular and Molecular Oncology. PI - Corina Lorz López.
- McARDLE disease: 2D/3D therapeutic approaches based on the use of iPSCs. A3 - Pathophysiology of Mitochondrial Biogenesis. PI - M^a Esther Gallardo Pérez.
- Clinical-genomic correlation and study of pathogenic mechanisms and pharmacological screening in patients with mitochondrial oxidative phosphorylation disorder. A3 - Rare, Mitochondrial, and Neuromuscular Diseases. PI - Miguel Ángel Martín Casanueva.
- Normalized architecture of clinical data for the generation of infobanks and their secondary use in research: application in cancer of the breast, cervix, and uterus and evaluation. A4 - Clinical Epidemiology, Healthcare Technologies, and Information and Communication Techniques. PI - Pablo Serrano Balazote.
- Clinical and economic impact of supplementation with donated milk pasteurized using the HTST method compared with the Holder method in very-low-birth-weight preterm infants. Randomized clinical trial. A4 - Maternal and Child Health. PI - Carmen Rosa Pallás Alonso.
- Biodegradable endoprostheses in the airway: histologic and structural effects on the healthy tracheal wall and in an animal model of tracheal stenosis. A6 - Inflammatory and Autoimmune Diseases. PI - Juan Luis Antón-Pacheco Sánchez.
- Predictors of morbidity and mortality in an inception cohort of patients with scleroderma. A6 - Inflammatory and Autoimmune Diseases. PI - Patricia Esmeralda Carreira Delgado.
- Modulation of the humoral immune response to kidney transplant by follicular helper T cells (Tfh). A6 - Immunodeficiencies and Immunology of Transplants. PI - Estela Paz Artal.
- Infobank for secondary use of healthcare data based on standards for technology and knowledge: evaluation of quality, validity, and utility of the ECH as the origin of data for the study of HIV infection. H12O. Analysis of Care Information and Management Control. PI - José Luis Bernal Sobrino.
- Genetic-molecular basis of precision medicine in pulmonary arterial hypertension. A5 - Heart Failure and Pulmonary Hypertension. PI - M^a del Pilar Escribano Subías.
- Biological relevance of the interaction between the Ebola virus and the DC-SIGN receptor. A7 - Virology – HIV/AIDS. PI - Rafael Delgado Vázquez.
- Congenital cytomegalovirus: diagnostic and prognostic aspects. A7 - Virology-HIV/AIDS. PI - M^a Dolores Folgueira López.
- Double-blind, placebo-controlled randomized clinical trial: secondary prophylaxis with oral vancomycin in patients with recent C. difficile infection and high risk of relapse. A7 - Infectious Diseases. PI - Julia Origüen Sabater.
- Effect on prognosis of prosthetic joint infection of the genotypic and phenotypic characteristics of the causal microorganisms: beyond the species and the antibiotic profile. A7 - Molecular Epidemiology of Nosocomial and Emerging Infections. PI - Jaime Lora-Tamayo Morillo-Velarde.
- Validation of the salivary protein lactoferrin as a biomarker of Alzheimer disease: diagnostic alternative and pathogenic mechanism. A8 - Neurodegenerative Diseases. PI - Eva M^a Carro Díaz.
- Impact of manic episodes on progression of cognitive impairment in bipolar disorder and its association with inflammatory activity and oxidative stress: 2-year longitudinal study. A8 - Cognition and Psychosis. PI - Eva M^a Sánchez Morla.
- Role of the inflammatory response in brain damage: head injury and subarachnoid hemorrhage. A8 - Neurotrauma and Subarachnoid Hemorrhage. PI - Alfonso Lagares Gómez-Abascal.

- Evaluation of the use of fetal exome as a tool to identify the genetic basis of major ultrasound abnormalities. AT - Genetics and Heredity. PI - Francisco Javier Fernández Martínez.
- Cellular and molecular analysis of tissue structures in patients with pelvic floor disorder. Role of placenta-derived mesenchymal stem cells in in vivo and in vitro regeneration. AT - Regenerative Medicine. PI - Ana Isabel Flores de la Cal.

Projects for the development of health technology-ISCIII:

- Normalized architecture of clinical data for the generation of infobanks and their secondary use in research: application in cancer of the breast, cervix, and uterus and evaluation. A4 - Clinical Epidemiology, Healthcare Technologies, and Information and Communication Techniques. PI - Pablo Serrano Balazote.

Grants for Challenges: Collaboration of the State Program for Research, Development, and Innovation aimed at Challenges in Society – State Department for Research, Development, and Innovation/State Research Agency:

- ATTACK – Immunotherapy for cancer based on bispecific antibodies that recruit T lymphocytes T. AI - Immuno-oncology and Immunotherapy. PI - Luis Álvarez Vallina.

R&D&i projects corresponding to the State Program for Promotion of Scientific and Technical Research of Excellence – State Department for Research, Development, and Innovation/State Research Agency:

- Immunotherapy of solid tumors with T cells secreting bispecific anti-CEA and anti-CD3 antibodies and soluble PD-1 receptors. AI - Immuno-oncology and Immunotherapy. PI - Luis Álvarez Vallina.

Translational research projects in cardiology – Sociedad Española de Cardiología [Spanish Society of Cardiology]:

- Study of subclinical atherosclerosis and endothelial dysfunction in women with a history of early pre-eclampsia. A5 - Cardiovascular Imaging. PI - Jorge Solís Martín.

Grants for research projects 2018 - Fundación Alicia Koplowitz [Alicia Koplowitz Foundation]:

- Cognitive stimulation in very preterm newborns. A4 - Maternal and Infant Health. PI - Carmen Rosa Pallás Alonso.

Grants for research projects 2018 - Fundación Anemia de Falconi [Falconi Anemia Foundation]:

- New disease models and diagnostic tools for squamous cell carcinoma of the head and neck in patients with Falconi anemia. AI - Genitourinary and Cellular and Molecular Oncology. PI - Ramón García Escudero.

Grants for research projects 2018 - Fundación Mutua Madrileña [Mutua Madrileña Foundation]:

- Application of massive sequencing techniques in the diagnosis of rare muscular diseases of infant onset. A3 - Rare, Mitochondrial, and Neuromuscular Diseases. PI - Cristina Domínguez González.

Grants for research projects 2018 - Fundación Eugenio Rodríguez Pascual [Eugenio Rodríguez Pascual Foundation]:

- Characterization of the immunological profile of lung cancer and validation of biomarkers that predict benefits in immunotherapy. AI - Thoracic Oncology and Translational Clinical Practice. PI - Luis Gonzaga Paz-Ares Rodríguez.

Grants for research projects 2018 – Sociedad Española de Gastroenterología Hepática y Nutrición Pediátrica [Spanish Society of Hepatic Gastroenterology and Pediatric Nutrition]:

- Search for noninvasive markers for the follow-up of eosinophilic esophagitis: role of serum periostin in the pediatric population. A3 - Asthma and Immunoallergic Diseases. PI - Carmen Troyano Rivas.

Grants for research projects 2018 - Fundación Española de Oncología Médica [Spanish Foundation of Medical Oncology]:

- Genomic and immunologic characterization of hereditary renal tumors. A3 - Genitourinary and Cellular and Molecular Oncology. PI - Guillermo Antonio de Velasco Oria de Rueda.
- Immunotherapy for glioma: importance of epigenetic abnormalities, characterization of potential therapeutic targets and biomarkers. AI - Neuro-oncology. PI - Juan Manuel Sepúlveda Sánchez.

Grants for research projects 2018 - Fundación Merck Salud [Merck Health Foundation]:

- Identification of noninvasive markers and new therapeutic targets in patients with eosinophilic esophagitis. A6 - Asthma and Immunoallergic Diseases. PI - M^a del Carmen Diéguez Pastor.

Grants for research projects 2018 - Fundación Científica de la Asociación Española Contra el Cáncer [Scientific Foundation of the Spanish Association Against Cancer]:

- A translational platform for the orphan disease malignant pleural mesothelioma. A1 - Thoracic Oncology and Translational Clinical Practice. PI - Luis Gonzaga Paz-Ares Rodríguez.

Grants for research projects 2018 - Fundación para la Investigación Médica Aplicada [Foundation for Applied Medical Research]:

- Early detection and intervention: understanding the mechanisms of transformation and hidden resistance of incurable hematological malignancies. A1 - Translational Haematology. PI - Joaquín Martínez López.

Grants for research projects 2018 - Fundación SECOT [SECOT Foundation]:

- Use of the computer application "SCAE" in the early diagnosis of musculoskeletal cancer. Associated Clinical Investigator/Group. PI - Marta Arroyo Hernández.

Grants for research projects - Instituto i+12:

- Interaction between genome, diet, and oxidative status in cardiovascular risk profiles in the Spanish general population. A4 - Clinical Epidemiology, Health Technologies, and Information and Communication Techniques. PI - Agustín Gómez de la Cámara.
- Creation of an inception cohort of patients with scleroderma. A6 - Inflammatory and Autoimmune Diseases. PI - Patricia Esmeralda Carreira Delgado.
- Usefulness of determining biomarkers (lactoferrin and calprotectin in stool) to predict the risk of poor outcome (severe or complicated severe infection) and recurrence in patients with a first episode of Clostridium difficile infection. A7 - Infectious Diseases. Julia Origüen Sabater.
- NEDICES-2 Cohort: Completion of the baseline cohort and initiation of the incidence wave. A8 - Neurodegenerative diseases. PI - Jesús Hernández Gallego.

CLINICAL TRIALS

During 2018, the number of clinical studies (clinical trials and observational studies) were contracted in our institution. Of these 239 studies, 207 correspond to research groups from Instituto i+12 (Stable Consolidated, Consolidated, or Emerging), whereas the remaining 32 are Associated Clinical Researchers/Groups.

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

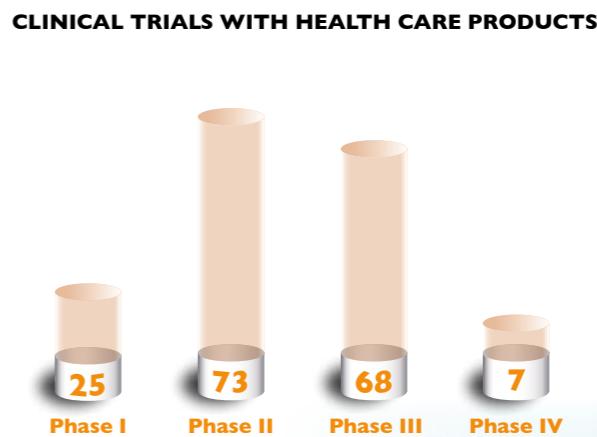
RESEARCH AREA	NUMBER
AREA 1. CANCER	
Translational Haematology	34
Neuro-Oncology	5
Cutaneous Oncology	3
Thoracic and Clinical-Translational Oncology	38
Genitourinary and Cellular and Molecular Oncology	25
Breast and Gynecologic Cancer	14
Digestive Cancer	12
AREA 2. CHRONIC DISEASES AND TRANSPLANTATION	
Respiratory Diseases	3
Bone Metabolism, Diabetes, and Nutrition	1
Clinical Nephrology	7
Male's Integral Health	1
Kidney Transplant	4
Abdominal Organ Transplant	1
AREA 3. RARE AND GENETICALLY BASED DISEASES	
Rare, Mitochondrial and Neuromuscular Diseases	3

RESEARCH AREA	NUMBER
AREA 4. EPIDEMIOLOGY AND EVALUATION OF TECHNOLOGIES, SANITARY SERVICES AND INFORMATION SYSTEMS	
Clinical Epidemiology, Health Technologies and Information and Communication Techniques	1
Maternal and Child Health	1
AREA 5. CARDIOVASCULAR	
Translational Multidisciplinary Cardiovascular Research	6
Research on Heart Failure – Pulmonary Hypertension	8
AREA 6. INFLAMMATORY DISEASES AND IMMUNE DISORDERS	
Asthma and Immunoallergic Diseases	5
Inflammatory and Autoimmune Disease	6
Immunodeficiencies and Immunology of Transplants	5
AREA 7. INFECTIOUS PATHOLOGIES AND AIDS	
Virology-HIV/AIDS	4
Infectious Pathologies	3
Translational Research Group on Pediatric Infectious Diseases	8
AREA 8. NEUROSCIENCES AND MENTAL HEALTH	
Neurodegenerative Diseases	5
Translational Psychiatry	1
Neurotraumatology and Subarachnoid Hemorrhage	2
Addictions and Comorbidity	1
Total	207
Other Researchers	32
Total	239

Clinical studies and trials contracted in 2018 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 25
	PHASE II 73
	PHASE III 68
	PHASE IV 7
CLINICAL TRIALS WITH HEALTH CARE PRODUCTS	7
EXTENSION/OTHER	3
TOTAL	183
OBSERVATIONAL STUDIES	56
TOTAL	239

The following graph shows the distribution of clinical trials with medications contracted during 2018.



PARTICIPATION IN COLLABORATIVE RESEARCH NETWORKS

Collaborative Research Networks (RETICs)

In 2018, a total of 13 research groups from Instituto i+12 participated in Collaborative Research Networks (RETICs).

	NETWORK	PARTICIPATING GROUPS
ARADYAL	Red de Asma, Reacciones Adversas y Alergia	• Asthma and Immunoallergic Diseases - M ^a del Carmen Diéguez Pastor - Principal Investigator: RD16/0006/0010.
INVICTUS PLUS	Red de Enfermedades Vasculares Cerebrales	• Neurovascular Research - Jaime Díaz Guzmán - Principal Investigator: RD16/0019/0022. • Tissue Engineering - Antonio Martínez Salio, Team Member.
RIER	Red de Investigación en Inflamación y Enfermedades Reumáticas	• Inflammatory and Autoimmune Diseases - José Luis Pablos Álvarez - Principal Investigator and Coordinator: RD16/0012/0001.
REDINREN	Red de Investigación Renal	• Clinical Nephrology - Manuel Praga Terente - Principal Investigator: RD16/0009/0012.
SAMID	Red de Investigación en Salud Materno Infantil y del Desarrollo	• Maternal and Child Health - Carmen Rosa Pallás Alonso - Principal Investigator: RD16/0022/0011. • Perinatal Medicine - Alberto Galindo Izquierdo, Team Member.
RTA	Red de Trastornos Adictivos	• Addictions and Comorbidity - Gabriel Rubio Valladolid - Principal Investigator: RD16/0017/0017. • Cognition and Psychosis - Francisco Arias Horcajadas, Team Member.
REIPI	Red Española de Investigación en Patologías Infecciosas	• Infectious Pathologies - José M ^a Aguado García - Principal Investigator: RD16/0016/0002. • Molecular Epidemiology of Hospital and Emerging Infections - Fernando Chaves Sánchez, Team Member.
RIS	Red Española de Investigación en SIDA	• Virology and HIV/AIDS - Rafael Rubio García - Principal Investigator: RD16/0025/0024. • Translational Research in Pediatric Infectious Diseases - Pablo Rojo Conejo, Team Member.

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 2018.

	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. • Asthma and Immunoallergic Diseases - Consuelo Fernández Rodríguez, 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.
CLINICAL TRIALS	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)

Eleven groups from the Instituto de Investigación Hospital 12 de Octubre (i+12) participated in CIBER during 2018.

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 - Félix Bermejo Pareja: Lead Researcher of project CB06/05/0022.
CIBERES	CIBER de Enfermedades Respiratorias	<ul style="list-style-type: none"> Respiratory Diseases - Francisco Pozo Rodríguez: 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 0016 and coordinator of the Mitochondrial Diseases Area. Translational Energetic Metabolism - José Manuel Cuevav 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: <ul style="list-style-type: none"> Tomás Palomo Álvarez - Lead Researcher of project CB07/09/0007. Juan Carlos Leza Cerro - Lead Researcher of project CB07/09/0026. Addiction and Comorbidity - Gabriel Rubio Valladolid: participates in projec CB07/09/0007.
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.
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.

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:

MULTIMAT-CHALLENGE - S2013/MIT-2862 - Materiales Multifuncionales para los Retos de la Sociedad.

- Ana Isabel Flores de la Cal - Regenerative Medicine Group.

SINOXPHOS-CM - P2018/BAA4403 - Soluciones interdisciplinares con control de edición génica al déficit bioenergético OXPHOS.

- Cristina Ugalde Bilbao - Rare, Mitochondrial, and Neuromuscular 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.

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 2017)

CLINICAL PRACTICE GUIDELINES
TECHNOLOGY TRANSFER ACTIVITIES AND IPR PORTFOLIO

PUBLICATIONS INDEXED IN THE JOURNAL CITATION REPORTS (JCR 2017)

The Annual Scientific Report 2018 was drafted after analyzing journals indexed in the ISI Web of Knowledge for both science and social science. The JCR 2017 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 2018 was 832 (original articles, reviews, and editorials), with an overall impact factor (IF) of 4,884.134 points, that is, increase the scientific production generated by Instituto i+12 in 2018. This indicates a consolidation of the growing trend in scientific production observed in recent years.

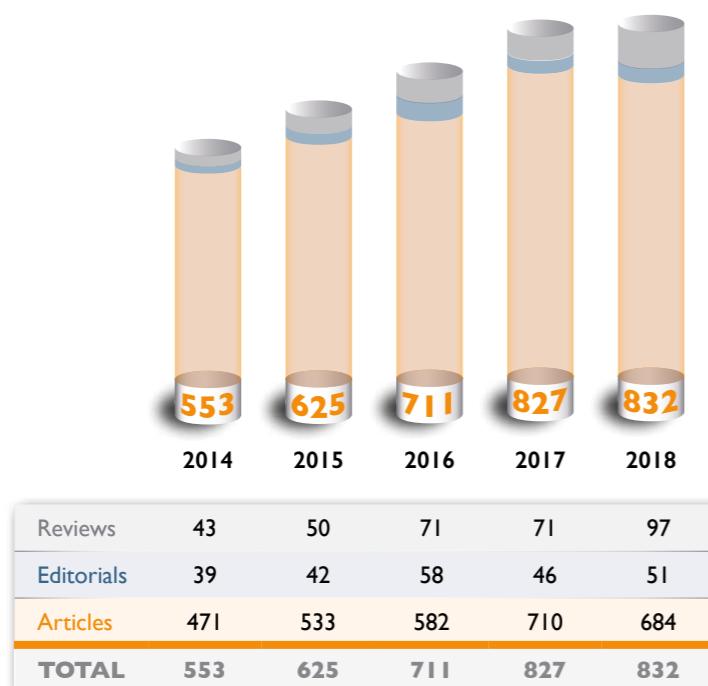
The following table shows the scientific output generated in 2018 by professionals from Instituto i+12 distributed by decile and quartile with the cumulative impact factor (CIF).

2018	TOTAL PUBLICATIONS	PUBLICATIONS IN INDEXED JOURNALS (JCR 2017)	Σ IF (JCR 2017)	DI	Σ IF DI (JCR 2017)	QI	Σ IF QI (JCR 2017)
Articles	760	684	4,125.645	185	2,587.775	384	3,460.849
Reviews	101	97	460.018	29	256.600	45	332.036
Editorials	65	51	298.471	11	198.771	21	244.990
Total	926	832	4,884.134	225	3,043.146	450	4,037.875
Letters	84	71	749.967	26	633.386	35	677.255
Total	1,010	903	5,634.101	251	3,676.532	485	4,715.130

2018	Q2	Σ IF Q2 (JCR 2017)	Q3	Σ IF Q3 (JCR 2017)	Q4	Σ IF Q4 (JCR 2017)
Articles	142	425.768	80	148.452	78	90.576
Reviews	28	92.982	10	17.798	14	17.202
Editorials	5	13.638	17	29.166	8	10.677
Total	175	532.388	107	195.416	100	118.455
Letters	15	41.357	11	19.768	10	11.587
Total	190	573.745	118	215.184	110	130.042

The graph below shows a comparison of the overall scientific output of Instituto i+12 for 2014-2018:

ANNUAL DISTRIBUTION OF THE NO. OF PUBLICATIONS (2014-2018)



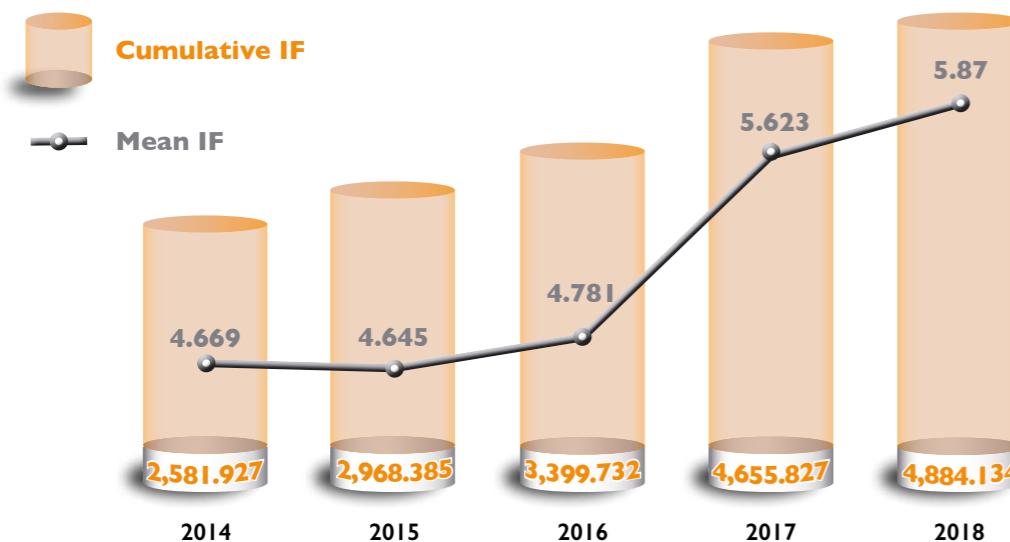
Similarly, the scientific output of the consolidated and emerging groups of Instituto i+12 has increased over the last 5 years, in terms of both original articles and reviews and editorial material, reaching 759 publications in 2018, with a cumulative impact factor (CIF) of 4,684.625 points and a mean impact factor (MIF) of 6,172.

The impact factor was calculated based on the 2017 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, 51,29% were from first-decile journals (D1).

2018	PUBLICATIONS						
	TOTAL PUBLICATIONS	IN INDEXED JOURNALS (JCR 2017)	Σ IF (JCR 2017)	D1	Σ IF D1 (JCR 2017)	Q1	Σ IF Q1 (JCR 2017)
Articles	671	623	3,958.996	180	2,553.029	364	3,363.029
Reviews	96	92	446.848	28	249.846	44	325.282
Editorials	51	44	278.781	11	198.771	19	233.511
Total	818	759	4,684.625	219	3,001.646	427	3,921.822
Letters	70	59	710.278	24	618.381	32	657.529
Total	888	818	5,394.903	243	3,620.027	459	4,579.351

ANNUAL DISTRIBUTION OF CIF AND MIF (2014-2018)

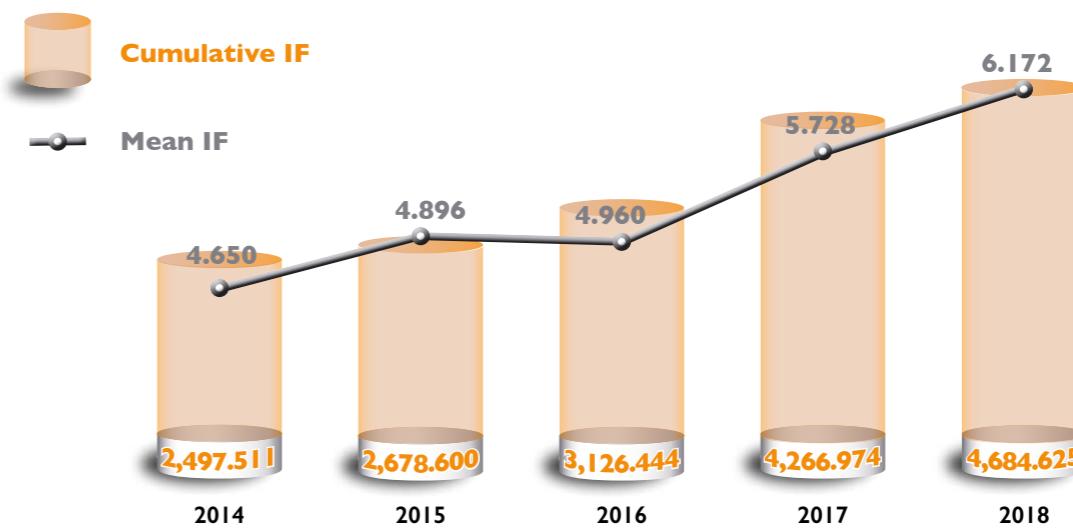


2018	Q2	Σ IF Q2 (JCR 2017)		Q3	Σ IF Q3 (JCR 2017)		Q4	Σ IF Q4 (JCR 2017)
		Q2	Q3		Q4	Q4		
Articles	131	396.041	70	132.981	58	66.945		
Reviews	28	92.982	9	15.86	11	12.724		
Editorials	4	11.439	15	26.664	6	7.167		
Total	163	500.462	94	175.505	75	86.836		
Letters	11	29.262	10	17.320	6	6.167		
Total	174	529.724	104	192.825	81	93.003		

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

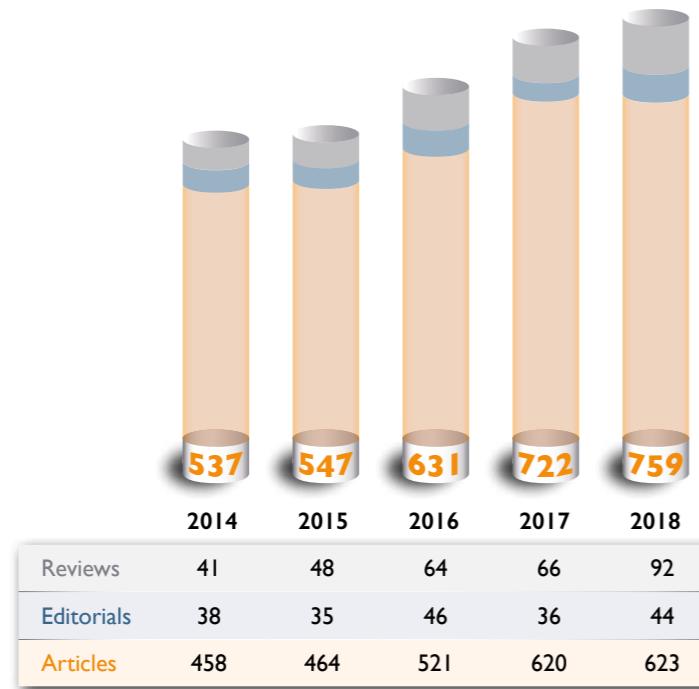
PUBLICATIONS	Nº 2014	Σ IF (JCR 2013)	Nº 2015	Σ IF (JCR 2014)	Nº 2016	Σ IF (JCR 2015)	Nº 2017	Σ IF (JCR 2016)	Nº 2018	Σ IF (JCR 2017)
Articles	458	2.193.108	464	2.321.536	521	2.565.137	620	3.690.800	623	3.958.996
Reviews	41	178.334	48	194.622	64	267.796	66	339.410	92	446.848
Editorials	38	126.069	35	162.442	46	293.511	36	236.764	44	278.781
Total	537	2.497.511	547	2.678.600	631	3.126.444	722	4.266.974	759	4.684.625
Mean IF	2014	2015	2016	2017	2018					
	4.65	4.90	4.96	5.73	6.17					

ANNUAL DISTRIBUTION OF CIF AND MIF (2014-2018)



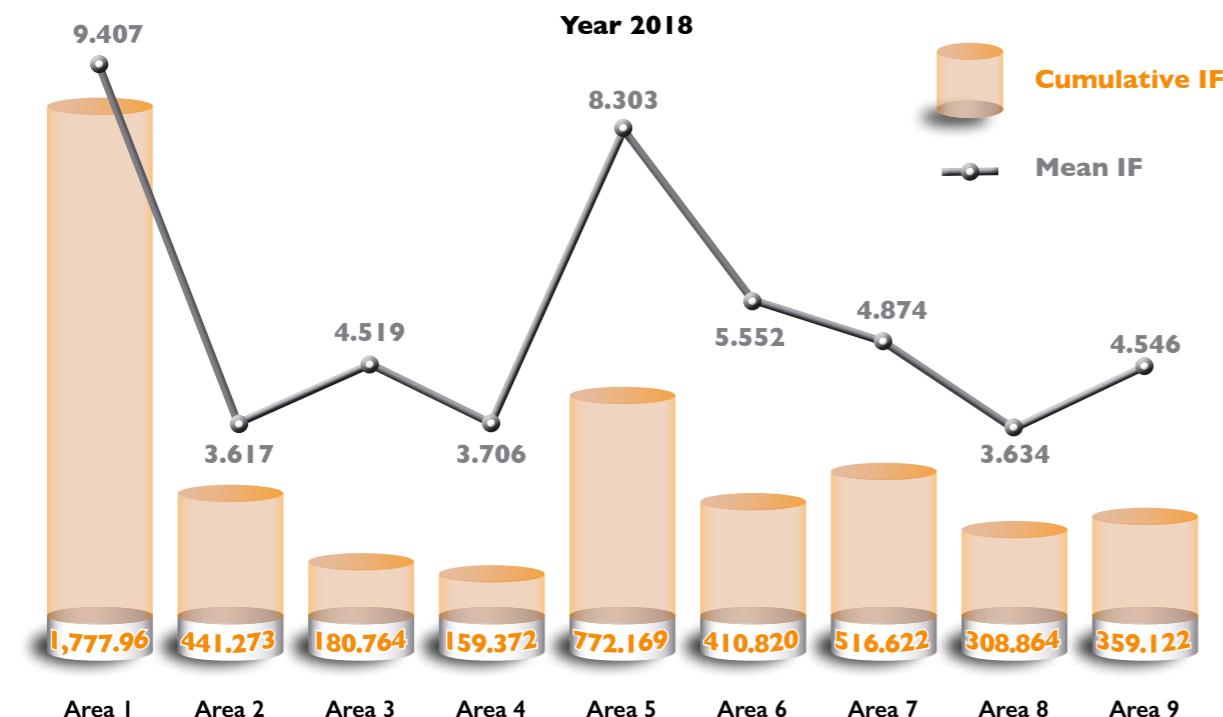
The following table summarizes the distribution of the total number of publications (articles, reviews, and editorial material) and the impact factor for the 9 research areas* of Instituto i+12.

ANNUAL DISTRIBUTION OF THE NO. OF PUBLICATIONS (2014-2018)

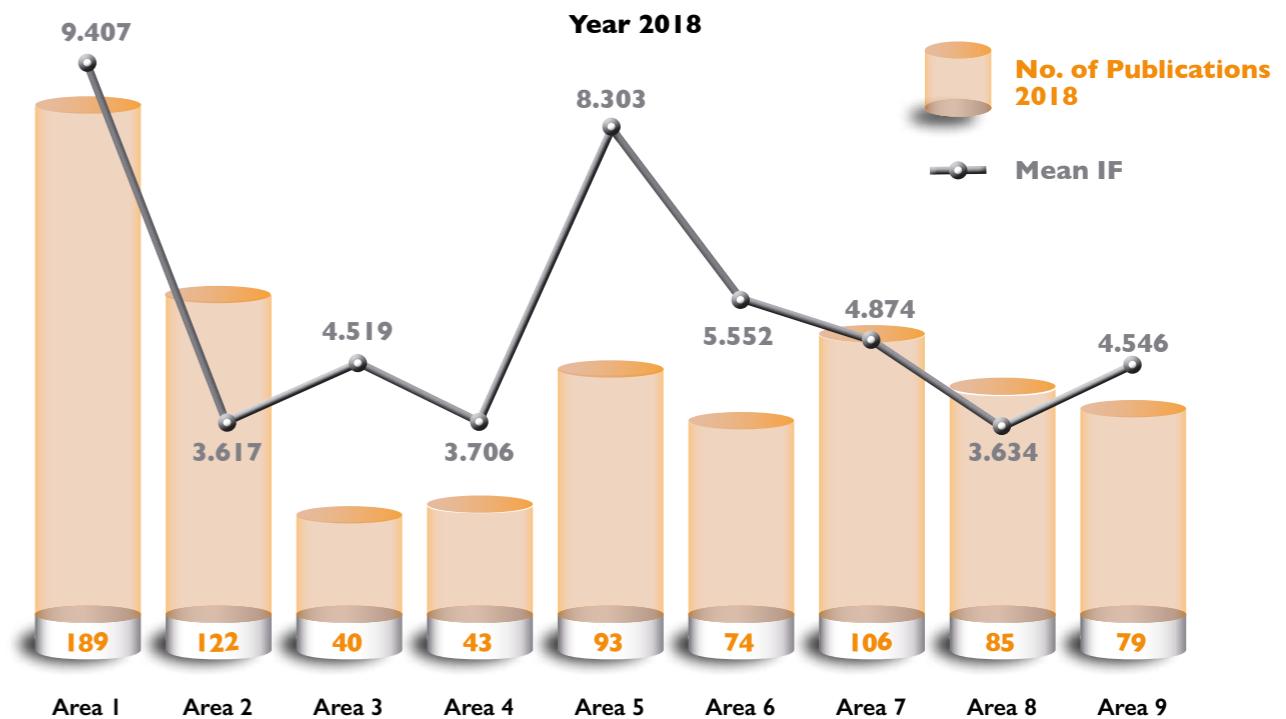


RESEARCH AREA	No. OF PUBLICATIONS 2018	Σ IF (JCR 2017)	MEAN IF(JCR 2017)
Area 1. Cancer	189	1.777.963	9.407
Area 2. Chronic Diseases and Transplantation	122	441.273	3.617
Area 3. Rare and Genetically Based Diseases	40	180.764	4.519
Area 4. Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems	43	159.372	3.706
Area 5. Cardiovascular	93	772.169	8.303
Area 6. Inflammatory Diseases and Immune Disorders	74	410.820	5.552
Area 7. Infectious Diseases and AIDS	106	516.622	4.874
Area 8. Neurosciences and Mental Health	85	308.864	3.634
Area 9. Transversal	79	359.122	4.546

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



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	46	522.523
Translational Multidisciplinary Cardiovascular Research	41	348.021
Translational Haematology	38	309.998
Genitourinary and Cellular and Molecular Oncology	21	275.768
Breast and Gynecologic Cancer	21	271.858
Translational Research in Hypertension and Cardiorenal Disease	22	253.75
Infectious Pathologies	44	188.37
Research on Intelligent Biomaterials	37	173.505

¹ Las publicaciones en las que participan varios grupos de investigación se han considerado en cada uno de ellos.

RESEARCH GROUP	PUBLICATIONS	CIF
Molecular Epidemiology of Hospital and Emerging Infections	27	168.104
Digestive Cancer	24	162.639
Lymphocyte Immunobiology	20	155.377
Heart Failure – Pulmonary Hypertension	23	154.362
Research on Physical Activity and Health	30	140.236
Inflammatory and Autoimmune Diseases	29	133.454
Cutaneous Oncology	19	115.425
Virology-HIV/AIDS	27	106.203
Neuro-Oncology	23	103.043
Translational Research on Pediatric Infectious Diseases	22	101.752
Clinical Epidemiology, Health Technologies and Information and Communication Techniques	18	98.934
Rare, Mitochondrial, and Neuromuscular Diseases	22	85.974
Immunodeficiencies and Immunology of Transplants	13	81.517
Respiratory Diseases	21	80.062
Cognition and Psychosis	21	76.105
Neurodegenerative Diseases	22	71.05
Male's Integral Health	21	67.244
Translational Psychiatry	16	62.275
Clinical Nephrology	17	61.231
Maternal and Child Health	21	55.515
Tissue Engineering	13	53.9
Kidney Transplant	11	44.996
Critical Patient	14	44.557
Addictions and Comorbidity	14	42.826
Neurovascular Research	7	36.412
Abdominal Organ Transplant	16	36.079
Pulmonary Surfactant and Respiratory Diseases	7	33.902
Homeostasis and the Tissue Physiopathology of the Stem Cells	6	33.732

RESEARCH GROUP	PUBLICATIONS	CIF
Ageing, Neuroimmunology, and Nutrition	7	33.418
Asthma and Immunoallergic Diseases	8	30.792
Research on ALS	5	27.756
Regulation of Cellular Homeostasis	3	24.742
Neurotraumatology and Subarachnoid Haemorrhage	7	21.932
Medical Chemistry Laboratory	5	21.807
Translational Energetic Metabolism	4	20.367
Pathophysiology of Mitochondrial Biogenesis	4	17.84
Perinatal Medicine	7	17.378
Bone Metabolism, Diabetes, and Nutrition	5	16.387
Translational Biophysics	3	15.949
Porphyrias, Haemochromatosis, and Anemia	4	15.512
Molecular and Cellular Bases in Rheumatic Diseases	4	15.231
Lymphoid Differentiation	3	13.993
Research in Cardiovascular Imaging	2	13.756
Adaptation of the Practical Care and Patient Safety	7	13.513
Immunoncology and Immunotherapy	1	12.353
Translational Research in Malaria	3	10.542
Mitochondrial Membranes Laboratory	3	10.359
Translational Research in Leishmaniasis	3	9.727
Regenerative Medicine	2	6.659
Genetics and Inheritance	3	6.241
Research on Care	4	6.177
Research in Complex Patients and Health System	2	2.95
Research on Cardiovascular Risk	2	2.296
Research in Health Services and Results	0	0

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 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
ACS APPL MATER INTER	8.097	2	16.194	DI	Q1
ACS CHEM NEUROSCI	4.211	1	4.211		Q1
ACTA BIOMATER	6.383	6	38.298	DI	Q1
ACTA NEUROCHIR	1.929	1	1.929		Q2
ACTA PAEDIATR	2.58	4	10.32		Q1
ACTAS UROL ESP	1.26	6	7.56		Q4
ACUPUNCT MED	2.275	1	2.275		Q2
ADDICT BIOL	5.578	1	5.578		Q1
ADICCIONES	2.021	1	2.021		Q3
ADV SKIN WOUND CARE	1.377	1	1.377		Q2
AGE AGEING	4.013	1	4.013		Q1
AGEING RES REV	8.973	1	8.973	DI	Q1
AGING DIS	5.058	1	5.058		Q1
AIDS PATIENT CARE ST	4.041	1	4.041	DI	Q1
ALCOHOL ALCOHOLISM	2.368	2	4.736		Q2
ALCOHOL CLIN EXP RES	3.183	1	3.183		Q2
ALLERGOL IMMUNOPATH	1.644	2	3.288		Q4
ALLERGY	6.048	1	6.048		Q1
ALZHEIMERS RES THER	5.015	1	5.015		Q1
AM J ALZHEIMERS DIS	1.602	1	1.602		Q3
AM J DERMATOPATH	1.21	2	2.42		Q4
AM J HEALTH PROMOT	2.197	1	2.197		Q2
AM J HUM GENET	8.855	1	8.855	DI	Q1
AM J MED GENET A	2.264	1	2.264		Q3
AM J TRANSPLANT	6.493	1	6.493	DI	Q1
AN PEDIATR	1.318	12	15.816		Q3
ANAL CHIM ACTA	5.123	1	5.123	DI	Q1
ANDROLOGY-US	2.734	2	5.468		Q2
ANN HEMATOL	2.845	3	8.535		Q2
ANN NEUROL	10.244	1	10.244	DI	Q1
ANN ONCOL	13.926	7	97.482	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
ANN RHEUM DIS	12.35	2	24.7	DI	Q1
ANN THORAC SURG	3.779	1	3.779		Q1
ARCH BRONCONEUMOL	2.633	4	10.532		Q2
ARCH ESP UROL	0.465	6	2.79		Q4
ARTHIT CARE RES	4.149	2	8.298		Q2
ARTHRITIS RES THER	4.269	3	12.807		Q2
ARTHRITIS RHEUMATOL	7.871	1	7.871	DI	Q1
ASN NEURO	3.617	1	3.617		Q2
ATEN PRIM	1.148	4	4.592		Q3
ATHEROSCLEROSIS	4.467	1	4.467		Q1
AUTOIMMUN REV	8.745	1	8.745	DI	Q1
BBA-GEN SUBJECTS	3.679	1	3.679		Q1
BIOCHEM PHARMACOL	4.235	5	21.175		Q1
BIOCONJUGATE CHEM	4.485	3	13.455		Q1
BIOL BLOOD MARROW TR	4.484	1	4.484		Q1
BIOL OPEN	2.217	1	2.217		Q2
BIOMED RES INT	2.583	1	2.583		Q2
BIOORGAN MED CHEM	2.881	1	2.881		Q2
BJU INT	4.688	1	4.688		Q1
BLOOD	15.132	1	15.132	DI	Q1
BLOOD CANCER J	8.125	2	16.25	DI	Q1
BLOOD CELL MOL DIS	1.836	1	1.836		Q4
BLOOD PRESSURE	2.107	1	2.107		Q3
BMC CANCER	3.288	2	6.576		Q2
BMC INFECT DIS	2.62	2	5.24		Q2
BMC PULM MED	2.721	1	2.721		Q2
BMJ OPEN	2.413	2	4.826		Q2
BRAIN BEHAV IMMUN	6.306	1	6.306	DI	Q1
BRAIN DEV-JPN	1.544	1	1.544		Q4
BREAST CARE	2.028	2	4.056		Q2
BREASTFEED MED	1.951	1	1.951		Q2
BRIT J CANCER	5.922	3	17.766		Q1
BRIT J DERMATOL	6.129	3	18.387	DI	Q1
BRIT J HAEMATOL	5.128	2	10.256		Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
BRIT J PHARMACOL	6.81	1	6.81	DI	Q1
CANCER IMMUNOL RES	9.188	1	9.188	DI	Q1
CANCER LETT	6.491	1	6.491		Q1
CANCER TREAT REV	8.122	2	16.244	DI	Q1
CARDIOVASC DRUG THER	2.771	1	2.771		Q2
CELL DEATH DIS	5.638	1	5.638		Q1
CELL PHYSIOL BIOCHEM	5.5	1	5.5	DI	Q1
CELL REP	8.032	1	8.032		Q1
CELL SYST	8.982	1	8.982	DI	Q1
CELL TRANSPLANT	2.885	1	2.885		Q2
CHEM ENG J	6.735	5	33.675	DI	Q1
CHEM RES TOXICOL	3.432	1	3.432		Q1
CHEM-EUR J	5.16	2	10.32		Q1
CHEMISTRYSELECT	1.505	1	1.505		Q3
CHEST	7.652	1	7.652		Q1
CHRONOBIOL INT	2.643	1	2.643		Q2
CIR ESPAN	0.841	6	5.046		Q4
CIRC RES	15.211	1	15.211	DI	Q1
CLIN CANCER RES	10.199	3	30.597	DI	Q1
CLIN CARDIOL	2.733	2	5.466		Q2
CLIN CHEM LAB MED	3.556	1	3.556		Q1
CLIN DRUG INVEST	1.918	1	1.918		Q3
CLIN EXP DERMATOL	1.484	1	1.484		Q3
CLIN EXP RHEUMATOL	3.201	3	9.603		Q2
CLIN GASTROENTEROL H	7.683	1	7.683	DI	Q1
CLIN GENITOURIN CANC	2.539	2	5.078		Q2
CLIN INFECT DIS	9.117	3	27.351	DI	Q1
CLIN INTERV AGING	2.505	1	2.505		Q3
CLIN J AM SOC NEPHRO	5.835	2	11.67	DI	Q1
CLIN J SPORT MED	2.224	1	2.224		Q2
CLIN LUNG CANCER	4.204	8	33.632		Q2
CLIN MICROBIOL INFEC	5.394	12	64.728	DI	Q1
CLIN NEUROL NEUROSUR	1.736	1	1.736		Q3
CLIN NEUROPATHOL	1.015	1	1.015		Q4

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
CLIN NUTR	5.496	1	5.496	DI	Q1
CLIN RES CARDIOL	4.455	3	13.365		Q2
CLIN RESPIR J	2.211	1	2.211		Q3
CLIN RHEUMATOL	2.141	1	2.141		Q3
CLIN SCI	5.22	1	5.22		Q1
CLIN TRANSL ONCOL	2.392	12	28.704		Q3
CLIN TRANSPLANT	1.518	2	3.036		Q3
CNS DRUGS	4.206	1	4.206		Q1
COCHRANE DB SYST REV	6.754	1	6.754	DI	Q1
COGNITIVE SCI	2.617	1	2.617		Q2
COLLOID SURFACE B	3.997	1	3.997		Q1
COMPR PSYCHIAT	2.128	1	2.128		Q2
CONTACT DERMATITIS	4.275	1	4.275		Q1
CORONARY ARTERY DIS	1.705	1	1.705		Q3
CRIT CARE	6.425	3	19.275		Q1
CURR DRUG TARGETS	3.112	1	3.112		Q2
CURR MED RES OPIN	2.665	1	2.665		Q1
CURR OPIN INFECT DIS	3.782	1	3.782		Q2
CURR OPIN RHEUMATOL	4.277	1	4.277		Q1
CYTOM PART B-CLIN CY	2.757	2	5.514		Q2
DEV CELL	9.616	1	9.616	DI	Q1
DIAGN CYTOPATHOL	1.014	1	1.014		Q4
DIGEST LIVER DIS	3.287	1	3.287		Q2
DRUGS	4.69	1	4.69	DI	Q1
EARLY HUM DEV	2.025	1	2.025		Q2
EJSO-EUR J SURG ONC	3.688	2	7.376		Q1
EMERG INFECT DIS	7.422	1	7.422	DI	Q1
EMERGENCIAS	3.608	1	3.608		Q1
ENDOCRINE	3.179	1	3.179		Q2
ENDOCRINOL DIAB NUTR	0.00	1	0.00		Q4
ENDOCR-RELAT CANCER	5.331	2	10.662		Q1
ENFERM INFEC MICR CL	1.707	11	18.777		Q3
EUR ARCH PSY CLIN N	3.617	1	3.617		Q2
EUR HEART J	23.425	9	210.825	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
EUR HEART J-CARD IMG	8.336	1	8.336	DI	Q1
EUR J CANCER	7.191	2	14.382		Q1
EUR J CARDIO-THORAC	3.504	1	3.504		Q1
EUR J CLIN INVEST	3.086	1	3.086		Q1
EUR J EMERG MED	1.729	1	1.729		Q2
EUR J HAEAMATOL	2.595	1	2.595		Q3
EUR J HEART FAIL	10.683	3	32.049	DI	Q1
EUR J HUM GENET	3.636	1	3.636		Q2
EUR J MED CHEM	4.816	1	4.816	DI	Q1
EUR J MED GENET	2.004	1	2.004		Q3
EUR J NEUROL	4.621	1	4.621		Q1
EUR J NUTR	4.423	1	4.423		Q1
EUR J OBSTET GYN R B	1.809	1	1.809		Q3
EUR J PHARM BIOPHARM	4.491	1	4.491		Q1
EUR J PHARM SCI	3.466	1	3.466		Q2
EUR J PREV CARDIOL	4.542	1	4.542		Q1
EUR J PUBLIC HEALTH	2.782	1	2.782		Q1
EUR J VASC ENDOVASC	3.877	1	3.877	DI	Q1
EUR PSYCHIAT	4.129	2	8.258		Q1
EUR RADIOL	4.027	1	4.027		Q1
EUR RESPIR J	12.242	1	12.242	DI	Q1
EUR UROL	17.581	1	17.581	DI	Q1
EUROINTERVENTION	4.417	1	4.417		Q2
EUROPACE	5.231	1	5.231		Q1
EVAL HEALTH PROF	1.531	1	1.531		Q3
EXPERT OPIN DRUG DEL	5.553	1	5.553	DI	Q1
EXPERT OPIN DRUG MET	3.151	1	3.151		Q2
EXPERT OPIN DRUG SAF	3.156	2	6.312		Q2
EXPERT OPIN INV DRUG	3.883	1	3.883		Q1
EXPERT REV ANTI-INFE	3.141	3	9.423		Q2
EXPERT REV PHARM OUT	1.797	1	1.797		Q2
FASEB J	5.595	1	5.595	DI	Q1
FETAL DIAGN THER	1.813	2	3.626		Q3
FOOD CHEM	4.946	2	9.892	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
FOOD CONTROL	3.667	1	3.667	DI	Q1
FOOT ANKLE INT	2.653	1	2.653		Q1
FREE RADICAL BIO MED	6.02	1	6.02		Q1
FRONT ENDOCRINOL	3.519	1	3.519		Q2
FRONT IMMUNOL	5.511	12	66.132		Q1
FRONT MICROBIOL	4.019	2	8.038		Q1
FRONT NEUROL	3.508	2	7.016		Q2
FRONT ONCOL	4.416	2	8.832		Q2
FRONT PEDIATR	2.335	1	2.335		Q2
FRONT PHARMACOL	3.831	1	3.831		Q1
FRONT PHYSIOL	3.394	4	13.576		Q1
FRONT PSYCHIATRY	2.857	1	2.857		Q2
FUTURE ONCOL	2.369	2	4.738		Q3
GASTRIC CANCER	5.045	1	5.045		Q1
GASTROENT HEPAT-BARC	1.078	3	3.234		Q4
GASTROENTEROLOGY	20.773	1	20.773	DI	Q1
GASTROINTEST ENDOSC	7.204	1	7.204		Q1
GENET MED	9.937	1	9.937	DI	Q1
GENOME MED	8.898	1	8.898	DI	Q1
GERONTOLOGY	3.532	1	3.532		Q2
GUT	17.016	1	17.016	DI	Q1
GYNECOL ONCOL	4.54	2	9.08	DI	Q1
HAEMATOLOGICA	9.09	2	18.18	DI	Q1
HEAD NECK-J SCI SPEC	2.471	1	2.471		Q1
HEART	5.42	2	10.84		Q1
HEMATOL ONCOL	3.193	1	3.193		Q2
HEPATOLOGY	14.079	2	28.158	DI	Q1
HISTOPATHOLOGY	3.267	1	3.267		Q1
HIV MED	2.932	1	2.932		Q2
HORM RES PAEDIAT	2.103	1	2.103		Q2
HUM GENETHER	4.241	1	4.241		Q1
HUM MOL GENET	4.902	1	4.902		Q1
HUM MUTAT	5.359	2	10.718		Q1
HYPERTENSION	6.823	1	6.823	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
IMMUNITY	19.734	1	19.734	DI	Q1
INFECT CONT HOSP EP	3.084	1	3.084		Q1
INFECT DIS-NOR	1.932	1	1.932		Q3
INJURY	2.199	2	4.398		Q2
INT ARCH ALLERGY IMM	2.437	1	2.437		Q3
INT BREASTFEED J	2.3	1	2.3		Q2
INT J ANTIMICROB AG	4.253	2	8.506		Q1
INT J CARDIOL	4.034	1	4.034		Q2
INT J CHRONIC OBSTR	2.917	2	5.834		Q2
INT J CLIN PRACT	2	1	2		Q2
INT J ENV RES PUB HE	2.145	1	2.145		Q2
INT J GERIATR PSYCH	2.94	2	5.88		Q1
INT J GYNECOL CANCER	2.192	1	2.192		Q2
INT J IMPOT RES	1.517	1	1.517		Q3
INT J MOL SCI	3.687	6	22.122		Q2
INT J NEUROPSYCHOPH	3.981	1	3.981		Q1
INT J NEUROSCI	1.848	2	3.696		Q4
INT J QUAL HEALTH C	2.554	1	2.554		Q1
INT J RADIAT ONCOL	5.554	1	5.554	DI	Q1
INT J SPORT PHYSIOL	3.384	2	6.768		Q1
INT PSYCHOGERIATR	2.261	1	2.261		Q2
INTENS CARE MED	15.008	2	30.016	DI	Q1
INTERN EMERG MED	2.453	1	2.453		Q2
INVEST NEW DRUG	3.502	1	3.502		Q1
JAFFECT DISORDERS	3.786	2	7.572		Q1
J ALLERGY CLIN IMMUN	13.258	3	39.774	DI	Q1
J ALZHEIMERS DIS	3.476	1	3.476		Q2
J AM ACAD DERMATOL	6.898	1	6.898	DI	Q1
J AM CHEM SOC	14.357	1	14.357	DI	Q1
J AM COLL CARDIOL	16.834	5	84.17	DI	Q1
J AM HEART ASSOC	4.45	3	13.35		Q2
J AM MED DIR ASSOC	5.325	2	10.65	DI	Q1
J AM MED INFORM ASSN	4.27	1	4.27	DI	Q1
J AM SOC NEPHROL	8.655	1	8.655	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
J ANTIMICROB CHEMOTH	5.217	5	26.085	DI	Q1
J BIOL CHEM	4.01	1	4.01		Q2
J BIOMATER APPL	2.082	1	2.082		Q2
J BUON	1.766	1	1.766		Q4
J CACHEXIA SARCOPENI	12.511	1	12.511	DI	Q1
J CARDIOVASC ELECTR	2.873	1	2.873		Q2
J CARDIOVASC PHARM	2.227	1	2.227		Q3
J CELL MOL MED	4.302	1	4.302		Q1
J CEREBR BLOOD F MET	6.045	1	6.045		Q1
J CHILD FAM STUD	1.588	1	1.588		Q2
J CLIN ENDOCR METAB	5.789	1	5.789		Q1
J CLIN HYPERTENS	2.629	2	5.258		Q3
J CLIN MICROBIOL	4.054	2	8.108		Q1
J CLIN ONCOL	26.303	1	26.303	DI	Q1
J CLIN PATHOL	2.894	1	2.894		Q2
J CLIN VIROL	3.101	2	6.202		Q2
J COLLOID INTERF SCI	5.091	1	5.091		Q1
J CONTROL RELEASE	7.877	1	7.877	DI	Q1
J COSMET DERMATOL-US	1.529	1	1.529		Q3
J CRANIO MAXILL SURG	1.96	1	1.96		Q2
J CROHNS COLITIS	6.637	2	13.274		Q1
J DAIRY SCI	2.749	1	2.749	DI	Q1
J ELECTROCARDIOL	1.421	1	1.421		Q4
J EUR ACAD DERMATOL	4.287	2	8.574		Q1
J EXP CLIN CANC RES	6.217	1	6.217		Q1
J FOOT ANKLE SURG	1.138	1	1.138		Q3
J FR OPHTHALMOL	0.636	1	0.636		Q4
J GERIATR ONCOL	3.359	1	3.359		Q2
J GERONTOL A-BIOL	4.902	2	9.804	DI	Q1
J GLAUCOMA	1.742	1	1.742		Q3
J HEART LUNG TRANSPL	7.955	3	23.865	DI	Q1
J HEMATOL ONCOL	7.333	1	7.333	DI	Q1
J HEPATOL	14.911	1	14.911	DI	Q1
J HOSP INFECT	3.354	1	3.354		Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
J HUM GENET	2.942	1	2.942		Q2
J HYPERTENS	4.092	6	24.552		Q1
J IMMUNOL	4.539	1	4.539		Q2
J IMMUNOL METHODS	2.19	1	2.19		Q3
J IMMUNOL RES	3.298	1	3.298		Q2
J INFECT DIS	5.186	1	5.186		Q1
J INFECTION	4.603	2	9.206		Q1
J INHERIT METAB DIS	4.092	2	8.184		Q1
J INT AIDS SOC	5.131	1	5.131		Q1
J INTERPROF CARE	1.601	1	1.601		Q3
J INVEST ALLERG CLIN	3.457	1	3.457		Q2
J LIPID RES	4.505	1	4.505		Q1
J MATER CHEM B	4.776	1	4.776		Q1
J MATER SCI-MATER M	2.448	2	4.896		Q2
J MATERN-FETAL NEO M	1.493	1	1.493		Q4
J MED CHEM	6.253	1	6.253	DI	Q1
J MED GENET	5.751	1	5.751		Q1
J MED INTERNET RES	4.671	2	9.342	DI	Q1
J MED MICROBIOL	2.112	2	4.224		Q3
J MICROBIOL METH	1.701	1	1.701		Q3
J NEUROINFLAMM	5.193	3	15.579		Q1
J NEUROL	3.783	2	7.566		Q1
J NEUROL NEUROSUR PS	7.144	1	7.144	DI	Q1
J NEUROL SCI	2.448	1	2.448		Q3
J NEUROPATH EXP NEUR	3.49	1	3.49		Q1
J NEUROSCI METH	2.668	1	2.668		Q2
J NEUROSCI RES	2.662	1	2.662		Q3
J NEUROTRAUM	5.002	1	5.002		Q1
J NON-CRYST SOLIDS	2.488	1	2.488		Q1
J PATHOL	6.253	1	6.253	DI	Q1
J PEDIAT INF DIS-GER	0.115	1	0.115		Q4
J PEDIAT OPHTH STRAB	0.979	1	0.979		Q4
J PEDIATR UROL	1.935	1	1.935		Q2
J PHYSIOL-LONDON	4.54	1	4.54		Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
J PLAST SURG HAND SU	1.1	1	1.1		Q3
J PSYCHOPHARMACOL	4.738	1	4.738	DI	Q1
J STROKE CEREBROVASC	1.598	1	1.598		Q4
J THORAC ONCOL	10.336	4	41.344	DI	Q1
J THROMB THROMBOLYS	2.62	1	2.62		Q2
J TRAUMA NURS	0.452	1	0.452		Q4
J VASC SURG	3.294	1	3.294		Q1
J VIRAL HEPATITIS	4.237	1	4.237		Q1
J VIROL METHODS	1.756	1	1.756		Q3
JVISION	2.266	1	2.266		Q2
JACC-CARDIOVASC INTE	9.881	1	9.881	DI	Q1
JACC-HEART FAIL	8.202	2	16.404	DI	Q1
JAIDS-J ACQ IMM DEF	4.116	1	4.116		Q1
JAMA CARDIOL	10.133	1	10.133	DI	Q1
JAMA DERMATOL	8.107	1	8.107	DI	Q1
JAMA ONCOL	20.871	2	41.742	DI	Q1
JNCI-J NATL CANCER I	11.238	1	11.238	DI	Q1
JOVE-J VIS EXP	1.184	1	1.184		Q2
KIDNEY BLOOD PRESS R	3	2	6		Q2
KIDNEY INT	8.429	3	25.287	DI	Q1
LANCET	53.254	3	159.762	DI	Q1
LANCET GLOB HEALTH	18.705	1	18.705	DI	Q1
LANCET INFECT DIS	25.148	1	25.148	DI	Q1
LANCET NEUROL	27.138	1	27.138	DI	Q1
LANCET ONCOL	36.418	6	218.508	DI	Q1
LANCET PSYCHIAT	15.233	1	15.233	DI	Q1
LEUKEMIA	10.023	4	40.092	DI	Q1
LEUKEMIA LYMPHOMA	2.644	2	5.288		Q2
LEUKEMIA RES	2.319	1	2.319		Q3
LIVER INT	4.5	1	4.5		Q1
LIVER TRANSPLANT	3.752	2	7.504		Q1
LUNG CANCER	4.486	2	8.972		Q1
LUPUS	2.969	1	2.969		Q3
MALARIA J	2.845	2	5.69		Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
MAT SCI ENG C-MATER	5.08	1	5.08		Q1
MATER CHEM PHYS	2.21	1	2.21		Q2
MATERIALS	2.467	2	4.934		Q2
MATURITAS	3.315	1	3.315		Q1
MAYO CLIN PROC	7.199	1	7.199	DI	Q1
MED CLIN-BARCELONA	1.168	3	3.504		Q3
MED HYPOTHESES	1.12	1	1.12		Q4
MED INTENSIVA	1.755	10	17.55		Q4
MED SCI SPORT EXER	4.291	2	8.582	DI	Q1
MITOCHONDRION	3.226	1	3.226		Q2
MOL CANCER	7.776	1	7.776	DI	Q1
MOL GENET METAB	3.774	2	7.548		Q2
MOL IMMUNOL	3.188	2	6.376		Q2
MOL NEUROBIOL	5.076	5	25.38		Q1
MOL NEURODEGENER	6.426	1	6.426	DI	Q1
MOL THER	7.008	1	7.008	DI	Q1
MOLECULES	3.098	3	9.294		Q2
MUSCLE NERVE	2.496	1	2.496		Q3
NANOMATERIALS-BASEL	3.504	2	7.008		Q1
NANOSCALE	7.233	1	7.233		Q1
NAT COMMUN	12.353	4	49.412	DI	Q1
NAT GENET	27.125	1	27.125	DI	Q1
NAT MED	32.621	1	32.621	DI	Q1
NAT REV CARDIOL	15.162	1	15.162	DI	Q1
NEFROLOGIA	1.167	5	5.835		Q4
NEPHROL DIAL TRANSPL	4.6	2	9.2		Q1
NETH J MED	1.156	1	1.156		Q3
NEUROBIOAGING	4.454	1	4.454		Q1
NEUROCASE	0.92	2	1.84		Q4
NEUROCIRUGIA	0.31	2	0.62		Q4
NEUROLOGIA	1.938	3	5.814		Q3
NEUROLOGY	7.609	2	15.218	DI	Q1
NEURON	14.318	1	14.318	DI	Q1
NEUROPHARMACOLOGY	4.249	1	4.249		Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
NEUROSCIENCE	3.382	1	3.382		Q2
NEW ENGL J MED	79.258	8	634.064	DI	Q1
NUTR HOSP	0.845	6	5.07		Q4
ONCOLOGIST	5.306	4	21.224		Q1
ONCOTARGET	5.168	6	31.008		Q1
ONCOTARGETS THER	2.656	1	2.656		Q2
OPEN FORUM INFECT DI	3.24	1	3.24		Q2
ORAL ONCOL	4.636	3	13.908	DI	Q1
ORPHANET J RARE DIS	3.607	2	7.214		Q2
OXID MED CELL LONGEV	4.936	1	4.936		Q2
P NATL ACAD SCI USA	9.504	2	19.008	DI	Q1
PACE	1.441	1	1.441		Q3
PAED CHILD HEALT-CAN	2.348	1	2.348		Q2
PAIN MED	2.782	1	2.782		Q1
PARASITE VECTOR	3.163	1	3.163	DI	Q1
PART PART SYST CHAR	4.384	1	4.384		Q1
PEDIATR DERMATOL	1.041	1	1.041		Q4
PEDIATR EMERG CARE	1.066	1	1.066		Q3
PEDIATR INFECT DIS J	2.305	3	6.915		Q2
PEDIATRICS	5.515	1	5.515	DI	Q1
PHARMACEUTICS	3.746	1	3.746		Q1
PHARMACOL RES	4.897	1	4.897	DI	Q1
PLOS BIOL	9.163	1	9.163	DI	Q1
PLOS MED	11.675	2	23.35	DI	Q1
PLOS NEGLECT TROP D	4.367	1	4.367	DI	Q1
PLOS ONE	2.766	14	38.724		Q1
PREGNANCY HYPERTENS	2.011	2	4.022		Q3
PREV MED	3.483	1	3.483		Q1
PSYCHIAT RES	2.223	2	4.446		Q2
PSYCHOL MED	5.475	1	5.475	DI	Q1
RAPID COMMUN MASS SP	1.97	1	1.97		Q2
REDOX BIOL	7.126	1	7.126		Q1
RES SPORTS MED	1.871	1	1.871		Q2
RESP CARE	2.073	1	2.073		Q3

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
RESP MED	3.23	1	3.23		Q2
RESP RES	3.751	1	3.751		Q2
REV CLIN ESP	1.184	3	3.552		Q3
REV ESP CARDIOL	5.166	5	25.83		Q1
REV ESP ENFERM DIG	1.632	13	21.216		Q4
REV ESP MED NUCL IMA	1.202	2	2.404		Q4
REV ESP QUIM	0.605	5	3.025		Q4
REV IBEROAM MICOL	0.989	1	0.989		Q4
REV INST MED TROP SP	1.489	1	1.489		Q3
REV NEUROLOGIA	0.601	3	1.803		Q4
REV PSIQUIATR SALUD	2.233	1	2.233		Q2
RHEUMATOL INT	1.952	5	9.76		Q4
RHEUMATOLOGY	5.245	1	5.245		Q1
SCAND J MED SCI SPOR	3.623	1	3.623		Q1
SCAND J RHEUMATOL	3.021	1	3.021		Q3
SCAND J SURG	1.925	1	1.925		Q2
SCHIZOPHR RES	3.958	3	11.874		Q1
SCI BULL	4.136	1	4.136		Q1
SCI REP-UK	4.122	6	24.732		Q1
SEMIN ARTHRITIS RHEU	4.356	2	8.712		Q1
SEMIN CELL DEV BIOL	6.138	1	6.138	DI	Q1
SEMIN IMMUNOPATHOL	6.437	1	6.437	DI	Q1
SPAN J PSYCHOL	0.629	1	0.629		Q4
STEM CELL REP	6.537	1	6.537		Q1
STEM CELL RES	1.829	3	5.487		Q3
STEM CELL RESTHER	4.963	1	4.963		Q1
STEM CELLS INT	3.989	1	3.989		Q2
STROKE	6.239	1	6.239	DI	Q1
SUPPORT CARE CANCER	2.676	1	2.676		Q1
T ROY SOC TROP MED H	2.82	1	2.82		Q1
TARGET ONCOL	3.877	1	3.877		Q2
THER ADV MED ONCOL	6.238	1	6.238		Q1
THER HYPOTHERMIA TEM	2.038	1	2.038		Q4
THORAX	9.655	1	9.655	DI	Q1

JOURNAL	IF (JCR 2017)	No. OF PUBLICATIONS	CIF	DECILE (D)	QUARTILE (Q)
THROMB HAEMOSTASIS	4.952	2	9.904	DI	Q1
THROMB RES	2.779	1	2.779		Q2
TRANSFUS MED REV	4.111	1	4.111		Q2
TRANSFUSION	3.423	1	3.423		Q2
TRANSPL INFECT DIS	1.869	2	3.738		Q3
TRANSPL INT	3.196	3	9.588		Q1
TRANSPL P	0.806	2	1.612		Q4
TRANSPLANT REV-ORLAN	2.364	1	2.364		Q3
TRANSPLANTATION	3.96	4	15.84	DI	Q1
TRENDS MOL MED	11.021	1	11.021	DI	Q1
TROP MED INT HEALTH	2.541	1	2.541		Q2
ULTRASOUND OBST GYN	5.654	1	5.654	DI	Q1
UNITED EUR GASTROENT	3.477	2	6.954		Q2
UROL INT	1.508	2	3.016		Q3
VET MICROBIOL	2.524	1	2.524	DI	Q1
WIRES COGN SCI	2.881	1	2.881		Q1
WORLD J GASTROENTERO	3.3	4	13.2		Q2
WORLD J SURG	2.766	1	2.766		Q1

No. of Journals = 457 5.870 (MIF) 832 4,884.13

CLINICAL PRACTICE GUIDELINES

During 2018, research carried out in Instituto i+12 led to the publication of 61 clinical practice guidelines:

- **Aguado JM, Silva JT, Fernández-Ruiz M, Cordero E, Fortun J, Gudiol C, Martínez-Martínez L, Vidal E, Almenar L, Almirante B, Canton R, Carratalá J, Castón JJ, Cercenado E, Cervera C, Cisneros JM, Crespo-Leiro MG, Cuervas-Mons V, Elizalde-Fernández J, Fariñas MC, Gavalda J, Goyanes MJ, Gutiérrez-Gutiérrez B, Hernández D, Len O, López-Andújar R, López-Medrano F, Martín-Dávila P, Montejo M, Moreno A, Oliver A, Pascual A, Pérez-Nadale E, Roman-Broto A, San-Juan R, Serón D, Sole-Jover A, Valerio M, Muñoz P, Torre-Cisneros J;** Spanish Soc Transplantat SET, Group for Study of Infection in Transplantation of the Spanish Society of Infect, Spanish Network for Research in Infectious Diseases (REIPI) (RD16/0016). Management of multidrug resistant Gram-negative bacilli infections in solid organ transplant recipients: SET/GESITRA-SEIMC/REIPI recommendations *Transplantation Reviews*. 2018;32(1):36-57. IF: 2.364.
- **Balañá C, Alonso M, Hernandez A, Perez-Segura P, Pineda E, Ramos A, Sanchez AR, Teixidor P, Verger E, Benavides M.** SEOM clinical guidelines for anaplastic gliomas (2017). *Clinical & Translational Oncology*. 2018;20(1):16-21. IF: 2.392.
- **Aguinagalde B, Aranda JL, Busca P, Martinez I, Royo I, Zabaleta J;** Grupo de trabajo de la GPC para el Manejo de Pacientes con Neumotórax espontáneo. SECT Clinical Practice Guideline on the Management of Patients With Spontaneous Pneumothorax *Cirugía Española*. 2018;96(1):3-11. IF: 0.841.
- **Iglesias Docampo LC, Arrazubi Arrula V, Baste Rotllan N, Carral Maseda A, Cirauqui BC, Escobar Y, Lambea Sorosal JJ, Pastor Borgoñón M, Rueda A, Cruz Hernández JJ;** SEOM clinical guidelines for the treatment of head and neck cancer (2017). *Clinical & Translational Oncology*. 2018;20(1):75-83. IF: 2.392.
- **Gallardo E, Mendez-Vidal MJ, Perez-Gracia JL, Sepulveda-Sánchez JM, Campayo M, Chirivella-Gonzalez I, García-del-Muro X, Gonzalez-Del-Alba A, Grande E, Suarez C.** SEOM clinical guideline for treatment of kidney cancer (2017). *Clinical & Translational Oncology*. 2018;20(1):47-56. IF: 2.392.
- **Valgimigli M, Bueno H, Byrne RA, Collet JP, Costa F, Jeppsson A, Jüni P, Kastrati A, Kolh P, Mauri L, Montalescot G, Neumann FJ, Petricevic M, Roffi M, Steg PG, Windecker S, Zamorano JL, Levine GN;** ESC Scientific Document Group. 2017 ESC focused update on dual antiplatelet therapy in coronary artery disease developed in collaboration with EACTS The Task Force for dual antiplatelet therapy in coronary artery disease of the European Society of Cardiology (ESC) and of the European Association for Cardio-Thoracic Surgery (EACTS). *European Journal of Cardio-Thoracic Surgery*. 2018;53(1):34-78. IF: 3.504.
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TECHNOLOGY TRANSFER ACTIVITIES AND IPR PORTFOLIO

During 2018, 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. The activity of UAI i+12 during 2018 is set out below.

INDUSTRIAL PROPERTY

- In 2018, several inventions from our staff have been registered as follows: 3 Spanish patent applications, 2 international applications (under the PCT), 5 European patents, 6 patentes n other countries and 1 Spanish trademark.
The Intellectual Property Rights Portfolio in which researchers at i+12 have been involved is listed below. In particular, those belonging to the Fundación para la Investigación Biomédica del Hospital 12 de Octubre (FIBH12O) in terms of right holder or joint-owner:
 - 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 applications: 09/02/2018.
 - 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 Soley, Juan Miguel Rodríguez Gómez.
Owners: Fundación i+12 (33,33%), Probisearch (33,33%), SIVE Fluid Systems (33,33%).
Date of applications: 09/02/2018.
 - Title: Método de Cuantificación de EMR en un Sujeto.
Number: E14191967.
Type: Spanish approval of European patent.
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 applications: 09/02/2018.

° **Title:** Método de Cuantificación de EMR en un Sujeto.

Number: E14191967.

Type: Netherland approval of European patent.

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 applications: 22/02/2018.

° **Title:** Método de Cuantificación de EMR en un Sujeto

Number: E14191967

Type: German approval of European patent.

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 applications: 07/03/2018.

° **Title:** Método de Cuantificación de EMR en un Sujeto

Number: E14191967

Type: French approval of European patent.

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 applications: 18/02/2018.

° **Title:** Método de Cuantificación de EMR en un Sujeto

Number: E14191967

Type: Swiss approval of European patent.

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 applications: 20/02/2018.

° **Title:** Método de Cuantificación de EMR en un Sujeto

Number: E14191967

Type: UK approval of European patent.

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 applications: 07/03/2018.

° **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 applications: 09/02/2018.

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

Number: 15932272.

Type: Divisional application USA.

Inventors: Joaquín Martínez López, Rosa Ayala Díaz, Santiago Barrio García, Carlos Marín Sebastián, Inmaculada Rapado Martínez, Beatriz Sánchez Vega.

Owners: Fundación i+12 (100%).

Date of applications: 16/02/2018.

° **Title:** Pasteurizador en Continuo para Leche Humana.

Number: EP16834706.0.

Type: EFN PCT, European patent.

Inventors: Carmen Rosa Pallas Alonso, Diana Escuder Vieco, Irene 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 applications: 08/03/2018.

° **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: 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 applications: 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, USA 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 applications: 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, China 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 applications: 12/04/2018.

° **Title:** Inmunocomplejos artificiales y su uso como calibres en sistemas de detección de Inmunocomplejos circulantes B2GPI-aB2GPI.

Number: P201830367.

Type: Spanish patent.

Inventors: Antonio Serrano Hernández, Manuel Serrano Blanco, José Ángel Martínez Flores.

- Owners: Fundación i+12 (100%).
Date of applications: 12/04/2018.
- ° Title: Dispositivo de Fijación en Ostomía para la Prevención de Hernias.
Number: EP16874957.0.
Type: EFN PCT, European patent.
Inventors: Julio Almenara Pulido.
Owners: Fundación i+12(100%).
Date of applications: 05/06/2018.
- ° Title: Pasteurizador en Continuo para Leche Humana.
Number: CO20180006208.
Type: EFN PCT, National patent Colombia.
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 applications: 15/06/2018.
- ° Title: Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.
Number: P2018.
Type: PCT patent.
Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.
Owners: Fundación i+12 (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).
Date of applications: 13/07/2018.
- ° Title: Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.
Number: P2018.
Type: PCT patent.
Inventors: Luis Gonzaga Paz-Ares Rodríguez, Álvaro Quintanal Villalonga, Irene Ferrer Sánchez, Sonia Molina Pinelo, Amancio Carnero Moya.
Owners: Fundación i+12 (60%), Servicio Andaluz de Salud (20%), Consejo Superior Investigaciones Científicas (20%).
Date of applications: 13/07/2018.
- ° 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 Luís 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 applications: 23/07/2018.
- ° 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 applications: 08/08/2018.
- ° 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 applications: 12/12/2018.
- ° Title: "Debates de Cirugía en Directo".
Number: M3734343.
Type: Comercial trade mark.
Owners: Fundación i+12 (100%).
Date of approval: 11/09/2018.

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 UAI i+12 in the project "Desarrollo de un Kit de Diagnóstico en Enfermedad Mínima Residual [Development of a Kit for the Diagnosis of Minimal Residual Disease]", within the framework of the call for Technology Development Projects in Strategic Action in Health Care 2018. Award confirmed (€72,050).
- Preparation, participation of i+12 ISU, and presentation of 2 innovation projects in the FIPSE (Fundación para la Investigación y Prospectiva en Salud en España [Foundation for Research and a Prospective View of Health in Spain]) program. Proposals presented:
 - ° "Solicitud de un Derecho de IP Para un Tapón de Bioseguridad de Extracción Analítica" (amount applied for: €10,000).
 - ° "Plan de Comercialización para Nanopartículas Poliméricas que Vehiculan la Colagenasa" (amount applied for: €24,500).
- Presentation of Joaquín Martínez López, Head of Hematology, as a candidate for "European Inventor Award 2019" with the European patent "Método de cuantificación de EMR en un sujeto [Method for quantifying RMD in a patient]". European Patent Office.

ACTIONS FOR DEVELOPMENT

- Development of a prototype: "Aplicador de Catéter y Catéter que Incorpora dicho Aplicador [Catheter Applicator and Catheter Incorporating the Applicator]" in collaboration with Fundación PRODINTEC within the framework of a health technology development project of the same name, funded by the AES in the 2016 call.
- Development of a prototype for a "Dispositivo de Ostomía [Ostomy Device]" in collaboration with IK4-TEKNIKER within the framework of a health technology development project funded by the AES in the 2017 call.

PROGRAMS FOR INNOVATION IN HEALTH CARE

- Participation in the project "Nanopartículas Poliméricas que Vehiculan la Colagenasa [Collagenase-Transporting Polymeric Nanoparticles]", headed by Dr. Pablo Ortiz Romero in the HEALTHSTART program of Fundación para el Conocimiento Madri+d in its 2018 edition.

- Participation of Elena García Manzanares in the project “Dispositivo de Ostomía para Prevención de Hernias Parastomales [Ostomy Device for the Prevention of Parastomal Hernia]” in the “Innovación en Salud [Innovation in Health]” prizes, promoted by FIPSE. Selected as a finalist from more than 100 proposals in Spain.

ACTIVITY IN THE FRAMEWORK OF PLATAFORMA ITEMAS

- Coordination of the Working Group “Relaciones Estratégicas [Strategic Relationships]”.
- Participation in Working Groups:
 - “Fomento de la Cultura Innovadora [Promotion of an Innovation Culture]”.
 - “Best Practices”.
- Attendance at the General Assembly of ITEMAS (Madrid 24/05/2018).
- Attendance at the Meeting of the Executive Committee of ITEMAS (Madrid 07/11/2018).

TRAINING ACTIONS

- Continuing training course: “INNOVACIÓN: Aspectos clave en el desarrollo de ideas [INNOVATION: Key aspects in the development of ideas]” (04/06/2018 – 07/06/2018). 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.

ALLIANCES AND SEARCH FOR PARTNERS

- Signature of 4 confidentiality agreements: 3 at national level and 1 at international level with third parties (industry, universities, and public research bodies).
- Signature of 12 Material Transfer Agreements with third parties: 8 at national level and 4 at international level.
- Meeting with the Innovation Department of Pfizer to identify potential joint projects.
- Organization of visits to the Biomedical Technology Center of UPM with Heads of Department of the H12O in order to promote synergies in the area of 3D printing.
- Visit by 2 patent assessors from the European Patents Office to Instituto i+12 to compare experiences with i+12 ISU.

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 invention “Nanocápsulas Poliméricas que Vehiculan la Colagenasa [Collagenase-Transporting Polymeric Nanocapsules]” in the European Platform Enterprise Europe Network with access to potential licensees beyond the member states of the EU.
- Participation of Dr. López Medrano with the project “Aplicador de Catéter Venoso Periférico [Peripheral Venous Catheter Applicator]” in the II Jornada de Investigación Sanitaria de la Comunidad de Madrid [Second Course on Health Research] held at Hospital Gregorio Marañón, Madrid.
- Support for the project “Nanocápsulas Poliméricas que Vehiculan la Colagenasa [Collagenase-Transporting Polymeric Nanocapsules]” in its participation in “Foro Inversión Salud”.
- License for the tool Sistema SEPiR+i2 granted to Instituto de Investigación Sanitaria BIODONOSTI in 2018.

PUBLICATION OF THE SERVICES OF UAI i+12

- Presentation of the portfolio of services of the UAI i+12 and successful cases to the various care services of H12O: Neurosurgery, Pediatric Surgery, Vascular Surgery, and Otorhinolaryngology.



TRAINING ACTIVITIES

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- COURSES
 - SEMINARS AND ONE-DAY SESSIONS
 - i+12 SESSIONS
 - SEMINARS AT THE i+12 RESEARCH CENTER
 - DOCTORAL THESES

In 2018, 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 2018, 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 23 to February 15, 2018.
- Communication Course. 20-22 February, 2018. Face-to-face course.
- Innovation Course. “Aspectos Clave para el Desarrollo de Ideas”. 4-7 June, 2018. 15 hours, face-to-face course.
- XXI Course on Dermophatology. 23-24 March, 2018. Face-to-face course.
- Course on Critical Literature. 3 April, 2018. Face-to-face course.
- Course on Statistics with the R Program. 9-12 April, 2018. Face-to-face course.
- Course on Projects Writing. 24 April, 2018. Face-to-face course.
- Workshop on Pubmed and Embase Search. 23-25 April, 2018. Face-to-face course.
- Vancouver Style Bibliography. 21-22 May, 2018. Face-to-face course.
- XI Course on Fetal Ultrasound. 22-23 November, 2018. Face-to-face course.
- Course on Nosocomial Infection. “Un reto diario en las Unidades Neonatales”. 26 October, 2018. Face-to-face course.

SEMINARS AND ONE-DAY SESSIONS

In 2018, Instituto i+12 also held 17 seminars and one-day informative science sessions:

- I International Meeting on Psychiatry and Psychotherapy focused on the patient. 27 January, 2018.
- I National Meeting: “Prueba de Esfuerzo con Consumo de Oxígeno”. 9 February, 2018.
- II Research Session for Residents. 6 March, 2018.
- XXVI International Meeting on Vaccination. 22-23 February, 2018.
- Open-Doors Session. 20 March, 2018.
- II Scientific Meeting of the Red de Investigación en Inflamación y Enfermedades Reumáticas (RIER [Network for Research on Inflammation and Rheumatic Diseases]). 5 April, 2018.
- One-Day Session Strategic Plan Evaluation 2015-2019. 16 April, 2018.
- VIII Ana M^a Martínez Scientific Contest in Nursing. 23 May, 2018.
- Welcome Session for New Residents. 25 May, 2018.
- One-Day Session UPDATE on Infectious Diseases. 30 May, 2018.
- I Session on Biological Product, Safety and Infection (BI-SEIF). 19 September, 2018.
- I Session Updates on Advanced Technology in Electrotherapy. 21 September, 2018.
- VIII Session on Functional Diseases. 5 October, 2018.
- IV International Congress CPR European Day. 16-19 October, 2018.
- 4th Madrid International Mens Health Meeting. 18-19 November, 2018.
- I Session on Attention of Gender Violence Victims in Emergency. 26-27 November, 2018.
- V Session Update Organ Transplantation. 3-4 December, 2018.

i+12 SESSIONS

i+12 holds research seminars and sessions that are aimed at all the staff of the Institute. The sessions are usually led by researchers from i+12 and are aimed at reporting details of the scientific output of a particular research group and the results obtained by the group during the previous period. These sessions and seminars aim to showcase the knowledge generated by i+12 and to strengthen cooperation between the groups that participate in them.

Occasionally, prestigious guest speakers from other institutions are invited to participate in these research seminars and sessions.

DATE	TITLE	SPEAKER
19/01/2018	El Infobanco del i+12 como herramienta para la investigación y evaluación	Pablo Serrano Balazote
5/02/2018	Sesión Presentación Acción Estratégica en Salud 2018	Joaquín Arenas Barbero
20/02/2018	Inmunoterapia del cáncer basada en células T: ¿reactivación o redirección?	Luis Manuel Álvarez Vallina
23/03/2018	Del diagnóstico prenatal genómico a la medicina fetal de precisión	Francisco Javier Fernández Martínez
26/04/2018	Subtipos intrínsecos en cáncer de mama	Eva Mª Ciruelos Gila
18/05/2018	Que 5 años no es nada. Biblioteca del Hospital Universitario 12 de Octubre (2013-2018)	José Manuel Estrada Lorenzo
19/06/2018	Reglamento General de Protección de Datos “¡Peligro! El manejo de datos de salud puede ser perjudicial para usted”	Agustín Gómez de la Cámara Dña. Rosa Mª Vega Miaña
22/06/2018	Papel de Eph y Ephrinas en microambientes linfo-hematopoiéticos	Agustín Zapata González
14/09/2018	Presentación de la Memoria Anual de Actividad 2017 del Instituto de Investigación Hospital 12 de Octubre	Joaquín Arenas Barbero
19/10/2018	Investigación traslacional en cáncer de pulmón	Eva Garrido Martín Irene Ferrer Sánchez
8/11/2018	Viroterapia del cáncer: avances y cambio de paradigma	Juan Fueyo Margareto
11/12/2018	Edición genética en la investigación actual y futuras terapias de enfermedades raras	Lluís Montoliu

SEMINARS AT THE i+12 RESEARCH CENTER

- 15 January 2018 - Ana Arjona Hernández (GE Healthcare). “Biacore: Análisis de interacciones moleculares en tiempo real”
- 22 January 2018 - María Fernández Velasco (Innate Immune Response Group, Hospital La Paz-idiPaz/IIB). “Papel de los receptores Nod1 en el desarrollo de insuficiencia cardíaca”
- 5 February 2018 - Fernando de Miguel Pedrero (Unidad de Terapia Génica, Instituto de Investigación en Enfermedades Raras, Instituto de Salud Carlos III). “Terapias avanzadas en Distrofia Muscular Congénita por Laminopatía (L-CMD)”
- 19 February 2018 - Soledad Santos (Editorial Director, Springer Healthcare Ibérica SLU, Springer Nature Group). “La publicación científica desde el punto de vista editorial: ¿Dónde estamos y hacia dónde vamos?”
- 5 March 2018 - Teresa Lobo (Departamento Bioquímica, Instituto de Investigación H12O). “Impact of COX7A2L in the biogenesis of human mitochondrial respiratory chain supercomplexes”
- 19 March 2018 - Miguel Fernández de la Torre (Mitochondrial Disease Group, Instituto de Investigación Hospital 12 de Octubre (i+12)). “La fisiopatología de la enfermedad mitocondrial en el sistema nervioso. Evidencias en el ratón “Hálequin”
- 9 April 2018 - Elena Gómez Massa (Servicio de Inmunología, Hospital 12 de Octubre). “Las células linfoides innatas helper (hILC) son resistentes a la terapia inmunosupresora: una observación del trasplante renal y hepático”
- 23 April 2018 - Raquel Toribio (Centro Nacional de Investigaciones Cardiovasculares-CNIC). “Lamin A/C: relevant modulator of naïve T-cell differentiation and potential therapeutic target for Inflammatory Bowel Disease (IBD)”
- 21 May 2018 - Gabriela Desdín Micó (Lab. Inmunometabolismo e Inflamación. Centro de Biología Molecular Severo Ochoa (CSIC-UAM) and Instituto de Investigación Hospital 12 de Octubre (i+12)). “Inmunometabolismo y su implicación en envejecimiento y caquexia”
- 28 May 2018 - Neus Romo (LabClinics, SA). “Procartaplex: ensayos multiplex para cuantificación de proteína”
- 4 June 2018 - Marta Dueñas Porto (Unidad de Oncología Molecular. CIEMAT and Instituto de Investigación Hospital 12 de Octubre (i+12)). “Biopsia Líquida e Inmunidad Innata en cáncer de vejiga. Investigación básica, traslacional y predictiva”
- 18 June 2018 Ricardo Madrid (BioAssays SL). “BioAssays, plataforma de I+D en Biomedicina”
- 2 July 2018 - Laura Martín Pérez (Departamento de Ciencias Biomédicas. Universidad Europea de Madrid and Instituto de Investigación Hospital 12 de Octubre (i+12)). “Estudio de precursores mesenquimales: sanos, enfermos y útiles”
- 16 July 2018 - Pedro Reche (Facultad de Medicina, Departamento Microbiología I - Inmunología. Universidad Complutense de Madrid). “Computer-assisted epitope discovery for vaccine design”
- 25 September 2018 - Marta González Sánchez (Neurodegenerative Diseases Group, Instituto de Investigación i+12). “Cambios en la expresión proteica plaquetaria en pacientes con deterioro cognitivo leve y enfermedad de Alzheimer”
- 19 November 2018 - Macarena Calero Calero (Translational Research Group with iPSCs) Instituto de Investigación Hospital 12 de Octubre (i+12). “Nanopartículas magnéticas como vehículo para el transporte de fármacos”
- 10 December 2018 - Manuel Rey Cerros (Inflammatory and Autoimmune Diseases Group) Instituto de Investigación Hospital 12 de Octubre (i+12). “Interacción entre inflamación y senescencia en las artritis crónicas”
- 17 December 2018 - Raquel Toribio Fernández (LamImSys Lab) Instituto de Investigación Hospital 12 de Octubre (i+12). “Biological and pathological role of A-type lamins in T-cell mediated immune response”

SEMINARS ON CANCER INMUNOTHERAPY

- 13 February 2018 • Antonio Pérez-Martínez (Hospital Infantil Universitario La Paz, Madrid)
- 10 April 2018 • Balbino Alarcón (Centro de Biología Molecular Severo Ochoa (CBMSO))
- 8 May 2018 • Alena Gros (Vall d'Hebron Instituto de Oncología (VHIO), Barcelona)
- 12 June 2018 • Ignacio Melero (Clínica Universitaria Navarra/Centro de Investigación Médica Aplicada (CIMA), Pamplona)
- 10 July 2018 • Javier Briones (Hospital de la Santa Creu i Sant Pau, Barcelona)

DOCTORAL THESES DIRECTED OR DEFENDED IN 2018 BY RESEARCHERS FROM THE INSTITUTE

A total of 30 doctoral theses have been directed or defended by researchers of the Instituto i+12 during the 2018.

NAME	TITLE	UNIVERSITY	DATE DEFENDED	RESEARCH AREA/ GROUP	DIRECTOR(S)
Alicia Canal López	Señalización HGF/MET como diana terapéutica en pacientes con mieloma múltiple	Complutense de Madrid	16/11/2018	Cancer/Translational Haematology	Joaquín Martínez López Daniel Rueda Fernández
Mª Esther Onecha de la Fuente	Implicaciones clínicas de la detección de mutaciones recurrentes mediante secuenciación masiva en leucemia mieloide aguda y correlación con la sensibilidad a fármacos antileucemia	Complutense de Madrid	11/12/2018	Cancer/Translational Haematology	Joaquín Martínez López Rosa Mª Ayala Díaz
Sandra Blasco Benito	El receptor cannabinoid CB2R como diana terapéutica y herramienta pronóstico/predictiva en cáncer de mama HER2+	Complutense de Madrid	16/11/2018	Cancer/Breast and Gynecologic Cancer	Cristina Sánchez García Eduardo Pérez Gómez Manuel Guzmán Pastor
Antonio Garrido Tarrio	Caracterización neuroinmunoendocrina de modelos de envejecimiento prematuro en ratón. Efecto del ambiente social	Complutense de Madrid	17/12/2018	Chronic Diseases and Transplantation/Ageing, Neuroimmunology, and Nutrition	Mónica de la Fuente del Rey
Andrés Carmona Muñoz	Implicación de microvesículas endoteliales en el desarrollo de daño vascular	Córdoba	17/04/2018	Chronic Diseases and Transplantation/Ageing, Neuroimmunology, and Nutrition	Julia Carracedo Añon

NAME	TITLE	UNIVERSITY	DATE DEFENDED	RESEARCH AREA/ GROUP	DIRECTOR(S)
María Molina Gómez	Análisis de los factores que determinan la supervivencia del injerto a largo plazo en el trasplante renal con donantes en asistolia no controlada fallecidos en la calle o en su domicilio	Complutense de Madrid	13/07/2018	Chronic Diseases and Transplantation/Clinical Nephrology/Kidney Transplant	Manuel Praga Terente Amado Andrés Belmonte
Manuel Serrano Blanco	Anticuerpos antifosfolípidicos de clase IgA como factor de riesgo para morbi-mortalidad cardiovascular en el trasplante de órganos sólidos	Complutense de Madrid	12/12/2018	Chronic Diseases and Transplantation/Tissue Engineering	José Mª Morales Cerdán Antonio Serrano Hernández
María García Nebreda	Caracterización anatomoclínica y molecular del cáncer colorrectal en adultos jóvenes y comparación con pacientes mayores de 65 años	Complutense de Madrid	19/04/2018	Chronic Diseases and Transplantation/Abdominal Organ Transplant	Luis Carlos Jiménez Romero Gloria Paseiro Crespo Edurne Álvaro Cifuentes
Almudena Escribá Bárcena	Influencia de la implementación de programas de prevención de la infección nosocomial en las unidades de cuidados intensivos en las tasas de infección nosocomial en pacientes con cardiopatía aguda	Complutense de Madrid	14/12/2018	Chronic Diseases and Transplantation/Critical Patient	Juan Carlos Montejo González Mercedes Palomar Martínez Joaquín Álvarez Rodríguez
Emilio Renes Carreño	Perfil de la infección nosocomial en los pacientes con cardiopatía aguda ingresados en las UCI españolas	Complutense de Madrid	14/12/2018	Chronic Diseases and Transplantation/Critical Patient	Juan Carlos Montejo González Francisco Álvarez Lerma Mercedes Catalán González
Teresa Lobo Jarne	Impact of COX7A2L in the biogenesis of human mitochondrial respiratory chain supercomplexes	Autónoma de Madrid	13/04/2018	Rare and Genetically Based Diseases/Rare, Mitochondrial, and Neuromuscular Diseases	Cristina Ugalde Bilbao

NAME	TITLE	UNIVERSITY	DATE DEFENDED	RESEARCH AREA/ GROUP	DIRECTOR(S)
Sara Palacios Zambrano	Identificación y caracterización de nuevos genes implicados en la función OXPHOS y su posible asociación a patologías humanas	Autónoma de Madrid	29/06/2018	Rare and Genetically Based Diseases/Pathophysiology of Mitochondrial Biogenesis	Miguel Ángel Fernández Moreno Rafael Garesse Alarcón
Francisco Zurita Díaz	Generación de iPSC como modelo de estudio de enfermedades mitocondriales causadas por mutaciones en GFMI y POLG	Autónoma de Madrid	02/07/2018	Rare and Genetically Based Diseases/Pathophysiology of Mitochondrial Biogenesis	Mª Esther Gallardo Pérez Rafael Garesse Alarcón
Elena Bergón Sendin	Experiencia en la Aplicación de Auditorias de Seguridad en Tiempo Real en Una Unidad de Cuidados Intensivos Neonatales de Nivel IIIC	Alcalá de Henares	23/02/2018	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/Maternal and Child Health	Carmen Rosa Pallás Alonso
Sara Vázquez Román	Cambios en las propiedades físico químicas de la leche humana donada durante la conservación en un banco de leche humana y su influencia en la calidad y la seguridad	Alcalá de Henares	19/12/2018	Epidemiology and Evaluation of Technologies, Sanitary Services and Information Systems/Maternal and Child Health	Carmen Rosa Pallás Alonso
Mª Jesús López Gude	Manejo de la Hipertensión Pulmonar Tromboembólica Crónica. Nuevas líneas de trabajo	Complutense de Madrid	01/06/2018	Cardiovascular/Heart Failure-Pulmonary Hypertension	Mª del Pilar Escribano Subiás José Mª Aguado García
Mª Encarnación Serrano Serrano	Efectividad de la intervención en tabaquismo para el abandono del consumo de tabaco en mujeres embarazadas en atención primaria: ensayo clínico aleatorizado y controlado por conglomerados	Complutense de Madrid	25/09/2018	Cardiovascular/Heart Failure-Pulmonary Hypertension	Juan de Dios García Díaz
Iria Valiño Seoane	Validación del Péptido Intestinal Vasoactivo (VIP) como biomarcador pronóstico n enfermedades reumáticas	Complutense de Madrid	02/02/2018	Inflammatory Diseases and Immune Disorders/Molecular and Cellular Bases of Rheumatic Diseases	Rosa Mª Pérez Gomáriz Yasmina Juarranz Moratilla

NAME	TITLE	UNIVERSITY	DATE DEFENDED	RESEARCH AREA/ GROUP	DIRECTOR(S)
Rocío Ramírez Muñoz	Papel regulador de Slingshot-I en la activación de linfocitos T	Complutense de Madrid	11/01/2018	Inflammatory Diseases and Immune Disorders/ Lymphocyte Immunobiology	Pedro Roda Navarro
Paloma Talayero Giménez de Azcárate	Ánalisis de la respuesta inmune local y periférica en el trasplante intestinal	Complutense de Madrid	11/12/2018	Inflammatory Diseases and Immune Disorders/ Immunodeficiencies and Immunology of Transplants	Estela Paz-Artal Mª Esther Mancebo Sierra Jorge Calvo Pulido
Mª Elena González Sánchez	Caracterización de la proteína recombinante rHc23 y mejora de su capacidad inmunizante frente a la hemoncosis ovina	Complutense de Madrid	08/11/2018	Infectious Diseases and AIDS/ Translational Research in Leishmaniasis	José Mª Alunda Rodríguez Montserrat Cuquerella Ayensa
Mª Dolores Jiménez Antón	Biodistribución y eficacia de nuevos fosfolípidos y flavonoles frente a la leishmaniosis visceral en criceto	Complutense de Madrid	17/12/2018	Infectious Diseases and AIDS/ Translational Research in Leishmaniasis	José Mª Alunda Rodríguez
Mario Fernández Ruiz	Desarrollo y validación de un modelo predictivo del riesgo de infección basado en parámetros inmunológicos en receptores de trasplante renal	Complutense de Madrid	14/03/2018	Infectious Diseases and AIDS/ Infectious Pathologies	José Mª Aguado García Francisco López Medrano
Aline Sayd Gaban	Estudio del papel regulador de los macrófagos perivasculares en modelos animales de activación inmune en sistema nervioso central (SNC)	Complutense de Madrid	17/12/2018	Neurosciences and Mental Health/ Translational Psychiatry	Juan Carlos Leza Cerro Borja García Bueno Laura Orio Ortiz
Juan de la Parra Gonzalo	Neurogénesis hipocampal adulta: papel en el deterioro cognitivo post-ictus y estrategias farmacológicas para su modulación	Complutense de Madrid	28/07/2018	Neurosciences and Mental Health/Neurovascular Research	Ignacio Lizasoain Hernández Mª Ángeles Moro Sánchez Mª Isabel Cuartero Desviat

NAME	TITLE	UNIVERSITY	DATE DEFENDED	RESEARCH AREA/ GROUP	DIRECTOR(S)
Isabel Bravo-Ferrer Álvarez-Sala	Papel del receptor de hidrocarburos aromáticos en el envejecimiento cerebral	Complutense de Madrid	13/12/2018	Neurosciences and Mental Health/Neurovascular Research	Mª Ángeles Moro Sánchez Ignacio Lizasoain Hernández Mª Isabel Cuartero Desviat
Beatriz de Lucas Moreno	Caracterización del uso de ultrasonidos en la piel	Universidad Europea	01/09/2018	Transversal Area/ Homeostasis and the Tissue Physiopathology of the Stem Cells	Beatriz González Gálvez
Mª Rocío Villegas Díaz	Hybrid Nanocarriers for the Selective Treatment of Complex Diseases / Nanotransportadores Híbridos para el Tratamiento Selectivo de Enfermedades Complejas	Complutense de Madrid	19/07/2018	Transversal Area/Research on Intelligent Biomaterials	Alejandro Baeza García
Mª Natividad Gómez Cerezo	Vidrios mesoporosos bioactivos para el tratamiento de patologías óseas	Complutense de Madrid	18/09/2018	Transversal Area/Research on Intelligent Biomaterials	Daniel Arcos Navarrete
Sandra Montalvo Quirós	Diseño, Síntesis y Evaluación de Nuevos Nanosistemas para su Aplicación en Biomedicina	Complutense de Madrid	21/09/2018	Transversal Area/Research on Intelligent Biomaterials	Blanca González Ortiz José Luis Luque García Rafael C. Prados Rosales

FINANCIAL REPORT



FINANCIAL REPORT

107

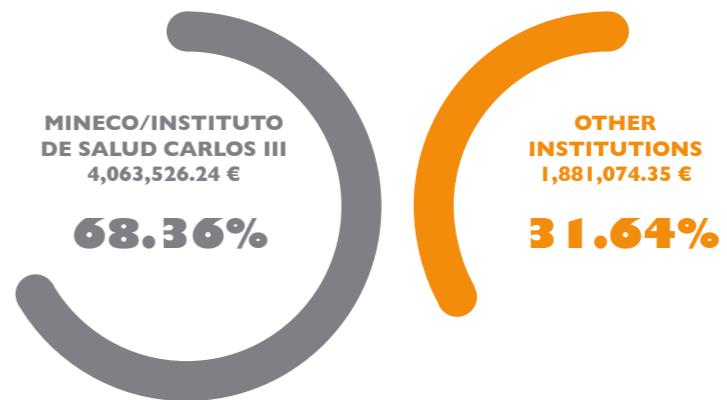


During 2018 the Instituto de Investigación Hospital 12 de Octubre obtained funding to the value of €20,410,890.37,

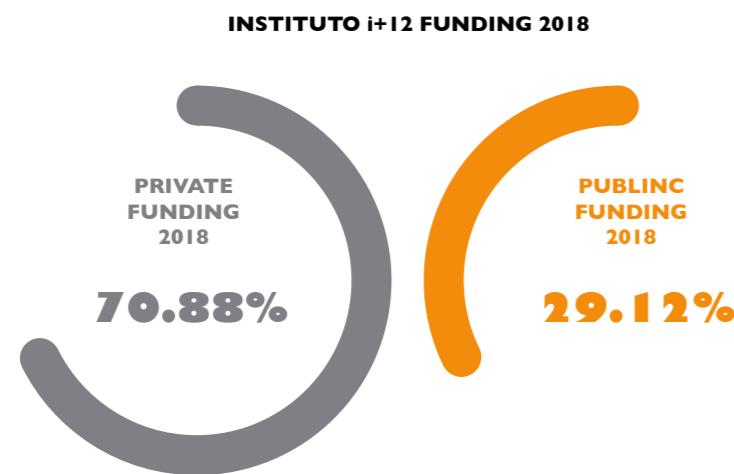
The following table shows the financial resources corresponding to the year 2018 classified by source of funding.

	INCOME 2018	% INCOME
Public Funding	5,944,600.59 €	29.12%
Private Funding	14,466,289.78 €	70.88%
Total	20,410,890.37 €	

PUBLIC FUNDING SOURCES 2018



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



The following table shows private funding obtained by Instituto i+12 in 2018 according to the source.

	PRIVATE FUNDING 2018	% PRIVATE FUNDING
Clinical Trials and Observational Studies	10,554,341.35 €	72.96%
Cotracts/Agreements/Donations	3,843,243.43 €	26.57%
Training	68,705.00 €	0.47%
Total	14,466,289.78 €	100.00%

PRIVATE FUNDING SOURCES 2018



The following table shows the distribution of public funding obtained in 2018 by Instituto i+12 according to the funding body.

	PUBLIC FUNDING 2018	% PUBLIC FUNDING
MINECO/Instituto de Salud Carlos III	4,063,526.24 €	68.36%
Other Institutions	1,881,074.35 €	31.64%
Total	5,944,600.59 €	100.00%

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: Rodríguez Peralto, José Luis

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

IMMUNOOONCOLOGY AND IMMUNOTHERAPY

LYMPHOID DIFFERENTIATION

TRANSLATIONAL BIOPHYSICS



GROUP DIRECTOR

Monroy Muñoz, Francisco

Beltrán de Heredia Rodríguez, Elena
Benavente Barzana, Mercedes
Carreras Romeo, Mª Pilar

Kharbedia, Mikheil
Maitín López, Ana Mª
Rodríguez Arriaga, Laura

Santiago García, José Antonio
Tinao Nieto, Berta

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Microfluidic-assisted fabrication of artificial micro-niches 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
- **Title:** Materia activa accionada mediante polímeros vivos biológicos: Desde la estocasticidad macroscópica a la mecánica macroscópica a través de la hidrodinámica.
Principal Investigator: Francisco Monroy Muñoz
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2016
End date: 31/12/2018
- **Title:** Diseño, desarrollo y producción de nanocontenedores y nanovehículos (NANOBIOSOMA).
Principal Investigator: Francisco Monroy Muñoz
Project No.: CAM S2013/MAT-2807
Funding Body: Comunidad de Madrid
Start date: 30/08/2015
End date: 31/09/2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	15.949
TOTAL	3	15.949

- Wang P, Dreger M, Madrazo E, Williams CJ, Samaniego R, Hodson NW, Monroy F, Baena E, Sanchez-Mateos P, Hurlstone A, Redondo-Munoz J. WDR5 modulates cell motility and morphology and controls nuclear changes induced by a 3D environment. Proceedings of the National Academy of Sciences of The United States of America. 2018;115(34): 8581-6. IF: 9.504 - Article.
- Almendro-Vedia VG, Garcia C, Ahijado-Guzman R, de la Fuente-Herrerauela D, Munoz-Ubeda M, Natale P, Vinas MH, Albuquerque RQ, Guerrero-Martinez A, Monroy F, Lillo MP, Lopez-Montero I. Supramolecular zippers elicit interbilayer adhesion of membranes producing cell death. Biochimica et Biophysica Acta-General Subjects. 2018;1862(12): 2824-34. IF: 3.679 - Article.
- Mell M, Monroy F. A gradient-based, GPU-accelerated, high-precision contour-segmentation algorithm with application to cell membrane fluctuation spectroscopy. PLoS One. 2018;13(12): e0207376. IF: 2.766 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



- 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 para la Investigación Biomédica del Hospital 12 de Octubre (20%), UCM (80%).

Date of application: 12/12/2018

TRANSLATIONAL ENERGIC METABOLISM



GROUP DIRECTOR

Cuezva Marcos, José Manuel

Chamorro Bello, Margarita
Esparza Molto, Pau Bernat
Formentini, Laura

García Aguilar, Ana
Nuevo Tapiolas, Cristina
Núñez de Arenas Flores, Cristina

Sánchez González, Cristina
Sánchez Garrido, Brenda
Santacatterina, Fulvio

Serrano Sanz, Sandra
Torresano Cicuendez, Laura

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- 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 IFI.
Principal Investigator: José Manuel Cuezva 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
- Title:** Función oncogénica de IFI, el inhibidor de la H⁺-ATP sintasa de la mitocondria.

Principal Investigator: José Manuel Cuezva Marcos
Funding Body: Fundación Ramón Areces
Start date: 01/01/2015
End date: 31/12/2018
Project managed by: UAM

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	16.973
Reviews	1	3.394
TOTAL	4	20. 367

- Esparza-Molto PB, Cuezva JM. The Role of Mitochondrial H⁺-ATP Synthase in Cancer. *Frontiers in Oncology*. 2018;8: 53. IF: 4.416 - Article.
- Santacatterina F, Torresano L, Nunez-Salgado A, Esparza-Molto PB, Olive M, Gallardo E, Garcia-Arumí E, Blazquez A, Gonzalez-Quintana A, Martin MA, Cuezva JM. Different mitochondrial genetic defects exhibit the same protein signature of metabolism in skeletal muscle of PEO and MELAS patients: A role for oxidative stress. *Free Radical Biology and Medicine*. 2018;126: 235-48. IF: 6.020 - Article.
- Prieto J, Seo AY, Leon M, Santacatterina F, Torresano L,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Palomino-Schatzlein M, Gimenez K, Vallet-Sanchez A, Ponsoda X, Pineda-Lucena A, Cuevva JM, Lippincott-Schwartz J, Torres J. MYC Induces a Hybrid Energetics Program Early in Cell Reprogramming. *Stem Cell Reports.* 2018;11(6):1479-92. IF: 6.537- Article.

- Garcia-Aguilar A, Cuevva JM. A Review of the Inhibition of the Mitochondrial ATP Synthase by IFI1 in vivo: Reprogramming Energy Metabolism and Inducing Mitohormesis. *Frontiers in Physiology.* 2018;9: 1322. IF: 3.394 - Review.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Adrián Robledo Bérgamo
Title: Drug repurposing searching for an activator of mitochondrial function
Director: José Manuel Cuevva Marcos
Master: Máster Universitario en Investigación Farmacológica (UAM)

116

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Sonia Dominguez Zorita
Title: Fenotipado del ratón "knockout" condicional de IFI1-ATP if I-/- en colon
Director: José Manuel Cuevva Marcos
Degree: Biología (UAM)



TRANSLATIONAL HAEMATOLOGY

GROUP DIRECTORS

Martínez López, Joaquín
Lahuerta Palacios, Juan José

Ayala Díaz, Rosa M ^a	Gil Sánchez, M ^a Esther	Merino González, Isabel	Rufián Vázquez, Laura
Calbacho Robles, María	González Medina, José	Míguez Mínguez, Sara	Ruiz Heredia, Yanira
Carreño Gómez-Tarragona, Gonzalo	Grande García, Carlos	Morales Fernández, M ^a Luz	Ruiz Ramírez, Raquel
Cedena Romero, M ^a Teresa	Guzmán García, Alma	Moreno Sanz, Laura	Sánchez Pérez, Ricardo
Cuenca Navarro, Isabel	Jiménez Ubieto, Ana Isabel	Morillo Vélez, Carlos	Sánchez Pina, José M ^a
de la Serna Torroba, Javier	Juárez Rufián, Alexandra	Onecha de la Fuente, M ^a Esther	Sánchez Vega, Laura
Encinas Mayoral, Jessica	Juez Gastañaga, Carolina	Onsurbe Castro, Emilia	Sánchez-Vega Carrión, Beatriz
Fernández Guijarro, Manuela	Leivas Aldea, Alejandra	Ortiz Ruiz, Alejandra	Santos Molina, Elena
Gallardo Delgado, Miguel	Linares Gómez, María	Portasany Trovo, M ^a del Pilar	Torrero Alia, María
García Baquero, Irene	Maroto Martín, Elena	Rapado Martínez, M ^a Inmaculada	Valeri Lozano, Antonio
García Ortiz, Almudena	Martín Ramos, M ^a Luisa	Redondo Velao, Sara	
Garrido García, Vanesa	Martínez Sánchez, M ^a Pilar	Rivero Ruiz, Ana	
	Mateos Gómez, Rebeca	Rodríguez Izquierdo, Antonia	

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS	
Competitive	ISCIII	4	
Competitive	AECC	1	
Competitive	Fundación Investigación Médica Aplicada	1	
Noncompetitive	Various	10	
	TOTAL	16	

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

Principal Investigator: Rosa M^a Ayala Díaz
Project No.: PI16/01530
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019

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

Principal Investigator: M^a 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

117

- Title:** Evaluación ultra-sensible de enfermedad residual como biomarcador de curabilidad en dos modelos de mieloma múltiple (sintomático y quiescente de alto riesgo).
Principal Investigator: Juan José Lahuerta Palacios
Project No.: PI15/02062
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- Title:** Estrategias de nueva generación para la caracterización molecular global del Clon Tumoral en el mieloma múltiple: implicaciones en diagnóstico clínico y patogenia de la enfermedad.
Principal Investigator: Joaquín Martínez López
Project No.: PI15/01484
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- 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: 31/11/2023
- Title:** Heterogeneidad evolutiva del mieloma múltiple como reflejo de resistencia tumoral: proyecto basado en dos ensayos multicéntricos nacionales.
Principal Investigator: Juan José Lahuerta Palacios
Funding Body: Fundación Científica de la Asociación Española contra el Cáncer
Start date: 14/09/2012
End date: 31/05/2018
- Title:** Secuenciación masiva profunda para el análisis de mutaciones en el dominio quinasa de la proteína químérica BCR/ABL1 en pacientes con LLAY 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:** Búsqueda de nuevas dianas terapéuticas en Oncohematología.
Principal Investigator: Joaquín Martínez López
Funding Body: Fundación Investigación CRIS contra el cáncer
Start date: 2/01/2015
End date: 31/12/2017, extended to 31/01/2018
- Title:** Programa de Mieloma Múltiple. 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:** Proyecto "ENLACE".
Principal Investigator: Joaquín Martínez López
Funding Body: Celgene, S. L.
Start date: 20/12/2017
End date: 31/03/2019
- Title:** Effect of IMIDS over NK cells and activated and expanded NK cells in multiple myeloma.
Principal Investigator: Joaquín Martínez López
Funding Body: Celgene, S. L.
Start date: 01/12/2016
End date: 30/11/2018
- 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:** Programa de investigación clínica y recogida de datos clínicos en Oncohematología.
Principal Investigator: Juan José Lahuerta Palacios
Funding Body: Amgen, S.A.
Start date: 01/05/2015
End date: 30/04/2018, extended to 30/11/2018
- 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 01/06/2019

- Title:** Estudio mutaciones con interés pronóstico en el linfoma folicular, biopsia líquida mediante el repertorio del análisis inmunglobinas en combinación con la PET/TC.
Principal Investigator: Ana Isabel Jimenez Ubieto
Funding Body: Roche Farma, S.A.
Start date: 16/05/2018
End date: 15/05/2019

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	34	269.859
Reviews	3	36.003
Editorials	1	4.136
TOTAL	38	309.998
Letters	5	33.866
TOTAL	43	343.864

- Martínez-Cuadrón D, Montesinos P, Vellenga E, Bernal T, Salamero O, Holowiecka A, Brunet S, Gil C, Benavente C, Ribera JM, Pérez-Encinas M, De la Serna J, Esteve J, Rubio V, González-Campos J, Escoda L, Amutio ME, Arnan M, Arias J, Negri S, Lowénberg B, Sanz MA. Long-term outcome of older patients with newly diagnosed de novo acute promyelocytic leukemia treated with ATRA plus anthracycline-based therapy. *Leukemia*. 2018;32(1): 21-9. IF: 10.023 - Article.
- Rawstron AC, Kreuzer KA, Soosaipilla A, Spacek M, Stehlíková O, Gambell P, McIver-Brown N, Villamor N, Psarra K, Arroz M, Milani R, de la Serna J, Cedena MT, Jaksic O, Nomdedeu J, Moreno C, Rigolin GM, Cuneo A, Johansen P, Johnsen HE, Rosenquist R, Niemann CU, Kern W, Westerman D, Trneny M, Mulligan S, Doubek M, Pospisilova S, Hillmen P, Oscier D, Hallek M, Ghia P,Montserrat E. Reproducible diagnosis of chronic lymphocytic leukemia by flow cytometry: An European Research Initiative on CLL (ERIC) & European Society for Clinical Cell Analysis (ESCCA) Harmonisation project. *Cytometry Part B-Clinical Cytometry*. 2018; 94(1): 121-8. IF: 2.757 - Article.
- Ortiz-Ruiz A, Postigo M, Gil-Casanova S, Cuadrado D, Bautista JM, Rubio JM, Luengo-Oroz M, Linares M. Plasmodium species differentiation by non-expert on-
- line volunteers for remote malaria field diagnosis. *Malaria Journal*. 2018;17(1): 54. IF: 2.845 - Article.
- Giraldo P, Andrade-Campos M, Alfonso P, Irun P, Atutxa K, Acedo A, Barez A, Blanes M, Diaz-Morant V, Fernandez-Galan MA, Franco R, Gil-Cortes C, Giner V, Ibañez A, Latre P, Loyola I, Luño E, Hernandez-Martin R, Medrano-Engay B, Puerta J, Roig I, de la Serna J, Salamero O, Villalon L, Pocovi M. Twelve years of experience with miglustat in the treatment of type I Gaucher disease: The Spanish ZAGAL project. *Blood Cells Molecules and Diseases*. 2018;68: 173-9. IF: 1.836 - Article.
- Dols-Icardo O, Garcia-Redondo A, Rojas-Garcia R, Borrego-Hernandez D, Illan-Gala I, Muñoz-Blanco JL, Rabano A, Cervera-Carles L, Juarez-Rufian A, Spataro N, De Luna N, Galan L, Cortes-Vicente E, Fortea J, Blesa R, Grau-Rivera O, Lleo A, Esteban-Perez J, Gelpi E, Clarimon J. Analysis of known amyotrophic lateral sclerosis and frontotemporal dementia genes reveals a substantial genetic burden in patients manifesting both diseases not carrying the C9orf72 expansion mutation. *Journal of Neurology Neurosurgery and Psychiatry*. 2018;89(2): 162-8. IF: 7.144 - Article.
- Alencar N, Sola I, Linares M, Juarez-Jimenez J, Pont C, Viayna A, Vilchez D, Sampedro C, Abad P, Perez-Benavente S, Lameira J, Bautista JM, Muñoz-Torrero D, Luque FJ. First homology model of *Plasmodium falciparum* glucose-6-phosphate dehydrogenase: Discovery of selective substrate analog-based inhibitors as novel antimalarial agents. *European Journal of Medicinal Chemistry*. 2018;146: 108-22. IF: 4.816 - Article.
- Seymour JF, Kipps TJ, Eichhorst B, Hillmen P, D'Rozario J, Assouline S, Owen C, Gerecitano J, Robak T, De la Serna J, Jaeger U, Cartron G, Montillo M, Humerickhouse R, Punnoose EA, Li Y, Boyer M, Humphrey K, Mobasher M, Kater AP. Venetoclax-Rituximab in Relapsed or Refractory Chronic Lymphocytic Leukemia. *New England Journal of Medicine*. 2018;378(12): 1107-20. IF: 79. 258 - Article.
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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Misiewicz-Krzeminska I, Corchete LA, Rojas EA, Martinez-Lopez J, Garcia-Sanz R, Oriol A, Blade J, Lahuerta JJ, Miguel JS, Mateos MV, Gutierrez NC. A novel nano-immunoassay method for quantification of proteins from CD138-purified myeloma cells: biological and clinical utility. *Haematologica*. 2018;103(5): 880-9. IF: 9.090 - Article.
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- Hernandez-Boluda JC, Pereira A, Correa JG, Alvarez-Larran A, Ferrer-Marín F, Raya JM, Martinez-Lopez J, Velez P, Perez-Encinas M, Estrada N, Garcia-Gutierrez V, Fox ML, Payer A, Kerguelen A, Cuevas B, Duran MA, Ramirez MJ, Gomez-Casares MT, Mata-Vazquez MI, Mora E, Gomez M, Cervantes F. Prognostic risk models for transplant decision-making in myelofibrosis. *Annals of Hematology*. 2018;97(5): 813-20. IF: 2.845 - Article.
- Martínez-Cuadrón D, Boluda B, Martínez P, Bergua J, Rodríguez-Veiga R, Esteve J, Vives S, Serrano J, Vidriales B, Salamero O, Cordón L, Sempere A, Jiménez-Ubieto A, Prieto-Delgado J, Díaz-Beyá M, Garrido A, Benavente C, Pérez-Simón JA, Moscardó F, Sanz MA, Fernández PM; CETLAM and PETHEMA groups. A phase I-II study of plerixafor in combination with fludarabine, idarubicin, cytarabine, and G-CSF (PLERIFLAG regimen) for the treatment of patients with the first early-relapsed or refractory acute myeloid leukemia. *Annals of Hematology*. 2018;97(5): 763-72. IF: 2.845 - Article.
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 - Hernandez-Boluda JC, Pereira A, Correa JG, Alvarez-Larran A, Ferrer-Marín F, Raya JM, Martinez-Lopez J, Pérez-Encinas M, Estrada N, Velez P, Fox ML, García-Gutiérrez V, Payer A, Kerguelen A, Cuevas B, Durán MA, Ramírez MJ, Gómez-Casares MT, Mata-Vázquez MI, Mora E, Martínez-Valverde C, Gómez M, Cervantes F. Performance of the myelofibrosis secondary to PV and ET-prognostic model (MYSEC-PM) in a series of 262 patients from the Spanish registry of myelofibrosis. *Leukemia*. 2018;32(2): 553-5. IF: 10.023 - Letter.

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- Martínez-Laperche C, Kwon M, Franco-Villegas AC, Chillón MC, Castro N, Anguita E, Dolz S, Rodríguez-Medina C, Hermosín L, Bellón JM, Prieto-Conde MI, Barragán E, Gómez-Casares M, Ayala R, Martínez-López J, González-Díaz M, Díez-Martín JL, Buño I; Cooperative Group for Molecular Biology in Haematology (GBMH). Wilms Tumor 1 gene expression levels improve risk stratification in AML patients. Results of a multicentre study within the Spanish Group for Molecular Biology in Haematology. *British Journal of Haematology*. 2018;181(4): 542-6. IF: 5.128 - Letter.
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THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Alicia Canal López
Title: Señalización hgf/met como diana terapéutica en pacientes con mieloma múltiple
Director/s: Joaquín Martínez López, Daniel Rueda Fernández
Date Defended: 16/11/2018
University: Universidad Complutense de Madrid

- Candidate: Mª Esther Onecha de la Fuente
Title: Implicaciones clínicas de la detección de mutaciones recurrentes mediante secuenciación masiva en leucemia mieloide aguda y correlación con la sensibilidad a fármacos antileucemia
Director/s: Joaquín Martínez López, Rosa Mª Ayala Díaz
Date Defended: 11/12/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student: Laura Mª Ros Alcoba
Title: Valor pronóstico de la EMR por secuenciación masiva y del PET-TC durante el tratamiento de mieloma
Directors: Beatriz Sánchez-Vega Carrión, Joaquín Martínez López
Master: Máster en Investigación en Medicina Traslacional, Oncología y Biología del Cáncer (UCM)

- Student: Blanca Luis Sánchez
Title: Marcadores asociados a la enfermedad mieloide y su respuesta frente a fármacos
Director: Rosa Mª Ayala Díaz, María Linares
Master: Máster en Bioquímica, Biología molecular y Biomedicina (UCM)

- Student: Jessica Encinas Mayoral
Title: Optimización de la inmunoterapia NK mediante la expresión del receptor químérico de antígeno (CAR) de NKG2D. Análisis de eficacia de poblaciones efectoras y búsqueda de mecanismos de resistencia a la terapia NK CAR.
Director: Antonio Valeri, Joaquín Martínez López
Master: Máster en Investigación en Medicina Traslacional, Servicios Sanitarios/Ciencias de la Salud General

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

Number: I5932272.

Type: USA divisional application.

Inventors: Joaquín Martínez López, Rosa Mª Ayala Díaz, Santiago Barrio García, Carlos Marín Sebastián, Inmaculada Rapado Martínez, Beatriz Sánchez Vega Carrión.

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).

Date of application: 16/02/2018

- Title:** Método para cuantificar el nivel de Enfermedad Mínima Residual en un sujeto.

Number: I4932267.

Type: USA patent.

Inventors: Santiago Barrio García, Joaquín Martínez López, Carlos Marín Sebastián, María Inmaculada Rapado Martínez, Rosa Mª Ayala Díaz, Beatriz Sánchez Vega Carrión.

Owner: 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 Mª Ayala Díaz, Beatriz Sánchez Vega Carrión.

Owner: 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 para luchar contra el cáncer (50%).

Spanish Patent Application No.: P201330446.

Date of application: 26/03/2013

NEURO-ONCOLOGY



GROUP DIRECTOR

Hernández Laín,Aurelio

Cantero Montenegro, Diana
González León, Pedro Juan
Gutierrez Guaman, Myriam Jacqueline
Hilario Barrio,Amaya
Jiménez Roldán, Luis

Millán Juncos, José Mª
Pérez Núñez, Ángel
Pérez-Regadera Gómez,José Fermín
Ramos González,Ana
Rodríguez González,Virginia

Ruano Domínguez,Yolanda
Ruiz Morales,Juan
Sánchez Gómez,Pilar
Sepúlveda Sánchez,Juan Manuel
Toldos González,Óscar

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	1
Competitive	FundaciónEspañola Oncología Médica	1
Competitive	AECC	1
Noncompetitive	Various	2
TOTAL		5

- 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 (ISCIII).

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.

Funding Body: Asociación Española Contra el Cáncer-Instituto Investigación Oncología Vall D'Hebron (AECC).

Start date: 16/11/2017

End date: 15/11/2020

- Title:** Efecto de inhibidores de proteínas IDP ("Intrinsically Disordered Proteins") sobre el crecimiento y la supervivencia de células gliales.

Principal Investigator: Juan Manuel Sepúlveda Sánchez.

Funding Body: IDP Discovery Pharma, S. L.

Start date: 01/03/2017

End date: 31/05/2017, extended to 31/12/2018

- Title:** Efecto de Ocoxin+Viusid sobre el crecimiento y supervivencia de los tumores gliales.

Principal Investigator: Juan Manuel Sepúlveda Sánchez.

Funding Body: Catalysis, S. L.

Start date: 31/03/2016

End date: 31/10/2016, extended to 30/06/2018

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Resistencia mediada por el microambiente en glioblastoma: caracterización de su relevancia biológica y propuesta de aproximaciones terapéuticas sinérgicas.
Principal Investigator: Pilar Sánchez Gómez.
Project No.: SAF2015-65175-R.
Funding Body: Ministerio de Economía, Industria y Competitividad (MINECO).
Start date: 2016
End date: 2018
- 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 2017)
Articles	22	95.434
Editorials	1	7.609
TOTAL	23	103.043
Letters	1	1.938
TOTAL	24	104.981

- Balañá C, Alonso M, Hernandez A, Perez-Segura P, Pineda E, Ramos A, Sanchez AR, Teixidor P, Verger E, Benavides M. SEOM clinical guidelines for anaplastic gliomas (2017). *Clinical & Translational Oncology.* 2018;20(1): 16-21. IF: 2.392 - Article.
- Gallardo E, Mendez-Vidal MJ, Perez-Gracia JL, Sepulveda-Sanchez JM, Campayo M, Chirivella-Gonzalez I, Garcia-del-Muro X, Gonzalez-Del-Alba A, Grande E, Suarez C. SEOM clinical guideline for treatment of kidney cancer (2017).

- Clinical & Translational Oncology. 2018;20(1): 47-56. IF: 2.392 - Article.
- Sepulveda-Sanchez JM, Munoz Langa J, Arraez MA, Fuster J, Hernandez Lain A, Reyes G, Rodriguez Gonzalez V, Vicente E, Vidal Denis M, Gallego O. SEOM clinical guideline of diagnosis and management of low-grade glioma (2017). *Clinical & Translational Oncology.* 2018;20(1):3-15. IF: 2.392 - Article.
 - Carretero-Gonzalez A, Lora D, Ghanem I, Zugazagoitia J, Castellano D, Sepulveda JM, Lopez-Martin JA, Paz-Ares L, de Velasco G. Analysis of response rate with ANTI PD1/PD-L1 monoclonal antibodies in advanced solid tumors: a meta-analysis of randomized clinical trials. *Oncotarget.* 2018;9(9): 8706-15. IF: 5.168 - Article.
 - Munarriz PM, Paredes I, Alen JF, Castaño-Leon AM, Cepeda S, Hernandez-Lain A, Lagares A. Assessment of the correlation between histological degeneration and radiological and clinical parameters in a series of patients who underwent lumbar disc herniation surgery. *Neurocirugia (Astur).* 2018; 29(2): 79-85. IF: 0.31 - Article.
 - Garrido MC, Maroñas-Jiménez L, Morales-Raya C, Ruano Y, Rodriguez-Peralto JL. Acquisition of Somatic NRAS Mutations in Central Nervous System Melanocytes: A Predisposing Risk Factor to Primary Melanoma of the Central Nervous System, a Frequently Forgotten Pitfall in Congenital Nevi. *American Journal of Dermatopathology.* 2018;40(7): 506-10. IF: 1.210 - Article.
 - Priego N, Zhu L, Monteiro C, Mulders M, Wasilewski D, Bindeman W, Doglio L, Martinez L, Martinez-Saez E, Cajal SRY, Megias D, Hernandez-Escuin E, Blanco-Aparicio C, Martinez L, Zarzuela E, Munoz J, Fustero-Torres C, Pineiro E, Hernandez-Lain A, Bertero L, Poli V, Sanchez-Martinez M, Menendez JA, Soffietti R, Bosch-Barrera J, Valiente M. STAT3 labels a subpopulation of reactive astrocytes required for brain metastasis. *Nature Medicine.* 2018;24(7): 1024-35. IF: 32.621 - Article.
 - Cabrera-Serrano M, Mavillard F, Biancalana V, Rivas E, Morar B, Hernandez-Lain A, Olive M, Muelas N, Khan E, Carvajal A, Quiroga P, Diaz-Manera J, Davis M, Avila R, Dominguez C, Romero NB, Vilchez JJ, Comas D, Laing NG, Laporte J, Kalaydjieva L, Paradas C. A Roma founder BINI mutation causes a novel phenotype of centronuclear myopathy with rigid spine. *Neurology.* 2018;91(4): 339-48. IF: 7.609 - Article.
 - Thust SC, Heiland S, Falini A, Jager HR, Waldman AD, Sundgren PC, Godi C, Katsaros VK, Ramos A, Bargallo N, Vernooij MW, Yousry T, Bendszus M, Smits M. Glioma imaging in Europe: A survey of 220 centres and recommendations for best clinical practice. *European Radiology.* 2018;28(8): 3306-17. IF: 4.027 - Article.
 - Cantero D, Rodríguez de Lope Á, Moreno de la Presa R, Sepúlveda JM, Borrás JM, Castresana JS, D'Haene N, García JF, Salmon I, Mollejo M, Rey JA, Hernández-Lain A, Meléndez B. Molecular Study of Long-Term Survivors of Glioblastoma by Gene-Targeted Next-Generation Sequencing. *Journal of Neuropathology and Experimental Neurology.* 2018; 77(8): 710-6. IF: 3.490 - Article.
 - Gonzalo-Gil E, García-Herrero C, Toldos O, Usategui A, Criado G, Perez-Yague S, Barber DF, Pablos JL, Galindo M. Microthrombotic Renal Vascular Lesions Are Associated to Increased Renal Inflammatory Infiltration in Murine Lupus Nephritis. *Frontiers in Immunology.* 2018;9: 1948. IF: 5.511 - Article.
 - Boyano I, Ramos A, Lopez-Alvarez J, Mendoza-Rebolledo C, Osa-Ruiz E, Rodriguez I, Perez A, Alfayate E, Gonzalez B, Fernandez L, Aguera-Ortiz L, Rabano A, Olazaran J. Cerebral Microbleeds in Advanced Dementia: Clinical and Pathological Correlates. *American Journal of Alzheimers Disease and Other Dementias.* 2018;33(6): 362-72. IF: 1.602 - Article.
 - Hernandez-Lain A, Hilario A, Sepulveda JM, Cantero D, Ramos A, Perez-Nunez A. Tumor cell vanishing with radiological changes suggesting progression in IDH-mutated diffuse astrocytoma treated only with surgery. *Clinical Neuropathology.* 2018;37(5): 217-20. IF: 1.015 - Article.
 - Castano-Leon AM, Cicuendez M, Navarro B, Munarriz PM, Cepeda S, Paredes I, Hilario A, Ramos A, Gomez PA, Lagares A. What Can Be Learned from Diffusion Tensor Imaging from a Large Traumatic Brain Injury Cohort?: White Matter Integrity and Its Relationship with Outcome. *Journal of Neurotrauma.* 2018;35(20): 2365-76. IF: 5.002 - Article.
 - Sepulveda JM, Sanchez-Gomez P, Vaz Salgado MA, Gargini R, Balana C. Dacomitinib: an investigational drug for the treatment of glioblastoma. *Expert Opinion on Investigational Drugs.* 2018;27(10): 823-9. IF: 3.883 - Article.
 - Prieto-Barrios M, Llamas-Martin R, Velasco-Tamariz V, Calleja-Algarra A, Ruano Y, Ortiz-Romero PL, Rodriguez-Peralto JL. Phacomatoses pigmentokeratotica: a case of HRAS mosaicism causing rhabdomyosarcoma. *British Journal of Dermatology.* 2018;179(5): 1163-7. IF: 6.129 - Article.
 - Lopez-Valero I, Torres S, Salazar-Roa M, Garcia-Taboada E, Hernandez Tiedra S, Guzman M, Sepulveda JM, Velasco G, Lorente M. Optimization of a preclinical therapy of cannabinoids in combination with temozolamide against glioma. *Biochemical Pharmacology.* 2018;157: 275-84. IF: 4.235 - Article.
 - Lopez-Valero I, Saiz-Ladera C, Torres S, Hernandez Tiedra S, Garcia-Taboada E, Rodriguez-Fornes F, Barba M, de Leon DD, Salvador-Tormo N, Guzman M, Sepulveda JM, Sanchez P, Lorente M, Velasco G. Targeting Glioma Initiating Cells with A combined therapy of cannabinoids and temozolamide. *Biochemical Pharmacology.* 2018;157: 266-74. IF: 4.235 - Article.
 - Cantero D, Hernandez-Lain A, Martinez JFG, Perez MR, Ruano Y, Lleixa C, Gallardo E, Dominguez-Gonzalez C. Milder forms of alpha-sarcoglycanopathies diagnosed in adulthood by NGS analysis. *Journal of the Neurological Sciences.* 2018;394: 63-7. IF: 2.448 - Article.
 - Balana C, Estival A, Teruel I, Hardy-Werbin M, Sepulveda J, Pineda E, Martinez-Garcia M, Gallego O, Luque R, Gil-Gil M, Mesia C, Del Barco S, Herrero A, Berrocal A, Perez-Segura P, De Las Penas R, Marruecos J, Fuentes R, Reyes G, Velarde JM, Cardona A, Verger E, Panciroli C, Villa S. Delay in starting radiotherapy due to neoadjuvant therapy does not worsen survival in unresected glioblastoma patients. *Clinical & Translational Oncology.* 2018;20(12): 1529-37. IF: 2.392 - Article.
 - Caries J, Castellano D, Mendez-Vidal MJ, Mellado B, Saez MI, del Alba AG, Perez-Gracia JL, Jimenez J, Suarez C, Sepulveda JM, Manneh R, Porras I, Lopez C, Morales-Barrera R, Arranz JA. Circulating Tumor Cells as a Biomarker of Survival and Response to Radium-223 Therapy: Experience in a Cohort of Patients With Metastatic Castration-Resistant Prostate Cancer. *Clinical Genitourinary Cancer.* 2018;16(6): 1133-9. IF: 2.539 - Article.
 - Gascon N, Perez-Montero H, Guardado S, D'Ambrosi R, Cabeza MA, Perez-Regadea JF. Dural Plasmacytoma with Meningeal Myelomatosis in a Patient with Multiple Myeloma. *Case Reports in Hematology.* 2018;2018: 6730567. IF: N/A - Article.
 - Panades-de Oliveira L, Mendez-Guerrero A, Lopez-Blanco R, Alvarez ES, Morales JR, de la Aleja JG. Teaching Video NeuroImages: Delayed hemibody myorhythmia and palatal myoclonus after vertebrobasilar stroke. *Neurology.* 2018;90(6): 542-3. IF: 7.609 - Editorial Material.
 - López-Blanco R, Guerrero-Molina MP, González-de la Aleja J, Ruiz-Morales J. Acute Pisa syndrome secondary to betahistine treatment in a patient with mild cognitive impairment. *Neurologia.* 2018;33(3): 204-5. IF: 1.938 - Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

CUTANEOUS ONCOLOGY



GROUP DIRECTOR

Rodríguez Peralto, José Luis

Blanco García Leyla, Patricia
Cubo Martínez, Rocío
Enguita Valls, Ana Belén
García Martín, Rosa M^a

Garrido Ruiz, M^a Concepción
Hernández Marcos, Susana
Maroñas Jiménez, Lidia
Maroto Pérez, Alicia

Monsálvez Honrubia, Verónica
Onteniente Gomis, M^a del Mar
Ortiz Romero, Pablo Luis
Postigo Llorente, Concepción

Riveiro Meireles, Érica
Sánchez-Arévalo Lobo, Víctor
Trento Martino, M^a Alfonsina

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	4
Competitive	AECC	1
Noncompetitive	Various	7
TOTAL		12

- 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 traslacional 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: 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: 1/07/2015
End date: 30/06/2020
- Title:** Determinación del estado mutacional de los biomarcadores RAS y BRAF en pacientes con cancer colorrectal

metastásico antes de la primera linea de tratamiento.
Principal Investigator: José Luis Rodríguez Peralto
Funding Body: Merck, S. L. U.
Start date: 30/07/2017
End date: 31/012/2018

- 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:** Estudio de la evolución de los CTDNA en biopsia líquida en pacientes con tumor de pulmón de nuevo diagnóstico mediante el KIT CLART® CMA EGFR

Principal Investigator: José Luis Rodríguez Peralto
Funding Body: Genomicica, S.A. U.
Start date: 30/01/2017
End date: 30/06/2018

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

Principal Investigator: José Luis Rodríguez Peralto
Funding Body: AstraZeneca 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 19/02/2019

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

Principal Investigator: José Luis Rodríguez Peralto
Funding Body: Genomicica, S.A. U.
Start date: 01/01/2016
End date: 31/12/2018

- 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: AstraZeneca Farmaceutica Spain, S.A.
Start date: 31/10/2013
End date: 30/10/2016, extended to 24/04/2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	17	107.078
Reviews	1	7.191
Editorials	1	1.156
TOTAL	19	115.425
Letters	9	34.252
TOTAL	28	160.649

- Fernandez-Flores A, Riveiro-Falkenbach E, Cassarino DS. Myxoid Spitz Nevus: Report of 6 Cases. American Journal of Dermatopathology. 2018;40(1): 30-5. IF: 1.210 - Article.
- Zugazagoitia J, Rueda D, Carrizo N, Enguita AB, Gómez-Sánchez D, Díaz-Serrano A, Jiménez E, Mérida A, Calero R, Lujan R, De Miguel E, Gámez P, Díaz-Hellín V, Nuñez JA, Iglesias L, Ferrer I, Paz-Ares L, Ponce-Aix S. Prospective Clinical Integration of an Amplicon-Based Next-Generation Sequencing Method to Select Advanced Non-Small-Cell Lung Cancer Patients for Genotype-Tailored Treatments. Clinical Lung Cancer. 2018;19(1): 65-73. e7. IF: 4.204 - Article.
- Velasco-Tamariz V, Prieto-Barrios M, Tous-Romero F, Palencia-Perez SI, Postigo-Llorente C. Urticular vasculitis after meningococcal serogroup B vaccine in a 6-year-old girl. Pediatric Dermatology. 2018;35(1): 64-5. IF: 1.041 - Article.
- Navas Tejedor P, Palomino Doza J, Tenorio Castano JA, Enguita Valls AB, Rodriguez Reguero JJ, Martinez Menaca A, Hernandez Gonzalez I, Bueno Zamora H, Lapunzina Badia PD, Escribano Subias P. Variable Expressivity of a Founder Mutation in the EIF2AK4 Gene in Hereditary Pulmonary Veno-occlusive Disease and Its Impact on Survival. Revista Espanola de Cardiologia. 2018;71(2): 86-94. IF: 5.166 - Article.
- Prieto-Barrios M, Velasco-Tamariz V, Tous-Romero F, Burillo-Martinez S, Zarco-Olivio C, Rodriguez-Peralto JL, Ortiz-Romero PL. Linear immunoglobulin A dermatosis mimicking

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

toxic epidermal necrolysis: a case report of etanercept treatment. *British Journal of Dermatology*. 2018;178(3): 786-9. IF: 6.129 - Article.

• Fernández-de-Misa R, Hernández-Machín B, Servitje O, Valentí-Medina F, Maroñas-Jiménez L, Ortiz-Romero PL, Sánchez Schmidt J, Pujol RM, Gallardo F, Pau-Charles I, García Muret MP, Pérez Gala S, Román C, Cañuelo J, Blanch Rius L, Izquierdo R, Ortiz-Brugués A, Martí RM, Blanes M, Morillo M, Sánchez P, Peñate Y, Bastida J, Pérez Gil A, Lopez-Lerma I, Muniesa C, Estrach T. First-line treatment in lymphomatoid papulosis: a retrospective multicentre study. *Clinical and Experimental Dermatology*. 2018;43(2): 137-43. IF: 1.484 - Article.

• Almendros I, Martinez-Garcia MA, Campos-Rodriguez F, Riveiro-Falkenbach E, Rodriguez-Peralto JL, Nagore E, Martorell-Calatayud A, Hernandez Blasco L, Banuls Roca J, Chiner Vives E, Sanchez-de-la-Torre A, Abad-Capa J, Montserrat JM, Perez-Gil A, Cabriada-Nuno V, Cano-Pumarega I, Corral-Penaflor J, Diaz-Cambriles T, Mediano O, Dalmau-Arias J, Farre R, Gozal D; Spanish Sleep Network. Intermittent Hypoxia Is Associated With High Hypoxia Inducible Factor-1 alpha but Not High Vascular Endothelial Growth Factor Cell Expression in Tumors of Cutaneous Melanoma Patients. *Frontiers in Neurology*. 2018;9: 272. IF: 3.508 - Article.

• Manso R, Martinez-Magunacelaya N, Erana-Tomas I, Monsalvez V, Rodriguez-Peralto JL, Ortiz-Romero PL, Santonja C, Cristobal I, Piris MA, Rodriguez-Pinilla SM. Mycosis fungoides progression could be regulated by microRNAs. *Plos One*. 2018;13(6): e0198477. IF: 2.766 - Article.

• Garrido MC, Maroñas-Jiménez L, Morales-Raya C, Ruano Y, Rodriguez-Peralto JL. Acquisition of Somatic NRAS Mutations in Central Nervous System Melanocytes: A Predisposing Risk Factor to Primary Melanoma of the Central Nervous System, a Frequently Forgotten Pitfall in Congenital Nevi. *American Journal of Dermatopathology*. 2018;40(7): 506-10. IF: 1.210 - Article.

• Villegas MR, Baeza A, Usategui A, Ortiz-Romero PL, Pablos JL, Vallet-Regi M. Collagenase nanocapsules: An approach to fibrosis treatment. *Acta Biomaterialia*. 2018;74: 430-8. IF: 6.383 - Article.

• Santos-Briz A, Calle A, Lino K, Semans B, Carlson A, Sangueza OP, Metze D, Cerroni L, Diaz-Recuero JL, Alegria-Landa V, Mascaro JM, Moreno C, Rodriguez-Peralto JL, Requena L. Dermatomyositis panniculitis: a clinicopathological and immunohistochemical study of 18 cases. *Journal of The European Academy of Dermatology and Venereology*.

2018;32(8): 1352-9. IF: 4.287 - Article.

• Millares L, Barreiro E, Cortes R, Martinez-Romero A, Balcells C, Cascante M, Enguita AB, Alvarez C, Rami-Porta R, Sanchez de Cos J, Seijo L, Monso E; Grupo Colaborativo en Cancer de Pulmon CIBERES- CIBERONC- SEPAR - Plataforma Bio. Tumor-associated metabolic and inflammatory responses in early stage non-small cell lung cancer: Local patterns and prognostic significance. *Lung Cancer*. 2018;122: 124-30. IF: 4.486 - Article.

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- Prieto-Barrios M, Rodriguez-Peralto JL, Vico-Alonso C, Velasco-Tamariz V, Calleja-Algarra A, Ortiz-Romero PL, Rivera-Diaz R. Injection-site reaction to ixekizumab histologically mimicking lupus tumidus: Report of two cases. Indian Journal of Dermatology Venereology & Leprology. 2018;84(5): 610-3. IF: 2.229 - Letter.
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- Flores L, Burillo-Martinez S, Rodriguez Peralto JL, Rivera-Diaz R. Acquired Dermal Melanocytosis on the Back of a Patient with Psoriasis. Actas Dermo-Sifiliograficas. 2018;109(9): 839-41. IF: N/A - Letter.

PATENTS

- 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



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ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	5
Competitive	FMM	1
Competitive	AECC	1
Competitive	Fundación Eugenio Rodríguez Pascual	1
Noncompetitive	Various	6
TOTAL		14

- Title:** Caracterización molecular e inmune 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.: DTS17/00089

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

- 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

- 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

- **Title:** Papel de la vía de IL-11 en la tumorigénesis y su posible utilidad como diana terapéutica en el adenocarcinoma de pulmón.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez

Project No.: PI14/01964

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 23/10/2015

End date: 31/12/2017, extended to 30/06/2018

- **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 Mutua Madrileña (FMM)

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:** Caracterización del perfil inmunológico del cáncer de pulmón y búsqueda y validación de biomarcadores predictivos de beneficio ante el tratamiento con inmunoterapia.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez

Funding Body: Fundación Eugenio Rodríguez Pascual

Start date: 01/01/2018

End date: 25/12/2018

- **Title:** Comprehensive molecular and immune characterization of non-small-cell lung cancer (NSCLC) as foundation for tailored immunotherapy approaches.

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:** Proyecto desde una aproximación multidisciplinar a la atención integral al paciente oncológico.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez

Funding Body: Boehringer Ingelheim España, S.A.

Start date: 08/03/2016

End date: 07/03/2017, extended to 31/03/2018

- **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: 26/10/2016

End date: 25/10/2017, extended to 28/06/2018

- **Title:** Señalización ligada a interleuquina 11 (IL-11): papel en la tumorigénesis y utilidad como diana terapéutica en el adenocarcinoma de pulmón.

Principal Investigator: Luis Gonzaga Paz-Ares Rodríguez

Funding Body: Amgen, S.A.

Start date: 10/03/2016

End date: 30/07/2018

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Terapias personalizadas y nanotecnología en cáncer de pulmón.

Principal Investigator: Marcos Malumbres, Mariano Barbacid, Francisco Javier Tamayo de Miguel, Luis Paz-Ares Rodríguez, Fernando López Ríos, Irene Ferrer Sánchez

Funding Body: Comunidad de Madrid

Start date: 01/01/2018

End date: 31/12/2021

- **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 Rodriguez, 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 2017)
Articles	37	460. 155
Reviews	9	62. 368
TOTAL	46	522. 523
Letters	3	98. 466
TOTAL	49	620. 989

Carballal S, Maisterra S, López-Serrano A, Gimeno-García AZ, Vera MI, Marín-Garbiel JC, Díaz-Tasende J, Márquez L, Álvarez MA, Hernández L, De Castro L, Gordillo J, Puig I, Vega P, Bustamante-Balén M, Acevedo J, Peñas B, López-Cerón M, Ricart E, Cuatrecasas M, Jimeno M, Pellisé M; EndoCAR group of the Spanish Gastroenterological Association and Spanish Digesti. Real-life chromoendoscopy for neoplasia detection and characterisation in long-standing IBD. Gut. 2018;67(1): 70-8. IF: 17.016 - Article.

Conde E, Camino A, Dominguez C, Calles A, Walter S, Angulo B, Sánchez E, Alonso M, Jimenez L, Madrigal L, Hernando F, Sanz-Ortega J, Jimenez B, Garrido P, Paz-Ares L, de Castro J, Hernandez S, Lopez-Rios F. Aligning digital CD8(+) scoring and targeted next-generation sequencing with programmed death ligand 1 expression: a pragmatic approach in early-stage squamous cell lung carcinoma. Histopathology. 2018;72(2): 270-84. IF: 3.267 - Article.

Zugazagoitia J, Rueda D, Carrizo N, Enguita AB, Gómez-Sánchez D, Díaz-Serrano A, Jiménez E, Mérida A, Calero

R, Lujan R, De Miguel E, Gámez P, Díaz-Hellín V, Nuñez JA, Iglesias L, Ferrer I, Paz-Ares L, Ponce-Aix S. Prospective Clinical Integration of an Amplicon-Based Next-Generation Sequencing Method to Select Advanced Non-Small-Cell Lung Cancer Patients for Genotype-Tailored Treatments. Clinical Lung Cancer. 2018;19(1): 65-73. e7. IF: 4.204 - Article.

Iglesias Docampo LC, Arrazubi Arrula V, Baste Rotllan N, Carral Maseda A, Cirauqui BC, Escobar Y, Lambea Sorrosal JJ, Pastor Borgoño M, Rueda A, Cruz Hernández JJ. SEOM clinical guidelines for the treatment of head and neck cancer (2017). Clinical & Translational Oncology. 2018;20(1): 75-83. IF: 2.392 - Article.

Middleton G, Gridelli C, De Marinis F, Pujol JL, Reck M, Ramírez R, Parente B, Pieters T, Visseren-Grul CM, San Antonio B, John WJ, Zimmermann AH, Chouaki N, Paz-Ares L. Evaluation of changes in renal function in PARAMOUNT: a phase III study of maintenance pemetrexed plus best supportive care versus placebo plus best supportive care after induction treatment with pemetrexed plus cisplatin for advanced nonsquamous non-small-cell lung cancer. Current Medical Research and Opinion. 2018;34(5): 865-71. IF: 2.665 - Article.

Munoz-Unceta N, Burgueno I, Jimenez E, Paz-Ares L. Durvalumab in NSCLC: latest evidence and clinical potential. Therapeutic Advances in Medical Oncology. 2018;10: 1758835918804151. IF: 6.238 - Article.

Molina-Pinelo S, Salinas A, Moreno-Mata N, Ferrer I, Suarez R, Andres-Leon E, Rodriguez-Paredes M, Gutekunst J, Jantus-Lewintre E, Camps C, Carnero A, Paz-Ares L. Impact of DLK1-DIO3 imprinted cluster hypomethylation in smoker patients with lung cancer. Oncotarget. 2018;9(4): 4395-410. IF: 5.168 - Article.

Arriola E, García Gómez R, Díaz P, Majem M, Martínez Aguilera M, Valdivia J, Paredes A, Sanchez-Torres JM, Peralta Muñoz S, Barneto I, Gutierrez V, Andrade Santiago JM, Aparisi F, Isla D, Ponce S, Vicente Baz D, Artal A, Amador M, Provencio M. Clinical management and outcome of patients with advanced NSCLC carrying EGFR mutations in Spain. BMC Cancer. 2018;18(1): 106. IF: 3.288 - Article.

Martin-Liberal J, Lopez-Pousa A, Martinez-Trufero J, Martin-Broto J, Cubedo R, Lavernia J, Redondo A, Lopez-Martin JA, Mulet-Margalef N, Sanjuan X, Tirado OM, Garcia-del-Muro X. Phase II Study of Gemcitabine Plus Sirolimus in Previously Treated Patients with Advanced Soft-Tissue Sarcoma: a

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Spanish Group for Research on Sarcomas (GEIS) Study. Targeted Oncology. 2018;13(1):81-7. IF: 3.877 - Article.

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- Carretero-Gonzalez A, Lora D, Ghanem I, Zugazagoitia J, Castellano D, Sepulveda JM, Lopez-Martin JA, Paz-Ares L, de Velasco G. Analysis of response rate with ANTI PD1/PD-L1 monoclonal antibodies in advanced solid tumors: a meta-analysis of randomized clinical trials. Oncotarget. 2018;9(9): 8706-15. IF: 5.168 - Article.
- Quintanal-Villalonga A, Ojeda-Marquez L, Marrugal A, Yague P, Ponce-Aix S, Salinas A, Carnero A, Ferrer I, Molina-Pinelo S, Paz-Ares L. The FGFR4-388arg Variant Promotes Lung Cancer Progression by N-Cadherin Induction. Scientific Reports. 2018;8(1): 2394. IF: 4.122 - Article.
- Mezquita L, Auclin E, Ferrara R, Charrier M, Remon J, Planchard D, Ponce S, Ares LP, Leroy L, Audigier-Valette C, Felip E, Zeron-Medina J, Garrido P, Brosseau S, Zalcman G, Mazieres J, Caramela C, Lahmar J, Adam J, Chaput N, Soria JC, Besse B. Association of the Lung Immune Prognostic Index With Immune Checkpoint Inhibitor Outcomes in Patients With Advanced Non-Small Cell Lung Cancer. JAMA Oncology. 2018;4(3): 351-7. IF: 20.871 - Article.
- Block MS, Vierkant RA, Rambau PF, Winham SJ, Wagner P, Traficante N, Toloczko A, Tiezzi DG, Taran FA, Sinn P, Sieh W, Sharma R, Rothstein JH, Ramon y Cajal T, Paz-Ares L, Oszurek O, Orsulic S, Ness RB, Nelson G, Modugno F, Menkiszak J, McGuire V, McCauley BM, Mack M, Lubinski J, Longacre TA, Li Z, Lester J, Kennedy CJ, Kalli KR, Jung AY, Johnatty SE, Jimenez-Linan M, Jensen A, Intermaggio MP, Hung J, Herpel E, Hernandez BY, Hartkopf AD, Harnett PR, Ghatare P, Garcia-Bueno JM, Gao B, Fereday S, Eilber U, Edwards RP, de Sousa CB, de Andrade JM, Chudecka-Glaz A, Chenevix-Trench G, Cazorla A, Brucker SY, Alsop J, Whittemore AS, Steed H, Staebler A, Moysich KB, Menon U, Koziak JM, Komoss S, Kjaer SK, Kelemen LE, Karlan BY, Huntsman DG, Hogdall E, Gronwald J, Goodman MT, Gilks B, Garcia MJ, Fasching PA, de Fazio A, Deen S, Chang-Claude J, Candido Dos Reis FJ, Campbell IG, Brenton JD, Bowtell DD, Benitez J, Pharoah PDP, Kobel M, Ramus SJ, Goode EL; Australian Ovarian Cancer Study Group. MyD88 and TLR4 Expression in Epithelial Ovarian Cancer. Mayo Clinic Proceedings. 2018;93(3): 307-20. IF: 7.199 - Article.

136

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137

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PATENTS

- **Title:** Combinación de fármacos ANTI-EGFR y ANTI-FGFR para uso en el tratamiento de tumores de pulmón.
Number: P2018.
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: 13/07/2018
- **Title:** Inhibidores de FGFR para uso en el tratamiento del cáncer de pulmón.
Number: P2018.
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: 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: 13/07/2018
- **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:** Estudio del papel de IL-11 en el adenocarcinoma de pulmón
Student: Ana González Benito
Director: Irene Ferrer Sánchez
Degree: UCM

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

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

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 para la Investigación Biomédica del Hospital I2 de Octubre (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 para la Investigación Biomédica del Hospital I2 de Octubre (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

GENITOURINARY AND CELLULAR AND MOLECULAR ONCOLOGY



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ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	1
Competitive	SEOM	1
Competitive	Fundación Anemia de Falconi	1
Noncompetitive	Various	2
TOTAL		5

- **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: Fundación Anemia de Falconi
Start date: 01/06/2018
End date: 31/05/2021
- **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
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- **Title:** Evaluation of mirnas and mirna derived peptides (MI-PEPS) 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

- 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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- 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
- Title:** Nuevos modelos de cáncer de pulmón de uso preclínico: tumores neuroendocrinos de alto grado y carcinoma epidermoide.
Principal Investigator: Mirentxu Santos Lafuente
Project No.: PI15/00993
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- Title:** Discovery, Validation and Implementation of Biomarkers for Precision Oncology.
Participating Entities: Fundación Instituto de Investigación Marqués de Valdecilla (IDIVAL), Fundación de Investigación Biomédica Hospital de la Princesa, Fundación para la Investigación Biomédica del Hospital Ramón y Cajal, Institut de Recerca Biomèdica de Lleida (IRBLleida), Fundación para la Investigación Biomédica del Hospital 12 de Octubre
Principal Investigator at i+12: Luis Gonzaga Paz-Ares Rodríguez
Project No.: PIE15/00081
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2019

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	18	262. 509
Reviews	3	13. 259
TOTAL	21	275. 768

- Carles J, Mendez MJ, Pinto A, Saez MI, Arranz JA, Maroto P, Lopez-Criado P, Mellado B, Donas JG, Hernando S, Leon L, del Alba AG, Lainez N, Esteban E, Reyes G, Perez-Gracia JL, Germa JR, Lopez-Brea M, Perez-Valderrama B, Moretones C, Castellano D. Radium-223 international early access program: results from the Spanish subset. *Future Oncology*. 2018;14(1): 41-50. IF: 2.369 - Article.
- Gillessen S, Attard G, Beer TM, Beltran H, Bossi A, Bristow R, Carver B, Castellano D, Chung BH, Clarke N, Daugaard G, Davis ID, de Bono J, dos Reis RB, Drake CG, Eeles R, Efstathiou E, Evans CP, Fanti S, Feng F, Fizazi K, Frydenberg M, Gleave M, Halabi S, Heidenreich A, Higano CS, James N, Kantoff P, Kellokumpu-Lehtinen PL, Khauri RB, Kramer G, Logothetis C, Maluf F, Morgans AK, Morris MJ, Mottet N, Murthy V, Oh W, Ost P, Padhani AR, Parker C, Pritchard CC, Roach M, Rubin MA, Ryan C, Saad F, Sartor O, Scher H, Sella A, Shore N, Smith M, Soule H, Sternberg CN, Suzuki H, Sweeney C, Sydes MR, Tannock I, Tombal B, Valdagni R, Wiegel T, Omlin A. Management of Patients with Advanced Prostate Cancer: The Report of the Advanced Prostate Cancer Consensus Conference APCCC 2017. *European Urology*. 2018;73(2): 178-211. IF: 17.581 - Article.
- Chen JJ, Guccini I, Mitri DD Brina D, Revandkar A, Sarti M, Pasquini E, Alajati A, Pinton S, Losa M, Civenni G, Catapano CV, Sgrignani J, Cavalli A, D'Antuono R, Asara JM, Morandi A, Chiarugi P, Crotti S, Agostini M, Montopoli M, Masgras I, Rasola A, Garcia-Escudero R, Delaleu N, Rinaldi A, Bertoni F, Bono J, Carracedo A, Alimonti A. Compartmentalized activities of the pyruvate dehydrogenase complex sustain lipogenesis in prostate cancer. *Nature Genetics*. 2018;50(2): 219-28. IF: 27. 125 - Article.
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- analysis of randomized clinical trials. *Oncotarget*. 2018;9(9): 8706-15. IF: 5.168 - Article.
- Powles T, Duran I, van der Heijden MS, Loriot Y, Vogelzang NJ, De Giorgi U, Oudard S, Retz MM, Castellano D, Bamias A, Flechon A, Gravis G, Hussain S, Takano T, Leng N, Kadel EE, Banchereau R, Hegde PS, Mariathasan S, Cui N, Shen XD, Derleth CL, Green MC, Ravaud A. Atezolizumab versus chemotherapy in patients with platinum-treated locally advanced or metastatic urothelial carcinoma (IMvigor211): a multicentre, open-label, phase 3 randomised controlled trial. *Lancet*. 2018;391(10122): 748-57. IF: 53. 254 - Article.
- Escudier B, Powles T, Motzer RJ, Olencki T, Arén Frontera O, Oudard S, Rolland F, Tomczak P, Castellano D, Appleman LJ, Drabkin H, Vaena D, Milwee S, Youkstetter J, Lougheed JC, Bracarda S, Choueiri TK. Cabozantinib, a New Standard of Care for Patients With Advanced Renal Cell Carcinoma and Bone Metastases? Subgroup Analysis of the METEOR Trial. *Journal of Clinical Oncology*. 2018;36(8): 765-72. IF: 26. 303 - Article.
- Nuñez-Valdovinos B, Carmona-Bayonas A, Jimenez-Fonseca P, Capdevila J, Castaño-Pascual Á, Benavent M, Pi Barrio JJ, Teule A, Alonso V, Custodio A, Marazuela M, Segura A, Beguiristain A, Llanos M, Martinez Del Prado MP, Diaz-Perez JA, Castellano D, Sevilla I, Lopez C, Alonso T, Garcia-Carbonero R. Neuroendocrine Tumor Heterogeneity Adds Uncertainty to the World Health Organization 2010 Classification: Real-World Data from the Spanish Tumor Registry (R-GETNE). *Oncologist*. 2018;23(4): 422-32. IF: 5.306 - Article.
- Garcia-Escudero R, Segrelles C, Duenas M, Pombo M, Ballestin C, Alonso-Riano M, Nenclares P, Alvarez-Rodriguez R, Sanchez-Aniceto G, Ruiz-Alonso A, Lopez-Cedrun JL, Paramio JM, Lorz C. Overexpression of PIK3CA in head and neck squamous cell carcinoma is associated with poor outcome and activation of the YAP pathway. *Oral Oncology*. 2018;79: 55-63. IF: 4.636 - Article.
- Motzer RJ, Tannir NM, McDermott DF, Frontera OA, Melichar B, Choueiri TK, Plimack ER, Barthelemy P, Porta C, George S, Powles T, Donskov F, Neiman V, Kollmannsberger CK, Salman P, Gurney H, Hawkins R, Ravaud A, Grimm MO, Bracarda S, Barrios CH, Tomita Y, Castellano D, Rini BI, Chen AC, Mekan S, McHenry MB, Wind-Rotolo M, Doan J, Sharma P, Hammers HJ, Escudier B; CheckMate 214 Investigators. Nivolumab plus Ipilimumab versus Sunitinib in Advanced Renal-Cell Carcinoma. *New England Journal of Medicine*. 2018;378(14): 1277-90. IF: 79. 258 - Article.
- Segrelles C, Contreras D, Navarro EM, Gutierrez-Munoz C, Garcia-Escudero R, Paramio JM, Lorz C. Bosutinib Inhibits EGFR Activation in Head and Neck Cancer. *International Journal of Molecular Sciences*. 2018;19(7): 1824. IF: 3.687 - Article.
- Angelergues A, Efstathiou E, Gyftaki R, Wysocki PJ, Lainez N, Gonzalez I, Castellano DE, Ozguroglu M, Carbonero IG, Flechon A, Borrega P, Guillot A, Balea BC, Le Moulec S,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Esteban E, Munarriz J, Rubio G, Birtle AJ, Delanoy N, Bellmunt J, Oudard S. Results of the FLAC European Database of Metastatic Castration-Resistant Prostate Cancer Patients Treated With Docetaxel, Cabazitaxel, and Androgen Receptor-Targeted Agents. *Clinical Genitourinary Cancer*. 2018;16(4): 777-84. IF: 2.539 - Article.

Korkut A, Zaidi S, Kanchi RS, Rao S, Gough NR, Schultz A, Li X, Lorenzi PL, Berger AC, Robertson G, Kwong LN, Datto M, Roszik J, Ling S, Ravikumar V, Manyam G, Rao A, Shelley S, Liu Y, Ju Z, Hansel D, de Velasco G, Pennathur A, Andersen JB, O'Rourke CJ, Ohshiro K, Jogunoori W, Nguyen BN, Li S, Osmanbeyoglu HU, Ajani JA, Mani SA, Houseman A, Wiznerowicz M, Chen J, Gu S, Ma W, Zhang J, Tong P, Cherniack AD, Deng C, Resar L, Weinstein JN, Mishra L, Akbani R, Cancer Genome Atlas Research Network. A Pan-Cancer Analysis Reveals High-Frequency Genetic Alterations in Mediators of Signaling by the TGF-beta Superfamily. *Cell Systems*. 2018;7(4): 422-37. e7. IF: 8.982 - Article.

Caries J, Castellano D, Mendez-Vidal MJ, Mellado B, Saez MI, del Alba AG, Perez-Gracia JL, Jimenez J, Suarez C, Sepulveda JM, Manneh R, Porras I, Lopez C, Morales-Barrera R, Arranz JA. Circulating Tumor Cells as a Biomarker of Survival and Response to Radium-223 Therapy: Experience in a Cohort of Patients With Metastatic Castration-Resistant Prostate Cancer. *Clinical Genitourinary Cancer*. 2018;16(6): 1133-9. IF: 2.539 - Article.

Cordero JG, Garcia-Escudero R, Avila J, Gargini R, Garcia-Escudero V. Benefit of Oleuropein Aglycone for Alzheimer's Disease by Promoting Autophagy. *Oxidative Medicine and Cellular Longevity*. 2018;2018: 5010741. IF: 4.936 - Review.

Lodewijk I, Duenas M, Rubio C, Munera-Maravilla E, Segovia C, Bernardini A, Teijeira A, Paramio JM, Suarez-Cabrera C. Liquid Biopsy Biomarkers in Bladder Cancer: A Current Need for Patient Diagnosis and Monitoring. *International Journal of Molecular Sciences*. 2018;19(9): 2514. IF: 3.687 - Review.

Segrelles C, Paramio JM, Lorz C. The transcriptional co-activator YAP: A new player in head and neck cancer. *Oral Oncology*. 2018;86: 25-32. IF: 4.636 - Review.

Carretero-Gonzalez A, Otero I, Carril-Ajurua L, de Velasco G, Manso L. Exosomes: Definition, Role in Tumor Development and Clinical Implications. *Cancer Microenvironment*. 2018; 11(1): 13-21. IF: N/A - Review.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Ricardo Errazquin Ciudad

Title: Generación de herramientas de utilidad preclínica para el estudio del cáncer oral en pacientes con Anemia de Fanconi

Directors: Ramón García-Escudero, Carmen Segrelles Huelga

Master: Máster en Investigación en Medicina Traslacional (UCM)

- **Student:** Isabel Ojeda Pérez

Title: Análisis del gen ERAS en la glándula mamaria de ratón Effect of the inactivation of RASA1 gene in Breast Cancer Cells

Directors: Ángel Ramírez Merino, Mª Angustias Page Peñuelas

Master: Máster en Investigación en Medicina Traslacional (UCM)

- **Student:** Laura Gómez Ruiz

Title: Búsqueda y ensayo de nuevos compuestos con efecto antitumoral para el tratamiento del cáncer de pulmón

Directors: Mirenxtu Santos Lafuente, Miriam Pérez Crespo

Master: Máster en Investigación en Medicina Traslacional (UCM)

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: EP16774445.

Type: EFN PCT, European patent.

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

Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (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: I5761687.

Type: EFN PCT, American patent.

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

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

Date of application: 23/09/2015

BREAST AND GYNECOLOGIC CANCER



GROUP DIRECTOR

Ciruelos Gil, Eva M^a

Aragón Sánchez, Sofía	Mendiola Fernández, Dionisio
Bárcena García, Carmen	César
Bravo Violeta, Victoria	Navarro Espinel, José Manuel
Manso Sánchez, Luis Manuel	Oliver Pérez, M ^a de los Reyes
Martínez López, Mario	Page Peñuelas, M ^a Angustias

Parrilla Rubio, Lucía	Sánchez García, Cristina
Pérez Gómez, Eduardo	Sancho Baltasar, Raquel
Pernaut Sánchez, Cristina	Sanz Ferrández, M ^a Consuelo
Ramírez Merino, Ángel	Tejerizo García, Álvaro
Rodríguez Castaño, Juan Diego	Tolosa Ortega, Pablo

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	3
Competitive	AECC	1
Noncompetitive	Various	2
TOTAL		6

- 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 negativos.

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

- Title:** Estudio observacional y prospectivo para el desarrollo de herramientas predictivas y pronósticas para la optimización de la terapia de primera línea con Bevacizumab en pacientes con cáncer de mama metastásico HER-5 Negativo y criterios de enfermedad agresiva.

Principal Investigator: Luis Manuel Manso Sánchez

Funding Body: Roche Farma, S.A.

Start date: 18/11/2015

End date: 17/11/2018

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- 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: 30/09/2019

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	18	265.410
Reviews	3	6.448
TOTAL	21	271.858
Letters	1	13.926
TOTAL	22	285.784

- Nuciforo P, Pascual T, Cortes J, Llombart-Cussac A, Fasani R, Pare L, Oliveira M, Galvan P, Martinez N, Bermejo B, Vidal M, Pernas S, Lopez R, Muñoz M, Garau I, Manso L, Alarcon J, Martinez E, Rodrik-Outmezguine V, Brase JC, Villagrasa P, Prat A, Holgado E. A predictive model of pathologic response based on tumor cellularity and tumor-infiltrating lymphocytes (CeTIL) in HER2-positive breast cancer treated with chemo-free dual HER2 blockade. *Annals of Oncology*. 2018;29(1): 170-7. IF: 13.926 - Article.

- Di Leo A, Johnston S, Lee KS, Ciruelos E, Lønning PE, Janni W, O'Regan R, Mouret-Reynier MA, Kavle D, Egle D, Csoszi T, Bordonaro R, Decker T, Tjan-Heijnen VCG, Blau S, Schirone A, Weber D, El-Hashimy M, Dharan B, Sellami D, Bachellot T. Buparlisib plus fulvestrant in postmenopausal women with hormone-receptor-positive, HER2-negative, advanced breast cancer progressing on or after mTOR inhibition (BELLE-3): a randomised, double-blind, placebo-controlled, phase 3 trial. *Lancet Oncology*. 2018;19(1): 87-100. IF: 36.418 - Article.

- Redondo A, Ramos Vazquez M, Manso L, Gil MJG, Garau Llinas I, Garcia-Garre E, Rodriguez CA, Chacon JL, Lopez-Vivanco G. Long-term response to first-line bevacizumab-based therapy in patients with metastatic breast cancer: results of the observational "LORENA" study. *Oncotargets and Therapy*. 2018;11: 5845-52. IF: 2.656 - Article.

- Garrido ML, Morago AJ, Rovira PS, Olarte PE, Sanchez CP, Sanchez LM. Experience with eribulin in the treatment of elderly women with metastatic breast cancer: case studies. *Future Oncology*. 2018;14(7): 21-7. IF: 2.369 - Article.

- Brandariz L, Arriba M, García JL, Cano JM, Rueda D, Rubio E, Rodríguez Y, Pérez J, Vivas A, Sánchez C, Tapia S, Pena L, García-Arranz M, García-Olmo D, Urioste M, González-Sarmiento R, Pereira J. Differential clinicopathological and molecular features within late-onset colorectal cancer according to tumor location. *Oncotarget*. 2018;9(20): 15302-11. IF: 5.168 - Article.

- Oskay-Özcelik G, Alavi S, Richter R, Keller M, Cecere SC, Cormio G, Joly F, Kurtz JE, du Bois A, Maciejewski M, Jedryka M, Vergote I, Van Nieeuwenhuysen E, Casado A, Mendiola C, Achimas-Cadariu P, Vlad C, Reimer D, Zeimet AG, Friedlander M, Sehouli J. Expression III: patients' expectations and preferences regarding physician-patient relationship and clinical management-results of the international NOGGO/ENGOT-ov4-GCIG study in 1830 ovarian cancer patients from European countries. *Annals of Oncology*. 2018;29(4): 910-6. IF: 13.926 - Article.

- Cala MP, Agullo-Ortuno MT, Prieto-Garcia E, Gonzalez-Riano C, Parrilla-Rubio L, Barbas C, Diaz-Garcia CV, Garcia A, Pernas C, Adeva J, Riesco MC, Ruperez FJ, Lopez-Martin JA. Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. *Journal of Cachexia Sarcopenia and Muscle*. 2018;9(2): 348-57. IF: 12.511 - Article.

- Selle F, Colombo N, Korach J, Mendiola C, Cardona A, Ghazi Y, Oza AM. Safety and Efficacy of Extended Bevacizumab

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Therapy in Elderly (70 Years) Versus Younger Patients Treated for Newly Diagnosed Ovarian Cancer in the International ROSiA Study. *International Journal of Gynecological Cancer*. 2018;28(4): 729-37. IF: 2.192 - Article.

- Ciruelos E, Vidal M, Martínez de Dueñas E, Martínez-Jáñez N, Fernández Y, García-Sáenz JA, Murillo L, Carabantes F, Beliera A, Fonseca R, Gavilá J. Safety of everolimus plus exemestane in patients with hormone-receptor-positive, HER2-negative locally advanced or metastatic breast cancer: results of phase IIb BALLET trial in Spain. *Clinical & Translational Oncology*. 2018;20(6): 753-60. IF: 2.392 - Article.
- Pernaut C, Lopez F, Ciruelos E. Standard Neoadjuvant Treatment in Early/Locally Advanced Breast Cancer. *Breast Care*. 2018;13(4): 244-9. IF: 2.028 - Review.
- Jiménez-Heffernan JA, Bárcena C, Muñoz-Hernández P. Cytological features of breast peri-implant papillary synovial metaplasia. *Diagnostic Cytopathology*. 2018;46(9): 769-71. IF: 1.014 - Article.
- Vergote I, von Moos R, Manso L, Van Nieuwenhuysen E, Concin N, Sessa C. Tumor Treating Fields in combination with paclitaxel in recurrent ovarian carcinoma: Results of the INNOVATE pilot study. *Gynecologic Oncology*. 2018;150(3): 471-7. IF: 4.540 - Article.
- Curigliano G, Burstein HJ, Winer EP, Gnant M, Dubsky P, Loibl S, Colleoni M, Regan MM, Piccart-Gebhart M, Senn HJ, Thürlimann B, Panel Members of the St Gallen International Expert Consensus on the Primary Therapy, André F, Baselga J, Bergh J, Bonnemoi H, Brucker SY, Cardoso F, Carey L, Ciruelos E, Cuzick J, Denkert C, Di Leo A, Ejertsen B, Francis P, Galimberti V, Garber J, Gulluoglu B, Goodwin P, Harbeck N, Hayes DF, Huang CS, Huober J, Khaled H, Jassem J, Jiang Z, Karlsson P, Morrow M, Orecchia R, Osborne KC, Pagani O, Partridge AH, Pritchard K, Ro J, Rutgers EJT, Sedlmayer F, Semiglavov V, Shao Z, Smith I, Toi M, Tutt A, Viale G, Watanabe T, Whelan TJ, Xu B. Reply to 'The St Gallen International Expert Consensus on the Primary Therapy of Early Breast Cancer 2017: the point of view of an International Panel of Experts in Radiation Oncology' by Kirova et al. *Annals of Oncology*. 2018;29(1): 281-2. IF: 13.926 - Letter.
- Blasco-Benito S, Seijo-Vila M, Caro-Villalobos M, Tundidor I, Andrades C, Garcia-Taboada E, Wade J, Smith S, Guzman M, Perez-Gomez E, Gordon M, Sanchez C. Appraising the "entourage effect": Antitumor action of a pure cannabinoid versus a botanical drug preparation in preclinical models of breast cancer. *Biochemical Pharmacology*. 2018;157: 285-93. IF: 4.235 - Article.
- Vergote I, Coens C, Nankivell M, Kristensen GB, Parmar MKB, Ehlen T, Jayson GC, Johnson N, Swart AM, Verheijen R, McCluggage WG, Perren T, Panici PB, Kenter G, Casado A, Mendiola C, Stuart G, Reed NS, Kehoe S; EORTC, MRC CHORUS study investigators. Neoadjuvant chemotherapy versus debulking surgery in advanced tubo-ovarian cancers: pooled analysis of individual patient data from the EORTC 55971 and CHORUS trials. *Lancet Oncology*. 2018;19(12): 1680-7. IF: 36. 418 - Article.
- Manso L, Sanchez-Munoz A, Calvo I, Izarzugaza Y, Plata J, Rodriguez C. Late Administration of Trastuzumab Emtansine Might Lead to Loss of Chance for Better Outcome in Patients with HER2-Positive Metastatic Breast Cancer. *Breast Care*. 2018;13(4): 277-83. IF: 2.028 - Review.
- Colomer R, Aranda-López I, Albalán J, García-Caballero T, Ciruelos E, López-García MÁ, Cortés J, Rojo F, Martín M, Palacios-Calvo J. Biomarkers in breast cancer: A consensus statement by the Spanish Society of Medical Oncology and the Spanish Society of Pathology. *Clinical & Translational Oncology*. 2018;20(7): 815-26. IF: 2.392 - Review.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Gala Campos López
Title: Effect of the inactivation of RASA1 gene in Breast Cancer Cells
Director: José Manuel Navarro Espinel
Master: Reviews's Degree in Biotechnology (UAM)
- **Student:** Isabel Ojeda Pérez
Title: Análisis del gen ERAS en la glándula mamaria de ratón
Effect of the inactivation of RASA1 gene in Breast Cancer Cells
Directors: Ángel Ramírez Merino, Mª Angustias Page Peñuelas
Master: Máster en Investigación en Medicina Traslacional (UCM)

THESES DEFENDED OR DIRECTED ON THE GROUP

- **Candidate:** Sandra Blasco Benito
Title: El receptor cannabinoide CB₂R como diana terapéutica y herramienta pronóstico/predictiva en cáncer de mama HER2+
Director/s: Cristina Sánchez García, Eduardo Pérez Gómez, Manuel Guzmán
Date Defended: 16/11/2018
University: Universidad Complutense de Madrid

DIGESTIVE CANCER



Adeva Alfonso, Jorge
Carretero Puche, Carlos
Espinosa Olarte, Paula
Gil Calderón, Beatriz
Gómez Esteves, Genoveva

Gómez Martín, Carlos
La Salvia, Anna
Lema Roso, Laura
Ojeda González, Cristina
Riesco Martínez, Mª del Carmen

Robles Díaz, Luis
Rodríguez Gil, Yolanda
Rubio Cuesta, Beatriz
Ojeda González, Cristina
Riesco Martínez, Mª del Carmen

Soldevilla Navarro, Beatriz
Tapia Santos, Sandra
Rueda Fernández, Daniel
Sarmiento Estrada, Jacinto

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	3
Competitive	FMM	1
Noncompetitive	Various	1
TOTAL		5

- 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 / Nicolina / Temem147 y la vía nodal en cáncer colorrectal.
Principal Investigator: José Perea García
Project No.: PI16/01650
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019

- Title:** Validación de tecnologías de predicción de respuesta al tratamiento con quimioterapia en carcinoma colorectal avanzado.
Principal Investigator: Rocío García Carbonero
Project No.: DTS15/00157
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 30/09/2018
- 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 Mutua Madrileña (FMM)
Start date: 27/07/2013
End date: 26/07/2015, extended to 30/09/2018
- Title:** Subestudio de biomarcadores asociados al ensayo clínico phase II/III randomized, double-blind study of Sandoz 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

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	22	147.326
Reviews	2	15.313
TOTAL	24	162.639
Letters	2	7.240
TOTAL	26	169.879

- Tabernero J, Hozak RR, Yoshino T, Cohn AL, Obermannova R, Bodoky G, Garcia-Carbonero R, Ciuleanu TE, Portnoy DC, Prausova J, Muro K, Siegel RW, Konrad RJ, Ouyang H, Melemed SA, Ferry D, Nasrullah F, Van Cutsem E. Analysis of angiogenesis biomarkers for ramucirumab efficacy in patients with metastatic colorectal cancer from RAISE, a global, randomized, double-blind, phase III study. *Annals of Oncology*. 2018;29(3): 602-9. IF: 13.926 - Article.
- Pavel M, Gross DJ, Benavent M, Perros P, Srirajaskanthan R, Warner RRP, Kulke MH, Anthony LB, Kunz PL, Hörsch D, Weickert MO, Lapuerta P, Jiang WJ, Kassler-Taub K, Wason S, Fleming R, Fleming D, Garcia-Carbonero R. Telotristat ethyl in carcinoid syndrome: safety and efficacy in the TELECAST phase 3 trial. *Endocrine-Related Cancer*. 2018;25(3): 309-22. IF: 5.331 - Article.
- Garrido ML, Morago AJ, Rovira PS, Olarte PE, Sanchez CP, Sanchez LM. Experience with eribulin in the treatment of elderly women with metastatic breast cancer: case studies. *Future Oncology*. 2018;14(7): 21-7. IF: 2.369 - Article.
- Brandariz L, Arriba M, García JL, Cano JM, Rueda D, Rubio E, Rodríguez Y, Pérez J, Vivas A, Sánchez C, Tapia S, Pena L, García-Arranz M, García-Olmo D, Urioste M, González-Sarmiento R, Perea J. Differential clinicopathological and molecular features within late-onset colorectal cancer according to tumor location. *Oncotarget*. 2018;9(20): 15302-11. IF: 5.168 - Article.
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- Cala MP, Agullo-Ortuno MT, Prieto-Garcia E, Gonzalez-Riano C, Parrilla-Rubio L, Barbas C, Diaz-Garcia CV, Garcia A, Pernaut C, Adeva J, Riesco MC, Ruperez FJ, Lopez-Martin JA. Multiplatform plasma fingerprinting in cancer cachexia: a pilot observational and translational study. *Journal of Cachexia Sarcopenia and Muscle*. 2018;9(2): 348-57. IF: 12.511 - Article.
- Martinez-Perez J, Riesco-Martinez MC, Garcia-Carbonero

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- R. The safety of trifluridine and tipiracil for the treatment of metastatic colorectal cancer. *Expert Opinion on Drug Safety.* 2018;17(6): 643-50. IF: 3.156 - Article.
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- Tesch VK, Ijspeert H, Raicht A, Rueda D, Dominguez-Pinilla N, Allende LM, Colas C, Rosenbaum T, Ilencikova D, Baris HN, Nathrath MHM, Suerink M, Januszewicz-Lewandowska D, Ragab I, Azizi AA, Wenzel SS, Zschocke J, Schwinger W, Kloor M, Blattmann C, Brugieres L, van der Burg M, Wimmer K, Seidel MG. No Overt Clinical Immunodeficiency Despite Immune Biological Abnormalities in Patients With Constitutional Mismatch Repair Deficiency. *Frontiers in Immunology.* 2018;9: 1506. IF: 5.511 - Article.
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- D, Egorov VI, Bausch D, Schott M, Tiling N, Pennelli G, Zschiedrich S, Darr R, Ruf J, Denecke T, Link KH, Zovato S, von Dobschuetz E, Yaremchuk S, Amthauer H, Makay O, Patocs A, Walz MK, Huber TB, Seufert J, Hellman P, Kim RH, Kuchinskaya E, Schiavi F, Malinoc A, Reisch N, Jarzab B, Barontini M, Januszewicz A, Shah N, Young WF Jr, Opocher G, Eng C, Neumann HPH, Bausch B. Preventive medicine of von Hippel-Lindau disease-associated pancreatic neuroendocrine tumors. *Endocrine-Related Cancer.* 2018;25(9): 783-93. IF: 5.331 - Article.
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- Damaso E, Castillejo A, Arias MDM, Canet-Hermida J, Navarro M, Del Valle J, Campos O, Fernandez A, Marin F, Turchetti D, Garcia-Diaz JD, Lazaro C, Genuardi M, Rueda D, Alonso A, Soto JL, Hitchins M, Pineda M, Capella G. Primary constitutional MLH1 epimutations: a focal epigenetic event. *British Journal of Cancer.* 2018;119(8): 978-87. IF: 5.922 - Article.
- Marin-Gabriel JC, Lora-Pablos D, Diaz-Tasende J, Cancelas-Navia P, Rodriguez-Munoz S, del-Pozo-Garcia AJ, Alonso-Riano M, Rodriguez-Gil Y, Ibarrola-Andres C, Castellano-Tortajada G. Switching from endoscopic submucosal dissection to salvage piecemeal knife-assisted snare resection to remove a lesion: a preoperative risk score from the beginning. *Revista Espanola de Enfermedades Digestivas.* 2018;110(11): 699-705. IF: 1.632 - Article.
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- Fernandez A, Salgado M, Garcia A, Buxo E, Vera R, Adeva J, Jimenez-Fonseca P, Quintero G, Llorca C, Canabate M, Lopez LJ, Munoz A, Ramirez P, Gonzalez P, Lopez C, Reboredo M, Gallardo E, Sanchez-Canovas M, Gallego J, Guillen C, Ruiz-Miravet N, Navarro-Perez V, De la Camara J, Ales-Diaz I, Pazo-Cid RA, Carmona-Bayonas A. Prognostic factors for survival with nab-paclitaxel plus gemcitabine in metastatic pancreatic cancer in real-life practice: the ANICE-PaC study. *BMC Cancer.* 2018;18(1): 1185. IF: 3.288 - Article.
- Carril-Auria L, Jimenez-Aguilar E, Gomez-Martin C, Diaz-Pedroche C. An unsuspected complication with immune checkpoint blockade: a case report. *Journal of Medical Case Reports.* 2018;12(1): 246. IF: N/A - Article.
- Alvarez R, Carrato A, Adeva J, Ales I, Prados S, Valladares M, Macarulla T, Munoz A, Hidalgo M. Management of hyperbilirubinaemia in pancreatic cancer patients. *European Journal of Cancer.* 2018;94: 26-36. IF: 7.191 - Review.
- Barriuso J, Custodio A, Afonso R, Alonso V, Astudillo A, Capdevila J, Garcia-Carbonero R, Grande E, Jimenez-Fonseca P, Marazuela M, Rodriguez-Antona C, Aller J, Prognostic and predictive biomarkers for somatostatin analogs, peptide receptor radionuclide therapy and serotonin pathway targets in neuroendocrine tumours. *Cancer Treatment Reviews.* 2018;70: 209-22. IF: 8.122 - Review.
- Tapial S, Rueda D, Arriba M, Luis Garcia J, Brandariz L, Perez J, Rodriguez Y, Garcia-Olmo D, Gonzalez-

Sarmiento R, Urioste M, Perea J. Comment on 'Distinct clinical outcomes of two CIMP-positive colorectal cancer subtypes based on a revised CIMP classification system'. *British Journal of Cancer.* 2018;118(3): e3. IF: 5.922 - Letter.

• Soriano-Ramos M, Salcedo Lobato E, Rodriguez Gil Y, Medina Benitez E, Urruzuno Telleria P. Hematemesis as debut of eosinophilic gastroenteritis in infants. *Anales de Pediatría.* 2018;88(6): 351-3. IF: 1.318 - Letter.

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 para la Investigación Biomédica del Hospital 12 de Octubre (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



GROUP DIRECTOR

Álvarez Vallina, Luis

Blanco Durango, Belén
Domínguez Alonso, Carmen
Erce Llamazares, Ainhoa

Hangiu, Oana
Morales Pérez, Pablo
Nehme Álvarez, Daniel

Ramírez Fernández, Ángel
Yarza Barrio, Ramón

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	MINECO	2
Noncompetitive	Fundación CRIS	1
TOTAL		3

- 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-I
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/01/2018
End date: 31/12/2020

- Title:** Precision immuno-oncology and novel immune therapies in cancer: "immunoengineering for immunotherapy (IFI).
Principal Investigator: Luis Álvarez Vallina
Funding Body: Fundación CRIS de Investigación para Vencer el Cáncer
Start date: 20/01/2018
End date: 19/01/2021

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	1	12.353
TOTAL	1	12.353

- Compte M, Harwood SL, Munoz IG, Navarro R, Zonca M, Perez-Chacon G, Erce-Llamazares A, Merino N, Tapia-Galisteo A, Cuesta AM, Mikkelsen K, Caleiras E, Nunez-Prado N, Aznar MA, Lykkemark S, Martinez-Torrecuadrada J, Melero I, Blanco FJ, Bernardino de la Serna J, Zapata JM, Sanz L, Alvarez-Vallina L. A tumor-targeted trimeric 4-1BB-agonistic antibody induces potent anti-tumor immunity without systemic toxicity. *Nature Communications.* 2018;9(1):4809. IF: 12.353 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

LYMPHOID DIFFERENTIATION



GROUP DIRECTOR

Zapata González, Agustín

Hernández López, Carmen
Montero Herradon, Sara
Muñoz Oliveira, Juan José

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	13.993
TOTAL	3	13.993

- Muñoz JJ, Garcia-Ceca J, Montero-Herradon S, Sánchez Del Collado B, Alfaro D, Zapata A. Can a Proper T-Cell Development Occur in an Altered Thymic Epithelium? Lessons From EphB-Deficient Thymi. *Frontiers in Endocrinology.* 2018;9: 135. IF: 3.519 - Article.
- Montero-Herradón S, García-Ceca J, Zapata AG. Altered Maturation of Medullary TEC in EphB-Deficient Thymi Is Recovered by RANK Signaling Stimulation. *Frontiers in Immunology.* 2018;9: 1020. IF: 5.511 - Article.
- Alfaro D, Zapata AG. Eph/Ephrin-mediated stimulation of human bone marrow mesenchymal stromal cells correlates with changes in cell adherence and increased cell death. *Stem Cell Research & Therapy.* 2018;9(1): 172. IF: 4.963 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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: Praga Terente, Manuel

- 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**



AGEING, NEUROIMMUNOLOGY AND NUTRITION



GROUP DIRECTORS

de la Fuente del Rey, Mónica
Carracedo Añón, Julia M^a

Ceprián Costoso, Noemí
Cruces González, Julia
de la Serna Soto, Mariano

Garrido Tarrio, Antonio
González Sánchez, Mónica
Hunsche, Caroline

Kobayashi García, Hikaru
Martínez de Toda Cabeza, Irene
Vida Rueda, M^a del Carmen

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of Projects
Competitive	ISCIII	2
	TOTAL	2

- **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.: PII7/01029
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- **Title:** Marcadores de velocidad de envejecimiento y longevidad saludables en humanos. Validación en modelos animales.
Principal Investigator: Mónica de la Fuente del Rey
Project No.: PII5/01787
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Papel de microRNAs vehiculados en microvesículas de células senescentes en el desarrollo de enfermedad vascular.
Principal Investigator: Julia M^a Carracedo Añón
Funding Body: Banco Santander-Universidad Complutense de Madrid
Start date: 01/01/2018
End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. of Documents	Σ IF (JCR 2017)
Articles	6	29.731
Reviews	1	3.687
TOTAL	7	33.418

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Vida C, de Toda IM, Garrido A, Carro E, Molina JA, De la Fuente M. Impairment of Several Immune Functions and Redox State in Blood Cells of Alzheimer's Disease Patients. Relevant Role of Neutrophils in Oxidative Stress. *Frontiers in Immunology*. 2018;8: 1974. IF: 5.511 - Article.
- Garrido A, Cruces J, Ceprian N, Hernandez-Sánchez C, De la Fuente M. Premature aging in behavior and immune functions in tyrosine hydroxylase haploinsufficient female mice. A longitudinal study. *Brain Behavior and Immunity*. 2018;69: 440-55. IF: 6.306 - Article.
- Hunsche C, Hernandez O, Gheorghe A, Diaz LE, Marcos A, De la Fuente M. Immune dysfunction and increased oxidative stress state in diet-induced obese mice are reverted by nutritional supplementation with monounsaturated and n-3 polyunsaturated fatty acids. *European Journal of Nutrition*. 2018;57(3): 1123-35. IF: 4.423 - Article.
- Carracedo J, Ramirez-Carracedo R, Martinez de Toda I, Vida C, Alique M, De la Fuente M, Ramirez-Chamond R. Protein Carbamylation: A Marker Reflecting Increased Age-Related Cell Oxidation. *International Journal of Molecular Sciences*. 2018;19(5): 1495. IF: 3.687 - Article.
- Garrido A, Cruces J, Ceprian N, De la Fuente M. Improvements in Behavior and Immune Function and Increased Life Span of Old Mice Cohabiting With Adult Animals. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2018;73(7): 873-81. IF: 4.902 - Article.
- Martinez de Toda I, Garrido A, Vida C, Gomez-Cabrera MC, Vina J, De la Fuente M. Frailty Quantified by the "Valencia Score" as a Potentia l Predictor of Lifespan in Mice. *Journals of Gerontology Series A-Biological Sciences and Medical Sciences*. 2018;73(10): 1323-9. IF: 4.902 - Article.
- Alique M, Ramirez-Carracedo R, Bodega G, Carracedo J, Ramirez R. Senescent Microvesicles: A Novel Advance in Molecular Mechanisms of Atherosclerotic Calcification. *International Journal of Molecular Sciences*. 2018;19(7): 2003. IF: 3.687 - Review.

THESES DEFENDED OR DIRECTED ON THE GROUP

- **Candidate:** Antonio Garrido Tarrio
Title: Caracterización neuroinmunoendocrina de modelos de envejecimiento prematuro en ratón. Efecto del ambiente social

- Director/s:** Mónica de la Fuente del Rey
Date Defended: 17/12/2018
University: Universidad Complutense de Madrid
- **Candidate:** Andrés Carmona Muñoz
Title: Implicación de microvesículas endoteliales en el desarrollo de daño vascular
Director/s: Julia M^a Carracedo Añon
Date Defended: 17/04/2018
University: Universidad de Córdoba

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Estefanía Díaz del Cerro
Title: Efecto rejuvenecedor en el sistema nervioso e inmunitario de ratones viejos tras la cohabitación con adultos
Director: Mónica de la Fuente del Rey
Master: Máster de Investigación en Inmunología (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Marina Hernández Calleja
Title: Alteración de la función inmunitaria en ratones con estrés posttraumático
Director: Mónica de la Fuente del Rey
Degree: Biología (UCM)
- **Student:** Lara Miguélez Salas
Title: Estrés oxidativo en pacientes con Parkinson, deterioro cognitivo y enfermedad de Alzheimer
Directors: Mónica de la Fuente del Rey, Irene Martínez de Toda
Degree: Biología (UCM)
- **Student:** Nadia Serroukh Mansouri
Title: Aspectos diferenciales de miRNAs en células inmunes y microvesículas inducidas en un modelo de uremia
Director: Julia M^a Carracedo Añon
Degree: Biología (UCM)
- **Student:** Lydia Zamora Pérez
Title: Papel del microRNA 126 en la inflamación y el daño vascular inducido por toxinas urémicas en la enfermedad renal crónica
Director: Julia M^a Carracedo Añon
Degree: Biología (UCM)

PRIZES AND AWARDS

- Prize Beltrán Báguena 2018, of the Sección Biológica de la SEGG to the best original published on the Revista Española de Geriatría y Gerontología (vol 52: 20-26. 2017).
Report entitled: "Inmunosenescencia prematura en ratones con una deficiencia en la síntesis de catecolaminas. Efecto del ambiente social".
Authors: Antonio Garrido Tarrio, Julia Cruces González, Mónica de la Fuente del Rey.
- Prize Salgado Alba to the best communication presented at the 2018 SEGG Congress.
Awarded: Antonio Garrido Tarrio y Mónica de la Fuente del Rey.

RESPIRATORY DISEASES



GROUP DIRECTOR

Álvarez Martínez, Carlos José

Alonso Moralejo, Rodrigo	del Pozo Rivas, Roberto
Benavides Mañas, Pedro Daniel	Díaz Cambriles, Mª Trinidad
Castro Acosta, Ady Angélica	Díaz Campos, Rocío Magdalena
de Granda Orive, José Ignacio	Díaz-Hellín Gude, Vicente
de Miguel Poch, Eduardo	Gámez García, Antonio Pablo
de Pablo Gafas, Alicia	García Luján, Ricardo

Gómez López, Mª Antolina	Padilla Bernáldez, Marta
Gómez Sánchez, Miguel Ángel	Pérez González, Virginia Luz
Hernando Sanz, Ascensión	Pozo Rodríguez, Francisco
López Padilla, Daniel Eduardo	Sayas Catalán, Javier
Marrón Fernández, Carmen	Villena Garrido, Mª Victoria
Melero Moreno, Carlos	

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	1
Noncompetitive	Various	4
TOTAL		5

- Title:** Design and local implementation of clinical audits in different types of old (DELICATO).
Principal Investigator: Carlos José Álvarez Martínez
Project No.: PI13/01993
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 30/06/2018
- Title:** Utilidad de la oscilometría de impulso en el diagnóstico del asma en una unidad de asma grave.
Principal Investigator: Rocío Magdalena Díaz Campos
Funding Body: Chiesi España, S.A. U.
Start date: 01/07/2017
End date: 31/12/2018

- Title:** Programa atención domiciliaria neumológica en EPOC.
Principal Investigator: Carlos José Álvarez Martínez
Funding Body: Oximesa, S. L.
Start date: 25/02/2015
End date: 03/06/2016, extended to 31/12/2019
- Title:** Evaluación de la adherencia a las terapias respiratorias.
Principal Investigator: Carlos José Álvarez Martínez
Funding Body: Oximesa, S. L.
Start date: 19/02/2015
End date: 18/02/2018, extended to 31/12/2019
- 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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Proyecto RVA: (Respiratory visual Analytics).
Principal Investigator: Ady Angélica Castro Acosta, Carlos José Álvarez Martínez
Funding Body: Consorcio CIBER-Instituto de Salud Carlos III (ISCIII)
Start date: february 2017
End date: february 2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	17	71.207
Reviews	1	1.518
Editorials	3	7.339
TOTAL	21	80. 064
Letters	2	14.875
TOTAL	23	94. 939

- Lalueza A, Silva CP, Alcalá-Galiano A, Arrieta E, Canovas JM, Calero MR, Alvarez C. Presacral and intrathoracic extramedullary hematopoiesis in a patient with thalassemia minor. *Clinical Respiratory Journal.* 2018;12(1): 322-6. IF: 2.211 - Article.
- Zugazagoitia J, Rueda D, Carrizo N, Enguita AB, Gómez-Sánchez D, Díaz-Serrano A, Jiménez E, Mérida A, Calero R, Lujan R, De Miguel E, Gámez P, Díaz-Hellín V, Nuñez JA, Iglesias L, Ferrer I, Paz-Ares L, Ponce-Aix S. Prospective Clinical Integration of an Amplicon-Based Next-Generation Sequencing Method to Select Advanced Non-Small-Cell Lung Cancer Patients for Genotype-Tailored Treatments. *Clinical Lung Cancer.* 2018;19(1): 65-73. e7. IF: 4.204 - Article.
- Villar-Alvarez F, Moreno-Zabaleta R, Mira-Solbes JJ, Calvo-Corbella E, Diaz-Lobato S, Gonzalez-Torralba F,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Pumarega I, Corral-Penafiel J, Diaz-Cambriles T, Mediano O, Dalmau-Arias J, Farre R, Gozal D; Spanish Sleep Network. Intermittent Hypoxia Is Associated With High Hypoxia Inducible Factor-1 alpha but Not High Vascular Endothelial Growth Factor Cell Expression in Tumors of Cutaneous Melanoma Patients. *Frontiers In Neurology*. 2018;9: 272. IF: 3.508 - Article.
- Ciriza-de-los-Rios C, Canga-Rodriguez-Valcarcel F, de-Pablo-Gafas A, Castel-de-Lucas I, Lora-Pablos D, Castellano-Tortajada G. Esophageal motor disorders are frequent during pre and post lung transplantation. Can they influence lung rejection? *Revista Espanola de Enfermedades Digestivas*. 2018;110(6): 344-51. IF: 1.632 - Article.
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- Sarmiento E, Cifrian J, Calahorra L, Bravo C, Lopez S, Laporta R, Ussetti P, Sole A, Morales C, de Pablos A, Jaramillo M, Ezzahouri I, Garcia S, Navarro J, Lopez-Hoyos M, Carbone J. Monitoring of early humoral immunity to identify lung recipients at risk for development of serious infections: A multicenter prospective study. *Journal of Heart and Lung Transplantation*. 2018;37(8): 1001-12. IF: 7.955 - Article.
- Martinez-Garcia MA, Navarro-Soriano C, Torres G, Barbe F, Caballero-Eraso C, Lloberes P, Diaz-Cambriles T, Somoza M, Masa JF, Gonzalez M, Manas E, de la Pena M, Garcia-Rio F, Montserrat JM, Muriel A, Selma-Ferrer MJ, Garcia Ortega A, Campos-Rodriguez F; Spanish Sleep Network. Beyond Resistant Hypertension: Relationship Between Refractory Hypertension and Obstructive Sleep Apnea. *Hypertension*. 2018;72(3): 618-24. IF: 6.823 - Article.

- Gomez-Cuervo C, Diaz-Pedroche C, Perez-Jacoiste Asin MA, Laluez A, Del Pozo R, Diaz-Simon R, Trapiello F, Paredes D, Lumbreras C. Impact of functional status on 6-month mortality in elderly patients with acute venous thromboembolism: results from a prospective cohort. *Journal of Thrombosis and Thrombolysis*. 2018;46(3): 325-31. IF: 2.620 - Article.
- Soriano JB, Garcia-Rio F, Vazquez-Espinosa E, Conforto JL, Hernando-Sanz A, Lopez-Yepes L, Galera-Martinez R, Peces-Barba G, Perez-Warnisher MT, Segrelles-Calvo G, Zamarro C, Gonzalez-Ponce P, Ramos MI, Conforto JL, Jafri S, Soriano JB. Efficacy and costs of telehealth for the management of COPD: the PROMETE II trial. *European Respiratory Journal*. 2018;51(5): UNSP 1800354. IF: 12.242 - Letter.
- de Granda-Orive JL, Alonso-Arroyo A, López-Padilla D, Segrelles-Calvo G, Jiménez-Ruiz CA, Solano-Reina S. Análisis bibliométrico de los estudios IBERPOC y EPI-SCAN. Contribución de la temática tabaquismo al estudio IBERPOC. *Semergen / Sociedad Española de Medicina Rural y Generalista*. 2018;44(2): 90-9. IF: N/A-Article.
- de Granda-Orive JL, de Granda-Beltran AM, Lopez-Aguilar JC. It is crucial to have specific programs to stop smoking in the military. *Medical Journal, Armed Forces India*. 2018;74(2): 204-5. IF: N/A Article.
- Silva JT, Pérez-González V, Lopez-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, San-Juan R, Brañas P, Folgueira MD, Aguado JM, de Pablo-Gafas A. Experience with leflunomide as treatment and as secondary prophylaxis for cytomegalovirus infection in lung transplant recipients: A case series and review of the literature. *Clinical Transplantation*. 2018;32(2): e13176. IF: 1.518 - Review.
- Catalan JS, Torne ML. Approach to Home Mechanical Ventilation Prevalence: Databases or Surveys? *Respiratory Care*. 2018;63(4): 491-2. IF: 2.073 - Editorial Material.
- de Granda-Orive JL, Jimenez-Ruiz CA, Solano-Reina S. World Health Organization positioning. The Impact of Tobacco in the Environment: Cultivation, Curing, Manufacturing, Transport, and Third and Fourth-hand Smoking. *Archivos de Bronconeumología*. 2018;54(7): 357-8. IF: 2.633 - Editorial Material.
- de Granda-Orive JL, de Granda-Beltran C, Baz-Lomba JA. Contaminants of emerging concern: Nicotine in wastewater as a public health analysis tool. *Archivos de Bronconeumología*. 2018;54(10): 495-6. IF: 2.633 - Editorial Material.

BONE METABOLISM, DIABETES AND NUTRITION



Allo Miguel, Gonzalo
Calatayud Gutierrez, María
García Fernández, Elena
Guadalix Iglesias, Sonsoles

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Noncompetitive	Various	2
TOTAL		2

- Title:** Impacto de la sarcopenia sobre la morbimortalidad postoperatoria en los pacientes con cáncer esofágico, gástrico y pancreático.

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

GROUP DIRECTORS

Hawkins Carranza, Federico Gilberto
Martínez Díaz-Guerra, Guillermo

León Sanz, Miguel
Rodríguez Jiménez, Celestino
Valero Zanuy, Mª Ángeles

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED

BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL I2 DE OCTUBRE (FIBH12O)

- Title:** Aplicabilidad clínica del software 3D-Shaper: estudio de normalidad en población española.
Principal Investigator: Federico Gilberto Hawkins Carranza, Guillermo Martínez Díaz-Guerra
Funding Body: Sociedad Española de Metabolismo Óseo y Mineral (SEIOMM)
Start date: 2017
End date: 2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	5	16.387
TOTAL	5	16.387
Letters	1	10.293
TOTAL	6	26.680

- Hawkins-Carranza FG, Munoz-Calvo MT, Martos-Moreno GA, Allo-Miguel G, Del Rio L, Pozo J, Chowen JA, Perez-Jurado LA, Argente J. rhIGF-I Treatment Increases Bone Mineral Density and Trabecular Bone Structure in Children with PAPP-A2 Deficiency. *Hormone Research in Paediatrics*. 2018;89(3): 200-4. IF: 2.103 - Article.
- Guañabens N, Blanch J, Martínez-Díaz-Guerra G, Muñoz Torres M. Identification of hypophosphatasia in a clinical setting: Clinical manifestations and diagnostic recommendations in adult patients. *Medicina Clinica*. 2018;150(2): 75-9. IF: 1.168 - Article.
- Varsavsky M, Romero Munoz M, Avila Rubio V, Becerra, A, Garcia Martin A, Martinez Diaz-Guerra G, Rozas Moreno P, Jodar Gimeno E, Munoz Torres M. Consensus document on osteoporosis in males. *Endocrinología Diabetes y Nutricion*. 2018;65: 9-16. IF: 0.000 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

CLINICAL NEPHROLOGY



Caravaca Fontan, Fernando
Caro Espada, Paula Jara
Casal García, M^a Cruz
Cavero Escribano, Teresa

García Martín, Florencio
González Monte, Esther
Gutiérrez Martínez, Eduardo
Martín López, Luis

Mérida Herrero, Evangelina
Morales Ruiz, Enrique
Sevillano Prieto, Ángel Manuel
Yuste Lozano, Claudia

GROUP DIRECTOR

Praga Terente, Manuel

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	3
Competitive	Fundación Madrileña de Nefrología	1
Competitive	Fundación SENEFRO	1
Noncompetitive	Various	1
TOTAL		6

• **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.: PII6/01685

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

• **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:** Terapia secuencial con tacrolimus y rituximab en la nefropatía membranosa primaria.

Principal Investigator: Manuel Praga Terente

Project No.: PI13/02495

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2014

End date: 30/12/2016, extended to 30/06/2018

• **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

• **Title:** Efectos de la pérdida de peso sobre la función renal en pacientes obesos con enfermedad renal.

Principal Investigator: Enrique Morales Ruiz

Funding Body: Fundación SENEFRO

Start date: 01/01/2016

End date: 31/12/2018

• **Title:** STARMEN: Multicenter and open-label controlled randomized trial to evaluate the efficacy of sequential treatment with tacrolimus-rituximab versus steroids plus cyclophosphamide in patients with primary membranous.

Principal Investigator: Manuel Praga Terente
Funding Body: European Renal Association-European Dialysis Transplant Association
Start date: 11/05/2016
End date: 10/05/2019

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	12	50. 137
Reviews	2	2. 335
Editorials	3	8. 759
TOTAL	17	61. 231
Letters	3	3. 501
TOTAL	20	64. 732

• Gutierrez E, Praga M, Rivera F, Sevillano A, Yuste C, Goicoechea M, Lopez-Gomez JM; all members of the Spanish Registry of Glomerulonephritis. Changes in the clinical presentation of immunoglobulin A nephropathy: data from the Spanish Registry of Glomerulonephritis. *Nephrology Dialysis Transplantation*. 2018;33(3): 472-7. IF: 4.600 - Article.

• Rubio-Navarro A, Sanchez-Nino MD, Guerrero-Hue M, Garcia-Caballero C, Gutierrez E, Yuste C, Sevillano A, Praga M, Egea J, Roman E, Cannata P, Ortega, R, Cortegano I, de Andres B, Gaspar ML, Cadenas S, Ortiz A, Egido J, Moreno JA. Podocytes are new cellular targets of haemoglobin-mediated renal damage. *Journal of Pathology*. 2018;244(3): 296-310. IF: 6.253 - Article.

• Marco H, Draibe J, Villacorta J, Quintana LF, Martin N, Garcia-Osuna R, Cabre C, Martin-Gomez MA, Balius A, Saurina A, Picazo M, Gich-Saladich I, Navarro-Diaz M, Praga M, Cavero T, Ballarin J, Diaz-Encarnacion MM; Spanish Grp Study Glomerular Dis. Determinants of renal and patient outcomes in a Spanish cohort of patients with ANCA-associated vasculitis and renal involvement. *Clinical Rheumatology*. 2018;37(4): 1065-74. IF: 2.141 - Article.

• Goicoechea M, de Vinuesa SG, Quiroga B, Verde E, Bernis C, Morales E, Fernandez-Juarez G, de Sequera P, Verdalles U, Delgado R, Torres A, Arroyo D, Abad S, Ortiz A, Luno J. Aspirin for Primary Prevention of Cardiovascular Disease and Renal Disease Progression in Chronic Kidney Disease Patients: a Multicenter Randomized Clinical Trial (AASER Study). *Cardiovascular Drugs and Therapy*. 2018;32(3): 255-63. IF: 2.771 - Article.

• Molina M, Allende LM, Ramos LE, Gutierrez E, Pleguezuelo DE, Hernandez ER, Rios F, Fernandez C, Praga M, Morales E. CD19(+) B-Cells, a New Biomarker of Mortality in Hemodialysis Patients. *Frontiers in Immunology*. 2018; 9: 1221. IF: 5.511 - Article.

• Fernandez-Ruiz M, Polanco N, Garcia-Santiago A, Munoz R, Hernandez AM, Gonzalez E, Mercado VR, Fernandez I, Aguado JM, Praga M, Andres A. Impact of anti-HCV direct antiviral agents on graft function and immunosuppressive drug levels in kidney transplant recipients: a call to attention in the mid-term follow-up in a single-center cohort study. *Transplant International*. 2018;31(8): 887-99. IF: 3.196 - Article.

• Fernandez-Ruiz M, Corbella L, Morales-Cartagena A, Gonzalez E, Polanco N, Ruiz-Merlo T, Parra P, Silva JT, Lopez-Medrano F, San Juan R, Aramendi M, Andres A, Aguado JM.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Vitamin D deficiency and infection risk in kidney transplant recipients: A single-center cohort study. *Transplant Infectious Disease*. 2018;20(6): e12988. IF: 1.869 - Article.
- Fernandez-Juarez G, Perez JV, Caravaca-Fontan F, Quintana L, Shabaka A, Rodriguez E, Gadola L, de Lorenzo A, Cobo MA, Oliet A, Sierra M, Cobelo C, Iglesias E, Blasco M, Galeano C, Cordon A, Oliva J, Praga M; Spanish Group for the Study of Glomerular Diseases (GLOSEN). Duration of Treatment with Corticosteroids and Recovery of Kidney Function in Acute Interstitial Nephritis. *Clinical Journal of The American Society of Nephrology*. 2018;13(12): 1851-8. IF: 5.835 - Article.
- Cruzado JM, Lauzurica R, Pascual J, Marcen R, Moreso F, Gutierrez-Dalmau A, Andres A, Hernandez D, Torres A, Beneyto MI, Melilli E, Manonelles A, Arias M, Praga M. Paricalcitol Versus Calcifediol for Treating Hyperparathyroidism in Kidney Transplant Recipients. *Kidney International Reports*. 2018;3(1): 122-32. IF: N/A - Article.
- Morales E, Alonso M, Sarmiento B, Morales M. LCAT deficiency as a cause of proteinuria and corneal opacification. *BMJ Case Reports*. 2018; 2018. IF: N/A - Article.
- Guerrero-Hue M, Rubio-Navarro A, Sevillano Á, Yuste C, Gutiérrez E, Palomino-Antolín A, Román E, Praga M, Egido J, Moreno JA. Adverse effects of the renal accumulation of haem proteins. Novel therapeutic approaches. *Nefrología*. 2018;38(1): 13-26. IF: 1.167 - Review.
- Cavero T, Alonso M. Where are we with haemolytic uremic syndrome? *Medicina Clínica*. 2018;151(8): 329-35. IF: 1.168 - Review.
- Vazquez Martul E, Praga M. Nephropathology and nephrology. The need for a change. *Nefrología*. 2018;38(3): 247-9. IF: 1.167 - Editorial Material.

168

- Vincent JL, Castro P, Hunt BJ, Jorres A, Praga M, Rojas-Suarez J, Watanabe E. Thrombocytopenia in the ICU: disseminated intravascular coagulation and thrombotic microangiopathies-what intensivists need to know. *Critical Care*. 2018;22(1): 158. IF: 6.425 - Editorial Material.
- Praga M, Caravaca F, Yuste C, Cavero T, Hernandez E, Morales E, Merida E, Moreno JA, Sevillano A, Gutierrez E. IgA nephropathy: What patients are at risk of progression to end-stage renal disease and how should they be treated? *Nefrología*. 2018;38(4): 347-52. IF: 1.167 - Editorial Material.
- Rodríguez P, Mérida E, Hernández E, Milla M, Praga M. Hyperkalemia of non-renal origin in a hemodialysis patient. *Nefrología*. 2018;38(1): 96-7. IF: 1.167 - Letter.
- Milla Castellanos M, Gutiérrez Martínez E, Sevillano Prieto Á, Rodríguez Ramos P, Praga Terente M. Bile cast nephropathy associated with severe liver dysfunction caused by anabolic steroids. *Nefrología*. 2018;38(2): 221-3. IF: 1.167 - Letter.
- Milla M, Hernandez E, Merida E, Yuste C, Rodriguez P, Praga M. Heyde syndrome: Correction of anemia after aortic valve replacement in a hemodialysis patient. *Nefrología*. 2018;38(3): 327-9. IF: 1.167 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- **Candidate:** María Molina Gómez
Title: Análisis de los factores que determinan la supervivencia del injerto a largo plazo en el trasplante renal con donantes en asistolia no controlada fallecidos en la calle o en su domicilio
Director/s: Manuel Praga Terente, Amado Andrés Belmonte
Date Defended: 13/07/2018
University: Universidad Complutense de Madrid

PULMONARY SURFACTANT AND RESPIRATORY DISEASES



GROUP DIRECTOR

Pérez Gil, Jesús

Aranda Serrano, Elena
 Arroyo Rodríguez, Raquel
 Castillo Sánchez, José Carlos

Cruz Rodríguez, Antonio
 Echaide Torreguitar, Mercedes
 García Álvarez, Begoña

Hidalgo Román, Alberto
 Martínez Calle, Marta
 Olmeda Lozano, Bárbara

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	7	33.902
TOTAL	7	33.902

- Autilio C, Echaide M, De Luca D, Perez-Gil J. Controlled hypothermia may improve surfactant function in asphyxiated neonates with or without meconium aspiration syndrome. *Plos One*. 2018;13(2): e0192295. IF: 2.766 - Article.
- Cabre EJ, Martínez-Calle M, Prieto M, Fedorov A, Olmeda B, Loura LMS, Perez-Gil J. Homo- and hetero-oligomerization of hydrophobic pulmonary surfactant proteins SP-B and SP-C in surfactant phospholipid membranes. *Journal of Biological Chemistry*. 2018;293(24): 9399-411. IF: 4.010 - Article.
- Martinez-Calle M, Olmeda B, Dietl P, Frick M, Perez-Gil J. Pulmonary surfactant protein SP-B promotes exocytosis of lamellar bodies in alveolar type II cells. *FASEB Journal*. 2018;32(8): 4600-11. IF: 5.595 - Article.
- Merckx P, De Backer L, Van Hoecke L, Guagliardo R, Echaide M, Baatsen P, Olmeda B, Saelens X, Perez-Gil J, De Smedt SC, Raemdonck K. Surfactant protein B (SP-B) enhances the cellular siRNA delivery of proteolipid coated nanogels for inhalation therapy. *Acta Biomaterialia*. 2018;78: 236-46. IF: 6.383 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

169

- Lugones Y, Blanco O, Lopez-Rodríguez E, Echaide M, Cruz A, Perez-Gil J. Inhibition and counterinhibition of Surfacen, a clinical lung surfactant of natural origin. *Plos One*. 2018; 13(9): e0204050. IF: 2.766 - Article.
- Madsen J, Panchal MH, Mackay RA, Echaide M, Koster G, Aquino G, Pelizzi N, Perez-Gil J, Salomone F, Clark HW, Postle AD. Metabolism of a synthetic compared with a natural therapeutic pulmonary surfactant in adult mice. *Journal of Lipid Research*. 2018; 59(10): 1880-92. IF: 4.505 - Article.

- Guagliardo R, Perez-Gil J, De Smedt S, Raemdonck K. Pulmonary surfactant and drug delivery: Focusing on the role of surfactant proteins. *Journal of Controlled Release*. 2018; 291: 116-26. IF: 7.877 - Article.

MALE'S INTEGRAL HEALTH



GROUP DIRECTOR

Romero Otero, Javier

Alonso Isa, Manuel
Cabezali Barbancho, Daniel
Duarte Ojeda, José Manuel

García Gómez, Borja
García González, Lucía
Gómez Fraile, Andrés

Martín Díaz, Marcos
Medina Polo, José
Rodríguez Antolín, Alfredo

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of Projects
Competitive	ISCIII	1
Noncompetitive	Various	1
TOTAL		2

- Title:** Papel de STIM/ORAI en las alteraciones de diferentes lechos vasculares en el envejecimiento vascular humano. Valor pronóstico en receptores de trasplante renal.
Principal Investigator: Javier Romero Otero
Project No.: PI15/01969
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018, extended to 30/06/2020
- Title:** La carga de cáncer de próstata 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

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	15	54.525
Reviews	6	12.719
TOTAL	21	67.244

- Garcia-Cruz E, Carrion A, Ajami T, Alvarez M, Correas MA, Garcia B, Garcia JV, Gonzalez C, Portillo JA, Romero-Otero J, Simon C, Torremade J, Vigues F, Alcaraz A. The Patient's Comorbidity Burden Correlates with the Erectile Dysfunction Severity. *Actas Urologicas Espanolas*. 2018; 42(1): 57-63. IF: 1.260 - Article.
- Gil Moradillo J, Cabrera Meiras F, Alonso Isa M, Lara Isla A, Justo Quintas J, García Rojo E, González Padilla D, García Gómez B, Medina Polo J, Romero Otero J. Training program on medical urology: Future perspectives. *Archivos Espanoles de Urologia*. 2018; 71(1): 114-8. IF: 0.465 - Article.
- Seveso M, Melegari S, De Francesco O, Macchi, A, Romero Otero J, Taverna, G, Bozzini, G. Surgical correction of Peyronie's disease via tunica albuginea plication: long-term follow-up. *Andrology*. 2018; 6(1): 47-52. IF: 2.734 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Sopena-Sutil R, Medina-Polo J, Justo-Quintas J, Gil-Moradillo J, Garcia-Gonzalez L, Benitez-Sala R, Alonso-Isa M, Lara-Isla A, Tejido-Sanchez A. Healthcare-Associated Infections after Lower Urinary Tract Endoscopic Surgery: Analysis of Risk Factors, Associated Microorganisms and Patterns of Antibiotic Resistance. *Urologia Internationalis*. 2018;100(4): 440-4. IF: 1.508 - Article.
- Aneiros Castro B, Cabezalí Barbancho D, Tordable Ojeda C, Carrillo Arroyo I, Redondo Sedano J, Gómez Fraile A. Laparoendoscopic single-site nephrectomy in children: Is it a good alternative to conventional laparoscopic approach? *Journal of Pediatric Urology*. 2018;14(1): 49. e1-49. e4. IF: 1.935 - Article.
- Chi KN, Protheroe A, Rodriguez-Antolin A, Facchini G, Suttmann H, Matsubara N, Ye Z, Keam B, Damião R, Li T, McQuarrie K, Jia B, De Porre P, Martin J, Todd MB, Fizazi K. Patient-reported outcomes following abiraterone acetate plus prednisone added to androgen deprivation therapy in patients with newly diagnosed metastatic castration-naïve prostate cancer (LATITUDE): an international, randomised phase 3 trial. *Lancet Oncology*. 2018;19(2): 194-206. IF: 36. 418 - Article.
- Henriquez I, Rodriguez-Antolin A, Cassinello J, Gonzalez San Segundo C, Unda M, Gallardo E, Lopez-Torrecilla J, Juarez A, Arranz J. Consensus statement on definition, diagnosis, and management of high-risk prostate cancer patients on behalf of the Spanish Groups of Uro-Oncology Societies URONCOR, GUO, and SOGUG. *Clinical & Translational Oncology*. 2018;20(3): 392-401. IF: 2.392 - Article.
- Justo-Quintas J, Medina-Polo J, Gil-Moradillo J, Jaen-Herreros F, Lara-Isla A, Tejido-Sanchez A. Infections by carbapenemase-producing enterobacteriaceae in a department of urology. A new challenge. *Actas Urologicas Espanolas*. 2018;42(3): 170-5. IF: 1.260 - Article.
- Rodriguez Antolin A, Romero Otero J, Duarte Ojeda J, Garcia Gonzalez L, Sopena Sutil R, Gonzalez Padilla D, Garcia Rojo E, Justo Quintas J, Minana Lopez B. Maximal androgen deprivation with abiraterone acetate in hormone sensitive prostate cancer. *Archivos Espanoles de Urologia*. 2018;71(3): 267-75. IF: 0.465 - Article.
- Guerrero-Ramos F, Castellano-Gauna D, Garcia-Rojo E, Duarte-Ojeda JM, de la Rosa-Kehrmann F, Villacampa-Auba F. Mitomycin C HIVEC. Update and results in high risk patients. *Archivos Espanoles de Urologia*. 2018;71(4): 417-25. IF: 0.465 - Article.

- Romero Otero J, García Gómez B, Medina Polo J, García Rojo E, García Cruz E, Peinado F, Sopeña Sutil R, Bozzini G, Rodríguez Antolín A. The Brief Sexual Symptom Checklist as a Screening Tool for Sex-Related Problems in the Primary Care Setting: Focus on Erectile Dysfunction. *Urologia Internationalis*. 2018;101(1): 98-105. IF: 1.508 - Article.
- Fuentes S, Gómez-Fraile A, Carrillo-Arroyo I, Tordable-Ojeda C, Cabezalí-Barbancho D, López F, Aransay Bramtot A. Factors involved in the late failure of endoscopic treatment of vesicoureteral reflux. *Actas Urologicas Espanolas*. 2018;42(5): 331-7. IF: 1.260 - Article.
- Fuentes S, Gomez-Fraile A, Carrillo-Arroyo I, Cabezalí-Barbancho D, Tordable-Ojeda C. Endoscopically treated vesicoureteral reflux: Evolution of the recurrences. *Archivos Espanoles de Urologia*. 2018;71(5): 495-501. IF: 0.465 - Article.
- Medina-Polo J, Arrebola-Pajares A, de la Rosa-Kehrmann S, Romero-Otero J, Garcia-Gomez B, Alonso-Isa M, Lara-Isla A, Duarte-Ojeda JM, Rodriguez-Antolin A, Passas-Martinez JB. Correlation between symptoms and urodynamic results in patients with urinary incontinence after radical prostatectomy. *Archivos Espanoles de Urologia*. 2018;71(6): 523-30. IF: 0.465 - Article.
- Aneiros Castro B, Cano I, Garcia A, Yuste P, Ferrero E, Gomez A. Abdominal Drainage After Laparoscopic Appendectomy in Children: An Endless Controversy? *Scandinavian Journal of Surgery*. 2018;107(3): 197-200. IF: 1.925 - Article.
- Bozzini G, Albersen M, Otero JR, Margreiter M, Cruz EG, Mueller A, Gratzke C, Serefoglu EC, Salamanca JIM, Verze P; European Association of Urology Young Academic Urologists Men's Health working p. Delaying Surgical Treatment of Penile Fracture Results in Poor Functional Outcomes: Results from a Large Retrospective Multicenter European Study. *European Urology Focus*. 2018;4(1): 106-10. IF: N/A - Article.
- Elias Pollina J, Martí Carrera E, Romero Otero J. Unidades de transición. *Cirugía Pediátrica*. 2018;31(3): 105-6. IF: N/A - Article.
- Garcia-Gomez B, Ralph D, Levine L, Moncada-Iribarren I, Djinovic R, Albersen M, Garcia-Cruz E, Romero-Otero J. Grafts for Peyronie's disease: a comprehensive review. *Andrology*. 2018;6(1): 117-26. IF: 2.734 - Review.
- Unda-Urzaiz M, Sousa-Campo R, Rodríguez-Antolín A, Silva-Marins C, Juárez-Soto A, Miñana-López B, Figueiredo-de Castro A, Cozar-Olmos JM. Radium-223 in the therapeutic sequence of metastatic castration-resistant prostate cancer. *Actas Urologicas Espanolas*. 2018;42(4): 227-37. IF: 1.260 - Review.
- Garcia-Cruz E, Romero-Otero J, Fode M, Alcaraz A. The digital environment in men's sexual disorders: A systematic review. *Actas Urologicas Espanolas*. 2018;42(6): 365-74. IF: 1.260 - Review.
- Moncada I, Martinez-Salamanca J, Ruiz-Castane E, Romero J. Combination therapy for erectile dysfunction involving a PDE5 inhibitor and alprostadil. *International Journal of Impotence Research*. 2018;30(5): 203-8. IF: 1.517 - Review.
- Vela-Navarrete R, Alcaraz A, Rodriguez-Antolin A, Minana Lopez B, Fernandez-Gomez JM, Angulo JC, Castro Diaz D, Romero-Otero J, Brenes FJ, Carballido J, Molero Garcia JM, Fernandez-Pro Ledesma A, Cozar Olmos JM, Manasanch Dalmau J, Subirana Cachinero I, Herdman M, Ficarra V. Efficacy and safety of a hexanic extract of Serenoa repens (Permixon (R)) for the treatment of lower urinary tract symptoms associated with benign prostatic hyperplasia (LUTS/BPH): systematic review and meta-analysis of randomised controlled trials and observational studies. *BJU International*. 2018;122(6): 1049-65. IF: 4.688 - Review.
- Gomez-Veiga F, Alvarez-Ossorio JL, Carballido-Rodriguez J, Juarez-Soto A, Rodriguez-Antolin A, Cozar-Olmo JM. Radium-223 for the treatment of metastatic castration-resistant prostate cancer: A window of opportunity. *Actas Urologicas Espanolas*. 2018;42(10): 616-24. IF: 1.260 - Review.

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Alejandro León Bayan
Title: Estudio prospectivo sobre el efecto en la función eréctil y síntomas del tracto urinario inferior de la biopsia prostática transrectal comparación frente a la biopsia perineal (trabajo de fin de grado en medicina con nivel de máster)
Director: Borja García Gómez
Degree: Medicina (UCM)

PRIZES AND AWARDS

- Prize granted by the International Society for Sexual Medicine (ISSM)
 Emil Tanagho Prize - Angulo J, Romero-Otero J, El Assar M, La Fuente JM, Fernández A, Sánchez-Ferrer A, Sevilleja-Ortiz A, García-Gómez B, Medina Polo J, Rodríguez-Mañas L. Antagonizing penile smooth muscle contraction by inhibition of Orai calcium channels. A potential therapeutic target in erectile dysfunction. 2018 World Meeting on Sexual Medicine. Lisbon 28 February-3

TISSUE ENGINEERING



GROUP DIRECTOR

Serrano Hernández, Antonio

Alonso Riaño, Marina
Cabrera Marante, Óscar
Martínez Chamorro, Mª Elena
Martínez González, Miguel Ángel

Martínez Salio, Antonio
Morales Cerdán, José Mª
Pérez Méndez, Mª Dolores
Serrano Blanco, Manuel

Vázquez Benítez, Greysy Tibisay
Villar Ruiz, Olga Patricia

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	2
TOTAL		2

- Title:** Inmunocomplejos antifosfolípidicos circulantes en la sangre como factor patogénico de eventos trombóticos y morbilidad gestacional.

Principal Investigator: Antonio Serrano Hernández

Project No.: PII7/00147

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.: PII4/00360

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 2017)
Articles	9	35.927
Reviews	3	14.190
Editorials	1	3.783
TOTAL	13	53.900

- Bellido C, Barbero P, Forcen L, Blanco M, Alonso-Riano M, Galindo A. Clinical and economic outcomes associated with the use of fluticasone propionate 250 mcg and salmeterol 50 mcg combination versus tiotropium bromide: 18 mcg as initial maintenance treatment for chronic obstructive pulmonary disease in managed care. *Journal of Maternal-Fetal & Neonatal Medicine*. 2018;21(6): 629-38. IF: 1.493 - Article.
- Perez D, Tincani A, Serrano M, Shoenfeld Y, Serrano A. Antiphospholipid syndrome and IgA anti-beta2-glycoprotein I antibodies: when Cinderella becomes a princess. *Lupus*. 2018;27(2): 177-8. IF: 2.969 - Article.
- Morales JM, Serrano M, Martinez-Flores JA, Gainza FJ, Marcen R, Arias M, Escuin F, Perez D, Andres A, Martinez MA,

Maruri N, Alvarez E, Castaner JL, Lopez-Hoyos M, Serrano A. Pretransplant IgA-Anti-Beta 2 Glycoprotein I Antibodies As a Predictor of Early Graft Thrombosis after Renal Transplantation in the Clinical Practice: A Multicenter and Prospective Study. *Frontiers in Immunology*. 2018;9: 468. IF: 5.511 - Article.

Garcia-Escudero R, Segrelles C, Duenas M, Pombo M, Ballestin C, Alonso-Riano M, Nenclares P, Alvarez-Rodriguez R, Sanchez-Aniceto G, Ruiz-Alonso A, Lopez-Cedrun JL, Paramio JM, Lorz C. Overexpression of PIK3CA in head and neck squamous cell carcinoma is associated with poor outcome and activation of the YAP pathway. *Oral Oncology*. 2018;79: 55-63. IF: 4.636 - Article.

Pérez D, Gilburd B, Cabrera-Marante Ó, Martínez-Flores JA, Serrano M, Naranjo L, Pleguezuelo D, Morillas L, Shovman O, Paz-Artal E, Shoenfeld Y, Serrano A. Predictive autoimmunity using autoantibodies: screening for anti-nuclear antibodies. *Clinical Chemistry and Laboratory Medicine*. 2018;56(10): 1771-7. IF: 3.556 - Article.

Infantino M, Shovman O, Pérez D, Grossi V, Manfredi M, Benucci M, Damiani A, Gilburd B, Azoulay D, Serrano A, Shoenfeld Y. A better definition of the anti-DFS70 antibody screening by IIF methods. *Journal of Immunological Methods*. 2018;461: 110-6. IF: 2.190 - Article.

Jadoul M, 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, Gordon CE, Earley A, Di M, Martin P. Executive summary of the 2018 KDIGO Hepatitis C in CKD Guideline: welcoming advances in evaluation and management. *Kidney International*. 2018;94(4): 663-73. IF: 8.429 - Article.

Marin-Gabriel JC, Lora-Pablos D, Diaz-Tasende J, Cancelas-Navia P, Rodriguez-Munoz S, del-Pozo-Garcia AJ, Alonso-Riano M, Rodriguez-Gil Y, Ibarrola-Andres C, Castellano-Tortajada G. Switching from endoscopic submucosal dissection to salvage piecemeal knife-assisted snare resection to remove a lesion: a preoperative risk score from the beginning. *Revista Espanola de Enfermedades Digestivas*. 2018;110(11): 699-705. IF: 1.632 - Article.

Perez D, Stojanovich L, Naranjo L, Stanisavljevic N, Bogdanovic G, Serrano M, Serrano A. Presence of Immune Complexes of IgG/IgM Bound to B2-glycoprotein I Is Associated With Non-criteria Clinical Manifestations in Patients With Antiphospholipid Syndrome. *Frontiers in Immunology*. 2018;9: 2644. IF: 5.511 - Article.

- Morales E, Alonso M, Sarmiento B, Morales M. LCAT deficiency as a cause of proteinuria and corneal opacification. *BMJ Case Reports*. 2018;2018. IF: N/A - Article.

- Perez D, Gilburd B, Azoulay D, Shovman O, Bizzaro N, Shoenfeld Y. Antinuclear antibodies: Is the indirect immunofluorescence still the gold standard or should be replaced by solid phase assays? *Autoimmunity Reviews*. 2018;17(6): 548-52. IF: 8.745 - Review.

- Pérez D, Azoulay D. Anti-DFS70 autoantibodies in HIV-1-positive individuals. *Current Opinion in Rheumatology*. 2018;30(4): 361-4. IF: 4.277 - Review.

- Cañero T, Alonso M. Where are we with haemolytic uremic syndrome? *Medicina Clinica*. 2018;151(8): 329-35. IF: 1.168 - Review.

- Rodríguez-López C, Guerrero Molina MP, Martínez Salio A. Pure alexia: two cases and a new neuroanatomical classification. *Journal of Neurology*. 2018;265(2): 436-8. IF: 3.783 - Editorial Material.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Manuel Serrano Blanco
Title: Anticuerpos antifosfolípicos de clase IgA como factor de riesgo para morbi-mortalidad cardiovascular en el trasplante de órganos sólidos
Director/s: José Mª Morales Cerdán, Antonio Serrano Hernández
Date Defended: 12/02/2018
University: Universidad Complutense de Madrid

PATENTS

- Title:** Inmunocomplejos artificiales y su uso como calibres en sistemas de detección de Inmunocomplejos circulantes B2GPI-aB2GPI.
Number: P201830367.
Type: Spanish patent.
Inventors: Antonio Serrano Hernández, Manuel Serrano Blanco, José Ángel Martínez Flores.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Date of application: 12/04/2018

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ABDOMINAL ORGAN TRANSPLANT



GROUP DIRECTOR

Jiménez Romero, Luis Carlos

Abradelo de Usera, Manuel
Callejo Martín, Ángel
Calvo Pulido, Jorge
Cambra Molero, Félix
Caso Maestro, Óscar
Cortes Guerrero, Manuel
García Gómez, Mónica

García Gutiérrez, Adolfo Francisco
García-Sesma Pérez-Fuentes, Álvaro
González González, Olga
Guerrero Díez, María
Jiménez García, Raquel
Justo Alonso, Iago
Kadaoui Boudih, Salah-Din

Loinaz Segurola, Carmelo
Manrique Municio, Alejandro
Marcacuzco Quinto, Alberto Alejandro
Pérez-Cerda Silvestre, Francisco de Paula
Ruiz de las Heras, Jesús
Torcal Abián, Fernando
Valencia Orgaz, Óscar

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of Projects
Competitive	FMM	2
TOTAL		2

• **Title:** Modelo predictivo de viabilidad de injerto hepático basado en factores histopatológicos, bioquímicos e inmunológicos en donante de corazón parado tipo II de Maastricht.
Principal Investigator: Manuel Abradelo de Usera

Project No.: FIMM 2011/0086

Funding Body: Fundación Mutua Madrileña (FMM)

Start date: 21/06/2011

End date: 31/07/2018

• **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 Mutua Madrileña (FMM)

Start date: 25/09/2013

End date: 25/09/2016, extended to 31/05/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	14	30.882
Reviews	1	4.356
Editorials	1	0.841
TOTAL	16	36. 079
Letters	1	12.242
TOTAL	17	48. 321

- Jimenez-Romero C, Marcacuzco Quinto A, Manrique Municio A, Justo Alonso I, Calvo Pulido J, Cambra Molero F, Caso Maestro Ó, Garcia-Sesma A, Moreno González E. Simultaneous Pancreas-Kidney Transplantation. Experience of the Doce de Octubre Hospital. Cirugia Española. 2018;96(1): 25-34. IF: 0.841 - Article.
- Martinez-Caballero J, Marcacuzco-Quinto AA, Justo-Alonso I, Nutu OA, Manrique-Municio A, Calvo-Pulido J, Cambra-Molero F, Caso-Maestro O, Jimenez-Romero C. Liver-kidney

simultaneous transplantation in adult patients with primary hyperoxaluria. Experience at Hospital Universitario 12 de Octubre. Revista Espanola de Enfermedades Digestivas. 2018;110(2): 82-7. IF: 1.632 - Article.

- Nutu OA, Justo-Alonso I, Marcacuzco-Quinto AA, Calvo-Pulido J, Jimenez-Romero LC. Complete splenic embolization for the treatment of refractory ascites after liver transplantation. Revista Espanola de Enfermedades Digestivas. 2018;110(4): 257-9. IF: 1.632 - Article.
- Quezada-Loaiza CA, de Pablo Gafas A, Perez V, Alonso R, Juarros L, Real MI, Lopez E, Cortes M, Meneses JC, Gonzalez IH, Diaz-Hellin Gude V, Subias PE, Gamez P. Lung Transplantation in Pulmonary Hypertension: A Multidisciplinary Unit's Management Experience. Transplantation Proceedings. 2018;50(5): 1496-503. IF: 0.806 - Article.
- Marcacuzco A, Jimenez-Romero C, Manrique A, Calvo J, Cambra F, Caso O, Garcia-Sesma A, Nutu A, Justo I. Outcome of patients with hemodialysis or peritoneal dialysis undergoing simultaneous pancreas-kidney transplantation. Comparative study. Clinical Transplantation. 2018;32(6): e13268. IF: 1.518 - Article.
- Justo I, Marcacuzco A, Nutu OA, Manrique A, Calvo J, Caso O, Cambra F, Garcia-Sesma A, Jimenez-Romero LC. A retrospective analysis of patients with gallbladder cancer: surgical treatment and survival according to tumor stage. Revista Espanola de Enfermedades Digestivas. 2018;110(8): 485-92. IF: 1.632 - Article.
- Caso-Maestro O, Justo-Alonso I, Marcacuzco Quinto A, Calvo Pulido J, Jimenez-Romero C. Tumor recurrence after liver transplantation for diffuse biliary papillomatosis in the absence of invasive carcinoma. Revista Espanola de Enfermedades Digestivas. 2018;110(8): 526-28. IF: 1.632 - Article.
- Manzardo C, Londono MC, Castells L, Testillano M, Montero JL, Penafiel J, Subirana M, Moreno A, Aguilera V, Gonzalez-Dieguez ML, Calvo-Pulido J, Xiol X, Salcedo M, Cuervas-Mons V, Sousa JM, Suarez F, Serrano T, Herrero JL, Jimenez M, Fernandez JR, Gimenez C, Del Campo S, Esteban-Mur JL, Crespo G, Moreno A, de la Rosa G, Rimola A, Miro JM; FIPSE LT-HIV investigators. Direct-acting antivirals are effective and safe in HCV/HIV-coinfected liver transplant recipients who experience recurrence of hepatitis C: A prospective nationwide cohort study. American Journal of Transplantation. 2018;18(10): 2513-22. IF: 6.493 - Article.
- Vazquez CC, Quinto AM, Municio AM, Alonso IJ, Maestro OC, Pulido JC, Delgado MGC, Nutu OA, Jimenez-Romero

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

C. Appendiceal endometriosis. A retrospective analysis of 11 years' experience. Clinica e Investigacion en Ginecologia y Obstetricia. 2018;45(4): 151-6. IF: N/A - Article.

• Joven BE, Escrivano P, Andreu JL, Loza E, Jimenez C, de Yebenes MJG, Ruiz-Cano MJ, Carmona L, Carreira PE. 2013 ACR/EULAR systemic sclerosis classification criteria in patients with associated pulmonary arterial hypertension. Seminars in Arthritis and Rheumatism. 2018;47(6): 870-6. IF: 4.356 - Review.

• Granell M, Parra MJ, Jiménez MJ, Gallart L, Villalonga A, Valencia O, Unzueta MC, Planas A, Calvo JM. Review of difficult airway management in thoracic surgery. Revista Espanola De Anestesiologia Y Reanimacion. 2018;65(1): 31-40. IF: N/A - Review.

• González González L, Cambra Molero F, Taboada Mostajo N, Carlos Jiménez Romero L. Double inferior vena cava with double left renal vein. Cirugia Espanola. 2018;96(6): 378. IF: 0.841 - Editorial Material.

- Otero R, Bertoletti L, Muriel A, Siniscalchi C, Jimenez C, Lobo JL, Kigitovica D, Quintavalla R, Rocci A, Jara-Palomares L, Montreal M; RIETE Investigators. Role of a clinical prediction score in a chronic thromboembolic pulmonary hypertension rule-out strategy. European Respiratory Journal. 2018;51(4): 1702576. IF: 12.242 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

• **Candidate:** María García Nebreda

Title: Caracterización anatomo-clínica y molecular del cáncer colorrectal en adultos jóvenes y comparación con pacientes mayores de 65 años

Director/s: Luis Carlos Jiménez Romero, Ioria Pasero Crespo, Edurne Álvaro Cifuentes

Date Defended: 19/04/2018

University: Universidad Complutense de Madrid

CRITICAL PATIENT



GROUP DIRECTOR

Montejo González, Juan Carlos

Sánchez-Izquierdo Riera, José Ángel
Temprano Vázquez, Susana

Catalán González, M^a de las Mercedes
Chico Fernández, Mario
Grau Carmona, Teodoro
Lázaro Martín, Noelia Isabel
Renes Carreño, Emilio
Sáez de la Fuente, Ignacio

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	12	38.996
Reviews	1	5.496
Editorials	1	1.755
TOTAL	14	46. 247
Letters	5	164.276
TOTAL	19	210. 523

- Gómez Tello V, Ruiz Moreno J, Weiss, M, González Marín E, Merino de Cos P, Franco Garrobo N, Alonso Ovies A, Montejo González JC, Iber, T, Marx, G, Córcoles González V, Gordo Vidal F, Palencia Herrejón E, Roca Guiseris J; en nombre de la Sociedad Española de Medicina Intensiva y del German Board of An. Physician staffing needs in critical care departments. Medicina Intensiva. 2018;42(1): 37-46. IF: 1.755 - Article.
- Sirgo Rodriguez G, Chico Fernandez M, Gordo Vidal F, Garcia Arias M, Holanda Pena MS, Azcarate Ayerdi B, Bisbal Andres E, Ferrandiz Selles A, Lorente Garcia PJ, Garcia, MG, Merino de Cos P, Allegue Gallego JM, Garcia de Lorenzo Y Mateos A, Trenado Alvarez J, Rebollo Gomez

P, Martin Delgado MC; Grupo de Trabajo de Planificacion, Organizacion y Gestión de la Sociedad Espanol. Handover in Intensive Care. Medicina Intensiva. 2018;42(3): 168-79. IF: 1.755 - Article.

• Barea-Mendoza JA, Chico-Fernandez M, Sanchez-Casado M, Molina-Diaz I, Quintana-Diaz M, Jimenez-Moragas JM, Perez-Barcena J, Llompart-Pou JA; en representacion del Grupo de Trabajo de Neurointensivismo y Trauma de la Socie. Predicting survival in geriatric trauma patients: A comparison between the TRISS methodology and the Geriatric Trauma Outcome Score. Cirugia Espanola. 2018;96(6): 357-62. IF: 0.841 - Article.

• Garcia MDD, Casas NV, Blanco AC, Fuster FML, Wandenberghe C, Aviles V, Enguidanos RA, Lopez IF, Soria JBM, Gonzalez JCM, Lesmes IB, Hernandez JA, Villares JMM; Soc Espanola Nutr Clinica. Nutritional management of amyotrophic lateral sclerosis:summary of recommendations. Nutricion Hospitalaria. 2018;35(5): 1243-51. IF: 0.845 - Article.

• Moreno G, Rodríguez A, Reyes LF, Gomez J, Sole-Violan J, Díaz E, Bodí M, Trefler S, Guardiola J, Yébenes JC, Soriano A, Garnacho-Montero J, Socias L, Del Valle Ortiz M, Correig E, Marín-Corral J, Vallverdú-Vidal M, Restrepo MI, Torres A, Martín-Lloches I; GETGAG Study Group. Corticosteroid treatment in critically ill patients with severe influenza pneumonia: a propensity score matching study. Intensive Care Medicine. 2018;44(9): 1470-82. IF: 15.008 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Gonzalez de Molina Ortiz FJ, Gordo Vidal F, Estella Garcia A, Morrondo Valdeolmillos P, Fernandez Ortega JF, Caballero Lopez J, Perez Villares PV, Ballesteros Sanz MA, de Haro Lopez C, Sanchez-Izquierdo Riera JA, Serrano Lazaro A, Fuset Cabanes MP, Terceros Almanza LJ, Nuvials Casals X, Baldira Martinez de Irujo J; grupos de trabajo de la Sociedad Espanola de Medicina Intensiva, Critica y Unida. "Do not do" recommendations of the working groups of the Spanish Society of Intensive and Critical Care Medicine and Coronary Units (SEMICYUC) for the management of critically ill patients. *Medicina Intensiva*. 2018;42(7): 425-43. IF: 1.755 - Article.
- Garcia-Gigorro R, Renes-Carreno E, Corres-Peiretti MA, Arribas-Lopez P, Perez-Vela JL, Gutierrez-Rodriguez J, Delgado JF, Cortina-Romero JM, Montejo-Gonzalez JC. Incidence, Risk Factors and Outcomes of Early Acute Kidney Injury After Heart Transplantation: An 18-year Experience. *Transplantation*. 2018;102(11): 1901-8. IF: 3.960 - Article.
- de Nadal M, Perez-Hoyos S, Montejo-Gonzalez JC, Pearse R, Aldecoa C; European Surgical Outcomes Study (EuSOS) in Spain. Intensive care admission and hospital mortality in the elderly after non-cardiac surgery. *Medicina Intensiva*. 2018; 42(8): 463-72. IF: 1.755 - Article.
- Alvarez-Lerma F, Olaechea-Astigarraga P, Palomar-Martinez M, Catalan M, Nuvials X, Gimeno R, Gracia-Arnillas MP, Seijas-Betolaza I; ENVIN-HELICS Study Group. Invasive device-associated infections caused by *Pseudomonas aeruginosa* in critically ill patients: evolution over 10 years. *Journal of Hospital Infection*. 2018;100(3): 204-8. IF: 3.354 - Article.
- Orejana Martin M, Cornejo Bauer C, Torrente Vela SA, Garcia Fuentes C, Lopez Lopez C, Montejo Gonzalez JC. The efficacy of caloric intake in critically ill patients with traumatic pathology. *Nutricion Hospitalaria*. 2018;35(6): 1257-62. IF: 0.845 - Article.
- Pulido MR, Moreno-Martínez P, González-Galán V, Fernández Cuenca F, Pascual Á, Garnacho-Montero J, Antonelli M, Dimopoulos G, Lepe JA, McConnell MJ, Cisneros JM; MagicBullet Working Group. Application of BioFire FilmArray Blood Culture Identification panel for rapid identification of the causative agents of ventilator-associated pneumonia. *Clinical Microbiology and Infection*. 2018;24(11): 1213. e1-1213. e4. IF: 5.394 - Article.
- García-Gigorro R, Sáez-de la Fuente I, Marín Mateos H, Andrés-Esteban EM, Sanchez-Izquierdo JA, Montejo-González JC. Utility of SOFA and Delta-SOFA scores for predicting outcome in critically ill patients from the emergency department. *European Journal of Emergency Medicine*. 2018;25(6): 387-93. IF: 1.729 - Article.
- Lopez-Lopez C, Arranz-Esteban A, Martinez-Ureta MV, Sanchez-Rascon MC, Morales-Sanchez C, Chico-Fernandez M. Does a history of psychoactive substances abuse play a role in the level of pain of the patient with severe trauma? *Enfermeria Intensiva*. 2018;29(2): 64-71. IF: N/A - Article.
- Rubio O, Arnau A, Cano S, Subira C, Balerdi B, Perea ME, Fernandez-Vivas M, Barber M, Llamas N, Altaba S, Prieto A, Gomez V, Martin M, Paz M, Quesada B, Espanol V, Montejo JC, Gomez JM, Miro G, Xirgu J, Ortega A, Rascado P, Sanchez JM, Marcos A, Tizon A, Monedero P, Zabala E, Murcia C, Torrejon I, Planas K, Anon JM, Hernandez G, Fernandez MDM, Guia C, Araujo V, Perez JM, Catalan R, Gonzalez J, Poyo R, Tomas R, Saralegui I, Mancebo J, Sprung C, Fernandez R. Limitation of life support techniques at admission to the intensive care unit: a multicenter prospective cohort study. *Journal of Intensive Care*. 2018;6: 24. IF: N/A - Article.
- Calder PC, Adolph M, Deutz NE, Grau T, Innes JK, Klek S, Lev S, Mayer K, Michael-Titus AT, Pradelli L, Puder M, Vlaardingerbroek H, Singer P. Lipids in the intensive care unit: Recommendations from the ESPEN Expert Group. *Clinical Nutrition*. 2018;37(1): 1-18. IF: 5.496 - Review.
- Grau Carmona T. How much weight today doctor? Overconfidence or zeal excess. *Medicina Intensiva*. 2018; 42(6): 327-8. IF: 1.755 - Editorial Material.
- Chico-Fernández M, Sánchez-Casado M, Llompart-Pou JA. Trauma registry in Spain. Comment to "Trauma systems around the world: A systematic overview". *Journal of Trauma and Acute Care Surgery*. 2018;84(1): 217-8. IF: 3.695 - Letter.
- Viejo Moreno R, Sánchez-Izquierdo Riera JA, Molano Álvarez E, Mendoza JA, Temprano Vázquez S, Díaz Castellano L, Montejo González JC. Improvement of the safety of a clinical process using failure mode and effects analysis: Prevention of venous thromboembolic disease in critically ill patients. *Medicina Intensiva*. 2018;42(2): 135-6. IF: 1.755 - Letter.
- Chico-Fernández M, Sánchez-Casado M, Ballesteros-Sanz MÁ, Llompart-Pou JA. Severe head injury in Spain. *Neurocirugia*. 2018;29(2): 107-8. IF: 0.310 - Letter.
- Barea-Mendoza J, Chico-Fernandez M, Montejo-Gonzalez JC. Balanced Crystalloids versus Saline in Critically Ill Adults. *New England Journal of Medicine*. 2018;378(20): 1949. IF: 79.258 - Letter.

- Chico-Fernandez M, Palomino-Sanchez I, Barea-Mendoza J. Ultrasound-Guided Cannulation of the Subclavian Vein - An Update. *New England Journal of Medicine*. 2018;379(16): e27. IF: 79.258 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Almudena Escribá Bárcena
Title: Influencia de la implementación de programas de prevención de la infección nosocomial en las unidades de cuidados intensivos en las tasas de infección nosocomial en pacientes con cardiopatía aguda
Director/s: Juan Carlos Montejo González, Mercedes Palmer Martínez, Joaquín Álvarez Rodríguez
Date Defended: 14/12/2018
University: Universidad Complutense de Madrid

- Candidate: Emilio Renes Carreño
Title: Perfil de la infección nosocomial en los pacientes con cardiopatía aguda ingresados en las UCI españolas
Director/s: Juan Carlos Montejo González, Francisco Álvarez Lerma, Mercedes Catalán González
Date Defended: 14/12/2018
University: Universidad Complutense de Madrid

KIDNEY TRANSPLANT



GROUP DIRECTOR

Andrés Belmonte, Amado

Auñón Rubio, M^a Pilar
 Bello Mimbrera, Tomás
 Cebrián Espejo, M^a Paz
 Delgado Arranz, M^a Isabel
 García Santiago, Ana

Gutiérrez Solís, Elena
 Hernández Vicente, Ana M^a
 Mercado Valdivia, Verónica Ruth
 Molina Gómez, María
 Nuño Santana, Enriqueta Isabel

Polanco Fernández, Natalia Inmaculada
 Vázquez Guntin, Sofía
 Vereda Rodríguez, Soledad

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	FMM	1
Noncompetitive	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 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 2017)
Articles	10	41.996
Reviews	1	3.000
TOTAL	11	44.996
Letters	1	5.863
TOTAL	12	50.859

- Cicuéndez M, Doadrio JC, Hernández A, Portolés MT, Izquierdo-Barba I, Vallet-Regí M. Multifunctional pH sensitive 3D scaffolds for treatment and prevention of bone infection. *Acta Biomaterialia*. 2018;65: 450-61. IF: 6.383 - Article.
- Lopez-Medrano F, Fernandez-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Perez-Saez MJ, Montero M, Coussement J, de Abreu Mazzolin M, Cervera C, Santos L, Sabe N, Scemla A, Cordero E, Cruzado-Vega L, Martin-Moreno PL, Len O, Rudas E, Ponce de León A, Arriola M, Lauzurica R, David MD, Gonzalez-Rico C, Henriquez-Palop F, Fortun J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Vena A, Sanchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T,

Moreno A, Carratala J, Blanes M, Hernande, D, Hernandez-Mendez EA, Fariñas MC, Perello-Carrascosa M, Muñoz P, Andres A, Aguado JM; Spanish Network for Research in Infectious Diseases (REIPI), Group for the Study of Infection in Transplant Recipients (GESITRA) of the Spanish Study Group for Infections in Compromised Hosts (ESGICH) of the European Society, Swiss Transplant Cohort Study (STCS). Multinational case-control study of risk factors for the development of late invasive pulmonary aspergillosis following kidney transplantation. *Clinical Microbiology and Infection*. 2018;24(2): 192-8. IF: 5.394 - Article.

- Fernandez-Ruiz M, Parra P, Ruiz-Merlo T, Lopez-Medrano F, San Juan R, Polanco N, Gonzalez E, Andres A, Aguado JM. Association between baseline serum hepcidin levels and infection in kidney transplant recipients: Potential role for iron overload. *Transplant Infectious Disease*. 2018;20(1): e12807. IF: 1.869 - Article.
- de la Calle GM, Fernandez-Ruiz M, Lopez-Medrano F, Polanco N, Gonzalez E, San Juan R, Ruiz-Merlo T, Origuen J, Paz-Artal E, Andres A, Aguado JM. Post-transplant hypocomplementemia: A novel marker of cardiovascular risk in kidney transplant recipients? *Atherosclerosis*. 2018;269: 204-10. IF: 4.467 - Article.

Fernandez-Ruiz M, Polanco N, Garcia-Santiago A, Munoz R, Hernandez AM, Gonzalez E, Mercado VR, Fernandez I, Aguado JM, Praga M, Andres A. Herpes zoster in kidney transplant recipients: protective effect of anti-cytomegalovirus prophylaxis and natural killer cell count. A single-center cohort study. *Transplant International*. 2018;31(2): 187-97. IF: 3.196 - Article.

- Gutierrez E, Praga M, Rivera F, Sevillano A, Yuste C, Goicoechea M, Lopez-Gomez JM; all members of the Spanish Registry of Glomerulonephritis. Changes in the clinical presentation of immunoglobulin A nephropathy: data from the Spanish Registry of Glomerulonephritis. *Nephrology Dialysis Transplantation*. 2018;33(3): 472-7. IF: 4.600 - Article.

Morales JM, Serrano M, Martinez-Flores JA, Gainza FJ, Marcen R, Arias M, Escuin F, Perez D, Andres A, Martinez MA, Maruri N, Alvarez E, Castaner JL, Lopez-Hoyos M, Serrano A. Pretransplant IgA-Anti-Beta 2 Glycoprotein I Antibodies As a Predictor of Early Graft Thrombosis after Renal Transplantation in the Clinical Practice: A Multicenter and Prospective Study. *Frontiers in Immunology*. 2018;9: 468. IF: 5.511 - Article.

- Molina M, Allende LM, Ramos LE, Gutierrez E, Pleguezuelo DE, Hernandez ER, Rios F, Fernandez C, Praga M, Morales E. CD19(+) B-Cells, a New Biomarker of Mortality in

Hemodialysis Patients. *Frontiers in Immunology*. 2018;9: 1221. IF: 5.511 - Article.

- Fernandez-Ruiz M, Polanco N, Garcia-Santiago A, Munoz R, Hernandez AM, Gonzalez E, Mercado VR, Fernandez I, Aguado JM, Praga M, Andres A. Impact of anti-HCV direct antiviral agents on graft function and immunosuppressive drug levels in kidney transplant recipients: a call to attention in the mid-term follow-up in a single-center cohort study. *Transplant International*. 2018;31(8): 887-99. IF: 3.196 - Article.

Fernandez-Ruiz M, Corbella L, Morales-Cartagena A, Gonzalez E, Polanco N, Ruiz-Merlo T, Parra P, Silva JT, Lopez-Medrano F, San Juan R, Aramendi M, Andres A, Aguado JM. Vitamin D deficiency and infection risk in kidney transplant recipients: A single-center cohort study. *Transplant Infectious Disease*. 2018;20(6): e12988. IF: 1.869 - Article.

- Cruzado JM, Lauzurica R, Pascual J, Marcen R, Moreso F, Gutierrez-Dalmau A, Andres A, Hernandez D, Torres A, Beneyto MI, Melilli E, Manonelles A, Arias M, Praga M. Paricalcitol Versus Calcifediol for Treating Hyperparathyroidism in Kidney Transplant Recipients. *Kidney International Reports*. 2018;3(1): 122-32. IF: N/A - Article.

Del Pino M, Andres A, Bernabeu AA, de Juan-Rivera J, Fernandez E, de Dios Garcia Diaz J, Hernandez D, Luno J, Fernandez IM, Paniagua J, Posada de la Paz M, Rodriguez-Perez JC, Santamaría R, Torra R, Ambros JT, Vidau P, Torregrosa JV. Fabry Nephropathy: An Evidence-Based Narrative Review. *Kidney & Blood Pressure Research*. 2018;43(2): 406-21. IF: 3.000 - Review.

- Mateos Rodriguez AA, Andres Belmonte A, Egea Guerrero JJ, Elosegui Itxaso L, Sanchez Vila M, Mosteiro Pereira F, Ruiz A, Perez Villares JM. Use of mechanical cardiopressor in uncontrolled donation after cardiac death. *Resuscitation*. 2018;126: 1-2. IF: 5.863 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** María Molina Gómez

Title: Análisis de los factores que determinan la supervivencia del injerto a largo plazo en el trasplante Renal con donantes en asistolia no controlada fallecidos en la calle o en su domicilio

Director/s: Amado Andrés Belmonte, Manuel Praga Terente
Date Defended: 13/07/2018

University: Universidad Complutense de Madrid

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

AREA 3

RARE AND GENETICALLY BASED DISEASES

Coordinator: Martín Casanueva, Miguel Ángel

- RARE, MITOCHONDRIAL, AND NEUROMUSCULAR DISEASES**
- PATHOPHYSIOLOGY OF MITOCHONDRIAL BIOGENESIS**
- MITOCHONDRIAL MEMBRANES LABORATORY**
- PORPHYRIA, HAEMATOCHROMATOSIS AND ANEMIA**
- REGULATION OF CELLULAR HOMEOSTASIS**
- ALS RESEARCH GROUP**



RARE, MITOCHONDRIAL AND NEUROMUSCULAR DISEASES



GROUP DIRECTOR

Martín Casanueva, Miguel Ángel

Amate García, Guillermo	Delmiro Magdalena, Aitor	Jiménez García, Sara	Quijada Fraile, Mª del Pilar
Arenas Barbero, Joaquín	Docampo Cordeiro, Jorge	Laine Menende, Sara	Rodríguez García, Mª Elena
Asensio Peña, Sara	Domínguez González, Cristina	Martín Hernández, Elena	Rubio Muñoz, Juan Carlos
Bermejo Gómez, Verónica	Fernández de La Torre, Miguel	Martínez Azorín, Francisco	Sánchez Zapardiel, José Manuel
Blázquez Encinar, Alberto	García Silva, Mª Teresa	Morales Conejo, Montserrat	Serrano Lorenzo, Pablo
Carnicero Rodríguez, Patricia	García-Consuegra Galiana, Inés	Morán Bermejo, Mª Jesús	Ugalde Bilbao, Cristina
Cotrina Vinagre, Francisco Javier	Garrido Moraga, Rocío	Peñas Pita Da Veiga, Ana	
del Hoyo Gordillo, Mª del Pilar	González Quintana, Adrián	Pérez Pérez, Rafael	

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	University of Miami	2
Competitive	ISCIII	10
Competitive	FMM	2
Noncompetitive	Otros	1
TOTAL		15

- **Title:** The biosynthetic pathway of mitochondrial respiration.
Principal Investigator: Cristina Ugalde Bilbao
Funding Body: University of Miami
Start date: 01/05/2014
End date: 31/01/2018, extended to 31/12/2018
- **Title:** Desarrollo de una plataforma de diagnóstico no invasivo para las enfermedades oxfos 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:** The biosynthetic pathway of mitochondrial respiration. The biosynthetic pathway of mitochondrial respiration.
Principal Investigator: Cristina Ugalde Bilbao
Funding Body: University of Miami
Start date: 01/02/2017
End date: 31/05/2018, extended to 31/12/2019
- **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.: PII7/00487
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020

- **Title:** Innovación terapéutica en enfermedad de MCARD-LE:Terapia sustitutiva de miofosforilasa mediante vehículos liposómicos.

Principal Investigator: Joaquín Arenas Barbero
Project No.: PII7/02052
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 I: variabilidad genética y función mitocondrial.

Principal Investigator: Miguel Ángel Martín Casanueva
Project No.: PII15/00431
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.: PII4/00903
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.: PII4/01085
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.: PII4/00209
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.: PII4/00790
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 Mutua Madrileña (FMM)
Start date: 14/09/2018
End date: 13/09/2021

- **Title:** Fisiopatogenia de la mutación M. 3243A>G del ADN Mitocondrial: estudio clínico, evolutivo y genética, en una cohorte prospectiva de pacientes españoles.

Principal Investigator: Monserrat Morales Conejo
Project No.: FMM2017/0126
Funding Body: Fundación Mutua Madrileña (FMM)
Start date: 07/09/2017
End date: 06/06/2020

- **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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Avances en la enfermedad de McArdle: nueva aproximación diagnóstica y terapéutica y actualización del registro europeo de pacientes EUROMAC Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT.

Principal Investigator: Miguel Ángel Martín Casanueva
Funding Body: CIBER Enfermedades Raras (CIBERER)
Start date: 2017
End date: 2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	19	74.124
Reviews	3	11.850
TOTAL	22	85.974
Letters	1	1.250
TOTAL	23	87.224

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.

Gomez-Manjon I, Moreno-Izquierdo A, Mayo S, Moreno-Garcia M, Delmiro A, Escribano D, Fernandez-Martinez FJ. Noninvasive Prenatal Testing: Comparison of Two Mappers and Influence in the Diagnostic Yield. Biomed Research International. 2018;2018: 9498140. IF: 2.583 - Article.

Boutoual R, Meseguer S, Villarroya M, Martin-Hernandez E, Errami M, Martin MA, Casado M, Armengod ME. Defects in the mitochondrial-tRNA modification enzymes MTO1 and GTPBP3 promote different metabolic reprogramming through a HIF-PPAR gamma-UCP2-AMPK axis. Scientific Reports. 2018;8(1): 1163. IF: 4.122 - Article.

- Travieso-Suarez L, Fraile PQ, Giner CP. Dietetic treatment with fructose in a 5-year-old girl with recurrent D-lactic acidosis. Nutricion Hospitalaria. 2018;35(2): 495-8. IF: 0.747 - Article.

Fiuza-Luces C, Santos-Lozano A, Llaverio F, Campo R, Nogales-Gadea G, Diez-Bermejo J, Balandrón C, González-Murillo Á, Arenas J, Martin MA, Andreu AL, Pinos T, Galvez BG, Lopez JA, Vazquez J, Zugaza JL, Lucia A. Muscle molecular adaptations to endurance exercise training are conditioned by glycogen availability: a proteomics-based analysis in the McArdle mouse model. Journal of Physiology-London. 2018;596(6): 1035-61. IF: 4.540 - Article.

- Navarro-Abia V, Soriano-Ramos M, Núñez-Enamorado N, Camacho-Salas A, Martinez-de Aragon A, Martin-Hernandez E, Simon-de las Heras R. Hydrocephalus in pyridoxine-dependent epilepsy: New case and literature review. Brain & Development. 2018;40(4): 348-52. IF: 1.544 - Article.

Martin-Hernandez E, Rodriguez-Garcia ME, Chen CA, Cotrina-Vinagre FJ, Carnicero-Rodriguez P, Bellusci M, Schaaf CP, Martinez-Azorin F. Mitochondrial involvement in a Bosch-Boonstra-Schaaf optic atrophy syndrome patient with a novel de novo NR2F1 gene mutation. Journal of Human Genetics. 2018;63(4): 525-8. IF: 2.942 - Article.

McMillan HJ, Telegrafi A, Singleton A, Cho MT, Lelli D, Lynn FC, Griffin J, Asamoah A, Rinne T, Erasmus CE, Koolen DA, Haaxma CA, Keren B, Doummar D, Mignot C, Thompson I, Velsher L, Dehghani M, Vahidi Mehrjardi MY, Maroofian R, Tchan M, Simons C, Christodoulou J, Martin-Hernandez E, Guillen Sacoto MJ, Henderson LB, McLaughlin H, Molday LL, Molday RS, Yoon G. Recessive mutations in ATP8A2 cause severe hypotonia, cognitive impairment, hyperkinetic movement disorders and progressive optic atrophy. Orphanet Journal of Rare Diseases. 2018;13(1): 86. IF: 3.607 - Article.

Fiuza-Luces C, Diez-Bermejo J, Fernandez-De La Torre M, Rodriguez-Romo G, Sanz-Ayan P, Delmiro A, Munguia-Izquierdo D, Rodriguez-Gomez I, Ara I, Dominguez-Gonzalez C, Arenas J, Martin MA, Lucia A, Moran M. Health Benefits of an Innovative Exercise Program for Mitochondrial Disorders. Medicine and Science in Sports and Exercise. 2018;50(6): 1142-51. IF: 4.291 - Article.

Brasil S, Leal F, Vega A, Navarrete R, Ecay MJ, Desviat LR, Riera C, Padilla N, de la Cruz X, Couce ML, Martin-Hernandez E, Morais A, Pedron C, Pena-Quintana L, Rigoldi M, Specola N, de Almeida IT, Vives I, Yahyaoui R, Rodriguez-Pombo P, Ugarte M, Perez-Cerda C, Merinero

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- B, Perez B. Improving the diagnosis of cobalamin and related defects by genomic analysis, plus functional and structural assessment of novel variants. *Orphanet Journal of Rare Diseases*. 2018;13(1): 125. IF: 3.607 - Article.
- Garone C, Taylor RW, Nascimento A, Poulton J, Fratter C, Dominguez-Gonzalez C, Evans JC, Loos M, Isohanni P, Suomalainen A, Ram D, Hughes MI, McFarland R, Barca E, Lopez Gomez C, Jayawant S, Thomas ND, Manzur AY, Kleinsteuber K, Martin MA, Kerr T, Gorman GS, Sommerville EW, Chinnery PF, Hofer M, Karch C, Ralph J, Camara Y, Madruga-Garrido M, Dominguez-Carral J, Ortez C, Emperador S, Montoya J, Chakrapani A, Kriger JF, Schoenaker R, Levin B, Thompson JLP, Long Y, Rahman S, Donati MA, DiMauro S, Hirano M. Retrospective natural history of thymidine kinase 2 deficiency. *Journal of Medical Genetics*. 2018;55(8): 515-21. IF: 5.751 - Article.
- Garcia-Consuegra I, Asensio-Pena S, Ballester-Lopez A, Francisco-Velilla R, Pinos T, Pintos-Morell G, Coll-Canti J, Gonzalez-Quintana A, Andreu AL, Arenas J, Lucia A, Nogales-Gadea G, Martin MA. Missense mutations have unexpected consequences: The McArdle disease paradigm. *Human Mutation*. 2018;39(10): 1338-43. IF: 5.359 - Article.
- Santacatterina F, Torresano L, Nunez-Salgado A, Esparza-Molto PB, Olive M, Gallardo E, Garcia-Arumi E, Blazquez A, Gonzalez-Quintana A, Martin MA, Cuevva JM. Different mitochondrial genetic defects exhibit the same protein signature of metabolism in skeletal muscle of PEO and MELAS patients: A role for oxidative stress. *Free Radical Biology and Medicine*. 2018;126: 235-48. IF: 6.020 - Article.
- Rodriguez-Garcia ME, Cotrina-Vinagre FJ, Cruz-Rojo J, Garzon-Lorenzo L, Carnicer-Rodriguez P, Pozo JS, Martinez-Azorin F. A rare male patient with Fontaine progeroid syndrome caused by p. R217H de novo mutation in SLC25A24. *American Journal of Medical Genetics Part A*. 2018;176(11): 2479-86. IF: 2.264 - Article.
- Lobo-Jarne T, Nyvltova E, Perez-Perez R, Timon-Gomez A, Molinie T, Choi A, Mourier A, Fontanesi F, Ugalde C, Barrientos A. Human COX7A2L Regulates Complex III Biogenesis and Promotes Supercomplex Organization Remodeling without Affecting Mitochondrial Bioenergetics. *Cell Reports*. 2018;25(7): 1786-1799.e4. IF: 8.032 - Article.
- Cantero D, Hernandez-Lain A, Martinez JFG, Perez MR, Ruano Y, Lleixa C, Gallardo E, Dominguez-Gonzalez C. Milder forms of alpha-sarcoglycanopathies diagnosed in adulthood by NGS analysis. *Journal of The Neurological Sciences*. 2018;394: 63-7. IF: 2.448 - Article.

- Garcia Del Rio A, Delmiro A, Martin MA, Cantalapiedra R, Carretero R, Durantez C, Menegotto F, Moran M, Serrano-Lorenzo P, De la Fuente MA, Orduna A, Simarro M. The Mitochondrial Isoform of FASTK Modulates Nonopsonic Phagocytosis of Bacteria by Macrophages via Regulation of Respiratory Complex I. *Journal of Immunology*. 2018;201(10): 2977-85. IF: 4.539 - Article.
- Nunez-Manchon J, Ballester-Lopez A, Koehorst E, Linares-Pardo I, Coenen D, Ara I, Rodriguez-Lopez C, Ramos-Fransi A, Martinez-Pineiro A, Luente G, Almendrote M, Coll-Canti J, Pintos-Morell G, Lozano AS, Arenas J, Martin MA, de Castro M, Lucia A, Santalla A, Nogales-Gadea G. Manifesting heterozygotes in McArdle disease: a myth or a realityrole of statins. *Journal of Inherited Metabolic Disease*. 2018;41(6): 1027-35. IF: 4.092 - 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. Non-osteogenic muscle hypertrophy in children with McArdle disease. *Journal of Inherited Metabolic Disease*. 2018;41(6): 1037-42. IF: 4.092 - Article.
- Gonzalez-Saiz L, Santos-Lozano A, Fiua-Luces C, Sanz-Ayan P, Quezada-Loaiza CA, Ruiz-Casado A, Alejo LB, Flox-Camacho A, Moran M, Lucia A, Escrivano-Subias P. Physical activity levels are low in patients with pulmonary hypertension. *Annals of Translational Medicine*. 2018;6(11): 205. IF: N/A - Article.
- Berenguer-Potenciano M, Villora-Morcillo N, Quijada-Fraile P, Martin-Hernandez E, Camacho-Salas A, Garcia-Silva MT, De Aragon AM. Neuroradiological Features of Six Patients with Propionic Acidemia. *Journal of Pediatric Neurology*. 2018;16(6): 390-6. IF: N/A - Article.
- Camacho A, Esteban J, Paradas C. Report by the Spanish Foundation for the Brain on the social impact of amyotrophic lateral sclerosis and other neuromuscular disorders. *Neurologia*. 2018;33(1): 35-46. IF: 1.938 - Review.
- Lobo-Jarne T, Ugalde C. Respiratory chain supercomplexes: Structures, function and biogenesis. *Seminars in Cell & Developmental Biology*. 2018;76: 179-90. IF: 6.138 - Review.
- Perez-Lopez J, Molto-Abad M, Munoz-Delgado C, Morales-Conejo M, Ceberio-Hualde L, Del Toro M. Efficacy of Idursulfase therapy in patients with Mucopolysaccharidosis type II who initiated enzyme replacement therapy in adult age. A systematic review of the literature. *Molecular Genetics and Metabolism*. 2018;124(3): 216-27. IF: 3.774 - Review.

- Martín-Hernández E, Martínez-Azorín F. Author's Reply: TK2-related Myopathic Mitochondrial Depletion Syndrome. *Pediatric and Developmental Pathology*. 2018;21(5): 509-10. IF: 1.250 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Teresa Lobo Jarne
Title: Impact of COX7A2L in the biogenesis of human mitochondrial respiratory chain supercomplexes
Director/s: Cristina Ugalde Bilbao
Date Defended: 13/04/2018
University: Universidad Autónoma de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Rocío Garrido Moraga
Title: Aplicación de técnicas proteómicas al estudio de la enfermedad de McArdle
Director: Inés García-Consuegra Galiana
Master: Bioquímica, Biología Molecular y Biomedicina (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Beatriz Raboso Moreno
Title: Estudio y seguimiento de una cohorte de pacientes con fenilcetonuria diagnosticados en el cribado neonatal (trabajo de fin de grado en medicina con nivel de máster)
Director: Elena Martín Hernández
Degree: Medicina (UCM)
- Student:** Laura Rodríguez Bravo
Title: Tratamiento nutricional de la glucogenosis tipo Ia en la edad pediátrica
Director: Elena Martín Hernández
Degree: Nutrición Humana y Dietética (UCM)

PRIZES AND AWARDS

- Second Prize Liberbank of Research in Medicine of Sport, 2017, to work entitled "Beneficios de un innovador programa de ejercicio de enfermedades mitocondriales: ejercicio es medicina". April 9 2018, Universidad de Oviedo.
First Author: María J. Morán Bermejo; others authors of the ERMN group: Miguel Fernández-de la Torre, Aitor Delmiro, Cristina Domínguez, Joaquín Arenas, and Miguel A. Martín.

PATHOPHYSIOLOGY OF MITOCHONDRIAL BIOGENESIS



GROUP DIRECTOR

Garesse Alarcón, Rafael

Arredondo Lamas, Juan José
Fernández Moreno, Miguel
Gallardo Pérez, Mª Esther
González Paramos, Cristina

Laine Menéndez, Sara
Mamblona López, Laura
Ortuño Costela, Mª del Carmen
Palacios Zambrano, Sara

Rodríguez Fernández, Sonia
Vázquez Fonseca, Luis
Zurita Díaz, Francisco

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	1
TOTAL		1

- 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: Mª Esther Gallardo Pérez
Project No.: PI15/00484
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 28/07/2017
End date: 31/12/2018, extended to 30/06/2020

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Desarrollo de modelos experimentales para el estudio, diagnóstico y terapia de las enfermedades mitocondriales.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Y, Fernandez-Moreno MA, Baris HN, Donnini C, Minczuk M, Rodenburg RJ, Van Hove JLK. Pathogenic variants in glutamyl-tRNA(Gln) amidotransferase subunits cause a lethal mitochondrial cardiomyopathy disorder. *Nature Communications*. 2018;9(1):4065. IF: 12.353 - Article.

- Ortuno-Costela MDC, Moreno-Izquierdo A, Garesse R, Gallardo ME. Generation of a human iPSC line, IISHDOi002-A, with a 46. XY/47. XYY mosaicism and belonging to an African mitochondrial haplogroup. *Stem Cell Research*. 2018;28: 131-5. IF: 1.829 - Editorial Material.
- Richard E, Brasil S, Briso-Montiano A, Alonso-Barroso E, Gallardo ME, Merinero B, Ugarte M, Desviat LR, Perez B. Generation and characterization of two human iPSC lines from patients with methylmalonic aciduria cblB type. *Stem Cell Research*. 2018;29: 143-7. IF: 1.829 - Editorial Material.
- Zurita-Díaz F, Ortuno-Costela MDC, Moreno-Izquierdo A, Galbis L, Millan JM, Ayuso C, Garesse R, Gallardo ME. Establishment of a human iPSC line, IISHDOi004-A, from a patient with Usher syndrome associated with the mutation c. 2276G > T; p. Cys759Phe in the USH2A gene. *Stem Cell Research*. 2018;31: 152-6. IF: 1.829 - Editorial Material.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Sara Palacios Zambrano
Title: Identificación y caracterización de nuevos genes implicados en la función OXPHOS y su posible asociación a patologías humanas

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	1	12.353
Editorials	3	5.487
TOTAL	4	17.840

- Friederich MW, Timal S, Powell CA, Dallabona C, Kurolap A, Palacios-Zambrano S, Bratkovic D, Derkx TGJ, Bick D, Bouman K, Chatfield KC, Damouny-Naoum N, Dishop MK, Falik-Zaccai TC, Fares F, Fedida A, Ferrero I, Gallagher RC, Garesse R, Gilberti M, Gonzalez C, Gowan K, Habib C, Halligan RK, Kalfon L, Knight K, Lefebvre D, Mamblona L, Mandel H, Mory A, Ottosson J, Paperna T, Pruijn GJM, Rebelo-Guimaraes PF, Saada A, Sainz B Jr, Salvemini H, Schoots MH, Smeitink JA, Szekszto MJ, Ter Horst HJ, van den Brandt F, van Spronsen FJ, Veltman JA, Wartchow E, Wintjes LT, Zohar

Director/s: Miguel Ángel Fernández Moreno, Rafael Garesse Alarcón

Date Defended: 29/06/2018

University: Universidad Autónoma de Madrid

- Candidate:** Francisco Zurita Díaz

Title: Generación de iPSC como modelo de estudio de enfermedades mitocondriales causadas por mutaciones en GFM1 y POLG

Director/s: Mª Esther Gallardo Pérez, Rafael Garesse Alarcón

Date Defended: 02/07/2018

University: Universidad Autónoma de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Gala Campos López

Title: Characterization in human cells of the GatCAB system, an amidotransferase involved in mitochondrial mRNAs translation

Director: Rafael Garesse Alarcón

Master: Biomedicina Molecular (UAM)

MITOCHONDRIAL MEMBRANES LABORATORY



GROUP DIRECTOR

López Montero, Iván

Almendro Vedia, Víctor Galileo
de la Fuente Herreruela, Diego
Muñoz Úbeda, Mónica
Natale, Paolo

Plaza García-Abadillo, Ismael
Sastre Pozo, Judit
Tolosa Díaz, Andrés Darío

ACTIVE PROJECTS OF THE RESEARCH

GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Proyecto asociado a la ayuda Ramón y Cajal.
Project No.: RyC-2013-12609
Principal Investigator: Iván López Montero
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/12/2014
End date: 30/11/2018

- Title:** Artificial Mitochondria for Health.
Project No.: ERC-StG-2013-338133
Principal Investigator: Iván López Montero
Funding Body: European Commission
Start date: 01/12/2013
End date: 30/11/2018

- Title:** Materia activa accionada mediante polímeros vivos biológicos: de la estocasticidad microscópica a la mecánica macroscópica a través de la hidrodinámica.
Project No.: FIS 2015-70330-C2-I-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/01/2016
End date: 31/12/2018

- Title:** Estudio multidisciplinar de la estabilidad de biofilms de pseudomonas fluorescens: mecánica, difusión y simulación.
Project No.: PR26/16-10B-1

Principal Investigator: Iván López Montero
Funding Body: Santander-Universidad Complutense de Madrid
Start date: 22/12/2016
End date: 21/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	10.359
TOTAL	3	10.359

- Rodriguez-Garcia ME, Cotrina-Vinagre FJ, Cruz-Rojo J, Garzon-Lorenzo L, Carnicer-Rodriguez P, Pozo JS, Martinez-Azorin F. A rare male patient with Fontaine progeroid syndrome caused by p.R217H de novo mutation in SLC25A24. American Journal of Medical Genetics Part A. 2018;176(11): 2479-86. IF: 2.264 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

PORPHYRIA, HAEMATOCHROMATOSIS AND ANEMIA



GROUP DIRECTORS

Morán Jiménez, M^a José
Méndez Alba, Manuel

Borrero Corte, M^a José
Enríquez de Salamanca Lorente, Rafael
García Pastor, M^a Inmaculada

Horta Herrera, Saúl
Jara Rubio, Fátima
Moreno Carralero, M^a Isabel

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.: PII5/01404
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 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 Mutua Madrileña (FMM)
Start date: 01/10/2016
End date: 30/09/2019

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	4	15.512
TOTAL	4	15.512

- Serrano-Mendioroz I, Sampedro A, Alegre M, Enríquez de Salamanca R, Berraondo P, Fontanellas A. An Inducible Promoter Responsive to Different Porphyrinogenic Stimuli Improves Gene Therapy Vectors for Acute Intermittent Porphyria. *Human Gene Therapy*. 2018;29(4): 480-91. IF: 4.241 - Article.
- Moreno-Carralero MI, Horta-Herrera S, Morado-Arias M, Ricard-Andres MP, Lemes-Castellano A, Abio-Calvete M, Cedena-Romero MT, Gonzalez-Fernandez FA, Llorente-Gonzalez L, Periago-Peralta AM, de-la-Iglesia-Ingó S, Mendez M, Moran-Jimenez MJ. Clinical and genetic features of congenital dyserythropoietic anemia (CDA). *European Journal of Haematology*. 2018;101(3): 368-78. IF: 2.595 - Article.
- Serrano-Mendioroz I, Sampedro A, Serna N, Salamanca RE, Sanz-Parra A, Corrales F, Berraondo P, Millet O, Fontanellas A. Bioengineered PBGD variant improves the therapeutic

index of gene therapy vectors for acute intermittent porphyria. *Human Molecular Genetics*. 2018;27(21): 3688-96. IF: 4.902 - Article.

- Granata F, Mendez M, Brancaleoni V, Castelbon FJ, Graziadei G, Ventura P, Di Pierro E. Molecular characterization, by digital PCR analysis of four HMBS gene mutations affecting the ubiquitous isoform of Porphobilinogen Deaminase (PBGD) in patients with Acute Intermittent Porphyria (AIP). *Molecular Genetics and Metabolism*. 2018;125(3): 295-301. IF: 3.774 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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



GROUP DIRECTOR

Mittelbrunn Herrero, María

Blanco Ruiz, Eva M^a

Desdín Micó, Gabriela Grisel

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	2
TOTAL		2

- 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

- 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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Endolysosomal-mitochondria crosstalk in cell and organism homeostasis.
Principal Investigator: María Mittelbrunn Herrero
Project No.: GA 715322- ERC Starting Grant
Funding Body: European Research Council (ERC)
Start date: 01/03/2017
End date: 28/02/2022

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	2	21.516
Reviews	1	3.226
TOTAL	3	24.742

- Torralba D, Baixauli F, Villarroya-Beltri C, Fernandez-Delgado I, Latorre-Pellicer A, Acin-Perez R, Martin-Cofreces NB, Jaso-Tamame AL, Iborra S, Jorge I, Gonzalez-Aseguinolaza G, Garaude J, Vicente-Manzanares M, Enriquez JA, Mittelbrunn

M, Sanchez-Madrid F. Priming of dendritic cells by DNA-containing extracellular vesicles from activated T cells through antigen-driven contacts. *Nature Communications*. 2018;9(1): 2658. IF: 12.353 - Article.

- Caravia XM, Fanjul V, Oliver E, Roiz-Valle D, Moran-Alvarez A, Desdin-Mico G, Mittelbrunn M, Cabo R, Vega JA, Rodriguez F, Fueyo A, Gomez M, Lobo-Gonzalez M, Bueno H, Velasco G, Freije JMP, Andres V, Ibanez B, Ugalde AP, Lopez-Otin C. The microRNA-29/PGC1 alpha regulatory axis is critical for metabolic control of cardiac function. *Plos Biology*. 2018;16(10): e2006247. IF: 9.163 - Article.
- Desdín-Micó G, Soto-Hereder G, Mittelbrunn M. Mitochondrial activity in T cells. *Mitochondrion*. 2018;41: 51-7. IF: 3.226 - Review.

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Manuel Montero Gómez de las Heras
Title: Alteraciones inmunometabólicas implicadas en el síndrome de caquexia
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 2017 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



Borrego Hernández, Daniel
Cordero Vázquez, Pilar

GROUP DIRECTOR

García Redondo, Alberto

Esteban Pérez, Jesús
García Salamero, Gabriel

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	2
Noncompetitive	Various	1
TOTAL		3

- Title:** Nuevos biomarcadores en ELA: mutaciones somáticas, neuroinflamación y metabolismo de ARN (I).
Principal Investigator: Alberto García Redondo
Project No.: PII7/00491
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Estudio de biomarcadores en el continuo patológico existente entre la esclerosis lateral amiotrófica (ELA) y la degeneración lobular frontotemporal (DLFT)-I.
Principal Investigator: Alberto García Redondo
Project No.: PII4/00088
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 31/12/2018
- Title:** Búsqueda de biomarcadores para el seguimiento de la ELA y la DFT.
Principal Investigator: Alberto García Redondo
Funding Body: Asociación ayuda enfermos siempre adelante, Roche Diagnostics GMBH
Start date: 05/11/2015
End date: 04/11/2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	4	26.836
Reviews	1	0.920
TOTAL	5	27.756

- Dols-Icardo O, García-Redondo A, Rojas-García R, Borrego-Hernandez D, Illan-Gala I, Muñoz-Blanco JL, Rabano A, Cervera-Carles L, Juarez-Rufian A, Spataro N, De Luna N, Galan L, Cortes-Vicente E, Fortea J, Blesa R, Grau-Rivera O, Lleo A, Esteban-Perez J, Gelpi E, Clarimon J. Analysis of known amyotrophic lateral sclerosis and frontotemporal dementia genes reveals a substantial genetic burden in patients manifesting both diseases not carrying the C9orf72 expansion mutation. *Journal of Neurology Neurosurgery and Psychiatry*. 2018;89(2): 162-8. IF: 7.144 - Article.
- Nicolas A, Kenna KP, Renton AE, Ticozzi N, Faghri F, Chia R, Dominov JA, Kenna BJ, Nalls MA, Keagle P, Rivera AM, van Rheenen W, Murphy NA, van Vugt JJFA, Geiger JT, van der Spek RA, Pliner HA, Shankaracharya Smith BN, Marangi G, Topp SD, Abramzon Y, Gkazi AS, Eicher JD, Kenna A, Mora G, Calvo A, Mazzini L, Riva N, Mandrioli J, Caponnetto C, Battistini S, Volanti P, La Bella V, Conforti FL, Borghero G, Messina S, Simone IL, Trojsi F, Salvi F, Logullo FO, D'Alfonso S, Corrado L, Capasso M, Ferrucci L, Moreno CDM, Kamalakaran S, Goldstein DB, Gitler AD, Harris T, Myers RM, Phatnani H, Musunuri RL, Evani US, Abhyankar A, Zody MC, Kaye J, Finkbeiner S, Wyman SK, LeNail A,

Lima L, Fraenkel E, Svendsen CN, Thompson LM, Van Eyk JE, Berry JD, Miller TM, Kolb SJ, Cudkowicz M, Baxi E, Benatar M, Taylor JP, Rampersaud E, Wu G, Wu J, Lauria G, Verde F, Fogh I, Tiloca C, Comi GP, Soraru G, Cereda C, Corcia P, Laaksovirta H, Myllykangas L, Jansson L, Valori M, Ealing J, Hamdalla H, Rollinson S, Pickering-Brown S, Orrell RW, Sidle KC, Malaspina A, Hardy J, Singleton AB, Johnson JO, Arepalli S, Sapp PC, McKenna-Yasek D, Polak M, Asress S, Al-Sarraj S, King A, Troakes C, Vance C, de Belleroche J, Baas F, ten Asbroek ALMA, Munoz-Blanco JL, Hernandez DG, Ding JH, Gibbs JR, Scholz SW, Floeter MK, Campbell RH, Landi F, Bowser R, Pulst SM, Ravits JM, MacGowan DJL, Kirby J, Pioro EP, Pamphlett R, Broach J, Gerhard G, Dunckley TL, Brady CB, Kowall NW, Troncoso JC, Le Ber I, Mouzat K, Lumbroso S, Heiman-Patterson TD, Kamel F, Van Den Bosch L, Baloh RH, Strom TM, Meitinger T, Shatunov A, Van Eijk KR, de Carvalho M, Kooyman M, Middelkoop B, Moisse M, McLaughlin RL, Van Es MA, Weber M, Boylan KB, Van Blitterswijk M, Rademakers R, Morrison KE, Basak AN, Mora JS, Drory VE, Shaw PJ, Turner MR, Talbot K, Hardiman O, Williams KL, Fifita JA, Nicholson GA, Blair IP, Rouleau GA, Esteban-Perez J, García-Redondo A, Al-Chalabi A, Rogava E, Zinman L, Ostrow LW, Maragakis NJ, Rothstein JD, Simmons Z, Cooper-Knock J, Brice A, Goutman SA, Feldman EL, Gibson SB, Taroni F, Ratti A, Gellera C, Van Damme P, Robberecht W, Fratta P, Sabatelli M, Lunetta C, Ludolph AC, Andersen PM, Weishaupt JH, Camu W, Trojanowski JQ, Van Deerlin VM, Brown RH, van den Berg LH, Veldink JH, Harms MB, Glass JD, Stone DJ, Tienari P, Silani V, Chio A, Shaw CE, Traynor BJ, Landers JE; ITALSGEN Consortium, Genomic Translation ALS Care GTAC, ALS Sequencing Consortium, NYGC ALS Consortium, Answer ALS Fdn, Clinical Res ALS Related Disorders, SLAGEN Consortium, French ALS Consortium, Project MinE ALS Sequencing Consor. Genome-wide Analyses Identify KIF5A as a Novel ALS Gene. *Neuron*. 2018;97(6): 1268-1283. e6. IF: 14.318 - Article.

- Gonzalez-Sánchez M, Puertas-Martín V, Esteban-Perez J, García-Redondo A, Borrego-Hernandez D, Mendez-Guerrero A, Llamas-Velasco S, Herrero-San Martín A, Cordero-Vázquez P, Herrero-Manso MC, Perez-Martinez DA, Villarejo-Galende A. TARDBP mutation associated with semantic variant primary progressive aphasia, case report and review of the literature. *Neurocase*. 2018;24(5-6): 1-5. IF: 0.920 - Article.

- de Majo M, Topp SD, Smith BN, Nishimura AL, Chen HJ, Gkazi AS, Miller J, Wong CH, Vance C, Baas F, Ten Asbroek ALMA, Kenna KP, Ticozzi N, Redondo AG, Esteban-Perez J, Tiloca C, Verde F, Duga S, Morrison KE, Shaw PJ, Kirby J, Turner MR, Talbot K, Hardiman O, Glass JD, de Belleroche J, Gellera C, Ratti A, Al-Chalabi A, Brown RH, Silani V, Landers JE, Shaw CE. ALS-associated missense and nonsense TBK1 mutations can both cause loss of kinase function. *Neurobiology of Aging*. 2018;71: 266. e1-266. e10. IF: 4.454 - Article.

- Llamas-Velasco S, García-Redondo A, Herrero-San Martín A, Puertas Martín V, González-Sánchez M, Pérez-Martínez DA, Villarejo-Galende A. Slowly progressive behavioral frontotemporal dementia with C9orf72 mutation. Case report and review of the literature. *Neurocase*. 2018;24(1): 68-71. IF: 0.920 - Review.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Clara Muñoz Pancorbo
Title: Búsqueda de biomarcadores en pacientes con esclerosis lateral amiotrófica y demencia frontotemporal
Director: Alberto García Redondo
Master: Análisis Sanitarios (UCM)

- Student:** Cristina de Jesús Sen
Title: Estudio fenotipo - genotipo del gen SOD1 en pacientes con esclerosis lateral amiotrófica (ELA)
Director: Alberto García Redondo
Master: Análisis Sanitarios (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Adrián Martínez Cortés
Title: Estudio de Biomarcadores en el continuo patológico existente entre la Esclerosis Lateral Amiotrófica (ELA) y la Degeneración Lobular FrontoTemporal (DLFT).
Director: Alberto García Redondo
Degree: Biología (UCM)

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

AREA 4

EPIDEMIOLOGY AND EVALUATION OF TECHNOLOGIES, SANITARY SERVICES AND INFORMATION SYSTEMS

Coordinator: Gómez de la Cámara, Agustín

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



CLINICAL EPIDEMIOLOGY, HEALTH TECHNOLOGIES AND INFORMATION AND COMMUNICATION TECHNIQUES



GROUP DIRECTOR

Gómez de la Cámara, Agustín

Bouzo Molina, Nuria
Calleja Fernández, Clara Eugenia
Cancelas Navía, Pilar
Carrascosa Fernández, Antonio José
Carrero Cabo, Agar Cándida
García Morales, M^a Teresa

Gómez Guijarro, Fernando M^a
Lora Pablos, David
Martín-Arriscado Arroba, Cristina
Muñoz Rodríguez, Rebeca
Murcia Sánchez, Elena
Pérez de Lara, Sara

Pérez Doblado, Paloma
Saldaña Casado, Raquel
Serrano Balazote, Pablo
Varela Rodríguez, Carolina
Vega Viaña, Rosa M^a

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	2
Noncompetitive	Various	4
	TOTAL	6

• **Title:** Identificación de un Modelo de Gen(S)-Dieta(S)-Fenotipo(S) y su Asociación con Morbimortalidad Cardiovascular. Estudio DRECEVI.

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:** 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:** Proyecto piloto para iniciativa ICHO
Principal Investigator: Carolina Varela Rodríguez
Funding Body: Farmaindustria -Asociación Nacional Empresarial de la Industria Farmacéutica
Start date: 01/09/2018
End date: 31/08/2021

• **Title:** Hospital Insite Onco Project Proposal.
Principal Investigator: Pablo Serrano Balazote
Funding Body: CUSTODIX
Start date: 12/11/2017
End date: 31/06/2018

- 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:** Efectos de la administración intravenosa de Acetilsalicilato de Lisina versus Aspirina Oral sobre la respuesta plaquetaria en pacientes con un infarto agudo de miocardio con elevación del segmento ST: un estudio farmacodinámico (ESTUDIO ECCLIPSE-STEMI).

Principal Investigator: Agustín Gómez de la Cámara
Funding Body: Fundación Investigación Biomédica Hospital Clínico San Carlos

Start date: 12/12/2017

End date: 11/12/2020

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY LA FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- INSITE. Project based on the development of a innovative platform for the use of the health data of different sources for the clinical research. The European Institute For Innovation Through Health Data.
- CUSTODIX. Technology. Project for the information management in a European Hospital Network. The European Institute for Innovation Through Health Data.
- PROCREATEC. Evaluation of a new technology offer to increase de rate of implantation. CAM.
- SITHEPAC. Spanish Registry SIThepaC (Sistema español de información de monitoreo terapéutico de pacientes con hepatitis C crónica). Strategic Plan for the hepatitis C approach in the National Health Service. Ministerio de Salud, Servicios Sociales e Igualdad.
- SUICIDIOS. Research Project. "Strategic Plan for the hep-
- titis C approach in the National Health Service".
- NEOVANC. Regulatory Support. Multicenter, open and randomized study IIb to compared the efficacy, safety and pharmacokinetic (PK) of the optimal and standard doses of vancomycin in newborn and children under 90 days of life with suspected or confirmed gram positive sepsis. Promoter: Fondazione PENTA Onlus. FP7-Health-2013-Innovation-1.
- EFICACIA Y SEGURIDAD DE LA NUTRICIÓN ENTERAL EN EL PACIENTE CRÍTICO CON NECESIDAD DE SOPORTE VASOACTIVO. Multicenter, observational prospective study, to analyze the tolerance and safety of the enteral nutrition in a sample of critical patients with vasoactive and/or inotropic support needs. Grupo de Trabajo de Metabolismo y Nutrición (GTMN) of the Sociedad Española de Medicina Intensiva, Crítica y Unidades Coronarias (SEMICYUC).
- SCReN. Coordination of the Management Data and Biostatistics Program of the Platform.
- CIBER de Epidemiología y Salud Pública.

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	17	96.354
Editorials	1	2.580
TOTAL	18	98.934
Letters	2	18.371
TOTAL	20	117.305

- Lalueza A, Sanz-Trepiana L, Bermejo N, Yaiza B, Morales-Cartagena A, Espinosa M, Garcia-Jimenez R, Jimenez-Rodriguez O, Ponce B, Lora D, Orellana MA, Fernandez-Ruiz M, Bermejo S, Aguado JM. Risk factors for bacteremia in urinary tract infections attended in the emergency department. Internal and Emergency Medicine. 2018; 13(1):41-50. IF: 2.453 - Article.
- Martin A, Perez-Ayala A, Chaves F, Lora D, Orellana MA. Evaluation of the multiplex PCR Allplex-GI assay in the

detection of bacterial pathogens in diarrheic stool samples. Journal of Microbiological Methods. 2018;144:33-6. IF: 1.701 - Article.

- Barroso M, Goday A, Ramos R, Marin-Ibanez A, Guembe MJ, Rigo F, Tormo-Diaz MJ, Moreno-Iribas C, Cabre JJ, Segura A, Baena-Diez JM, de la Camara AG, Lapetra J, Quesada M, Medrano MJ, Berjon J, Frontera G, Gavrilova D, Barricarte A, Basora J, Garcia JM, Garcia-Lareo M, Lora-Pablos D, Mayoral E, Grau M, Marrugat J; FRESCO Investigators. Interaction between cardiovascular risk factors and body mass index and 10-year incidence of cardiovascular disease, cancer death, and overall mortality. Preventive Medicine. 2018;107:81-9. IF: 3.483 - Article.
- Carretero-Gonzalez A, Lora D, Ghanem I, Zugazagoitia J, Castellano D, Sepulveda JM, Lopez-Martin JA, Paz-Ares L, de Velasco G. Analysis of response rate with ANTI PD1/PD-L1 monoclonal antibodies in advanced solid tumors: a meta-analysis of randomized clinical trials. Oncotarget. 2018;9(9):8706-15. IF: 5.168 - Article.

• Baena-Diez JM, Subirana I, Ramos R, Gómez de la Cámara A, Elosua R, Vila J, Marin-Ibanez A, Guembe MJ, Rigo F, Tormo-Díaz MJ, Moreno-Iribas C, Cabre JJ, Segura A, Lapetra J, Quesada M, Medrano MJ, Gonzalez-Diego P, Frontera G, Gavrilova D, Ardanaz E, Basora J, Garcia JM, Garcia-Lareo M, Gutierrez-Fuentes JA, Mayoral E, Sala J, Degano I, Francés A, Castell C, Grau M, Marrugat J. Validity Assessment of Low-risk SCORE Function and SCORE Function Calibrated to the Spanish Population in the FRESCO Cohorts. Revista Espanola de Cardiologia. 2018;71(4):274-82. IF: 5.166 - Article.

• Wood AM, Kaptoge S, Butterworth AS, Willeit P, Warnakula S, Bolton T, Paige E, Paul DS, Sweeting M, Burgess S, Bell S, Astle W, Stevens D, Koulman A, Selmer RM, Verschuren WMM, Sato S, Njolstad I, Woodward M, Salomaa V, Nordestgaard BG, Yeap BB, Fletcher A, Melander O, Kuller LH, Balkau B, Marmot M, Koenig W, Casiglia E, Cooper C, Arndt V, Franco OH, Wennberg P, Gallacher J, de la Camara AG, Volzke H, Dahm CC, Dale CE, Bergmann MM, Crespo CJ, van der Schouw YT, Kaaks R, Simons LA, Lagiou P, Schoufour JD, Boer JMA, Key TJ, Rodriguez B, Moreno-Iribas C, Davidson KW, Taylor JO, Sacerdote C, Wallace RB, Quiros JR, Tumino R, Blazer DG 2nd, Linneberg A, Daimon M, Panico S, Howard B, Skeie G, Strandberg T, Weiderpass E, Nietert PJ, Psaty BM, Kromhout D, Salamanca-Fernandez E, Kieck S, Krumholz HM, Grioni S, Palli D, Huerta JM, Price J,

Sundstrom J, Arriola L, Arima H, Travis RC, Panagiotakos DB, Karakatsani A, Trichopoulou A, Kuhn T, Grobbee DE, Barrett-Connor E, van Schoor N, Boeing H, Overvad K, Kauhanen J, Wareham N, Langenberg C, Forouhi N, Wennberg M, Despres JP, Cushman M, Cooper JA, Rodriguez CJ, Sakurai M, Shaw JE, Knuiman M, Voortman T, Meisinger C, Tjonneland A, Brenner H, Palmieri L, Dallongeville J, Brunner Ej, Assmann G, Trevisan M, Gillum RF, Ford I, Sattar N, Lazo M, Thompson SG, Ferrari P, Leon DA, Smith GD, Peto R, Jackson R, Banks E, Di Angelantonio E, Danesh J; Emerging Risk Factors Collaboration/EPIC-CVD/UK Biobank Alcohol Study Group. Risk thresholds for alcohol consumption: combined analysis of individual-participant data for 599 912 current drinkers in 83 prospective studies. Lancet. 2018;391(10129):1513-23. IF: 53.254 - Article.

• Piris-Borregas S, Munoz-Amat B, de la Cruz-Bertolo J, Sierra-Garcia P, Martin-Arriscado-Arroba C, Pallas-Alonso CR. Clinical rounds with parental involvement in a neonatal unit. Early Human Development. 2018;120:21-5. IF: 2.025 - Article.

• Perez-Ayala A, Fradejas I, Rebollo L, Lora-Pablos D, Lizasoain M, Herrero-Martinez JM. Usefulness of the ARCHITECT Chagas (R) assay as a single test for the diagnosis of chronic Chagas disease. Tropical Medicine & International Health. 2018;23(6):634-40. IF: 2.541 - Article.

• Ciriza-de-los-Rios C, Canga-Rodriguez-Valcarcel F, de-Pablo-Gafas A, Castel-de-Lucas I, Lora-Pablos D, Castellano-Tortajada G. Esophageal motor disorders are frequent during pre and post lung transplantation. Can they influence lung rejection? Revista Espanola de Enfermedades Digestivas. 2018;110(6):344-51. IF: 1.632 - Article.

• Cánovas L, Carrascosa AJ, García M, Fernández M, Calvo A, Monsalve V, Soriano JF; Empathy Study Group. Impact of Empathy in the Patient-Doctor Relationship on Chronic Pain Relief and Quality of Life: A Prospective Study in Spanish Pain Clinics. Pain Medicine. 2018;19(7):1304-14. IF: 2.782 - Article.

• Bernal JL, DelBusto S, Garcia-Manoso MI, de Castro Monteiro E, Moreno A, Varela-Rodriguez C, Ruiz-Lopez PM. Impact of the implementation of electronic health records on the quality of discharge summaries and on the coding of hospitalization episodes. International Journal for Quality in Health Care. 2018;30(8):630-6. IF: 2.554 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Dominguez MLM, Iglesias SG, Arroba CM, Alvarez BL, Diaz-Guerra GM, Martinez-Pueyo JI, Herrero EF, Carranza FH. Low trabecular bone score in postmenopausal women with differentiated thyroid carcinoma after long-term TSH suppressive therapy. *Endocrine*. 2018;62(1):166-73. IF: 3.179 - Article.
- Marin-Gabriel JC, Lora-Pablos D, Diaz-Tasende J, Cancelas-Navia P, Rodriguez-Munoz S, del-Pozo-Garcia AJ, Alonso-Riano M, Rodriguez-Gil Y, Ibarrola-Andres C, Castellano-Tortajada G. Switching from endoscopic submucosal dissection to salvage piecemeal knife-assisted snare resection to remove a lesion: a preoperative risk score from the beginning. *Revista Espanola de Enfermedades Digestivas*. 2018;110(11):699-705. IF: 1.632 - Article.
- Vazquez-Roman S, Escuder-Vieco D, Martin-Pelegrina MD, Munoz-Amat B, Fernandez-Alvarez L, Branas-Garcia P, Lora-Pablos D, Beceiro-Mosquera J, Pallas-Alonso CR. Short communication: Effect of refrigerated storage on the pH and bacterial content of pasteurized human donor milk. *Journal of Dairy Science*. 2018;101(12):10714-9. IF: 2.749 - Article.
- Ortiz-Bautista C, Garcia-Cosio MD, Lora-Pablos D, Ponz-de Antonio I, Rodriguez-Chaverri A, Moran-Fernandez L, de Juan-Baguda J, Perez-de la Sota E, Cortina-Romero JM, Arribas-Ynsaurriaga F, Delgado-Jimenez JF. Predicting Short-and Long-Term Outcomes in Adult Heart Transplantation: Clinical Utility of MELD-XI Score. *Transplantation Proceedings*. 2018;50(10):3710-4. IF: 0.806 - Article.
- Gomez PA, Castano Leon AM, Lora D, Cepeda S, Lagares A. Final outcome trends in severe traumatic brain injury: a 25-year analysis of single center data. *Acta Neurochirurgica*. 2018;160(12):2291-302. IF: 1.929 - Article.
- Caso-Maestro O, Jimenez-Romero C, Justo-Alonso I, Calvo-Pulido J, Lora-Pablos D, Marcacuzco-Quinto A, Cambra-Molero F, Garcia-Sesma A, Perez-Flecha M, Munoz-Arce C, Loinaz-Segurola C, Manrique-Municipio A. Analyzing predictors of graft survival in patients undergoing liver transplantation with donors aged 70 years and over. *World Journal of Gastroenterology*. 2018;24(47):5391-402. IF: 3.300 - Article.
- Aunon-Martin I, Caba-Doussoux P, Jimenez-Diaz V, Del Oro-Hitar M, Lora-Pablos D, Cecilia-Lopez D. Assessment of clinical parameters of the polytraumatized patient as predictors of hospital expenditure and of its distribution. *Revista Espanola de Cirugia Ortopedica y Traumatologia*. 2018;62(6):408-14. IF: N/A - Article.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Carmen Romero Ferreiro
Title: Proceso de validación del informe de resultados estadístico en ensayos clínicos
Director: David Lora Pablos, Teresa Pérez Pérez
Master: Bioestadística (UCM)

RESEARCH IN HEALTH SERVICES AND RESULTS



GROUP DIRECTOR

Gómez Gascón, Tomás

Beamud Lagos, Milagros
Beltejar Rodríguez, Margarita
Diez Arjona, Susana

Dominguez Bidagor, Julia
Fernández Abad, Mª Ángeles
Martín Fernández, Jesús

Pérez Rivas, Francisco Javier
Tapias Merino, Esther
Vargas-Machuca Cabañero, Concepción

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **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, Lilisbeth
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-SCI-2016-2017
Funding Body: European Commission. Horizonte 2020
Start date: 01/01/2017
End date: 30/06/2020
- **Title:** Validación y adaptación transcultural de la Appraisal of Self-Care Agency Scale-Revised (ASA_R) para la medición de la capacidad de autocuidado en pacientes crónicos en atención primaria.
Principal Investigator: Rico Blazquez, Milagros
Project No.: PI15/00584
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018

END GRADUATED INVESTIGATIONS
DIRECTED ON THE GROUP

- Student:** Elena González Arroyo
Title: Transición nutricional en España: una revisión desde la perspectiva enfermera
Director: Francisco Javier Pérez Rivas
Degree: Enfermería (UCM)
- Student:** Mª de los Ángeles Beamud Nieto
Title: Intervenciones de enfermería ante la falta de adhesión terapéutica del adolescente con enfermedad crónica
Director: Francisco Javier Pérez Rivas
Degree: Enfermería (UCM)
- Student:** Sara Paloma Sánchez Rivas
Title: El papel de la enfermera en la prevención de drogodependencias en adolescentes: importancia de la intervención familiar
Director: Francisco Javier Pérez Rivas
Degree: Enfermería (UCM)
- Student:** Violeta Fernández Velasco
Title: Influencia de internet en la educación sexual de los adolescentes y el papel de enfermería
Director: Francisco Javier Pérez Rivas
Degree: Enfermería (UCM)

126

END MASTER INVESTIGATIONS
DIRECTED ON THE GROUP

- Student:** Nuria Alcolea Ruiz
Title: Prevalencia del miedo a caerse y factores relacionados en ancianos que viven en la comunidad
Director: Francisco Javier Pérez Rivas
Master: Investigación en Cuidados de Salud, Enfermería (UCM)

PRIZES AND AWARDS

- Accesit to the 'Definición del valor técnico de los diagnósticos de enfermería en Atención Primaria' in the IV Awards of the Sociedad Española de Directivos en Atención Primaria (SEDAP) a la innovación en Gestión Sanitaria. Santander, 2018.
Awarded: Francisco Javier Pérez Rivas
- Prize to the best oral communication in the VII Jornadas de la Asociación Madrileña de Calidad Asistencial (AMCA) to the communication: Cuida_NET: el radar de los cuidados en Atención Primaria. Madrid, 2018.
Awarded: Francisco Javier Pérez Rivas

207

MATERNAL AND
CHILD HEALTH

GROUP DIRECTOR

Pallás Alonso, Carmen Rosa

Acuña Muga, Juliana	Casanueva Mateos, Lidia	García San José, Lidia	Palacios Cuesta, Alba
Alonso Díaz, Clara	de Alba Romero, Concepción	Llorente de la Fuente, Ana Mª	Ramos Casado, Mª Victoria
Belda Hofheinz, Sylvia Mª	de la Cruz Bértolo, Francisco	López Maestro, María	Sánchez Díaz, Juan Ignacio
Bergón Sendín, Elena	Javier	Moral Pumarega, Mª Teresa	Tejada Palacios, Pilar
Bustos Lozano, Gerardo José	Escuder Vieco, Diana	Mosqueda Peña, Rocío	Torres Valdivieso, Mª José
Cabañas Alonso, Esther	García Lara, Nadia Raquel	Orbea Gallardo, Antonio Carlos	Vázquez Román, Sara

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
Noncompetitive	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

- 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:** 01/01/2016**End date:** 31/12/2018, extended to 30/06/2020

- 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 aten-

ción 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:** Episodios de disminución de la saturación de oxígeno en recién nacidos en contacto piel con piel en relación con la posición materna tras el parto. Ensayo clínico aleatorizado.

Principal Investigator: Nadia Raquel García Lara
Project No.: PI13/00481
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 30/06/2018

- Title:** Estimación cognitiva en recién nacidos muy prematuros.

Principal Investigator: Carmen Rosa Pallás Alonso
Funding Body: Fundación Alicia Koplowitz
Start date: 01/11/2018
End date: 31/10/2020

- Title:** Modificación del pH y crecimiento bacteriano en leche humana donada pasterizada 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

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	19	52.330
Reviews	1	0.605
Editorials	1	2.580
TOTAL	21	55.515

- Oulego-Erroz I, Gonzalez-Cortes R, Garcia-Soler P, Balaguer-Gargallo M, Frias-Perez M, Mayordomo-Colunga

J, Llorente-de-la-Fuente A, Santos-Herraiz P, Menendez-Suso JJ, Sanchez-Porras M, Palanca-Arias D, Clavero-Rubio C, Holanda-Pena MS, Renter-Valdovinos L, Fernandez-De-Miguel S, Rodriguez-Nunez A; RECANVA Collaborative Study. Ultrasound-guided or landmark techniques for central venous catheter placement in critically ill children. *Intensive Care Medicine*. 2018;44(1):61-72. IF: 15.008 - Article.

Arnaez J, Garcia-Alix A, Arca G, Caserio S, Valverde E, Moral MT, Benavente-Fernandez I, Lubian-Lopez S. Population-Based Study of the National Implementation of Therapeutic Hypothermia in Infants with Hypoxic-Ischemic Encephalopathy. *Therapeutic Hypothermia and Temperature Management*. 2018;8(1):24-9. IF: 2.038 - Article.

Nuñez A, Benavente I, Blanco D, Boix H, Cabañas F, Chaffanel M, Fernández-Colomer B, Fernández-Lorenzo JR, Loureiro B, Moral MT, Pavón A, Tofé I, Valverde E, Vento M; coinvestigadores del ensayo clínico. Estres oxidativo en la asfixia perinatal y la encefalopatía hipoxico-isquémica. *Anales de Pediatría*. 2018;88(4):228.e1-228.e9. IF: 1.318 - Article.

Bustos Lozano G, Hidalgo Romero Á, Melgar Bonis A, Ureta Velasco N, Orbea Gallardo C, Pallás Alonso C. Early hypophosphataemia in at risk newborns. Frequency and magnitude. *Anales de Pediatría*. 2018;88(4):216-22. IF: 1.318 - Article.

Pallas Alonso C, Garcia Gonzalez P, Jimenez Moya A, Loureiro Gonzalez B, Martin Peinador Y, Soriano Faura J, Torres Valdivieso MJ, Ginovart Galiana G; en representacion del Grupo de Seguimiento de la Sociedad Espanola de Neonatolog. Protocolo de seguimiento para el recién nacido menor de 1.500 g o menor de 32 semanas de edad gestación. *Anales de Pediatría*. 2018;88(4):229.e1-229.e10. IF: 1.318 - Article.

de la Oliva P, Cambra-Lasaosa FJ, Quintana-Diaz M, Rey-Galan C, Sanchez-Diaz JI, Martin-Delgado MC, de Carlos-Vicente JC, Hernandez-Rastrollo R, Holanda-Pena MS, Pilar-Orive FJ, Ocete-Hita E, Rodriguez-Nunez A, Serrano-Gonzalez A, Blanch L; en representacion de la Asociacion Espanola de Pediatria (AEP), Sociedad Espanol. Admission, discharge and triage guidelines for paediatric intensive care units in Spain. *Anales de Pediatría*. 2018;88(5):287.e1-287.e11. IF: 1.318 - Article.

de la Oliva P, Cambra-Lasaosa FJ, Quintana-Diaz M, Rey-

Galan C, Sanchez-Diaz JI, Martin-Delgado MC, de Carlos-Vicente JC, Hernandez-Rastrollo R, Holanda-Pena MS, Pilar-Orive FJ, Ocete-Hita E, Rodriguez-Nunez A, Serrano-Gonzalez A, Blanch L; en representacion de la Asociacion Espanola de Pediatria (AEP), Sociedad Espanol. Admission, discharge and triage guidelines for paediatric intensive care units in Spain. *Medicina Intensiva*. 2018;42(4):235-46. IF: 1.755 - Article.

Martinez Rubio A, Cortes Rico O, Pallas Alonso CR, Rando Diego A, Sanchez Ruiz-Cabello FJ, Colomer Revuelta J, Esparza Olcina MJ, Gallego Iborra A, Garcia Aguado J, Sanchez-Ventura JG, Merino Moina M, Mengual Gil JM. Resumen infancia y adolescencia. Actualizacion PAPPS 2018. *Atencion Primaria*. 2018;50(Suppl 1):147-52. IF: 1.148 - Article.

Piris-Borregas S, Munoz-Amat B, de la Cruz-Bertolo J, Sierra-Garcia P, Martin-Arriscado-Arroba C, Pallas-Alonso CR. Clinical rounds with parental involvement in a neonatal unit. *Early Human Development*. 2018;120:21-5. IF: 2.025 - Article.

Rubio AM, Rico OC, Alonso CRP, Diego AR, Ruiz-Cabello FJS, Revuelta JC, Olcina MJE, Iborra AG, Aguado JG, Sanchez-Ventura JG, Moina MM, Gil JMM. Childhood and adolescence abstract. PAPPS 2018 Update. *Atencion Primaria*. 2018;50:147-52. IF: 1.148 - Article.

Escuder-Vieco D, Espinosa-Martos I, Rodriguez JM, Corzo N, Montilla A, Siegfried P, Pallas-Alonso CR, Fernandez L. High-Temperature Short-Time Pasteurization System for Donor Milk in a Human Milk Bank Setting. *Frontiers in Microbiology*. 2018;9:926. IF: 4.019 - Article.

Sierra-Garcia P, Lopez-Maestro M, Torres-Valdivieso MJ, Diaz-Gonzalez C, Carrasco M, Ares-Segura S, Duque de Blas G, Pallas-Alonso C. Developmental Outcomes, Attachment and Parenting: Study of a Sample of Spanish Premature Children. *Spanish Journal of Psychology*. 2018;21:e20. IF: 0.629 - Article.

Arnaez J, Garcia-Alix A, Arca G, Valverde E, Caserio S, Moral MT, Benavente-Fernández I, Lubrián-López S; Grupo de Trabajo EHI-ESP. Incidence of hypoxic-ischaemic encephalopathy and use of therapeutic hypothermia in Spain. *Anales de Pediatría*. 2018;89(1):12-23. IF: 1.318 - Article.

Martin-Pelegrina MD, Lorenzo-Rodriguez A, Lora-Pablos D, Munoz-Amat B, Morales-Betancourt C, Pallas-Alonso CR. FiO(2) control by parents of preterm infants admitted to a

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

neonatal intensive care unit: A pilot study. *Acta Paediatrica*. 2018;107(8):1471-2. IF: 2.580 - Editorial Material.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Elena Bergón Sendin
Title: Experiencia en la Aplicación de Auditorias de Seguridad en Tiempo Real en Una Unidad de Cuidados Intensivos Neonatales de Nivel IIIC
Director/es: Carmen Rosa Pallás Alonso
Date Defended: 23/02/2018
University: Universidad de Alcalá de Henares
- Candidate:** Sara Vázquez Román
Title: Cambios en las propiedades físico químicas de la leche humana donada durante la conservación en un banco de leche humana y su influencia en la calidad y la seguridad
Director/es: Carmen Rosa Pallás Alonso
Date Defended: 19/12/2018
University: Universidad de Alcalá de Henares

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Elisa Martínez Besteiro
Title: Parto vaginal vs Cesarea: Impacto del piel con piel en el éxito de la lactancia materna exclusiva (end of work degree in medicine with master level)
Director: Concepción de Alba Romero, Xabier Freire Gómez
Degree: Medicina (UCM)

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 para la Investigación Biomédica del Hospital 12 de Octubre (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,3%).
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 Espinosa Martos, Leónides Fernández Álvarez, Pablo Siegfried Seley, Juan Miguel Rodríguez Gómez.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,3%).
Date of application: 08/03/2018
- Title:** Pasteurizador en Continuo para Leche Humana.
Number: BR20181102810.
Type: EFN PCT, Brazil 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 para la Investigación Biomédica del Hospital 12 de Octubre (33,3%), Probisearch (33,3%), Sive Fluid Systems (33,3%).
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 para la Investigación Biomédica del Hospital 12 de Octubre (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 Pallás Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (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 Pallás Alonso, Pablo Siegfried Seley, Leónides Fernández Álvarez.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (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



GROUP DIRECTOR

Alberquilla Menéndez-Asenjo, Ángel

Añino Alba, Almudena	Fernández Moreno, Aurora	Gutiérrez Sánchez, Mª Isabel	Pozuelo González, Carolina
Contreras Ferrández, Pilar	García López, Montserrat	Martín Gordo, Olga	Sánchez Prida, Natalia
Corral Romero, Carmen	García Olmos, Luis	Martín Moreno, Vicente	Siguión Gómez, Raquel
del Pino Casado, Benito	Garrido Calleja, Paloma	Menéndez Orenga, Miguel	Ursa Bartolomé, Sandra
Fernández Esteban, Inmaculada	Guerrero Hierro, Alonso	Piñero Acín, Mª José	Zufia García, Francisco Javier

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- 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 uso 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 2017)
Articles	2	2.950
TOTAL	2	2.950

- García Caballero R, Herreros B, Real de Asúa D, Gamez S, Vega G, García Olmos L. Limitation of therapeutic effort in patients hospitalised in departments of internal medicine. *Revista Clinica Espanola*. 2018;218(1):1-6. IF: 1.184 - Article.
- Nieves Sedano M, Caro Teller JM, Garcia Munoz C, Fernandez Redondo D, Ponce Aix S, Menendez Orenga M, Ferrari Piquero JM. Clinical impact of gastric acid suppressing medication on the effectiveness of tyrosine kinase inhibitors in lung cancer patients. *Journal of Buon*. 2018;23(3):647-53. IF: 1.766 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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



Díaz Tasende, José

GROUP DIRECTOR

Ruiz López, Pedro Miguel

Tejido Sánchez, Ángel

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 2017)
Articles	4	9.171
Reviews	2	2.710
Editorials	1	1.632
TOTAL	7	13.513

*Publications: The only document types of the ISI Web of Knowledge selected are “Article”, “Review”, and “Editorial Material”. Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Albeniz E, Pellise M, Gimeno-Garcia AZ, Lucendo AJ, Alonso-Aguirre PA, Herreros de Tejada A, Alvarez MA, Fraile M, Herraiz Bayod M, Lopez Roses L, Martinez Ares D, Ono A, Parra Blanco A, Redondo E, Sanchez-Yague A, Soto S, Diaz-Tasende J, Montes Diaz M, Rodriguez-Tellez M, Garcia O, Zuniga Ripa A, Hernandez Conde M, Alberca de Las Parras F, Gargallo CJ, Saperas E, Munoz Navas M, Gordillo J, Ramos Zabala F, Echevarria JM, Bustamante M, Gonzalez-Haba M, Gonzalez-Huix F, Gonzalez-Suarez B, Vila Costas JJ, Guarner Argente C, Mugica F, Cobian J, Rodriguez Sanchez J, Lopez Viedma B, Pin N, Marin Gabriel JC, Nogales O, de la Pena J, Navajas Leon FJ, Leon Brito H, Remedios D, Esteban JM, Barquero D, Martinez Cara JG, Martinez Alcala F, Fernandez-Urien I, Valdivielso E. Clinical guidelines for endoscopic mucosal resection of non-pedunculated colorectal lesions. *Revista Espanola de Enfermedades Digestivas*. 2018;110(3):179-94. IF: 1.632 - Review.

- Albeniz E, Pellise M, Garcia AZG, Lucendo AJ, Aguirre PAA, de Tejada AH, Alvarez MA, Fraile M, Bayod MH, Roses LL, Ares DM, Ono A, Blanco AP, Redondo E, Yague AS, Soto S, Tasende JD, Diaz MM, Tellez MR, Garcia O, Ripa AZ, Conde MH, de las Parras FA, Gargallo C, Saperas E, Navas MM, Gordillo J, Zabala FR, Echevarria JM, Bustamante M, Haba MG, Huix FG, Suarez BG, Costas J JV, Argente CG, Mugica F, Cobian J, Sanchez JR, Viedma BL, Pin N, Gabriel JCM, Nogales O, de la Pena J, Leon FJN, Brito HL, Remedios D, Esteban JM, Barquero D, Cara JGM, Alcala FM, Urien IF, Valdivielso E; Nombre Grp Espanol Resection Endos. Clinical guidelines for endoscopic mucosal resection of non-pedunculated colorectal lesions. *Gastroenterología y Hepatología*. 2018;41(3):175-90. IF: 1.078 - Review.

- Diaz-Tasende J. Colorectal cancer screening and survival. *Revista Espanola de Enfermedades Digestivas*. 2018;110(11):681-3. IF: 1.632 - Editorial Material.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Jorge Jesus Martín Cañuelo
Title: Análisis de los riesgos del paciente en la etapa preoperatoria en una Unidad de Angiología y Cirugía Vascular mediante la técnica de AMFE
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 Ángeles Onieva García
Title: Guía clínica de prevención de la infección asociada a catéter urinario para la seguridad del paciente
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:** Melina Alejandra Moreano Zambrano
Title: Creación y Equipamiento del Área de Tuberculosis en el Hospital General del IEES del Sur de Quito
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:** Martha Elizabeth Moreno Lema
Title: Organización del Servicio de Farmacia del Centro Clínico Quirúrgico Hospital del Día “El Batán”
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:** Mercedes María Vicuña Castro
Title: Síndrome de “burnout” y su relación con la carga laboral y jornada de trabajo del personal de enfermería del Centro Quirúrgico del Hospital General Portoviejo (IESS)
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:** Mercedes Valentina Giler Saltos
Title: Memoria de Gestión Clínica para concursar al puesto de Director Técnico del Área Médica del Hospital IESE de la ciudad de Manta
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)

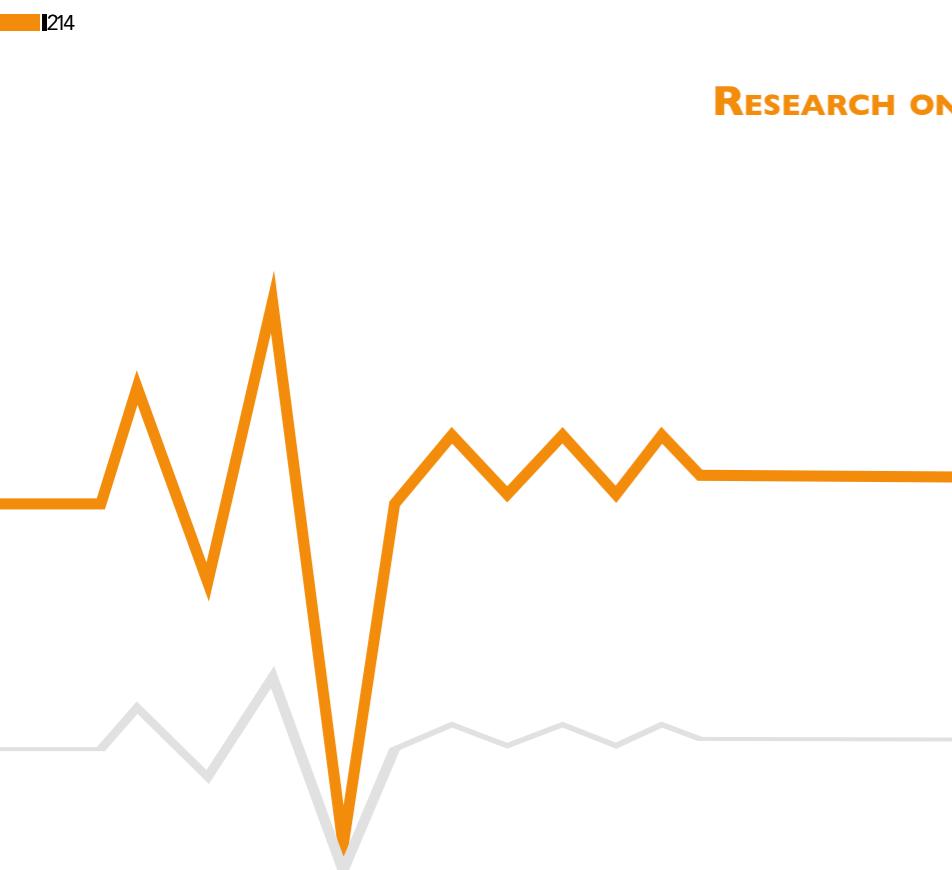
- Student:** Moisés Fernández Gómez
Title: Plan de Dirección y Gestión Sanitaria para el Hospital II-I Huariaca. ESSALUD-RED ASISTENCIAL PASCO. 2019 a 2021
Director: Pedro Miguel Ruiz López
Master: Gestión de la Seguridad Clínica del Paciente y la Calidad de la Atención Sanitaria. (Universidad Internacional de La Rioja)

AREA 5

CARDIOVASCULAR

Coordinator: Bueno Zamora, Héctor

- TRANSLATIONAL MULTIDISCIPLINARY CARDIOVASCULAR RESEARCH**
- RESEARCH ON CARDIOVASCULAR IMAGING**
- HEART FAILURE – PULMONARY HYPERTENSION**
- TRANSLATIONAL RESEARCH IN HYPERTENSION AND CARDIORENAL DISEASE**
- PERINATAL MEDICINE**
- RESEARCH ON CARDIOVASCULAR RISK**



TRANSLATIONAL MULTIDISCIPLINARY CARDIOVASCULAR RESEARCH



GROUP DIRECTOR

Bueno Zamora, Héctor José

Arribas Ynsaurriaga, Fernando	Giacoman Hernández, Sebastián	Justo Jiménez, Pablo	Parra Fuertes, Juan José
Cortes Beringola, Alejandro	Gómez Blázquez, Iván Tomás	López Gil, María	Puertas Martín, Verónica
Domínguez Pérez, Laura	Gómez Grande, Adolfo	Martín Asenjo, Roberto	Salguero Bodes, Rafael
Fontenla Cerezuela, Adolfo	González Gómez, Mª del Pilar	Moreno Muñoz , Guillermo	Sarnago Cebada, Fernando
García Tejada, Julio	Iborra Cuevas, Cristian	Palomino Doza, Addison Julián	Tello de Meneses Becerra, Rocío

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	4
Noncompetitive	Various	6
	TOTAL	10

- Title: ATHERO-BRAIN: HEART TO HEAD (H2H) Study.
Principal Investigator: Héctor José Bueno Zamora
Project No.: PI16/00021
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title: Antiagregación en IAM con elevación ST revascularizado C/STENT. SUBPROYECTO 4: Efectividad de la estratificación del riesgo hemorrágico y trombótico.
Principal Investigator: Rafael Salguero Bodes
Project No.: PI13/02502
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 30/06/2018
- Title: Investigación de la estructura y función del sistema cardiovascular en la salud y enfermedad y los mecanismos implicados (PICAT I - 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: TAKO-TSUBO-BRAIN PROJECT. Estudio para identificar los mecanismos psicológicos, neuropsicológicos y neurofisiológicos del Síndrome de Tako-Tsubo.
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: 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

*Publications: Se han seleccionado únicamente "Article", "Review" y "Editorial Material" en "Document Type" de ISI Web Of Knowledge. Las publications no incluidas en el JCR de 2017 se indican como FI N/A, y no se tienen en cuenta en el cómputo final mostrado en la tabla.

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 Ibérica S.A.

Start date: 18/07/2018

End date: 17/07/2019

- **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 Ibérica 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 Ibérica S.A.

Start date: 18/06/2014

End date: 17/06/2017, extended to 31/12/2019

- **Title:** Intervencionismo percutáneo en la enfermedad de tronco coronario izquierdo.

Principal Investigator: Iván Tomás Gómez Blazquez

Funding Body: Biosensors Europe, S.A.

Start date: 01/07/2017

End date: 15/02/2018, extended to 31/12/2018

- **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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Cardiología Conductual. Intervención Psicológica en enfermedad cardiovascular.
- **Principal Investigator:** Rocío Tello de Meneses, investigador colaborador junto a Héctor José Bueno Zamora

Funding Body: Ayudas a la Investigación. Universidad Camilo José Cela

Start date: 2017

End date: 2018

- **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 2017)
Articles	29	237.630
Reviews	3	28.795
Editorials	9	81.596
TOTAL	41	348.021

• Valgimigli M, Bueno H, Byrne RA, Collet JP, Costa F, Jeppsson A, Jüni P, Kastrati A, Kolh P, Mauri L, Montalescot G, Neumann FJ, Petricevic M, Roffi M, Steg PG, Windecker S, Zamorano JL, Levine GN; ESC Scientific Document Group. 2017 ESC focused update on dual antiplatelet therapy in coronary artery disease developed in collaboration with EACTS. European Heart Journal. 2018;39(3 SI):213-3. IF: 23.425 - Article.

• Navas Tejedor P, Palomino Doza J, Tenorio Castaño JA, Enguita Valls AB, Rodriguez Reguero JJ, Martinez Menaca A, Hernandez Gonzalez I, Bueno Zamora H, Lapunzina Badia PD, Escribano Subias P. Variable Expressivity of a Founder Mutation in the ELF2AK4 Gene in Hereditary Pulmonary Veno-occlusive Disease and Its Impact on Survival. Revista Espanola de Cardiologia. 2018;71(2):86-94. IF: 5.166 - Article.

• Alonso Salinas GL, Sanmartin M, Pascual Izco M, Rincon LM, Martin-Acuna A, Pastor Pueyo P, Del Val Martin D, Marco

Del Castillo A, Recio-Mayoral A, Martin-Asenjo R, Garcia-Guerrero A, Caravaca-Perez P, Camino Lopez A, Jimenez-Mena M, Zamorano JL. The Role of Frailty in Acute Coronary Syndromes in the Elderly. Gerontology. 2018;64(5):422-9. IF: 3.532 - Article.

• Ibanez B, James S, Agewall S, Antunes MJ, Bucciarelli-Ducci C, Bueno H, Caforio ALP, Crea F, Goudevenos JA, Halvorsen S, Hindricks G, Kastrati A, Lenzen MJ, Prescott E, Roffi M, Valgimigli M, Varenhorst C, Vranckx P, Widimský P; ESC Scientific Document Group. 2017 ESC Guidelines for the management of acute myocardial infarction in patients presenting with ST-segment elevation. The Task Force for the management of acute myocardial infarction in patients presenting with ST-segment elevation of the European Society of Cardiology (ESC). European Heart Journal. 2018;39(2):119. IF: 23.425 - Article.

• Valgimigli M, Bueno H, Byrne RA, Collet JP, Costa F, Jeppsson A, Jüni P, Kastrati A, Kolh P, Mauri L, Montalescot G, Neumann FJ, Petricevic M, Roffi M, Steg PG, Windecker S, Zamorano JL, Levine GN; ESC Scientific Document Group, ESC Committee for Practice Guidelines (CPG), ESC National Cardiac Societies. 2017 ESC focused update on dual antiplatelet therapy in coronary artery disease developed in collaboration with EACTS. European Heart Journal. 2018;39(3 SI):213-3. IF: 23.425 - Article.

• Aboyans V, Ricco JB, Bartelink MEL, Björck M, Brodmann M, Cohnert T, Collet JP, Czerny M, De Carlo M, Debus S, Espinola-Klein C, Kahan T, Kownator S, Mazzolai L, Naylor AR, Roffi M, Röther J, Spyridis M, Tendera M, Tepe G, Venermo M, Vlachopoulos C, Desormais I, Document Reviewers, Widimsky P, Kolh P, Agewall S, Bueno H, Coca A, De Borst GJ, Delgado V, Dick F, Erol C, Ferrini M, Kakkos S, Katus HA, Knuuti J, Lindahl J, Mattle H, Pieniazek P, Piepoli MF, Scheinert D, Sievert H, Simpson I, Sulzenko J, Tamargo J, Tokgozoglu L, Torbicki A, Tsakountakis N, Tuñón J, de Ceniga MV, Windecker S, Zamorano JL. Editor's Choice-2017 ESC Guidelines on the Diagnosis and Treatment of Peripheral Arterial Diseases, in collaboration with the European Society for Vascular Surgery (ESVS). European Journal of Vascular and Endovascular Surgery. 2018;55(3):305-68. IF: 3.877 - Article.

• Ariza-Sole A, Guerrero C, Formiga F, Aboal J, Abu-Assi E, Marin F, Bueno H, Alegre O, Lopez-Palop R, Vidan MT, Martinez-Selles M, Diez-Villanueva P, Vilardell P, Sionis A, Vives-Borras M, Sanchis J, Baneras J, Rafecas A, Llibre C, Lopez J, Gonzalez-Salvado V, Cequier A; LONGEVO-SCA Registry Investigators. Global Geriatric Assessment and In-Hospital Bleeding Risk in Elderly Patients with Acute

Coronary Syndromes: Insights from the LONGEVO-SCA Registry. Thrombosis and Haemostasis. 2018;118(3):581-90. IF: 4.952 - Article.

• Gupta A, Barrabés JA, Strait K, Bueno H, Porta-Sánchez A, Acosta-Velez JG, Lidon RM, Spatz E, Geda M, Dreyer RP, Lorenze N, Lichtman J, D'Onofrio G, Krumholz HM. Sex Differences in Timeliness of Reperfusion in Young Patients With ST-Segment-Elevation Myocardial Infarction by Initial Electrocardiographic Characteristics. Journal of the American Heart Association. 2018;7(6):e007021. IF: 4.450 - Article.

• Arroyo-Gallego T, Ledesma-Carbajo MJ, Butterworth I, Matarazzo M, Montero-Escribano P, Puertas-Martín V, Gray ML, Giancardo L, Sanchez-Ferro A. Detecting Motor Impairment in Early Parkinson's Disease via Natural Typing Interaction With Keyboards: Validation of the neuroQWERTY Approach in an Uncontrolled At-Home Setting. Journal of Medical Internet Research. 2018;20(3):e89. IF: 4.671 - Article.

• Alegre O, Formiga F, Lopez-Palop R, Marin F, Vidan MT, Martinez-Selles M, Carol A, Sionis A, Diez-Villanueva P, Aboal J, Palau-Vendrel A, Bueno H, Rivera AP, Sanchis J, Abu-Assi E, Corbi M, Castillo JC, Bañeras J, Gonzalez-Salvado V, Cequier A, Ariza-Sole A; LONGEVO-SCA Registry Investigators. An Easy Assessment of Frailty at Baseline Independently Predicts Prognosis in Very Elderly Patients With Acute Coronary Syndromes. Journal of the American Medical Directors Association. 2018;19(4):296-303. IF: 5.325 - Article.

• Unzué L, García E, Rodríguez Rodrigo FJ, Parra Jiménez FJ, Medina Peralta J, Díaz-Antón B, Rodríguez del Río M, Fontenla A, Teijeiro R, Rubio-Alonso B. Electrocardiographic changes and conduction disturbances after transfemoral aortic valve implantation with Edwards Sapien 3 prosthesis. Journal of Electrocardiology. 2018;51(3):416-21. IF: 1.421 - Article.

• Martín-Sánchez FJ, Rodríguez-Adrada E, Vidan MT, Diez Villanueva P, Llopis García G, Gonzalez Del Castillo J, Alberto Rizzi M, Alquezar A, Herrera Mateo S, Pinera P, Sanchez Nicolas JA, Lazaro Aragues P, Llorens P, Herrero P, Jacob J, Gil V, Fernandez C, Bueno H, Miro O. Impact of geriatric assessment variables on 30-day mortality among older patients with acute heart failure. Emergencias. 2018;30(3):149-55. IF: 3.608 - Article.

• Liao I, Ariza-Sole A, Sanchis J, Alegre O, Lopez-Palop R, Formiga F, Marin F, Vidan MT, Martinez-Selles M, Sionis A, Vives-Borras M, Gomez-Hospital JA, Gomez-Lara J, Roura

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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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- de Jong MR, Hoogerwaard AF, Adiyaman A, Smit JJJ, Ramdat Misier AR, Heeg JE, van Hasselt BAAM, Van Gelder IC, Crijns HJGM, Lozano IF, Toquero Ramos JE, Javier Alzueta F, Ibanez B, Rubio JM, Arribas F, Porres Aracama JM, Brugada J, Mont L, Elvan A. Treatment of atrial fibrillation in patients with enhanced sympathetic tone by pulmonary vein isolation or pulmonary vein isolation and renal artery denervation: clinical background and study design. *Clinical Research in Cardiology*. 2018;107(7):539-47. IF: 4.455 - Article.
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- Palomino Doza J, Salguero-Bodes R, de la Parte M, Arribas-Ynsaurriaga F. Association Between Mutations in the NKX2.5 Homeobox, Atrial Septal Defects, Ventricular Noncompaction and Sudden Cardiac Death. *Revista Española de Cardiología* (English Ed). 2018;71(1):53-5. IF: N/A - Letter.
- Martín-Asenjo R, Aboal J, Masip J, López de Sá E, Sionis A. Selection of the Best of 2017 in Ischemic Heart Disease. *Revista Española de Cardiología* (English Ed). 2018;71(2):124-5. IF: N/A - Letter.

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Mónica del Pozo Rodríguez
Title: Abordaje de la Diabetes Mellitus tipo 2 en el contexto de un síndrome coronario agudo con elevación del ST: experiencia en un servicio de cardiología
Director: Laura Domínguez Pérez
Degree: Medicina (UCM)

RESEARCH ON CARDIOVASCULAR IMAGING



GROUP DIRECTOR

Solís Martín, Jorge

Flox Camacho, Ángela
García Robles, José Antonio
Jiménez López-Guarch, Mª del Carmen

Miguel Gutiérrez, Ana
Ortega Restrepo, Juan Felipe
Vannini, Luca

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	1	5.420
Editorials	1	8.336
TOTAL	2	13.756

- Fidalgo A, Fernandez-Friera L, Solis J. A 52-year-old woman with ventricular tachycardia. *Heart*. 2018;104(24):2025-43. IF: 5.420 - Article.
- Fernandez-Friera L, Salguero R, Vannini L, Arguelles AF, Arribas F, Solis J. Mechanistic insights of the left ventricle structure and fibrosis in the arrhythmogenic mitral valve prolapse. *Global Cardiology Science & Practice*. 2018;2018(1):4. IF: N/A - Article.

• Gonzalez-Saiz L, Santos-Lozano A, Fiua-Luces C, Sanz-Ayan P, Quezada-Loaiza CA, Ruiz-Casado A, Alejo LB, Flox-Camacho A, Moran M, Lucia A, Escribano-Subias P. Physical activity levels are low in patients with pulmonary hypertension. *Annals of Translational Medicine*. 2018;6(11):205. IF: N/A - Article.

• Melendo-Viu M, Jimenez-Lopez Guarch C, Dominguez Perez L, Alonso Charterina S, Solis J. The key is in the air: transthoracic echocardiogram leading to diagnose emphysematous gastritis. *European Heart Journal-Cardiovascular Imaging*. 2018;19(5):585. IF: 8.336 - Editorial Material.

HEART FAILURE – PULMONARY HYPERTENSION



GROUP DIRECTOR

Delgado Jiménez, Juan Francisco

de Juan Baguda, Javier Salvador
Escribano Subías, Mª del Pilar
García Gutiérrez, Raquel
García-Aranda Domínguez, Beatriz

García-Cosío Carmena, Mª Dolores
Hernández González, Ignacio
Morán Fernández, Laura Lucía
Ponz de Antonio, Inés

Rodríguez Chaverri, Adriana
Sánchez Sánchez, Violeta
Velázquez Martín, Mª Teresa
Zaragoza García, Ignacio

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	2
Noncompetitive	Various	2
TOTAL		4

- Title:** Evaluación no invasiva de la vasculopatía pulmonar asociada a influencia cardíaca avanzada.
Principal Investigator: Juan Francisco Delgado Jiménez
Project No.: PI17/01569
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020
- Title:** Bases genético-moleculares de la hipertensión arterial pulmonar y su expresión fenotípica en la población española.

Principal Investigator: Mª 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:** Efectos del entrenamiento combinado (aeróbico, de fuerza y de musculatura inspiratoria) sobre la capacidad aeróbica y calidad de vida en pacientes con hipertensión pulmonar.

Principal Investigator: Mª del Pilar Escribano Subiás
Funding Body: Glaxosmithkline, S.A.
Start date: 20/04/2015
End date: 19/12/2018

• **Title:** Farmacogenómica en la Hipertensión Arterial Pulmonar: Estudio de la Correlación Genotípica-Fenotípica.
Principal Investigator: Mª del Pilar Escribano Subiás
Funding Body: Ferrer Internacional, S.A.
Start date: 20/12/2013
End date: 19/12/2016, extended to 31/01/2019

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	18	120.947
Reviews	3	8.626
Editorials	2	24.789
TOTAL	23	154.362
Letters	1	18.88
TOTAL	24	173.242

- Barge-Caballero E, Almenar-Bonet L, Crespo-Leiro MG, Brossa-Loidi V, Rangel-Sousa D, Gómez-Bueno M, Farrero-Torres M, Díaz-Molina B, Delgado-Jiménez J, Martínez-Sellés M, López-Granados A, De-la-Fuente-Galán L, González-Costello J, Garrido-Bravo IP, Blasco-Peiró T, Rabago-Juan-Aracil G, González-Vilchez F. Preoperative Toxoplasma gondii serostatus does not affect long-term survival of cardiac transplant recipients. Analysis of the Spanish Heart Transplantation Registry. *International Journal of Cardiology*. 2018;250:183-7. IF: 4.034 - Article.
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- Navarro-García JA, Fernández-Velasco M, Delgado C, Delgado JF, Kuro-O M, Ruilope LM, Ruiz-Hurtado G. PTH, vitamin D, and the FGF-23-klotho axis and heart: Going beyond the confines of nephrology. *European Journal of Clinical Investigation*. 2018;48(4):UNSP e12902. IF: 3.086 - Review.

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- Hernández A, Delgado JF, Cinca J, Fernández-Aviles F, Marrugat J. Prevalence and incidence of hyperkalaemia in the Spanish population with heart failure with reduced ejection fraction: a systematic review and populational relevance. *Revista Clínica Española*. 2018;218(5):253-60. IF: 1.184 - Review.

- Escribano-Subías P, Quezada-Loaiza CA. Role of right ventricular reverse remodeling in risk assessment of pulmonary hypertension. *Journal of Heart and Lung Transplantation*. 2018;37(2):182-3. IF: 7.955 - Editorial Material.

- Jiménez D, Quezada CA, Escribano P. Surrogate Endpoints for Pulmonary Hypertension Management and Trial Design Moving in the Right Direction. *Journal of the American College of Cardiology*. 2018;71(7):764-5. IF: 16.834 - Editorial Material.

- Bogada JJ, Jiménez JFD. Primary and Specialized Care: a necessary relationship for the implementation of a Heart Failure program. *Clinica e Investigación en Arteriosclerosis*. 2018;30(6):265-7. IF: N/A - Editorial Material.

- Hernández-González I, Navas P, Escribano-Subías P. Letter by Hernández-González et al Regarding Article, "Phenotypic Characterization of EIF2AK4 Mutation Carriers in a Large Cohort of Patients Diagnosed Clinically With Pulmonary Arterial Hypertension". *Circulation*. 2018;137(22):2411-2. IF: 18.880 - Letter.

- Lázaro Salvador M, Escribano Subías P, Castro Fernández A, Hernández Simón P, Berenguel Senén A, Rodríguez Padial L. Selection of the Best of 2017 in Pulmonary Hypertension. *Revista Española de Cardiología* (English Ed). 2018;71(4):299-300. IF: N/A - Letter.
- García-Aranda B, Sarnago F, Velázquez MT, Mendoza A, López-Gude MJ, Alonso-González R. Selection of the Best of 2017 in Congenital Heart Disease. *Revista Española de Cardiología* (English Ed). 2018;71(4):302-3. IF: N/A - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** María Jesús López Gude
Title: Manejo de la Hipertensión Pulmonar Tromboembólica Crónica. Nuevas líneas de trabajo
Director/s: Mª del Pilar Escribano Subiás, José Mª Aguado García
Date Defended: 01/06/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Sergio Huertas
Title: Utilidad del cateterismo derecho de ejercicio en la enfermedad tromboembólica crónica
Director: Mª del Pilar Escribano Subiás
Master: UAB

PRIZES AND AWARDS

- Acreditación SEC excellent in community CI, in advanced CI and ventricular assistance.
Prize: Unidad de Insuficiencia Cardiaca.
- Finalist in the Heart Area of de Top 20 2018 prizes.
Prize: Unidad de Insuficiencia Cardiaca, Cardiología y Medicina Interna.
- Accesit in the 8º Certamen Científico "Ana María Martínez" by de nurse work "Diseño, implantación y resultados de un programa transversal multidisciplinar en Insuficiencia Cardiaca".
Prize: Enfermería de la Unidad de Insuficiencia Cardiaca.

TRANSLATIONAL RESEARCH IN HYPERTENSION AND CARDIORENAL DISEASE



GROUP DIRECTORS

Ruilope Urioste, Luis Miguel
Ruiz Hurtado, Gema

Aceves Ripoll, Jennifer
Fernández López, Mª Luisa
González Lafuente, Laura
Guerrero Llamas, Lucía

Navarro García, José Alberto
Rodríguez Sánchez, Elena
Segura de la Morena, José Julián

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	5
Competitive	Fundación SENEFRO	1
Competitive	Fundación Casa del Corazón	1
Competitive	Fundación Renal Íñigo Álvarez de Toledo	1
TOTAL		8

- Title:** Asociación entre FGF-23 y las arritmias ventriculares en la enfermedad renal terminal: aproximación traslacional 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, extended to 31/12/2019

- Title:** Abordaje integral de la hipertensión arterial resistente: mejora del diagnóstico y tratamiento y búsqueda de marcadores biológicos de respuesta terapéutica.
Principal Investigator: José Julián Segura de la Morena
Project No.: PI13/01746
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/02/2014
End date: 31/12/2016, extended to 30/06/2018

- Title:** HPP iniciativa cardiovascular: variaciones del perfil molecular y “ómico” con la edad y la estratificación del riesgo cardiovascular.
Principal Investigator: Luis Miguel Ruilope Urioste
Project No.: PI14/01841
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 30/06/2019
- Title:** Papel de las metaloproteinasas de matriz en la albúminuria desarrollada bajo el bloqueo del sistema renina angiotensina.
Principal Investigator: Gema Ruiz Hurtado
Funding Body: Fundación SENEFRO
Start date: 01/01/2016
End date: 31/12/2018
- 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 2017)
Articles	17	216.761
Reviews	3	31.731
Editorials	2	5.258
TOTAL	22	253.750
Letters	4	155.484
TOTAL	26	409.234

- Rossi GP, Seccia TM, Barton M, Danser AHJ, de Leeuw PW, Dhaun N, Rizzoni D, Rossignol P, Ruilope LM, van den

Meiracker AH, Ito S, Hasebe N, Webb DJ. Endothelial factors in the pathogenesis and treatment of chronic kidney disease Part I: General mechanisms: a joint consensus statement from the European Society of Hypertension Working Group on Endothelin and Endothelial Factors and The Japanese Society of Hypertension. *Journal of Hypertension*. 2018;36(3):451-61. IF: 4.092 - Article.

Rossi GP, Seccia TM, Barton M, Danser AHJ, de Leeuw PW, Dhaun N, Rizzoni D, Rossignol P, Ruilope LM, van den Meiracker AH, Ito S, Hasebe N, Webb DJ. Endothelial factors in the pathogenesis and treatment of chronic kidney disease Part II: Role in disease conditions: a joint consensus statement from the European Society of Hypertension Working Group on Endothelin and Endothelial Factors and the Japanese Society of Hypertension. *Journal of Hypertension*. 2018;36(3):462-71. IF: 4.092 - Article.

Baldan-Martin M, Lopez JA, Corbacho-Alonso N, Martinez PJ, Rodriguez-Sanchez E, Mourino-Alvarez L, Sastre-Oliva T, Martin-Rojas T, Rincon R, Calvo E, Vazquez J, Vivanco F, Padial LR, Alvarez-Llamas G, Ruiz-Hurtado G, Ruilope LM, Barderas MG. Potential role of new molecular plasma signatures on cardiovascular risk stratification in asymptomatic individuals. *Scientific Reports*. 2018;8(1):4802. IF: 4.122 - Article.

Mesquita TR, Auguste G, Falcon D, Ruiz-Hurtado G, Salazar-Enciso R, Sabourin J, Lefebvre F, Viengchareun S, Kobeissy H, Lechene P, Nicolas V, Fernandez-Celis A, Gomez S, Santos SL, Morel E, Rueda A, Lopez-Andres N, Gomez AM, Lombes M, Benitah JP. Specific Activation of the Alternative Cardiac Promoter of Cacna1c by the Mineralocorticoid Receptor. *Circulation Research*. 2018;122(7):49-61. IF: 15.211 - Article.

Banegas JR, Ruilope LM, de la Sierra A, Vinyoles E, Gorostidi M, de la Cruz JJ, Ruiz-Hurtado G, Segura J, Rodriguez-Artalejo F, Williams B. Relationship between Clinic and Ambulatory Blood-Pressure Measurements and Mortality. *New England Journal of Medicine*. 2018;378(16):1509-20. IF: 79.258 - Article.

Gijon-Conde T, Graciani A, Lopez-Garcia E, Garcia-Esquinas E, Laclaustra M, Ruilope LM, Rodriguez-Artalejo F, Banegas JR. Frailty, Disability, and Ambulatory Blood Pressure in Older Adults. *Journal of The American Medical Directors Association*. 2018;19(5):433-8. IF: 5.325 - Article.

Sarafidis PA, Ruilope LM, Loutradis C, Gorostidi M, de la Sierra A, de la Cruz JJ, Vinyoles E, Divison-Garrote JA, Segura J, Banegas JR. Blood pressure variability increases with advancing chronic kidney disease stage: a cross-sectional analysis of 16546 hypertensive patients. *Journal of Hypertension*. 2018;36(5):1076-85. IF: 4.092 - Article.

Val-Blasco A, Navarro-Garcia JA, Tamayo M, Piedras MJ, Prieto P, Delgado C, Ruiz-Hurtado G, Rozas-Romero L, Gil-Fernandez M, Zaragoza C, Bosca L, Fernandez-Velasco M. Deficiency of NOD1 Improves the beta-Adrenergic Modulation of Ca²⁺ Handling in a Mouse Model of Heart Failure. *Frontiers in Physiology*. 2018;9:702. IF: 3.394 - Article.

de la Sierra A, Armario P, Oliveras A, Banegas JR, Gorostidi M, Vinyoles E, de la Cruz JJ, Segura J, Ruilope LM. Antihypertensive drug use in resistant and nonresistant hypertension and in controlled and uncontrolled resistant hypertension. *Journal of Hypertension*. 2018;36(7):1563-70. IF: 4.092 - Article.

Beaney T, Schutte AE, Tomaszewski M, Ariti C, Burrell LM, Castillo RR, Charchar FJ, Damasceno A, Kruger R, Lackland DT, Nilsson PM, Prabhakaran D, Ramirez AJ, Schlaich MP, Wang J, Weber MA, Poulter NR; MMM Investigators. May Measurement Month 2017: an analysis of blood pressure screening results worldwide. *Lancet Global Health*. 2018;6(7):736-43. IF: 18.705 - Article.

Drawz PE, Brown R, De Nicola L, Fujii N, Gabbai FB, Gassman J, He J, Iimuro S, Lash J, Minutolo R, Phillips RA, Rudser K, Ruilope L, Steigerwalt S, Townsend RR, Xie D, Rahman M; CRIC Study Investigators. Variations in 24-Hour BP Profiles in Cohorts of Patients with Kidney Disease around the World The I-DARE Study. *Clinical Journal of The American Society of Nephrology*. 2018;13(9):1348-57. IF: 5.835 - Article.

Gaziano JM, Brotons C, Coppolecchia R, Cricelli C, Darius H, Gorelick PB, Howard G, Pearson TA, Rothwell PM, Ruilope LM, Tendera M, Tognoni G; ARRIVE Executive Committee. Use of aspirin to reduce risk of initial vascular events in patients at moderate risk of cardiovascular disease (ARRIVE): a randomised, double-blind, placebo-controlled trial. *Lancet*. 2018;392(10152):1036-46. IF: 53.254 - Article.

Banegas JR, Ruilope LM, Williams B. 2018 ESC/ESH Guidelines for the management of arterial hypertension The Task Force for the management of arterial hypertension of the European Society of Cardiology and the European Society of Hypertension. *Journal of Hypertension*. 2018;36(10):1953-2041. IF: 4.092 - Article.

Gonzalez-Blazquez R, Somoza B, Gil-Ortega M, Martin Ramos M, Ramiro-Cortijo D, Vega-Martin E, Schulz A, Ruilope LM, Kolkhof P, Kreutz R, Fernandez-Alfonso MS. Finerenone Attenuates Endothelial Dysfunction and Albuminuria in a Chronic Kidney Disease Model by a Reduction in Oxidative Stress. *Frontiers In Pharmacology*. 2018;9:1131. IF: 3.831 - Article.

Gorostidi M, Sanchez-Martinez M, Ruilope LM, Graciani A, de la Cruz JJ, Santamaría R, Del Pino MD, Guallar-Castillon P, de Alvaro F, Rodriguez-Artalejo F, Banegas JR. Chronic kidney disease in Spain: Prevalence and impact of accumulation of cardiovascular risk factors. *Nefrologia*. 2018;38(6):606-15. IF: 1.167 - Article.

Williams B, Mancia G, Spiering W, Agabiti Rosei E, Azizi M, Burnier M, Clement D, Coca A, De Simone G, Dominiczak A, Kahan T, Mahfoud F, Redon J, Ruilope L, Zanchetti A, Kerins M, Kjeldsen S, Kreutz R, Laurent S, Lip GYH, McManus R, Narkiewicz K, Ruschitzka F, Schmieder R, Shlyakhto E, Tsiofis K, Aboyans V, Desormais I. 2018 Practice guidelines for the management of arterial hypertension of the European Society of Hypertension (ESH) and the European Society of Cardiology (ESC). *Blood Pressure*. 2018;27(6):314-40. IF: 2.107 - Article.

Williams B, Mancia G, Spiering W, Agabiti Rosei E, Azizi M, Burnier M, Clement D, Coca A, De Simone G, Dominiczak A, Kahan T, Mahfoud F, Redon J, Ruilope L, Zanchetti A, Kerins M, Kjeldsen S, Kreutz R, Laurent S, Lip GYH, McManus R, Narkiewicz K, Ruschitzka F, Schmieder R, Shlyakhto E, Tsiofis K, Aboyans V, Desormais I; List of authors/Task Force members. 2018 Practice Guidelines for the management of arterial hypertension of the European Society of Cardiology and the European Society of Hypertension ESC/ESH Task Force for the Management of Arterial Hypertension. *Journal of Hypertension*. 2018;36(12):2284-309. IF: 4.092 - Article.

Ruiz-Hurtado G, Ruilope LM. Microvascular injury and the kidney in hypertension. *Hipertension y Riesgo Vascular*. 2018;35(1):24-9. IF: N/A - Article.

Ruilope LM, Nunes Filho ACB, Nadruz W, Rodríguez Rosales FF, Verdejo-Paris J. Obesity and hypertension in Latin America: Current perspectives. *Hipertension y Riesgo Vascular*. 2018;35(2):70-6. IF: N/A - Article.

Navarro-García JA, Fernández-Velasco M, Delgado C, Delgado JF, Kuro-O M, Ruilope LM, Ruiz-Hurtado G. PTH, vitamin D, and the FGF-23-klotho axis and heart: Going beyond the confines of nephrology. *European Journal of Clinical Investigation*. 2018;48(4):UNSP e12902. IF: 3.086 - Review.

Baldan-Martin M, Rodriguez-Sanchez E, Gonzalez-Calero L, Ruilope LM, Alvarez-Llamas G, Barderas MG, Ruiz-Hurtado G. Translational science in albuminuria: a new view of de novo albuminuria under chronic RAS suppression. *Clinical Science*. 2018;132(7):739-58. IF: 5.220 - Review.

Williams B, Mancia G, Spiering W, Agabiti Rosei E, 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, Tsiofis C, Aboyans V, Desormais I; ESC Scientific Document Group. 2018 ESC/ESH Guidelines for the management of arterial hypertension. European Heart Journal. 2018;39(33):3021. IF: 23.425 - Review.

- Ruilope LM, Banegas JR. The use of antihypertensive fixed combinations in clinical practice needs a reappraisal. Journal of Clinical Hypertension. 2018;20(4):716-7. IF: 2.629 - Editorial Material.
- Banegas JR, Ruilope LM. The epidemiological magnitude of white-coat hypertension and masked hypertension in Africa. Journal of Clinical Hypertension. 2018;20(8):1173-5. IF: 2.629 - Editorial Material.
- Banegas JR, Ruilope LM, Williams B. White-coat UnControlled Hypertension, Masked UnControlled Hypertension, and True UnControlled Hypertension, phonetic and mnemonic terms for treated hypertension phenotypes. Journal of Hypertension. 2018;36(2):446-7. IF: 4.092 - Letter.
- Santos-Lozano A, Baladron C, Martin-Hernandez J, Morales JS, Ruilope L, Lucia A. mHealth and the legacy of John Snow. Lancet. 2018;391(10129):1479-80. IF: 53.254 - Letter.
- de la Sierra A, Banegas JR, Vinyoles E, Segura J, Gorostidi M, de la Cruz JJ, Ruilope LM. Prevalence of Masked Hypertension in Untreated and Treated Patients With Office Blood Pressure Below 130/80 mm Hg. Circulation. 2018;137(24):2651-3. IF: 18.880 - Letter.
- Banegas JR, Ruilope LM, Williams B. Ambulatory Blood Pressure and Mortality. New England Journal of Medicine. 2018;379(13):1287-8. IF: 79.258 - Letter.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Marta Gil Fernández
Title: Implicación de los receptores NOD1 en el remodelado cardiaco deletereo asociado al desarrollo de insuficiencia renal
Director: Gema Ruiz Hurtado, María Fernández Velasco
Master: Biociencias Moleculares (UAM)

PRIZES AND AWARDS

- Luis Miguel Ruilope is included in the list of the world most influential investigators due to his high number of citations in 2018, as 'Highly Cited Researchers 2018' in the Clarivate Analytics ranking (see <https://hcr.clarivate.com/>).
- Luis Hernando Prize for Young Investigators Jóvenes Investigadores, to Gema Ruiz Hurtado. Delivered by the Fundación Íñigo Álvarez de Toledo (FRIAT), december 2017. Sociedad Española de Cardiología Prize for basic investigation 2017. Investigator Awarded: Gema Ruiz Hurtado.

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



GROUP DIRECTOR

Galindo Izquierdo, Alberto

Albert de la Torre, Leticia
Caro Barri, Ana Teresa
Escribano Abad, David
Flores Fernández, Marta

García Burguillo, Antonio
Gómez Arriaga, Paula Isabel
Gómez Montes, Mª Enry
Granados Ruiz, Miguel Ángel

Herraiz García, Ignacio
Herrera Linde, Mª Dolores
Mendoza Soto, Alberto
Montañés Delmas, Mª Elena

Quezada Rojas, Mª Soledad
Rodríguez Calvo, Jesús
Toral Vázquez, Belén

Principal Investigator: Alberto Mendoza Soto

Funding Body: Evomed, S.L.

Start date: 15/03/2017

End date: 14/03/2020

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	2
Noncompetitive	Various	1
TOTAL		3

- 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

- Title:** Desarrollo de métodos predictivos basados en la integración de factores prenatales y postnatales para la detección de neurodesarrollo anómalo en cardiopatías congénitas.

Principal Investigator: Mª Enry Gómez Montes
Project No.: PI13/02085
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 31/06/2018

- Title:** Evaluación de la capacidad funcional en pacientes en estado de fontan en la edad pediátrica.

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	6	15.565
Reviews	1	1.813
TOTAL	7	17.378

- Rodríguez-Almaraz ME, Herraiz I, Gómez-Arriaga PI, Vallejo P, Gonzalo-Gil E, Usategui A, López-Jiménez EA, Galindo A, Galindo M. The role of angiogenic biomarkers and uterine artery Doppler in pregnant women with systemic lupus erythematosus or antiphospholipid syndrome. Pregnancy Hypertension - An International Journal of Womens Cardiovascular Health. 2018;11:99-104. IF: 2.011 - Article.
- Gómez-Manjón I, Moreno-Izquierdo A, Mayo S, Moreno-García M, Delmiro A, Escribano D, Fernandez-Martínez FJ. Noninvasive Prenatal Testing: Comparison of Two Mappers and Influence in the Diagnostic Yield. Biomed Research International. 2018;2018:9498140. IF: 2.583 - Article.
- Bellido C, Barbero P, Forcen L, Blanco M, Alonso-Riano M,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.



Galindo A. Clinical and economic outcomes associated with the use of fluticasone propionate 250 mcg and salmeterol 50 mcg combination versus tiotropium bromide: 18 mcg as initial maintenance treatment for chronic obstructive pulmonary disease in managed care. *Journal of Maternal-Fetal & Neonatal Medicine.* 2018;21(6):629-38. IF: 1.493 - Article.

- Villalain C, Herraiz I, Quezada MS, Gomez-Arriaga PI, Gomez-Montes E, Galindo A. Fetal Biometry and Doppler Study for the Assessment of Perinatal Outcome in Stage I Late-Onset Fetal Growth Restriction. *Fetal Diagnosis and Therapy.* 2018;44(4):264-70. IF: 1.813 - Article.

- Herraiz I, Simon E, Gomez-Arriaga PI, Quezada MS, Garcia-Burguillo A, Lopez-Jimenez EA, Galindo A. Clinical implementation of the sFlt-1/PIGF ratio to identify preeclampsia and fetal growth restriction: A prospective cohort study. *Pregnancy Hypertension - An International Journal of Womens Cardiovascular Health.* 2018;13:279-85. IF: 2.011 - Article.

- Gomez-Arriaga PI, Herraiz I, Galindo A. Aortopulmonary Window, Absent Ductus, and Left Subclavian Artery Isolation. *Revista Española de Cardiología (English Ed).* 2018;71(8):669. IF: N/A - Editorial Material.

- Herraiz I, Quezada MS, Rodriguez-Calvo J, Gómez-Montes E, Villalaín C, Galindo A. Longitudinal change of sFlt-1/PIGF ratio in singleton pregnancy with early-onset fetal growth restriction. *Ultrasound in Obstetrics & Gynecology.* 2018;52(5):631-8. IF: 5.654 - Article.

- Herraiz I, Llurba E, Verloren S, Galindo A; Spanish Group for the Study of Angiogenic Markers in Preeclampsia. Update on the Diagnosis and Prognosis of Preeclampsia with the Aid of the sFlt-1/PIGF Ratio in Singleton Pregnancies. *Fetal Diagnosis and Therapy.* 2018;43(2):81-9. IF: 1.813 - Review.

- García-Aranda B, Sarnago F, Velázquez MT, Mendoza A, López-Gude MJ, Alonso-González R. Selection of the Best of 2017 in Congenital Heart Disease. *Revista Española de Cardiología (English Ed).* 2018;71(4):302-3. IF: N/A - Letter.

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student: David Fernández Racionero, Miguel Angel Navas Jimenez
Title: Atresia pulmonar con septo interventricular íntegro: predictores de la evolución a medio y largo plazo en nuestro centro (end of degree work in medicine with master level)

Directors: Miguel Ángel Granados, Alberto Mendoza Soto
Degree: Medicina (UCM)

- Student: Florencia Nara Riccilio Hernández
Title: Reintervenciones por obstrucción del tracto de salida del ventrículo derecho en pacientes operados de Tetralogía de Fallot (end of degree work in medicine with master level)

Director: Miguel Ángel Granados
Degree: Medicina (UCM)

- Student: Nazaret Pizarro Vega, Eliam Ajuria Fernández, Alba Barasoain Alcaide, Ana Mendoza Martínez

Title: Impacto del test no invasivo para la detección de ADN fetal en sangre materna en la realización de pruebas invasivas para el estudio del cariotipo fetal (end of degree work in medicine with master level)

Director: Ignacio Herraiz García, David Escribano Abad
Degree: Medicina (UCM)

- Student: Julia Saiz

Title: Análisis de supervivencia y mortalidad a dos años de los recién nacidos con CIR precoz (end of degree work in medicine with master level)

Director: Ignacio Herraiz García, Alberto Galindo Izquierdo
Degree: Medicina (UCM)

- Student: Sun, Meng Ting

Title: Finalización de gestaciones con fetos diagnosticados de cardiopatías congénitas (end of degree work in medicine with master level)

Director: Enery Gómez Montes
Degree: Medicina (UCM)

- Student: Fátima Xiomara Martínez González

Title: Acidosis fetal grave intraparto: análisis de factores predictivos de morbilidad neonatal (end of degree work in medicine with master level)

Director: Antonio García Burguillo, Alberto Galindo Izquierdo
Degree: Medicina (UCM)

- Student: Raquel Campos Romero, Patricia Sánchez-Tembleque Sánchez

Title: Cáncer y embarazo (end of degree work in medicine with master level)

Director: Álvaro Tejerizo García, Ana Villalba Gutiérrez, Alberto Galindo Izquierdo
Degree: Medicina (UCM)

- Student: Gemma Lafuente Gómez

Title: Macrosomía fetal: factores asociados y complicaciones en el parto (end of degree work in medicine with master level)

Director: Antonio García Burguillo
Degree: Medicina (UCM)

RESEARCH ON CARDIOVASCULAR RISK



GROUP DIRECTOR

Minué Lorenzo, César

Camarelles Guillem, Francisco

Gámez Cabero, Mª Isabel

Granados Garrido, José Antonio

Martínez Suberviola, Francisco Javier

Matilla Pardo, Blanca

Olano Espinosa, Eduardo

Pastor Rodríguez-Moñino, Ana

Ruiz Pacheco, Margarita

Serrano Serrano, Encarnación
Vizcaíno Sánchez-Rodrigo, José Mª

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	1	1.148
Editorials	1	1.148
TOTAL	2	2.296

- Córdoba García R, Camarelles Guillem F, Muñoz Seco E, Gómez Puente JM, José Arango JS, Ramírez Manent JL, Martín Cantera C, Campo Giménez MD, Revenga Frauca J; Grupo de Educación Sanitaria y Promoción de la Salud del PAPPS. Recomendaciones sobre el estilo de vida. Actualización PAPPS 2018. *Atencion Primaria.* 2018;50(Suppl 1):29-40. IF: 1.148 - Article.

- Camarelles Guillem F. Los retos de la prevención y promoción de la salud, y los del PAPPS. *Atencion Primaria.* 2018;50(Suppl 1):1-2. IF: 1.148 - Editorial Material.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: María Encarnación Serrano Serrano
Title: Efectividad de la intervención en tabaquismo para el abandono del consumo de tabaco en mujeres embarazadas en atención primaria: ensayo clínico aleatorizado y controlado por conglomerados
Director/s: Juan de Dios García Díaz
Date Defended: 25/09/2018
University: Universidad Complutense de Madrid

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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: Pablos Álvarez, José Luis

- ASTHMA AND IMMUNOALLERGIC DISEASES**
- MOLECULAR AND CELLULAR BASES OF RHEUMATIC DISEASES**
- INFLAMMATORY AND AUTOIMMUNE DISEASES**
- LYMPHOCYTE IMMUNOBIOLOGY**
- IMMUNODEFICIENCIES AND IMMUNOLOGY OF TRANSPLANTS**



ASTHMA AND IMMUNOALLERGIC DISEASES



GROUP DIRECTOR

Diéguez Pastor, M^a del Carmen

Barranco Jiménez, Ruth
Cabanillas Martín, Beatriz
de las Cuevas Moreno, Natividad
Enríquez Matas, Alicia

Fernández Crespo, Jesús
Fernández Rodríguez, Consuelo
García Hernández, Gloria
García Moguel, Ismael

Gómez-Acebo Jericó, Francisca
Guillén Vera, Daiana
Herráez Herrera, Pilar de Lys
Luna Paredes, M^a del Carmen

Mielgo Ballesteros, Ruth
Rodríguez Rodríguez, Julia
Troyano Rivas, Carmen

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	Sociedad Española de Gastroenterología Hepática y Nutrición Pediátrica	1
Competitive	Fundación Merck Salud	1
Noncompetitive	Various	1
TOTAL		3

- **Title:** Biomarcador no invasivo en la esofagitis eosinofílica: utilidad clínica de la periostina sérica en población infantil y adulta con esta patología.
Principal Investigator: M^a del Carmen Diéguez Pastor
Funding Body: Fundación Española de Alergología e Inmunología Clínica
Start date: 01/01/2018
End date: 31/05/2019

- **Title:** Identificación de marcadores no invasivos y nuevas dianas terapéuticas en pacientes con esofagitis eosinofílica.
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 eosinofílica: papel de la periostina 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: 23/05/2017
End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	7	27.335
Reviews	1	3.457
Total	8	30.792
TOTAL	22	253.750

- 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, Torrego A, Martinez-Moragon

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- 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.
- Cabanillas B, Cuadrado C, Rodriguez J, Dieguez MC, Crespo JF, Novak N. Boiling and Pressure Cooking Impact on IgE Reactivity of Soybean Allergens. *International Archives of Allergy and Immunology*. 2018;175(1-2):36-43. IF: 2.437 - Article.
- Cuadrado C, Cheng HP, Sanchiz A, Ballesteros I, Easson M, Grimm CC, Dieguez MC, Linacero R, Burbano C, Maleki SJ. Influence of enzymatic hydrolysis on the allergenic reactivity of processed cashew and pistachio. *Food Chemistry*. 2018;241:372-9. IF: 4.946 - Article.
- Moya CM, Zaballos MA, Garzon L, Luna C, Simon R, Yaffe MB, Gallego E, Santisteban P, Moreno JC. TAZ/WWTR1 Mediates the Pulmonary Effects of NKX2-1 Mutations in Brain-Lung-Thyroid Syndrome. *Journal of Clinical Endocrinology & Metabolism*. 2018;103(3):839-52. IF: 5.789 - Article.
- Sanchiz A, Cuadrado C, Dieguez MC, Ballesteros I, Rodriguez J, Crespo JF, Cuevas NL, Rueda J, Linacero R, Cabanillas B, Novak N. Thermal processing effects on the IgE-reactivity of cashew and pistachio. *Food Chemistry*. 2018;245:595-602. IF: 4.946 - Article.
- Sanchiz A, Ballesteros I, Marques E, Dieguez MC, Rueda J, Cuadrado C, Linacero R. Evaluation of locked nucleic acid and TaqMan probes for specific detection of cashew nut in processed food by real time PCR. *Food Control*. 2018;89:227-34. IF: 3.667 - Article.

123

- Diab-Caceres L, Giron-Moreno RM, Pastor-Sanz MT, Quintana-Gallego E, Delgado-Pecellin I, Blanco-Aparicio M, Maiz L, Garcia-Clemente MM, Luna-Paredes C, Mondejar-Lopez P, Ruiz-de-Valbuena M, Fernandez O, Barrio M, Gonzalez M, Lopez-Neyra A, Cols-I-Roig M, Palou-Rotger A, Gomez-de-Terreros-Caro FJ. Compassionate Use of Lumacaftor/Ivacaftor in Cystic Fibrosis: Spanish Experience. *Archivos de Bronconeumología*. 2018;54(12):614-8. IF: 2.633 - Article.
- Blanco D, Ruiz Sancho V, Barranco R, Fernandez C, Bobolea I. Hipersensibilidad a antiinflamatorios no esteroideos, alergia a alimentos y síndrome de activación mastocitaria: relevancia del estudio alergológico completo y breve revisión del tema, a propósito de 2 casos. *Semergen / Sociedad Española de Medicina Rural y Generalista*. 2018;44(7):506-8. IF: N/A - Article.
- Sala-Cunill A, Lazaro M, Herraez L, Quinones MD, Moro-Moro M, Sanchez I. Basic Skin Care and Topical Therapies for Atopic Dermatitis: Essential Approaches and Beyond. *Journal of Investigational Allergology and Clinical Immunology*. 2018;28(6):379-91. IF: 3.457 - Review.
- Jimenez RB, Vera DG, Rivera-Diaz R, Cortijo-Cascajares S, Ballesteros RM, Pastor MDD. Successful subcutaneous desensitization in a patient with allergy to ixekizumab. *Journal of Allergy and Clinical Immunology-In Practice*. 2018;6(5):1761-2. IF: 6.966 - Letter.

MOLECULAR AND CELLULAR BASES OF RHEUMATIC DISEASES



GROUP DIRECTOR

Pérez Gomariz, Rosa M^a

Carrión Caballo, Mar
Gutiérrez Cañas, Irene
Juarranz Moratilla, Yasmina

Leceta Martínez, Javier
Martínez Mora, M^a del Carmen
Pérez García, Selene

Valiño Seoane, Iria
Villanueva Romero, Raúl

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12O)

- **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
Project No.: PII7/00027
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

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	11.933
Reviews	1	3.298
TOTAL	4	15.231

- Seoane IV, Martinez C, Garcia-Vicuna R, Ortiz AM, Juarranz Y, Talayero VC, Gonzalez-Alvaro I, Gomariz RP, Lamana A. Vasoactive intestinal peptide gene polymorphisms, associated with its serum levels, predict treatment requirements in early rheumatoid arthritis. *Scientific Reports*. 2018;8(1):2035. IF: 4.122 - Article.
- Villares R, Criado G, Juarranz Y, Lopez-Santalla M, Garcia-Cuesta EM, Rodriguez-Frade JM, Leceta J, Lucas P, Pablos JL, Martinez-A C, Garin MI, Gomariz RP, Mellado M. Inhibitory Role of Growth Hormone in the Induction and Progression Phases of Collagen-Induced Arthritis. *Frontiers in Immunology*. 2018;9:1165. IF: 5.511 - Article.
- González-Pascual JL, Aguilar-Ortega JM, Esteban-Gonzalo L, Mesa-Leiva C, Pérez-García S, Cardenete-Reyes C. Comparison of attitudes to breastfeeding among Spanish-born and Chinese-born postpartum women in Madrid.

237

International Breastfeeding Journal. 2018;13:45. IF: 2.300
- Article.

- Villanueva-Romero R, Gutierrez-Canas I, Carrion M, Perez-Garcia S, Seoane IV, Martinez C, Gomariz RP, Juarranz Y. The Anti-Inflammatory Mediator, Vasoactive Intestinal Peptide, Modulates the Differentiation and Function of Th Subsets in Rheumatoid Arthritis. *Journal of Immunology Research*. 2018;2018:6043710. IF: 3.298 - Review.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Iria Valiño Seoane
Title: Validación del Péptido Intestinal Vasoactivo (VIP) como biomarcador pronóstico en enfermedades reumáticas
Director/s: Rosa Pérez Gomariz, Yasmina Juarranz Moratilla
Date Defended: 02/02/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student: Miguel Ángel Seguido Rodríguez
Title: El papel de la vía JAK/STAT en la sarcopenia secundaria asociada a la artritis crónica
Director: Yasmina Juarranz Moratilla
Master: Investigación en Medicina Traslacional (UCM)
- Student: Paula Martínez Marcos
Title: Setup spinner flask culture of mesenchymal stem cells and vero cells
Director: Yasmina Juarranz Moratilla
Master: Biotecnología Industrial y Ambiental (UCM)
- Student: José Martín Gómez
Title: Papel de las p38MAPKs p38γ y δp38 en el desarrollo de la colitis ulcerosa
Director: Yasmina Juarranz Moratilla
Master: Genética y Biología Celular (UCM)
- Student: Ismael Muñoz Martínez-Blanco
Title: Sorafenib bloquea la vía ERK5 inducida ante el estímulo de EGF
Director: Yasmina Juarranz Moratilla
Master: Genética y Biología Celular (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student: David Castro Vázquez
Title: Eje VIP/receptores en la enfermedad de Graves-Basedow
Director: Mar Carrión Caballo, Rosa Mª Pérez Gomariz
Degree: Biología (UCM)
- Student: Víctor Gil Gómez
Title: Análisis Molecular de un gen etiquetado de Drosophila Melanogaster
Director: Yasmina Juarranz Moratilla
Degree: Biología (UCM)
- Student: Verónica Herrero Hinojos
Title: Análisis Molecular de un gen etiquetado de Drosophila Melanogaster
Director: Yasmina Juarranz Moratilla
Degree: Biología (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.I; 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, Yasmina Juarranz Moratilla.
Owners: Fundación de Investigación Biomédica del Hospital Universitario La Princesa (51%), Universidad Complutense de Madrid (49%).
Date of application: 17 march 2014
Number: P201430364

INFLAMMATORY AND AUTOIMMUNE DISEASES



GROUP DIRECTOR

Pablos Álvarez, José Luis

Antón-Pacheco Sánchez, Juan Luis
Carreira Delgado, Patricia
Esmerralda
Criado Carrasco, Gabriel
del Rey Cerros, Manuel José

Ergueta Carballo, Sandra
Fernández Díaz, Carlos
Galindo Izquierdo, María
García González, Alfredo Javier
González Granado, José Mª

Herrero Fernández, Beatriz
Joven Ibáñez, Beatriz Esther
Martín López, María
Melchor Díaz, Sheila
Miranda Ramos, Vanesa

Munioz Rueda, Cristina Mª
Sánchez Martín, Julio
Usategui Corral, Alicia
Valín García, Álvaro

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	4
Noncompetitive	Various	1
	TOTAL	5

- 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: 31/12/2020
- 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
- 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 2017)
Articles	26	122.790
Reviews	3	10.664
TOTAL	29	133.454

- Johnson SR, Soowamber ML, Fransen J, Khanna D, Van den Hoogen F, Baron M, Matucci-Cerinic M, Denton CP, Medsger TA, Carreira PE, Riemekasten G, Distler J, Gabrielli A, Steen V, Chung L, Silver R, Varga J, Muller-Ladner U, Vonk MC, Walker UA, Wollheim FA, Herrick A, Furst DE, Czirjak L, Kowal-Bielecka O, Del Galdo F, Cutolo M, Hunzelmann N, Murray CD, Foeldvari I, Mounthon L, Damjanov N, Kahaleh B, Frech T, Assassi S, Saketkoo LA, Pope JE. There is a need for new systemic sclerosis subset criteria: A content analytic approach. *Scandinavian Journal of Rheumatology*. 2018;47(1):62-70. IF: 3.021 - Article.
- Rodriguez-Almaraz ME, Herraiz I, Gomez-Arriaga PI, Vallejo P, Gonzalo-Gil E, Usategui A, Lopez-Jimenez EA, Galindo A, Galindo M. The role of angiogenic biomarkers and uterine artery Doppler in pregnant women with systemic lupus erythematosus or antiphospholipid syndrome. *Pregnancy Hypertension - An International Journal of Womens Cardiovascular Health*. 2018;11:99-104. IF: 2.011 - Article.
- Carreira PE, Carmona L, Joven BE, Loza E, Andreu JL, Riemekasten G, Vettori S, Balbir-Gurman A, Airo P, Walker UA, Damjanov N, Matucci-Cerinic M, Ananiew LP, Rednic S, Czirjak L, Distler O, Farge D, Hesselstrand R, Corrado A, Caramaschi P, Tikly M, Allanore Y; EUSTAR. Gender differences in early systemic sclerosis patients: a report from the EULAR scleroderma trials and research group (EUSTAR) database. *Clinical and Experimental Rheumatology*. 2018;36(4):68-75. IF: 3.201 - Article.
- Morrisroe K, Hudson M, Baron M, de Vries-Bouwstra J, Carreira PE, Wuttge DM, Wang M, Frech TM, Stevens W, Proudman SM, Nikpour M; Int Systemic Sclerosis Inception C. Determinants of health-related quality of life in a multinational systemic sclerosis inception cohort. *Clinical and Experimental Rheumatology*. 2018;36(4):53-60. IF: 3.201 - Article.

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• Martin-Lopez M, Carmona L, Balsa A, Calvo-Alen J, Sanmarti R, Tornero J, Rosas J. Serum drug levels of biologic agents in the management of rheumatoid arthritis and spondyloarthritis: a systematic review. *Rheumatology International*. 2018;38(6):975-83. IF: 1.952 - Review.

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LYMPHOCYTE IMMUNOBIOLOGY



GROUP DIRECTOR

Regueiro González-Barros, José Ramón

Briones Contreras, Alejandro
Cárdenas Mastrascusa, Paula
Chaobo, Chen
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Fernández Malavé, Edgar Gonzalo
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Roda Navarro, Pedro
Sánchez-Trincado López, José Luis
Torres Gómez, Álvaro
Tortajada Alonso, Agustín
Ye, Hui
Zheng, Kang

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12)

- **Title:** Red de Excelencia Complemento en salud y enfermedad.
Principal Investigators: Santiago Rodríguez de Córdoba, José Ramón Regueiro González-Barros
Project No.: SAF2016-81876-REDT
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 01/11/2017
End date: 31/10/2018
- **Title:** Intra and extracellular T cell activation physiopathology.
Principal Investigators: José Ramón Regueiro González-Barros, Edgar Gonzalo Fernández-Malavé
Project No.: SAF2014-52339-P
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 01/02/2017
End date: 31/01/2019
- **Title:** Desentrañando las bases moleculares del síndrome hemolítico urémico atípico y las glomerulopatías de C3.
Principal Investigators: Elena Goicoechea de Jorge
Funding Body: Fundación Inocente Inocente
Managing Body: Fundación General UCM
Start date: 01/01/2015
End date: 31/12/2017 (planned extension until 31/12/2018)
- **Title:** El papel de los microRNAs en enfermedades renales mediadas por el sistema del complemento.
Principal Investigator: Elena Goicoechea de Jorge

- Project No.:** SAF2014-52339-P
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 01/01/2015
End date: 31/12/2017 (planned extension until 31/12/2018)
- Title:** Dual specificity phosphatases in T cells.
Principal Investigator: Pedro Roda Navarro
Project No.: SAF2016-75656-P
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 30/12/2016
End date: 29/12/2020
 - Title:** New antitumoral vaccine based on Ca10.
Principal Investigator: Manuel Gómez del Moral
Project No.: RTC-2015-3805-1
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 01/07/2015
End date: 30/09/2018
 - Title:** Complement physiopathology.
Principal Investigator: Elena Goicoechea de Jorge
Project No.: RYC-2013-13395
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 25/02/2015
End date: 15/06/2020
 - Title:** Compound function of Jnk1 and Jnk2 in liver inflammation.
Principal Investigator: Francisco Javier Cubero Palero
Project No.: RYC-2014-15242
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Managing Body: Fundación General UCM
Start date: 01/06/2016
End date: 31/05/2021

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	19	152.077
Editorials	1	3.300
TOTAL	20	155.377
Letters	1	13.258
TOTAL	21	168.635

- Zoubek ME, Gonzalez-Jimenez A, Medina-Caliz I, Robles-Diaz M, Hernandez N, Romero-Gomez M, Bessone F, Hallal H, Cubero FJ, Lucena MI, Stephens C, Andrade RJ. High Prevalence of Ibuprofen Drug-Induced Liver Injury in Spanish and Latin-American Registries. *Clinical Gastroenterology and Hepatology*. 2018;16(2):292-4. IF: 7.683 - Article.
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- Ye H, Nelson LJ, Gómez Del Moral M, Martínez-Naves E, Cubero FJ. Dissecting the molecular pathophysiology of drug-induced liver injury. *World Journal of Gastroenterology*. 2018;24(13):1373-85. IF: 3.300 - Article.
- Bravo Garcia-Morato M, Aracil Santos FJ, Briones AC, Blazquez Moreno A, Del Pozo Mate A, Dominguez-Soto A, Beato Merino MJ, Del Pino Molina L, Torres Canizales J, Marin AV, Vallespin Garcia E, Feito Rodriguez M, Plaza Lopez Sabando D, Jimenez-Reinoso A, Mozo Del Castillo Y, Sanz Santaeufemia FJ, de Lucas-Laguna R, Cardenas PP, Casamayor Polo L, Coronel Diaz M, Vales-Gomez M, Roldan Santiago E, Ferreira Cerdan A, Nevado Blanco J, Corbi AL, Reyburn HT, Regueiro JR, Lopez-Granados E, Rodriguez Pena R. New human combined immunodeficiency caused by interferon regulatory factor 4 (IRF4) deficiency inherited by uniparental isodisomy. *Journal of Allergy and Clinical Immunology*. 2018;141(5):1924-7.e18. IF: 13.258 - Article.

- Shah P, Mistry J, Reche PA, Gatherer D, Flower DR. In silico design of *Mycobacterium tuberculosis* epitope ensemble vaccines. *Molecular Immunology*. 2018;97:56-62. IF: 3.188 - Article.
- Rowe JH, Delmonte OM, Keles S, Stadinski BD, Dobbs AK, Henderson LA, Yamazaki Y, Allende LM, Bonilla FA, Gonzalez-Granado LI, Celikbilek Celik S, Guner SN, Kapakli H, Yee C, Pai SY, Huseby ES, Reisli I, Regueiro JR, Notarangelo LD. Patients with CD3G mutations reveal a role for human CD3 gamma in T-reg diversity and suppressive function. *Blood*. 2018;131(21):2335-44. IF: 15.132 - Article.
- López-Relaño J, Martín-Adrados B, Real-Arévalo I, Lozano-Bartolomé J, Abós B, Sánchez-Ramón S, Alonso B, Gómez Del Moral M, Martínez-Naves E. Monocyte-Derived Dendritic Cells Differentiated in the Presence of Lenalidomide Display a Semi-Mature Phenotype, Enhanced Phagocytic Capacity, and Th1 Polarization Capability. *Frontiers in Immunology*. 2018;9:1328. IF: 5.511 - Article.
- Enamorado M, Khouili SC, Iborra S, Sancho D. Genealogy, Dendritic Cell Priming, and Differentiation of Tissue-Resident Memory CD8 + T Cells. *Frontiers in Immunology*. 2018;9:1751. IF: 5.511 - Article.
- Blaya D, Aguilar-Bravo B, Hao F, Casacuberta-Serra S, Coll M, Perea L, Vallverdu J, Graupera I, Pose E, Llovet L, Barquinero J, Cubero FJ, Caballeria J, Gines P, Sancho-Bru P. Expression of microRNA-155 in inflammatory cells modulates liver injury. *Hepatology*. 2018;68(2):691-706. IF: 14.079 - Article.
- Sonntag R, Giebel N, Nevezorova YA, Bangen JM, Fahrenkamp D, Lambertz D, Haas U, Hu W, Gassier N, Cubero FJ, Muller-Newen G, Abdallan AT, Weiskirchen R, Ticconi F, Costa IG, Barbacid M, Trautwein C, Liedtke C. Cyclin E1 and cyclin-dependent kinase 2 are critical for initiation, but not for progression of hepatocellular carcinoma. *Proceedings of The National Academy of Sciences of The United States of America*. 2018;115(37):9282-7. IF: 9.504 - Article.
- Goicoechea de Jorge E, Lopez Lera A, Bayarri-Olmos R, Yebenes H, Lopez-Trascasa M, Rodriguez de Cordoba S. Common and rare genetic variants of complement components in human disease. *Molecular Immunology*. 2018;102:42-57. IF: 3.188 - Article.
- Cubero FJ, Peng J, Liao L, Su H, Zhao G, Zoubek ME, Macías-Rodríguez R, Ruiz-Margain A, Reiβing J, Zimmermann HW, Gassler N, Luedde T, Liedtke C, Hatting M, Trautwein C. Inactivation of caspase 8 in liver parenchymal cells confers protection against murine obstructive cholestasis. *Journal of Hepatology*. 2018;69(6):1326-34. IF: 14.911 - Article.

- Lamas-Paz A, Hao F, Nelson LJ, Vázquez MT, Canals S, Gómez Del Moral M, Martínez-Naves E, Nevzorova YA, Cubero FJ. Alcoholic liver disease: Utility of animal models. *World Journal of Gastroenterology.* 2018;24(45):5063-75. IF: 3.300 - Article.
- Morán L, Cubero FJ. Extracellular vesicles in liver disease and beyond. *World Journal of Gastroenterology.* 2018;24(40):4519-26. IF: 3.300 - Editorial Material.
- Jimenez-Reinoso A, Marin AV, Subias M, Lopez-Lera A, Roman-Ortiz E, Payne K, Ma CS, Arbore G, Kolev M, Freeley SJ, Kemper C, Tangye SG, Fernandez-Malave E, Rodriguez de Cordoba S, Lopez-Trascasa M, Regueiro JR. Human plasma C3 is essential for the development of memory B, but not T, lymphocytes. *Journal of Allergy and Clinical Immunology.* 2018;141(3):1151-4.e14. IF: 13.258 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Rocío Ramírez Muñoz
Title: Papel regulador de Slingshot-1 en la activación de linfocitos T
Director/s: Pedro Roda Navarro
Date Defended: 11/08/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student: Daniel Chacón Arguedas
Title: Characterization of the C3 pR735W variant located in the C3a anaphylatoxin domain through humoral (C3 activation) and cellular (C3a receptor engagement) functional assays
Director: José Ramón Regueiro González-Barros, Agustín Tortajada Alonso
Master: Investigación en Inmunología (UCM)
- Student: Beatriz Amorós Pérez
Title: Estudio del efecto de micropartículas de silicio mesoporoso sobre macrófagos humanos pro y anti-inflamatorio

- Director: Manuel Gómez del Moral Martín, Eduardo Martínez Naves
Master: Investigación en Inmunología (UCM)
- Student: Noelia Mamblona González
Title: Análisis de la respuesta inflamatoria asociada al estrés de Retículo Endoplásmico en células de epitelio intestinal
Director: Manuel Gómez del Moral Martín, Eduardo Martínez Naves
Master: Investigación en Inmunología (UCM)
- Student: Paula Sánchez Organero
Title: Implicación de ALCAM/CD166 en la adhesión de células tumorales
Director: Carlos Cabañas Gutiérrez
Master: Investigación en Medicina Traslacional (UCM)
- Student: Oscar Aguilar Sopeña
Title: Papel de las fosfatases de especificidad dual en la activación de los linfocitos T
Director: Carlos Cabañas Gutiérrez
Master: Investigación en Inmunología (UCM)

- Student: Cesar Rodriguez Alcalde
Title: Caracterización funcional de mutaciones en la proteína C1 inhibidor
Director: Alberto López Lera, Pedro Antonio Reche Gallardo
Master: Investigación en Inmunología (UCM)
- Student: Cristina Delgado del Saz
Title: Epitope-based vaccine against Trypanosoma cruzi
Director: Pedro Antonio Reche Gallardo
Master: Investigación en Medicina Traslacional (UCM)
- Student: Barbara Lobato Delgado
Title: Development of a machine learning-based classification model in order to predict protein secretion on exosomes
Director: Pedro Antonio Reche Gallardo
Master: Bioinformática y Biología Computacional (ENS-ISCIII)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student: M^a del Henar de la Figuera
Title: El modelo de intensidad de señalización del receptor de

- antígeno en la diferenciación de los linfocitos T efectores en el timo: análisis en ratones con expresión alterada del receptor
Director: Edgar Fernández Malavé
Degree: Bioquímica (UCM)
- Student: Óscar Sabuz Vidal
Title: Caracterización de la variante p.R735W del componente C3 del complemento asociada con patología
Director: Agustín Tortajada Alonso
Degree: Bioquímica (UCM)
- Student: Miguel Macías Montero
Title: Implicación de la molécula de adhesión ALCAM/CD166 en la formación de exosomas tumorales
Director: Carlos Cabañas Gutiérrez
Degree: Bioquímica (UCM)
- Student: María Alcolado Herraéz
- Student: Mónica Johana Quinzo Albiño
Title: Diseño in silico de una vacuna contra el hCMV basada en epítopos
Director: Pedro Antonio Reche Gallardo
Degree: Bioquímica (UCM)

IMMUNODEFICIENCIES AND IMMUNOLOGY OF TRANSPLANTS



Allende Martínez, Luis Miguel
Baro Fernández, María
Blas Espada, Javier
Castro Panete, Mª José
Domínguez Pinilla, Nerea
Gómez Massa, Elena

González Granado, Luis Ignacio
Guerra García, Mª Pilar
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Laguna Goya, Rocío
López Nebado, Marta
Mancebo Sierra, Mª Esther

GROUP DIRECTOR

Paz Artal, Estela

Pérez Alonso, Vanesa
Ruiz Contreras, Jesús
Talayero Giménez de Azcárate, Paloma
Utrero Rico, Alberto
Vivanco Martínez, José Luis

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	2
Competitive	AECC	1
Noncompetitive	Various	2
TOTAL		5

• **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

• **Title:** Coinfecciones respiratorias virales y de la expresión de perfiles genómicos transcripcionales en la gravedad de la tos ferina en lactantes.

Principal Investigator: Jesús Ruiz Contreras
Project No.: PI13/01296
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 31/06/2018

• **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:** 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 2017)
Articles	13	81.517
TOTAL	13	81.517
Letters	2	9.422
TOTAL	15	90.939

- Rowe JH, Delmonte OM, Keles S, Stadinski BD, Dobbs AK, Henderson LA, Yamazaki Y, Allende LM, Bonilla FA, Gonzalez-Granado LI, Celikbilek Celik S, Guner SN, Kapaklı H, Yee C, Pai SY, Huseby ES, Reisli I, Regueiro JR, Notarangelo LD. Patients with CD3G mutations reveal a role for human CD3 gamma in T-reg diversity and suppressive function. *Blood*. 2018;131(21):2335-44. IF: 15.132 - Article.
- Molina M, Allende LM, Ramos LE, Gutierrez E, Pleguezuelo DE, Hernandez ER, Rios F, Fernandez C, Praga M, Morales E. CD19(+) B-Cells, a New Biomarker of Mortality in Hemodialysis Patients. *Frontiers in Immunology*. 2018;9:1221. IF: 5.511 - Article.
- Villafuerte B, Natera-de-Benito D, Gonzalez A, Mori MA, Palomares M, Nevado J, Garcia-Minaur S, Lapunzina P, Gonzalez-Granado LI, Allende LM, Moreno JC. The Brain-Lung-Thyroid syndrome (BLTS): A novel deletion in chromosome 14q13.2-q21.1 expands the phenotype to humoral immunodeficiency. *European Journal of Medical Genetics*. 2018;61(7):393-8. IF: 2.004 - Article.
- Tesch VK, Ijspeert H, Raicht A, Rueda D, Dominguez-Pinilla N, Allende LM, Colas C, Rosenbaum T, Ilencikova D, Baris HN, Nathrath MHM, Suerink M, Januszkiewicz-Lewandowska D, Ragab I, Azizi AA, Wenzel SS, Zschocke J, Schwinger W, Kloot M, Blattmann C, Brugieres L, van der Burg M, Wimmer K, Seidel MG. No Overt Clinical Immunodeficiency Despite Immune Biological Abnormalities in Patients With Constitutional Mismatch Repair Deficiency. *Frontiers in Immunology*. 2018;9:1506. IF: 5.511 - Article.
- Ruiz-García R, Vargas-Hernandez A, Chinn IK, Angelo LS, Cao TN, Coban-Akdemir Z, Jhangiani SN, Meng Q, Forbes LR, Muzny DM, Allende LM, Ehlayel MS, Gibbs RA, Lupski JR, Uzel G, Orange JS, Mace EM. Mutations in PI3K110 delta cause impaired natural killer cell function partially rescued by rapamycin treatment. *Journal of Allergy and Clinical Immunology*. 2018;142(2):605-17.e7. IF: 13.258 - Article.
- Astigarraga I, Gonzalez-Granado LI, Allende LM, Alsina L. Haemophagocytic syndromes: The importance of early diagnosis and treatment. *Anales de Pediatría*. 2018;89(2):I24.e1-I24.e8. IF: 1.318 - Article.
- Martinon-Torres F, Bernatowska E, Shcherbina A, Esposito S, Szenborn L, Marti MC, Hughes S, Faust SN, Gonzalez-Granado LI, Yu LM, D'Agostino D, Calabresi M, Toneatto D, Snape MD. Meningococcal B Vaccine

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Immunogenicity in Children With Defects in Complement and Splenic Function. *Pediatrics*. 2018;142(3):e20174250. IF: 5.515 - Article.

- Pérez D, Gilburd B, Cabrera-Marante Ó, Martínez-Flores JA, Serrano M, Naranjo L, Pleguezuelo D, Morillas L, Shovman O, Paz-Artal E, Shoenfeld Y, Serrano A. Predictive autoimmunity using autoantibodies: screening for anti-nuclear antibodies. *Clinical Chemistry and Laboratory Medicine*. 2018;56(10):1771-7. IF: 3.556 - Article.
- Soler-Palacin P, de Gracia, J, Gonzalez-Granado, LI, Martin, C, Rodriguez-Gallego, C, Sanchez-Ramon S; Lung ID-Signal Grp. Primary immunodeficiency diseases in lung disease: warning signs, diagnosis and management. *Respiratory Research*. 2018;19(1):219. IF: 3.751 - Article.
- Talayero P, Ramos Boluda E, Gomez Massa E, Castro Panete MJ, Prieto Bozano G, Hernandez Oliveros F, Lopez Santamaria M, Calvo Pulido J, Paz-Artal E, Mancebo E. Donor-Specific Antibodies in Pediatric Intestinal and Multivisceral Transplantation: The Role of Liver and Human Leukocyte Antigen Mismatching. *Liver Transplantation*. 2018;24(12):1726-35. IF: 3.752 - Article.
- Dominguez-Pinilla N, Allende LM, Rosain J, Gallego MDC, Chaves F, Deswarto C, Viedma E, de Inocencio Arocena J, Ruiz-Contreras J, Bustamante J, Gonzalez-Granado LI. Disseminated abscesses due to Mycoplasma faecium in a patient with activated PI3K delta syndrome type 2. *Journal of Allergy and Clinical Immunology-In Practice*. 2018;6(5):1796-1798.e2. IF: 6.966 - Letter.
- Ruiz-Contreras J, Del Amo M, Picazo J. Effects of 13-Valent Pneumococcal Conjugate Vaccine on Invasive Pneumococcal Disease in Infants Aged 0 to 90 Days in Madrid, Spain. *Journal of The Pediatric Infectious Diseases Society*. 2018;7(2):175-6. IF: 2.456 - Letter.
- de Sautu de Borbón EC, Morales Conejo M, Guerra Vales JM. Prevalence of risk factors for the development of avascular hip necrosis in a third-level hospital. *Reumatología Clínica*. 2018;14(2):122-3. IF: N/A - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Paloma Talayero Giménez de Azcárate
Title: Análisis de la respuesta inmune local y periférica en

el trasplante intestinal

Director/s: Estela Paz Artal, M^a Esther Mancebo Sierra, Jorge Calvo Pulido
Date Defended: 11/12/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student: Marta López Nevado
Title: Caracterización inmunofenotípica, funcional y molecular de una paciente con sospecha de deficiencia funcional de células natural killer
Director: Luis Manuel Allende
Master: UCM
- Student: Patricia Suárez Fernández
Title: Identificación y Exploración funcional in vitro de células Tfh circulantes. Efecto de inmunosupresores
Director: Estela Paz Artal
Master: UCM
- Student: Daniel Arroyo Sánchez
Title: Células T colaboradoras foliculares: posible biomarcador en trasplante renal
Director: Estela Paz Artal
Master: UCM

PRIZES AND AWARDS

- Master Extraordinary Prize to Elena Sánchez Zapardiel for her entitled work "Significado de los anticuerpos anti-MICA y anti-endoteliales en la evolución del trasplante renal".

PATENTS

- Title: ARN de interferencia para el tratamiento del síndrome linfoproliferativo autoinmune de tipo IA.
Inventors: Estela Paz Artal, M^a Esther Mancebo Sierra.
Owner: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (100%).
Application number of the Spanish patent: P201430504.
Date of application: 04/04/2014

AREA 7

INFECTIOUS DISEASES AND AIDS

Coordinator: Delgado Vázquez, Rafael

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

VIROLOGY AND HIV/AIDS



GROUP DIRECTOR

Delgado Vázquez, Rafael

Aparicio del Moral, Samanta
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Bermejo Plaza, Laura
Bisbal Pardo, Otilia
Brañas García, Patricia
Calonge Sanz, Inés

de Lagarde Sebastián, María
Domínguez Domínguez, Lourdes
Folgueira López, Mª Dolores
García Álvarez, Mónica
Gutiérrez Cueto, Francisca
Hernando Jerez, Asunción
Labiod Becerro, Nuria

Lasala Sánchez, Fátima
López Caballero, Mª Teresa
Matarranz del Amo, Mariano
Pérez Rivilla, José Alfredo
Prieto Pérez, Columbiana
Pulido Ortega, Federico
Rial Crestelo, David

Rubio García, Rafael
Santacreu Guerrero, Mireia
Sotillo Torquemada, Alma Mª
Taravillo Cañete, Irene
Zurita Salas, Mª del Sagrario

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	4
Competitive	Commission of the European Communities	1
Noncompetitive	Various	6
TOTAL		11

- 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-I.

Principal Investigator: Rafael Delgado Vázquez

Project No.: PII6/00678

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 30/12/2019

- 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.: PII6/01124

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

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

- Title:** Marcadores genómicos de virulencia en la infección congénita por citomegalovirus humano (hCMV).

Principal Investigator: Mª Dolores Folgueira López

Project No.: PII3/02147

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2014

End date: 30/12/2016, extended to 30/06/2018

- 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*

- **Title:** Performance evaluation of the fusion FLU A/B/RSV, fusion paraflu, and fusion AD/V.
Principal Investigator: M^a Dolores Folgueira López
Funding Body: Hologic Deutschland GMBH
Start date: 01/10/2017
End date: 30/06/2018
 - **Title:** Evaluación del rendimiento del ensayo aptima hiv-1 quant dx para la detección y cuantificación del VIH-1 en muestras de plasma, del ensayo APTIMA HBV QUANT para la cuantificación de VHB en muestras de plasma o suero, y del ensayo APTIMA HCV QUANT DX para la detección y cuantificación de VHC-1 en muestras de plasma y suero.
Principal Investigator: Rafael Delgado Vázquez
Funding Body: Hologic Deutschland GMBH
Start date: 01/02/2017
End date: 31/01/2020
 - **Title:** Performance and workflow evaluation of multiple platforms used to monitor HIV, HBV, HCV AND CMV VIRAL LOAD. MULTI-HALO-424.
Principal Investigator: Rafael Delgado Vázquez
Funding Body: Roche Molecular Systems, INC
Start date: 01/11/2016
End date: 30/11/2019
 - **Title:** Nuevas estrategias de tratamiento para la infección por el virus Ébola: caracterización de anticuerpos neutralizantes e inhibidores de entrada celular.
Principal Investigator: Rafael Delgado Vázquez
Funding Body: Francisco Soria Melguizo, S.A.
Start date: 24/09/2015
End date: 23/09/2018
 - **Title:** Estudio de cohorte de pacientes con infección por VIH del Hospital 12 de Octubre de Madrid (Cohorte VIH-DOC).
Principal Investigator: Rafael Rubio García
Funding Body: Laboratorios VIIV Healthcare, S.L.
Start date: 01/01/2016
End date: 31/12/2018
 - **Title:** Flujo de trabajo en la plataforma veris para determinación de cargas virales de HIV, CMV, HBV Y HCV.
Principal Investigator: Rafael Rubio García
Funding Body: Enterprise Analysis Corporation
Start date: 01/09/2016
End date: 31/08/2019

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	21	88.485
Reviews	2	6.735
Editorials	4	10.983
TOTAL	27	106.203

- Berenguer J, Jarrin I, Perez-Latorre L, Hontañón V, Vivancos MJ, Navarro J, Tellez MJ, Guardiola JM, Iribarren JA, Rivero-Juarez A, Marquez M, Artero A, Morano L, Santos I, Moreno J, Fariñas MC, Galindo MJ, Hernando MA, Montero M, Cifuentes C, Domingo P, Sanz J, Dominguez L, Ferrero OL, De la Fuente B, Rodriguez C, Reus S, Hernandez-Quero J, Gaspar G, Perez-Martinez L, Garcia C, Force L, Veloso S, Losa JE, Vilaro J, Bernal E, Arponen S, Orti AJ, Chocarro A, Teira R, Alonso G, Silvariño R, Vegas A, Geijo P, Bisbe J, Esteban H, Gonzalez-Garcia J; GeSIDA 8514 Study Group. Human Immunodeficiency Virus/Hepatitis C Virus Coinfection in Spain: Elimination Is Feasible, but the Burden of Residual Cirrhosis Will Be Significant. *Open Forum Infectious Diseases*. 2018;5(1):UNSP ofx258. IF: 3.240 - Article.
 - Kerrigan D, Mantsios A, Gorgolas M, Montes ML, Pulido F, Brinson C, deVente J, Richmond GJ, Beckham SW, Hammond P, Margolis D, Murray M. Experiences with long acting injectable ART: A qualitative study among PLHIV participating in a Phase II study of cabotegravir plus rilpivirine (LATTE-2) in the United States and Spain. *Plos One*. 2018;13(1):e0190487. IF: 2.766 - Article.
 - Brañas P, Gil M, Villa J, Orellana MA, Chaves F. Molecular epidemiology of carbapenemase-producing Enterobacteriaceae infection/colonisation in a hospital in Madrid. *Enfermedades Infecciosas y Microbiología Clínica*. 2018;36(2):100-3. IF: 1.707 - Article.
 - Braun P, Delgado R, Drago M, Fanti D, Fleury H, Izopet J, Lombardi A, Mancon A, Marcos MA, Saune K, O Shea S, Perez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. A European multicenter study on the analytical performance of the VERIS HBV assay. *Journal of Clinical Virology*. 2018;99-100:50-6. IF: 3.101 - Article.
 - Ribera E, Martinez-Sesmero JM, Sanchez-Rubio J, Rubio

- R, Pasquau J, Poveda JL, Perez-Mitru A, Roldan C, Hernandez-Novoa B. Economic impact of optimising antiretroviral treatment in human immunodeficiency virus-infected adults with suppressed viral load in Spain, by implementing the grade A-I evidence recommendations of the 2015 GESIDA/National AIDS Plan. *Enfermedades Infectuosas y Microbiología Clínica*. 2018;36(3):157-64. IF: 1.707 - Article.

Rojas Sánchez P, Dominguez S, Jiménez De Ory S, Prieto L, Rojo P, Mellado P, Navarro M, Delgado R, Ramos JT, Holguin A; Madrid Cohort of HIV-1 Infected Children and Adolescents Integrated in the Pedia. Trends in Drug Resistance Prevalence, HIV-1 Variants and Clinical Status in HIV-1-infected Pediatric Population in Madrid: 1993 to 2015 Analysis. *Pediatric Infectious Disease Journal*. 2018;37(3):48-57. IF: 2.305 - Article.

Gonzalez-Baeza A, Dolengovich-Segal H, Perez-Valero I, Cabello A, Tellez MJ, Sanz J, Perez-Latorre L, Bernardino JL, Troya J, De La Fuente S, Bisbal O, Santos I, Arponen S, Hontanon V, Casado JL, Ryan P; U-SEX GESIDA 9416 Study. Sexualized Drug Use (Chemsex) Is Associated with High-Risk Sexual Behaviors and Sexually Transmitted Infections in HIV-Positive Men Who Have Sex with Men: Data from the U-SEX GESIDA 9416 Study. *AIDS Patient Care and STDS*. 2018;32(3):112-8. IF: 4.041 - Article.

Origen J, Corbella L, Orellana MA, Fernandez-Ruiz M, Lopez-Medrano F, San Juan R, Lizasoain M, Ruiz-Merlo T, Morales-Cartagena A, Maestro G, Parra P, Villa J, Delgado R, Aguado JM. Comparison of the clinical course of Clostridium difficile infection in glutamate dehydrogenase-positive toxin-negative patients diagnosed by PCR to those with a positive toxin test. *Clinical Microbiology and Infection*. 2018;24(4):414-21. IF: 5.394 - Article.

Perez-Parra S, Alvarez M, Fernandez-Caballero JA, Perez AB, Santos J, Bisbal O, Aguilera A, Rivero M, Garcia-Fraile L, Garcia F. Continued propagation of the CRF19_cpx variant among HIV-positive MSM patients in Spain. *Journal of Antimicrobial Chemotherapy*. 2018;73(4):1031-8. IF: 5.217 - Article.

Rivero A, Perez-Molina JA, Blasco AJ, Arribas JR, Asensi V, Crespo M, Domingo P, Iribarren JA, Lazaro P, Lopez-Aldeguer J, Lozano F, Martinez E, Moreno S, Palacios R, Pineda JA, Pulido F, Rubio R, Santos J, de la Torre J, Tuset M, Gatell JM. Costs and cost-efficacy analysis of the 2017 GESIDA/Spanish National AIDS Plan recommended guidelines for initial antiretroviral therapy in HIV-infected adults. *Enfermedades Infectuosas y Microbiología Clínica*. 2018;36(5):268-76. IF: 1.707 - Article.

 - Ndumbi P, Del Romero J, Pulido F, Velasco Arribas M, Dronda F, Blanco Ramos JR, García de Olalla P, Ocaña I, Belda-Ibañez J, Del Amo J, Álvarez-Del Arco D; aMASE Research Group. Barriers to health care services for migrants living with HIV in Spain. *European Journal of Public Health*. 2018;28(3):451-7. IF: 2.782 - Article.
 - Troya J, Montejano R, Ryan P, Gomez C, Matarranz M, Cabello A, Vera F, Sepulveda MA, Santos I, Samperiz G, Bachiller P, Boix V, Barrufet P, Cervero M, Sanz J, Solis J, Yllescas M, Valencia E; GESIDA-8715 Study Group. Raltegravir plus abacavir/lamivudine in virologically suppressed HIV-1-infected patients: 48-week results of the KIRAL study. *Plos One*. 2018;13(6):e0198768. IF: 2.766 - Article.
 - Berenguer J, Gil-Martin Á, Jarrin I, Moreno A, Dominguez L, Montes M, Aldámiz-Echevarría T, Téllez MJ, Santos I, Benitez L, Sanz J, Ryan P, Gaspar G, Alvarez B, Losa JE, Torres-Perea R, Barros C, San Martin JV, Arponen S, de Guzmán MT, Monsalvo R, Vegas A, Garcia-Benayas MT, Serrano R, Gotuzzo L, Menendez MA, Belda LM, Malmierca E, Calvo MJ, Cruz-Martos E, González-García JJ. All-oral direct-acting antiviral therapy against hepatitis C virus (HCV) in human immunodeficiency virus/HCV-coinfected subjects in real-world practice: Madrid coinfection registry findings. *Hepatology*. 2018;68(1):32-47. IF: 14.079 - Article.
 - Olveira A, Dominguez L, Troya J, Arias A, Pulido F, Ryan P, Benitez LM, Gonzalez-Garcia J, Montes ML; PALT-M- Study Group Investigators. Persistently altered liver test results in hepatitis C patients after sustained virological response with direct-acting antivirals. *Journal of Viral Hepatitis*. 2018;25(7):818-24. IF: 4.237 - Article.
 - Recio R, Branas P, Martinez MT, Chaves F, Orellana MA. Effect of respiratory *Achromobacter* spp. infection on pulmonary function in patients with cystic fibrosis. *Journal of Medical Microbiology*. 2018;67(7):952-6. IF: 2.112 - Article.
 - Rivero A, Polo R, Aldeguer JL, Lozano F, Antela A, Arribas JR, Asensi V, Berenguer J, Blanco JR, Casado JL, Clotet B, Crespo M, Domingo P, Duenas C, Gatell JM, Gomez-Sirvent JL, Gonzalez-Garcia J, Iribarren JA, de Quiros JCLB, Cortes LFL, Losa JE, Mallolás J, Marino A, Martinez E, Miro JM, Moreno S, Palacios R, Pasquau J, Pineda JA, Podzamczer D, Portilla I, Poveda E, Pulido F, Rubio R,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 ICR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Santos J, Moreno JS, Sanz JS, Tellez MJ, de la Torre J, Tuset M, Molina JAP; AIDS Study Grp GESIDA Span. Executive summary of the GESIDA/National AIDS Plan Consensus Document on Antiretroviral Therapy in Adults Infected by the Human Immunodeficiency Virus (Updated January 2017). *Enfermedades Infecciosas y Microbiología Clínica*. 2018;36(7):435-45. IF: 1.707 - Article.
- Rodriguez-Perez L, Ramos-Soriano J, Perez-Sanchez A, Illescas BM, Munoz A, Luczkowiak J, Lasala F, Rojo J, Delgado R, Martin N. Nanocarbon-Based Glycoconjugates as Multivalent Inhibitors of Ebola Virus Infection. *Journal of The American Chemical Society*. 2018;140(31):9891-8. IF: 14.357 - Article.
- Perez-Valero I, Pasquau J, Rubio R, Rivero A, Santos J, Sanz J, Marino A, Crespo M, Hernandez-Quero J, Iribarren JA, Gutierrez F, Terron A, Esteban H, Perez-Molina JA; GESIDA 7011 Study Grp. Neurocognitive safety after 96 weeks on dual therapy with atazanavir/ritonavir plus lamivudine: results of the neurocognitive substudy of the SALT randomized clinical trial. *Journal of Antimicrobial Chemotherapy*. 2018;73(9):2444-51. IF: 5.217 - Article.
- Sotillo A, Sierra O, Martinez-Prats L, Gutierrez F, Zurita S, Pulido F, Rubio R, Delgado R. Analysis of drug resistance mutations in whole blood DNA from HIV-1 infected patients by single genome and ultradeep sequencing analysis. *Journal of Virological Methods*. 2018;260:1-5. IF: 1.756 - Article.
- Luczkowiak J, Lasala F, Mora-Rillo M, Arribas JR, Delgado R. Broad Neutralizing Activity Against Ebolaviruses Lacking the Mucin-Like Domain in Convalescent Plasma Specimens From Patients With Ebola Virus Disease. *Journal of Infectious Diseases*. 2018;218(suppl 5):S574-S581. IF: 5.186 - Article.
- Barrado L, Prieto C, Hernando S, Folgueira L. Detection of glycoproteins B and H genotypes to predict the development of Cytomegalovirus disease in solid organ transplant recipients. *Journal of Clinical Virology*. 2018;109:50-6. IF: 3.101 - Article.

- Delgado R, Simon F. Transmission, Human Population, and Pathogenicity: the Ebola Case in Point. *Microbiology Spectrum*. 2018;6(2):UNSP MTBP-0003-2016. IF: N/A - Article.
- Silva JT, Pérez-González V, Lopez-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, San-Juan R, Brañas P, Folgueira MD, Aguado JM, de Pablo-Gafas A. Experience with leflunomide as treatment and as secondary prophylaxis for cytomegalovirus infection in lung transplant recipients: A case series and review of the literature. *Clinical Transplantation*. 2018;32(2):e13176. IF: 1.518 - Review.
- Perez-Molina JA, Pulido F, Di Giambenedetto S, Ribera E, Moreno S, Zamora J, Coscia C, Alejos B, Pitch J, Gatell JM, De Luca A, Arribas JR. Individual patient data meta-analysis of randomized controlled trials of dual therapy with a boosted PI plus lamivudine for maintenance of virological suppression: GeSIDA study 9717. *Journal of Antimicrobial Chemotherapy*. 2018;73(II):2927-35. IF: 5.217 - Review.
- Recio R, Branas P, Chaves F, Orellana MA. Photo Quiz: Isolation of a "Friendly Bacterium" from a Pyogenic Liver Abscess. *Journal of Clinical Microbiology*. 2018;56(3): UNSP e00602-16. IF: 4.054 - Editorial Material.
- Recio R, Branas P, Chaves F, Orellana MA. Answer to March 2018 Photo Quiz. *Journal of Clinical Microbiology*. 2018;56(3):IF: 4.054 - Editorial Material.
- Miralles P, Navarro JT, Berenguer J, Gómez Codina J, Kwon M, Serrano D, Díez-Martín JL, Villà S, Rubio R, Menárguez J, Ribera Santasusana JM. Recommendations of GeSIDA/PETHEMA on the Diagnosis and Treatment of Lymphomas in Patients Infected by the Human Immunodeficiency Virus. *Medicina Clínica*. 2018;151(I):39. IF: 1.168 - Editorial Material.
- Martinez E, Pulido F. Introducción. Darunavir, cobicistat, emtricitabina y tenofovir alafenamida coformulados en el tratamiento de la infección por el VIH. *Enfermedades Infecciosas y Microbiología Clínica*. 2018;36(Suppl 2):I-2. IF: 1.707 - Editorial Material.

MOLECULAR EPIDEMIOLOGY OF HOSPITAL AND EMERGING INFECTIONS



GROUP DIRECTOR

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Meléndez Carmona, M^a Ángeles
Muñoz Gallego, Irene
Orellana Miguel, M^a Ángeles
Pérez de Ayala Balzola, Ana

Recio Martínez, Raúl
Viedma Moreno, Ester
Villa García, Jénifer

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	3
Competitive	SEIMC	1
	TOTAL	4

- 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.: PII5/02013

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 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.: PII7/01791

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 El, y su relación con la actividad de antimicrobianos sobre modelos experimentales.

Principal Investigator: Fernando Chaves Sánchez

Project No.: PII4/01671

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

Project No.: PII4/01671

Funding Body: Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica (SEIMC)

Start date: 01/09/2017

End date: 01/09/2019

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	22	66.227
Editorials	5	101.877
TOTAL	27	168.104
Letters	1	6.966
TOTAL	28	175.07

- Lalueza A, Sanz-Trepiana L, Bermejo N, Yaiza B, Morales-Cartagena A, Espinosa M, Garcia-Jimenez R, Jimenez-Rodriguez O, Ponce B, Lora D, Orellana MA, Fernandez-Ruiz M, Bermejo S, Aguado JM. Risk factors for bacteremia in urinary tract infections attended in the emergency department. Internal and Emergency Medicine. 2018;13(1):41-50. IF: 2.453 - Article.
- Martin A, Perez-Ayala A, Chaves F, Lora D, Orellana MA. Evaluation of the multiplex PCR Allplex-GI assay in the detection of bacterial pathogens in diarrheic stool samples. Journal of Microbiological Methods. 2018;144:33-6. IF: 1.701 - Article.
- Chaves F, Garnacho-Montero J, Del Pozo JL, Bouza E, Capdevila JA, de Cueto M, Domínguez MÁ, Esteban J, Fernández-Hidalgo N, Fernández Sampedro M, Fortún J, Guembe M, Lorente L, Paño JR, Ramírez P, Salavert M, Sánchez M, Vallés J. Diagnosis and treatment of catheter-related bloodstream infection: Clinical guidelines of the Spanish Society of Infectious Diseases and Clinical Microbiology and (SEIMC) and the Spanish Society of Spanish Society of Intensive and Critical Care Medicine and Coronary Units (SEMICYUC). Medicina Intensiva. 2018;42(1):5-36. IF: 1.755 - Article.
- Brañas P, Gil M, Villa J, Orellana MA, Chaves F. Molecular epidemiology of carbapenemase-producing Enterobacteriaceae infection/colonisation in a hospital in Madrid. Enfermedades Infecciosas y Microbiología Clínica. 2018;36(2):100-3. IF: 1.707 - Article.
- Braun P, Delgado R, Drago M, Fanti D, Fleury H, Izopet J, Lombardi A, Mancon A, Marcos MA, Saune K, O Shea S, Perez-Rivilla A, Ramble J, Trimoulet P, Vila J, Whittaker D, Artus A, Rhodes D. A European multicenter study on the analytical performance of the VERIS HBV assay. Journal of Clinical Virology. 2018;99-100:50-6. IF: 3.101 - Article.

- Chaves F, Garnacho-Montero J, del Pozo JL, Bouza E, Capdevila JA, de Cueto M, Dominguez MA, Esteban J, Fernandez-Hidalgo N, Fernández Sampedro M, Fortun J, Guembe M, Lorente L, Paño JR, Ramirez P, Salavert M, Sanchez M, Valles J. Executive summary: Diagnosis and Treatment of Catheter-Related Bloodstream Infection: Clinical Guidelines of the Spanish Society of Clinical Microbiology and Infectious Diseases (SEIMC) and the Spanish Society of Intensive Care Medicine and Coronary Units (SEMICYUC). Enfermedades Infecciosas y Microbiologia Clinica. 2018;36(2):112-9. IF: 1.707 - Article.
- Perez-Ayala A, Fradejas I, Rebollo L, Lora-Pablos D, Lizasoain M, Herrero-Martinez JM. Usefulness of the ARCHITECT Chagas (R) assay as a single test for the diagnosis of chronic Chagas disease. Tropical Medicine & International Health. 2018;23(6):634-40. IF: 2.541 - Article.
- García-Alvarez A, Fernández-Garayzábal JF, Chaves F, Pinto C, Cid D. Ovine Mannheimia haemolytica isolates from lungs with and without pneumonic lesions belong to similar genotypes. Veterinary Microbiology. 2018;219:80-6. IF: 2.524 - Article.
- Perez Barragan E, Sandino Perez J, Corbella L, Orellana MA, Fernandez-Ruiz M. Achromobacter xylosoxidans bacteremia: clinical and microbiological features in a 10-year case series. Revista Espanola de Quimioterapia. 2018;31(3):268-73. IF: 0.605 - Article.
- Recio R, Branas P, Martinez MT, Chaves F, Orellana MA. Effect of respiratory Achromobacter spp. infection on pulmonary function in patients with cystic fibrosis. Journal of Medical Microbiology. 2018;67(7):952-6. IF: 2.112 - Article.
- Munoz P, Vena A, Machado M, Martinez-Jimenez MC, Gomez E, Origuen J, Orellana MA, Lopez-Medrano F, Fernandez-Ruiz M, Merino P, Gonzalez-Romo F, Frias I, Perez-Granda MJ, Aguado JM, Fortun J, Bouza E; T2MadRid Study Grp. T2Candida MR as a predictor of outcome in patients with suspected invasive candidiasis starting empirical antifungal treatment: a prospective pilot study. Journal of Antimicrobial Chemotherapy. 2018;73(Suppl 4):6-12. IF: 5.217 - Article.
- Munoz P, Vena A, Machado M, Martinez-Jimenez MC, Gioia F, Gomez E, Origuen J, Orellana MA, Lopez-Medrano F, Perez-Granda MJ, Aguado JPM, Fortun J, Bouza E; T2MadRid Study Grp. T2MR contributes to the very early diagnosis of complicated candidaemia. A prospective study. Journal of Antimicrobial Chemotherapy. 2018;73(Suppl 4):13-9. IF: 5.217 - Article.
- Lopez-Fabal M, Perez-Rivilla A, Gomez-Garces JL. Evaluation of sera with a low signal to cut-off ratio using two chemiluminescent assays for detecting Hepatitis C Virus, and their correlation with the detection of Viral RNA. Enfermedades Infecciosas y Microbiología Clínica. 2018;36(4):222-4. IF: 1.707 - Article.
- Origuen J, Corbella L, Orellana MA, Fernandez-Ruiz M, Lopez-Medrano F, San Juan R, Lizasoain M, Ruiz-Merlo T, Morales-Cartagena A, Maestro G, Parra P, Villa J, Delgado R, Aguado JM. Comparison of the clinical course of Clostridium difficile infection in glutamate dehydrogenase-positive toxin-negative patients diagnosed by PCR to those with a positive toxin test. Clinical Microbiology and Infection. 2018;24(4):414-21. IF: 5.394 - Article.
- Viedma E, Perez-Montarello D, Villa J, Munoz-Gallego I, Larrosa N, Fernandez-Hidalgo N, Gavalda J, Almirante B, Chaves F. Sub-inhibitory concentrations of oxacillin modify the expression of agr locus in *Staphylococcus aureus* clinical strains belonging to different clonal complexes. BMC Infectious Diseases. 2018;18(1):177. IF: 2.620 - Article.
- Perez-Montarello D, Viedma E, Larrosa N, Gomez-Gonzalez C, Ruiz de Gopegui E, Munoz-Gallego I, San Juan R, Fernandez-Hidalgo N, Almirante B, Chaves F. Molecular Epidemiology of *Staphylococcus aureus* Bacteremia: Association of Molecular Factors With the Source of Infection. Frontiers in Microbiology. 2018;9:2210. IF: 4.019 - Article.
- Fradejas I, Herrero-Martinez JM, Lizasoain M, Rodriguez de Las Parras E, Perez-Ayala A. Comparative study of two commercial tests for *Strongyloides stercoralis* serologic diagnosis. Transactions of The Royal Society of Tropical Medicine and Hygiene. 2018;112(12):561-7. IF: 2.820 - Article.
- Morales-Cartagena A, Fernandez-Ruiz M, Lalueza A, Lora-Tamayo J, San Juan R, Lopez-Medrano F, Origuen J, Chaves F, Maria Aguado J. Impact on mortality of adherence to evidence-based interventions in patients with catheter-related bloodstream infection due to methicillin-sensitive *Staphylococcus aureus*. Infectious Diseases. 2018;50(11-12):837-46. IF: 1.932 - Article.
- Luengo G, Lora-Tamayo J, Paredes D, Munoz-Gallego I, Diaz A, Delgado E. Daptomycin Plus Fosfomycin as Salvage Therapy in a Difficult-to-Treat Total Femoral Replacement Infection. Journal of Bone and Joint Infection. 2018;3(4):207-11. IF: N/A - Article.
- Recio R, Herrero-Martinez JM, Lizasoain M, Oliveira E, Pérez-Ayala A. Incidental finding observed on a blood smear. Clinical Microbiology and Infection. 2018;24(2):145. IF: 5.394 - Editorial Material.
- Recio R, Branas P, Chaves F, Orellana MA. Photo Quiz: Isolation of a "Friendly Bacterium" from a Pyogenic Liver Abscess. Journal of Clinical Microbiology. 2018;56(3):UNSP e00602-16. IF: 4.054 - Editorial Material.
- Recio R, Branas P, Chaves F, Orellana MA. Answer to March 2018 Photo Quiz. Journal of Clinical Microbiology. 2018;56(3). IF: 4.054 - Editorial Material.
- Melendez-Carmona MA, Recio R, Lora-Tamayo J, Chaves F, Orellana MA. A 44-Year-Old Female With Overwhelming Sepsis. Clinical Infectious Diseases. 2018;66(11):1812-4. IF: 9.117 - Editorial Material.
- Recio R, Perez-Ayala A. Cryptococcus neoformans Meningoencephalitis. New England Journal of Medicine. 2018;379(3):281. IF: 79.258 - Editorial Material.
- Dominguez-Pinilla N, Allende LM, Rosain J, Gallego MDC, Chaves F, Deswarthe C, Viedma E, de Inocencio Arocena J, Ruiz-Contreras J, Bustamante J, Gonzalez-Granado LI. Disseminated abscesses due to Mycoplasma faecium in a patient with activated PI3K delta syndrome type 2. Journal of Allergy and Clinical Immunology-In Practice. 2018;6(5):1796-1798.e2. IF: 6.966 - Letter.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

TRANSLATIONAL RESEARCH IN LEISHMANIASIS



GROUP DIRECTOR

Alunda Rodríguez, José M^a

Corral Caridad, M^a Jesús
Cuquerella Ayensa, Montserrat
de la Fuente López, M^a Concepción

González Sánchez, M^a Elena
Jiménez Antón, M^a Dolores
Olías Molero, Ana Isabel

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL I2 DE OCTUBRE (FIBHI2O)

- **Title:** New medicines for trypanosomatidic infections (NMTryp).

Principal Investigator: José M^a Alunda Rodríguez
Project No.: FP7-Health-2013-Innovation-I, Nr. 603240
Funding Body: European Commission

- **Title:** Inmunización frente a la hemoncrosis ovina con el antígeno recombinante rHc23.

Principal Investigator: José M^a Alunda Rodríguez
Project No.: CICYT AGL2014-54049-R

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	3	9.727
TOTAL	3	9.727

- Olías-Molero AI, Jiménez-Antón MD, Biedermann D, Corral MJ, Alunda JM. In-Vitro Activity of Silybin and Related Flavonolignans against Leishmania infantum and L donovani. *Molecules*. 2018;23(7):1560. IF: 3.098 - Article.
- Gonzalez-Sanchez ME, Cuquerella M, Alunda JM. Superimposed visceral leishmanial infection aggravates response to Heligmosomoides polygyrus. *Parasites & Vectors*. 2018;11(1):404. IF: 3.163 - Article.
- Jimenez-Antón MD, Garcia-Calvo E, Gutierrez C, Escribano MD, Kayali N, Luque-Garcia JL, Olias-Molero AI, Corral MJ, Costi MP, Torrado JJ, Alunda JM. Pharmacokinetics and disposition of miltefosine in healthy mice and hamsters experimentally infected with Leishmania infantum. *European Journal of Pharmaceutical Sciences*. 2018;121:281-6. IF: 3.466 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

THESES DEFENDED OR DIRECTED ON THE GROUP

- **Candidate:** M^a Elena González Sánchez
Title: Caracterización de la proteína recombinante rHc23 y mejora de su capacidad inmunitaria frente a la hemoncrosis ovina
Director/s: José M^a Alunda Rodríguez, Montserrat Cuquerella Ayensa
Date Defended: 08/11/2018
University: Universidad Complutense de Madrid
- **Candidate:** M^a Dolores Jiménez Antón
Title: Biodistribución y eficacia de nuevos fosfolípidos y flavonoles frente a la leishmaniosis visceral en círcito
Director/s: José M^a Alunda Rodríguez
Date Defended: 17/12/2018
University: Universidad Complutense de Madrid

TRANSLATIONAL RESEARCH IN MALARIA



GROUP DIRECTOR

Bautista Santa Cruz, José Manuel

Abad González, Paloma
Díez Martín, Amalia
Gallego Iniesta, Mª Milagros
González Azcárate, Isabel
Heras Carcar, Marcos

Marín García, Patricia
Puyet Catalina, Antonio
Sánchez Jaut, Sandra
Sánchez-Maroto Capilla, Laura

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	Fundación Ramón Areces	1
TOTAL		1

- Title:** Rastreo del daño tisular y de la respuesta adaptativa en las hemocromatosis hereditarias raras para la identificación de dianas terapéuticas específicas.
Principal Investigator: José Manuel Bautista Santa Cruz
Funding Body: Fundación Ramón Areces
Start date: 07/04/2015
End date: 06/04/2018, extended to 30/09/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	3	10.542
TOTAL	3	10.542

- Ortiz-Ruiz A, Postigo M, Gil-Casanova S, Cuadrado D, Bautista JM, Rubio JM, Luengo-Oroz M, Linares M. Plasmodium species differentiation by non-expert online volunteers for remote malaria field diagnosis. *Malaria Journal.* 2018;17(1):54. IF: 2.845 - Article.
- Alencar N, Sola I, Linares M, Juarez-Jimenez J, Pont C, Viayna A, Vilchez D, Sampedro C, Abad P, Perez-Benavente S, Lameira J, Bautista JM, Muñoz-Torreal D, Luque FJ. First homology model of Plasmodium falciparum glucose-6-phosphate dehydrogenase: Discovery of selective substrate analog-based inhibitors as novel antimalarial agents. *European Journal of Medicinal Chemistry.* 2018;146:108-22. IF: 4.816 - Article.
- Royo S, Schirmeister T, Kaiser M, Jung S, Rodriguez S, Bautista JM, Gonzalez FV. Antiprotozoal and cysteine proteases inhibitory activity of dipeptidyl enoates. *Bioorganic & Medicinal Chemistry.* 2018;26(16):4624-34. IF: 2.881 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

INFECTIOUS PATHOLOGIES



GROUP DIRECTOR

Aguado García, José Mª

Corbella Vázquez, Laura
Fernández Ruiz, Mario
Lizasoain Hernández, Manuel
López Medrano, Francisco

Lora-Tamayo Morillo-Velarde, Jaime
Maestro de la Calle, Guillermo
Origüen Sabater, Julia
Ruiz Ruigómez, María

San Juan Garrido, Rafael
Sequeira Lopes da Silva, José Tiago

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	6
Competitive	FMM	2
TOTAL		8

- 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.: PII6/00793
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- Title:** Score integrado de factores inmunológicos y genéticos de predicción de riesgo y evolución de la infección por cmv en pacientes con trasplante renal.
Principal Investigator: José Mª Aguado García
Project No.: PII7/01120
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:** 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.: PII5/01953
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.: PII4/00174
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2015
End date: 31/12/2017, extended to 30/06/2019

AREA
7
**INFECTIOUS
DISEASES AND AIDS**

annual scientific report 2018 | i+12

264

265

- **Title:** Innovative strategies to seek novel biomarkers and predictive models in solid organ transplantation: establishing personalized transplant medicine.
Principal Investigator: José Mª Aguado García
Project No.: PIE13/00045
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2014
End date: 31/12/2016, extended to 30/06/2018
- **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 Mutua Madrileña (FMM)
Start date: 27/10/2014
End date: 26/10/2017, extended to 30/04/2019
- **Title:** Comparación de la eficacia y seguridad de una estrategia inmunoguiada frente a una estrategia guiada por viremia en la profilaxis de la infección por citomegalovirus en receptores seropositivos de trasplante de órgano sólido.
Principal Investigator: Rafael San Juan Garrido
Project No.: FIMM 2012/0084
Funding Body: Fundación Mutua Madrileña (FMM)
Start date: 14/07/2012
End date: 13/09/2015, extended to 31/05/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	27	120.981
Reviews	15	61.390
Editorials	2	5.999
TOTAL	44	188.370
Letters	2	4.675
TOTAL	46	193.045

- Laluez A, Sanz-Trepiana L, Bermejo N, Yaiza B, Morales-Cartagena A, Espinosa M, Garcia-Jimenez R, Jimenez-Rodriguez O, Ponce B, Lora D, Orellana MA, Fernandez-Ruiz M, Bermejo S, Aguado JM. Risk factors for bacteremia in urinary tract infections attended in the emergency department. *Internal and Emergency Medicine*. 2018;13(1):41-50. IF: 2.453 - Article.
- Aguado JM, Silva JT, Fernandez-Ruiz M, Cordero E, Fortun J, Gudiol C, Martinez-Martinez L, Vidal E, Almenar L, Almirante B, Canton R, Carratala J, Caston JJ, Cercenado E, Cervera C, Cisneros JM, Crespo-Leiro MG, Cuervas-Mons V, Elizalde-Fernandez J, Fariñas MC, Gavalda J, Goyanes MJ, Gutierrez-Gutierrez B, Hernandez D, Len O, Lopez-Andujar R, Lopez-Medrano F, Martin-Davila P, Montejo M, Moreno A, Oliver A, Pascual A, Perez-Nadales E, Roman-Broto A, San-Juan R, Seron D, Sole-Jover A, Valerio M, Muñoz P, Torre-Cisneros J; Spanish Soc Transplantat SET, Group for Study of Infection in Transplantation of the Spanish Society of Infect, Spanish Network for Research in Infectious Diseases (REIPI) (RD16/0016). Management of multidrug resistant Gram-negative bacilli infections in solid organ transplant recipients: SET/GESITRA-SEIMC/REIPI recommendations. *Transplantation Reviews*. 2018; 32(1):36-57. IF: 2.364 - Article.
- Lopez-Medrano F, Fernandez-Ruiz M, Silva JT, Carver PL, van Delden C, Merino E, Perez-Saez MJ, Montero M, Coussemant J, de Abreu Mazzolin M, Cervera C, Santos L, Sabe N, Scemla A, Cordero E, Cruzado-Vega L, Martin-Moreno PL, Len O, Rudas E, Ponce de León A, Arriola M, Lauzurica R, David MD, Gonzalez-Rico C, Henriquez-Palop F, Fortun J, Nucci M, Manuel O, Paño-Pardo JR, Montejo M, Vena A, Sanchez-Sobrino B, Mazuecos A, Pascual J, Horcajada JP, Lecompte T, Moreno A, Carratala J, Blanes M, Hernandez D, Hernandez-Mendez EA, Fariñas MC, Perello-Carrascosa M, Muñoz P Andres A, Aguado JM; Spanish Network for Research in Infectious Diseases (REIPI), Group for the Study of Infection in Transplant Recipients (GESITRA) of the Spani, Study Group for Infections in Compromised Hosts (ESGICH) of the European Society, Swiss Transplant Cohort Study (STCS). Multinational case-control study of risk factors for the development of late invasive pulmonary aspergillosis following kidney transplantation. *Clinical Microbiology and Infection*. 2018;24(2):192-8. IF: 5.394 - Article.
- Fernandez-Ruiz M, Parra P, Ruiz-Merlo T, Lopez-Medrano F, San Juan R, Polanco N, Gonzalez E, Andres A, Aguado JM. Association between baseline serum hepcidin levels and infection in kidney transplant recipients: Potential role for iron overload. *Transplant Infectious Disease*. 2018;20(1):e12807. IF: 1.869 - Article.
- Clemente WT, Pierrotti LC, Abdala E, Morris MI, Azevedo LS, Lopez-Velez R, Cuenca-Estrella M, Torre-Cisneros J, Petersen E, Camargo LFA, Wright AJ, Beeching NJ, Vilela EG, Santoro-Lopes G, Len O, Stucchi RSB, Manuel O, Faria LC, Leblebicioglu H, Huprikar S, Molina I, Mourão PHO, Kotton CN, Aguado JM; working group on Endemic Disease and Travel Medicine in Solid-Organ Transplantat. Recommendations for Management of Endemic Diseases and Travel Medicine in Solid-Organ Transplant Recipients and Donors: Latin America. *Transplantation*. 2018; 102(2):193-208. IF: 3.960 - Article.
- de la Calle GM, Fernandez-Ruiz M, Lopez-Medrano F, Polanco N, Gonzalez E, San Juan R, Ruiz-Merlo T, Origuen J, Paz-Artal E, Andres A, Aguado JM. Post-transplant hypocomplementemia: A novel marker of cardiovascular risk in kidney transplant recipients? *Atherosclerosis*. 2018;269:204-10. IF: 4.467 - Article.
- Fernandez-Ruiz M, Polanco N, Garcia-Santiago A, Munoz R, Hernandez AM, Gonzalez E, Mercado VR, Fernandez I, Aguado JM, Praga M, Andres A. Herpes zoster in kidney transplant recipients: protective effect of anti-cytomegalovirus prophylaxis and natural killer cell count. A single-center cohort study. *Transplant International*. 2018;31(2):187-97. IF: 3.196 - Article.
- Guery B, Menichetti F, Anttila VJ, Adomakoh N, Aguado JM, Bisnauthsing K, Georgopali A, Goldenberg SD, Karas A, Kazeem G, Longshaw C, Palacios-Fabrega JA, Cornely OA, Vehreschild MJGT; EXTEND Clinical Study Group. Extended-pulsed fidaxomicin versus vancomycin for Clostridium difficile infection in patients 60 years and older (EXTEND): a randomised, controlled, open-label, phase 3b/4 trial. *Lancet Infectious Diseases*. 2018;18(3):296-307. IF: 25.148 - Article.
- Munoz P, Vena A, Machado M, Gioia F, Martinez-Jimenez MC, Gomez E, Origuen J, Orellana MA, Lopez-Medrano F, Fernandez-Ruiz M, Merino P, Gonzalez-Romo F, Frias I, Perez-Granda MJ, Aguado JM, Fortun J, Bouza E; T2MadRid Study Grp. T2Candida MR as a predictor of outcome in patients with suspected invasive candidiasis starting empirical antifungal treatment: a prospective pilot study. *Journal of Antimicrobial Chemotherapy*. 2018;73(Suppl 4):6-12. IF: 5.217 - Article.
- Munoz P, Vena A, Machado M, Martinez-Jimenez MC, Gioia F, Gomez E, Origuen J, Orellana MA, Lopez-Medrano F, Perez-Granda MJ, Aguado JPM, Fortun J, Bouza E; T2MadRid Study Grp. T2MR contributes to the very early diagnosis of complicated candidaemia. A prospective study. *Journal of Antimicrobial Chemotherapy*. 2018;73(Suppl 4):13-9. IF: 5.217 - Article.
- Origuen J, Corbella L, Orellana MA, Fernandez-Ruiz M, Lopez-Medrano F, San Juan R, Lizasoain M, Ruiz-Merlo T, Morales-Cartagena A, Maestro G, Parra P, Villa J, Delgado R, Aguado JM. Comparison of the clinical course of Clostridium difficile infection in glutamate dehydrogenase-positive toxin-negative patients diagnosed by PCR to those with a positive toxin test. *Clinical Microbiology and Infection*. 2018;24(4):414-21. IF: 5.394 - Article.
- Perez-Ayala A, Fradejas I, Rebollo L, Lora-Pablos D, Lizasoain M, Herrero-Martinez JM. Usefulness of the ARCHITECT Chagas (R) assay as a single test for the diagnosis of chronic Chagas disease. *Tropical Medicine & International Health*. 2018;23(6):634-40. IF: 2.541 - Article.
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*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 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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- Perez-Montarello D, Viedma E, Larrosa N, Gomez-Gonzalez C, Ruiz de Goegui E, Munoz-Gallego I, San Juan R, Fernandez-Hidalgo N, Almirante B, Chaves F. Molecular Epidemiology of *Staphylococcus aureus* Bacteremia: Association of Molecular Factors With the Source of Infection. *Frontiers In Microbiology*. 2018;9:2210. IF: 4.019 - Article.
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- Fradejas I, Herrero-Martinez JM, Lizasoain M, Rodriguez de Las Parras E, Perez-Ayala A. Comparative study of two commercial tests for *Strongyloides stercoralis* serologic diagnosis. *Transactions of The Royal Society of Tropical Medicine and Hygiene*. 2018;112(12):561-7. IF: 2.820 - Article.
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- Silva JT, Pérez-González V, Lopez-Medrano F, Alonso-Moralejo R, Fernández-Ruiz M, San-Juan R, Brañas P, Folgueira MD, Aguado JM, de Pablo-Gafas A. Experience with leflunomide as treatment and as secondary prophylaxis for cytomegalovirus infection in lung transplant recipients: A case series and review of the literature. *Clinical Transplantation*. 2018;32(2):e13176. IF: 1.518 - Review.
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- Reinwald M, Silva JT, Mueller NJ, Fortun J, Garzoni C, de Fijter JW, Fernandez-Ruiz M, Grossi P, Aguado JM. ESCMID Study Group for Infections in Compromised Hosts (ESGICH) Consensus Document on the safety of targeted and biological therapies: an infectious diseases perspective (Intracellular signaling pathways: tyrosine kinase and mTOR inhibitors). *Clinical Microbiology and Infection*. 2018;24:53-70. IF: 5.394 - Review.
- Mikulska M, Lanini S, Gudiol C, Drgona L, Ippolito G, Fernandez-Ruiz M, Salzberger B. ESCMID Study

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- Norena I, Fernandez-Ruiz M, Aguado J. Viral infections in the biologic therapy era. Expert Review of Anti-Infective Therapy. 2018;16(10):781-91. IF: 3.141 - Review.
- Silva JT, Torre-Cisneros J, Aguado JM. Invasive aspergillosis in solid organ transplantation. Revista Iberoamericana de Micología. 2018;35(4):206-9. IF: 0.989 - Review.
- Silva JT, Fernandez-Ruiz M, Aguado JM. Multidrug-resistant Gram-negative infection in solid organ transplant recipients: implications for outcome and treatment. Current Opinion in Infectious Diseases. 2018;31(6):499-505. IF: 3.782 - Review.
- Fernandez-Ruiz M, Aguado JM. Risk of infection associated with anti-TNF-alpha therapy. Expert Review of Anti-Infective Therapy. 2018;16(12):939-56. IF: 3.141 - Review.
- Recio R, Herrero-Martínez JM, Lizasoain M, Oliveira E, Pérez-Ayala A. Incidental finding observed on a blood smear. Clinical Microbiology and Infection. 2018;24(2):145. IF: 5.394 - Editorial Material.
- Valerio M, Lopez-Medrano F, Regalado-Artamendi I, Munoz P, Aguado JM, Bouza E. A patient with a rapidly lethal pneumonia after a visit to a touristic area in rural Leon (Spain). Revista Española de Quimioterapia. 2018;31(4):367-73. IF: 0.605 - Editorial Material.
- Tous-Romero F, Navarro-Cutillas V, Lopez-Medrano F, Rodriguez-Peralto JL, Postigo-Llorente C. IgG4-related disease with skin, submaxillary and pulmonary involvement. Journal Der Deutschen Dermatologischen Gesellschaft. 2018;16(7):920-2. IF: 2.743 - Letter.

- Sandino Perez J, Mancilla AM, Perez Barragan E, Fernandez-Ruiz M. Chryseobacterium bacteraemia: a single-centre case series. Infectious Diseases. 2018;50(10):775-8. IF: 1.932 - Letter.

THESES DEFENDED OR DIRECTED ON THE GROUP

- **Candidate:** Mario Fernández Ruiz
Title: Desarrollo y validación de un modelo predictivo del riesgo de infección basado en parámetros inmunológicos en receptores de trasplante renal
Director/s: José Mª Aguado García, Francisco López Medrano
Date Defended: 14/03/2018
University: Universidad Complutense de Madrid

PATENTS

- **Title:** Aplicador de catéteres y catéter que incorpora aplicador.
Number: PCT/ES2016/070403.
Type: PCT patent.
Inventor: Francisco López Medrano.
Owner: Fundación para la Investigación Biomédica del Hospital I2 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.
Owner: Fundación para la Investigación Biomédica del Hospital I2 de Octubre (100%).
Date of application: 28/05/2015

TRANSLATIONAL RESEARCH GROUP ON PEDIATRIC INFECTIOUS DISEASES



GROUP DIRECTOR

Blázquez Gamero, Daniel

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Epalza Ibarroondo, Cristina
Fernández Cooke, Elisa

González Tomé, Mª Isabel
Grasa Lozano, Carlos Daniel
Moraleda Redecilla, Mª Cinta

Rojo Conejo, Pablo
Soriano Ramos, María
Tagarro García, Alfredo

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	4
Noncompetitive	Various	1
	TOTAL	5

- **Title:** Diagnóstico de infecciones nosocomiales en pacientes pediátricos críticos: Comparación de un test molecular con hemocultivos convencionales.
Principal Investigator: Pablo Rojo Conejo
Project No.: PII6/01950
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019
- **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.: PII5/00694
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018, extended to 31/12/2019
- **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 30/09/2018
- **Title:** Validación de dos scores diagnósticos para la neumonía bacteriana en niños.
Principal Investigator: Alfredo Tagarro García
Project No.: PII7/01458
Funding Body: Instituto de Salud Carlos III (ISCIII)
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.: PII6/00807
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2017
End date: 31/12/2019

AREA
7
**INFECTIOUS
DISEASES AND AIDS**

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OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- Title:** Multi-centre EuRopean study of MAjor Infectious Disease Syndromes (PED-MERMAIDS) que forma parte del Proyecto Platform for European Preparedness Against (Re-) Emerging Epidemics (PREPARE).
Principal Investigator: Federico Martinón Torres. Collaborator Innvestigator: Cristina Epalza Ibarrondo, Pablo Rojo Conejo
Funding Body: European Union
Start date: 2016
- 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. Principal Investigator Principal Hospital 12 de Octubre: Pablo Rojo Conejo. Collaborator Investigator: 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. Principal Investigator 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 2017)
Articles	20	98.727
Editorials	2	3.025
TOTAL	22	101.752
Letters	2	3.710
TOTAL	24	105.462

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- European Pregnancy and Paediatric HIV Cohort Collaboration (EPPICC) study group, Judd A, Chappell E, Turkova A, Le Coeur S, Noguera-Julian A, Goetghebuer T, Doerholt K, Galli L, Pajkrt D, Marques L, Collins IJ, Gibb DM, González Tome MI, Navarro M, Warszawski J, Königs C, Spoulou V, Prata F, Chiappini E, Naver L, Giaquinto C, Thorne C, Marczynska M, Okhonskaia L, Postay-Barbe K, Ounchanum P, Techakunakorn P, Kiseleva G, Malyuta R, Volokha A, Ene L, Goodall R. Long-term trends in mortality and AIDS-defining events after combination ART initiation among children and adolescents with perinatal HIV infection in 17 middle- and high-income countries in Europe and Thailand: A cohort study. *Plos Medicine*. 2018;15(1):e1002491. IF: 11.675 - Article.
- Bamford A, Turkova A, Lyall H, Foster C, Klein N, Bastiaans D, Burger D, Bernadi S, Butler K, Chiappini E, Clayden P, Della Negra M, Giacomet V, Giaquinto C, Gibb D, Galli L, Hainaut M, Koros M, Marques L, Nastouli E, Niehues T, Noguera-Julian A, Rojo P, Rudin C, Scherpbier HJ, Tudor-Williams G, Welch SB; PENTA Steering Comm. Paediatric European Network for Treatment of AIDS (PENTA) guidelines for treatment of paediatric HIV-1 infection 2015: optimizing health in preparation for adult life. *HIV Medicine*. 2018;19(1):1-42. IF: 2.932 - Article.
- Herreros ML, Tagarro A, García-Pose A, Sánchez A, Cañete A, Gili P. Performing a urine dipstick test with a clean-catch urine sample is an accurate screening method for urinary tract infections in young infants. *Acta Paediatrica*. 2018;107(1):145-50. IF: 2.580 - Article.
- Goetghebuer T, Hainaut M, Van der Kelen E, Delforge M, Warszawski J, Le Chenadec J, Ramos E, Dialla O, Wack T, Laurent C, Selmi LA, Leymarie I, Benali FA, Brossard M, Boufassa L, Floch-Tudal C, Firtion G, Hau I, Chace A, Bolot P, Blanche S, Granier M, Labrunie P, Lachassine E, Dollfus C, Levine M, Fourcade C, Heller-Roussin B, Runel-Belliard C, Tricoire J, Monpoux F, Chirouze C, Reliquet V, Brouard J, Kebaili K, Fialaire P, Lalande M, Mazingue F, Partisan ML, Konigs C, Schultze-Strasser S, Baumann U, Niehues T, Neubert J, Kobbe R, Feiternau-Sperling C, Konigs C, Buchholz B, Notheis G, Spoulou V, Tovo PA, Galli L, Chiappini E, Patrizia O, Larovere D, Ruggeri M, Faldella G, Baldi F, Badolato R, Montagnani C, Venturini E, Lisi C, Di Biagio A, Taramasso L, Giacomet V, Erba P, Esposito S, Lipreri R, Salvini F, Tagliabue C, Cellini M, Bruzzese E, Lo Vecchio A, Rampon O, Dona D, Romano A, Dodi I, Maccabruni A, Consolini R, Bernardi S, Genovese O, Olmeo P, Cristiano L, Mazza A, Garazzino S, Pellegatta A, Pajkrt D, Scherpbier HJ, Weijesenfeld AM, van der Plas A, Jurriaans S, Back NKT, Zaaijer HL, Berkhout B, Cornelissen MTE, Schinkel CJ, Wolthers KC, Fraaij PLA, van Rossum AMC, van der Knaap LC, Visser EG, Boucher CAB, Koopmans MPG, van Kampen JJA, Pas SD, Henriet SSV, de Flier MV, van Aerde K, Strik-Albers R, Rahamat-Langendoen J, Stelma FF, Scholvinck EH, de Groot-de Jonge H, Niester HGM, van Leer-Buter CC, Knoester M, Bont LJ, Geelen SPM, Wolfs TFW, Nauta N, Ang CW, van Houdt R, Pettersson AM, Vandebroucke-Grauls CMJE, Reiss P, Bezemer DO, van Sighem AI, Smit C, Wit FWMN, Boender TS, Zaheri S, Hillebrecht M, de Jong A, Bergsma D, Grivell S, Jansen A, Raethke M, Meijering R, de Groot L, van den Akker M, Bakker Y, Claessen E, El Berkaoui A, Koops J, Kruijne E, Lodewijk C, Munjishvili L, Peeck B, Ree C, Regtop R, Ruijs Y, Rutkens T, Schoorl M, Timmerman A, Tuijn E, Veenenberg L, van der Vliet S, Wisse A, Woudstra T, Tuk B, Marcynska M, Oldakowska A, Popielska J, Coupland 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- AREA**
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**INFECTIOUS
DISEASES AND AIDS**
- annual scientific report 2018 | i+12**
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END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Virgina Buitrago García, Lourdes Fuentes Domínguez
Title: Estudio descriptivo de los nuevos diagnósticos de VIH en adolescentes en España (trabajo de fin de grado en medicina con nivel de máster)
Director: Alfredo Tagarro García
Degree: Medicina (UCM)

- **Student:** Sara Borrego Martín, Tamara Rodríguez Uribe
Title: Descripción de la enfermedad de Kawasaki en niños menores de 6 meses: resultados del grupo de trabajo KAWARACE (end of degree work in medicine with master level)
Director: Alfredo Tagarro García
Degree: Medicina (UCM)

PRIZES AND AWARDS

- Special mention award for best communications. 65th AEP congress. Identificación Microbiológica Positiva y su Relación con el Desarrollo de Lesiones de las Arterias Coronarias en la Enfermedad de Kawasaki. Resultados del Estudio (KAWA-RACE) 2011-2016. Elisa Fernández Cooke, María Luisa Navarro Gómez, Judith Sanchez, Manubens, Enrique Villalobos Pinto, Cristina Calvo Rey, Grupo de Trabajo Kawa-Race. 66th AEP Congress, Zaragoza from June 7 to 9, 2018. E. Fdz-Cooke.

AREA 8

NEUROSCIENCES AND MENTAL HEALTH

Coordinator: Leza Cerro, Juan Carlos

COGNITION AND PSYCHOSIS

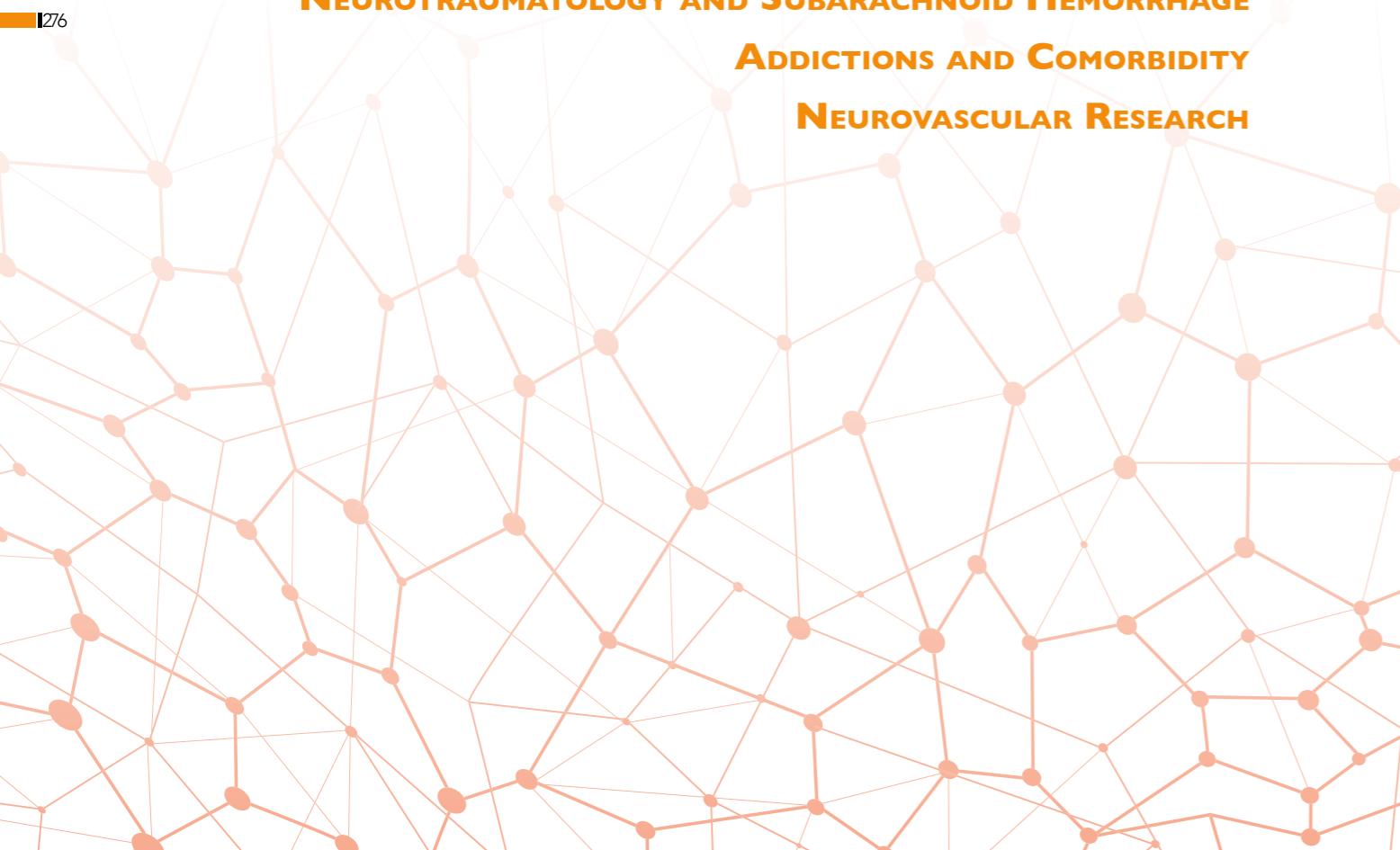
NEURODEGENERATIVE DISEASES

TRANSLATIONAL PSYCHIATRY

NEUROTRAUMATOLOGY AND SUBARACHNOID HEMORRHAGE

ADDICTIONS AND COMORBIDITY

NEUROVASCULAR RESEARCH



COGNITION AND PSYCHOSIS



GROUP DIRECTOR

Rodríguez Jiménez, Roberto

Aboulfounoun El Azzouzi, Karima	Feito García, Marta	Molina Martín, Juan de Dios	Romero Ferreiro, Mª Verónica
Bagney Lifante, Alexandra	Fernández Sotos, Patricia	Moreno Montes, Eva Mª	Rosa Cerezo, Laura
Caballero González, Montserrat	González Martínez, Ester	Olmos Albacete, Ricardo	Saiz Brionez, Nazaret
Calle González, Ana	Jiménez Arriero, Miguel Ángel	Pastor Jorda, Carolina	Sánchez Morla, Eva Mª
Dompablo Tobar, Mónica	Laiz Gutiérrez, Paloma	Pérez Nevot, Antonio Luis	Serrano Pedraza, Ignacio
Espejo-Saavedra Roca, Juan Manuel	Martínez Gras, Isabel	Rentero Martín, David	Torio Palmero, Iosune

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	1
Noncompetitive	Various	1
	TOTAL	2

- **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: 2016

End date: 2019

- **Title:** Factores que influyen 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

- **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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **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: 2016

End date: 2019

- **Title:** Influencias culturales de los estereotipos sobre el envejecimiento (ICESEN).

Principal Investigator: Rocío Fernández Ballesteros

Project No.: (PSI2014-52462-P)

Funding Body: Ministerio de Economía, Industria y Competitividad

Start date: 2016

End date: 2018

- Title:** Nuevas estrategias terapéuticas basadas en la realidad virtual para el tratamiento de los trastornos por uso de alcohol.
- Principal Investigator:** Rosa 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 2017)
Articles	20	73.882
Reviews	1	2.223
TOTAL	21	76.105

- 278
- Rubio G, Marin M, Arias F, Lopez-Trabada JR, Iribarren M, Alfonso S, Prieto R, Blanco A, Urosa B, Montes V, Jurado R, Jimenez-Arriero MA, de Fonseca FR. Inclusion of Alcoholic Associations Into a Public Treatment Programme for Alcoholism Improves Outcomes During the Treatment and Continuing Care Period: A 6-Year Experience. *Alcohol and Alcoholism*. 2018;53(1):78-88. IF: 2.368 - Article.
 - Jorge-Botana G, Olmos R, Luzón JM. Word maturity indices with latent semantic analysis: why, when, and where is Procrustes rotation applied? *Wires Cogn Sci*. 2018;9(1). IF: 2.881 - Article.
 - Bioque M, García-Portilla MAP, Garcia-Rizo C, Cabrera B, Lobo A, Gonzalez-Pinto A, Diaz-Caneja CM, Corripio I, Vieta E, Castro-Fornieles J, Bobes J, Gutierrez-Fraile M, Rodriguez-Jimenez R, Mezquida G, Llerena A, Saiz-Ruiz J, Bernardo M; PEPs Group. Evolution of metabolic risk factors over a two-year period in a cohort of first episodes of psychosis. *Schizophrenia Research*. 2018;193:188-96. IF: 3.958 - Article.
 - Valdes-Conroy B, Hinojosa JA, Roman FJ, Romero-Ferreiro V. Linguistic and Perceptual Mapping in Spatial Representations: An Attentional Account. *Cognitive Science*. 2018;42(2):646-63. IF: 2.617 - Article.
 - Jimenez-Lopez E, Sanchez-Morla EM, Aparicio AI, Lopez-
 - Villarreal A, Martinez-Vizcaino V, Rodriguez-Jimenez R, Vieta E, Santos JL. Psychosocial functioning in patients with psychotic and non-psychotic bipolar I disorder. A comparative study with individuals with schizophrenia. *Journal of Affective Disorders*. 2018;229:177-85. IF: 3.786 - Article.
 - de Santiago L, Sanchez-Morla E, Blanco R, Miguel JM, Amo C, Ortiz Del Castillo M, Lopez A, Boquete L. Empirical mode decomposition processing to improve multifocal-visual-evoked-potential signal analysis in multiple sclerosis. *Plos One*. 2018;13(4):e0194964. IF: 2.766 - Article.
 - Tarawneh G, Nityananda V, Rosner R, Errington S, Herbert W, Arranz-Paraíso S, Busby N, Tampin J, Read J, Serrano-Pedraza I. Contrast thresholds reveal different visual masking functions in humans and praying mantises. *Biology Open*. 2018;7(4):UNSP bio029439. IF: 2.217 - Article.
 - Gasso P, Mas S, Bioque M, Cabrera B, Lobo A, Gonzalez-Pinto A, Diaz-Caneja CM, Corripio I, Vieta E, Castro-Fornieles J, Sarro S, Mane A, Sanjuan J, Llerena A, Lafuente A, Saiz-Ruiz J, Bernardo M; PEPs Group. Impact of NTRK2, DRD2 and ACE polymorphisms on prolactin levels in antipsychotic-treated patients with first-episode psychosis. *Journal of Psychopharmacology*. 2018;32(6):702-10. IF: 4.738 - Article.
 - Arranz-Paraíso S, Serrano-Pedraza I. Testing the link between visual suppression and intelligence. *Plos One*. 2018;13(7):e0200151. IF: 2.766 - Article.
 - Vandeleef K, Read JCA, Herbert W, Goodship N, Woodhouse M, Serrano-Pedraza I. Two choices good, four choices better: For measuring stereoacuity in children, a four-alternative forced-choice paradigm is more efficient than two. *Plos One*. 2018;13(7):e0201366. IF: 2.766 - Article.
 - Sanchez-Gutierrez T, Garcia-Portilla MP, Parellada M, Bobes J, Calvo A, Moreno-Izco L, Gonzalez-Pinto A, Lobo A, de la Serna E, Cabrera B, Torrent C, Roldan L, Sanjuan J, Ibanez A, Sanchez-Torres AM, Corripio I, Bernardo M, Cuesta MJ, Vieta E, Martinez-Aran A, Castro-Fornieles J, Baeza I, Bioque M, Mezquida G, Lopez-Ilundain JM, Alonso A, Rabela M, Lopez P, Zorrilla, I, Arbej, J, Rivero, G, Aguilar, EJ, Mane, A, Berge, D, Contreras, F, Albacete, A, Garcia-Alvarez L, Al-Halabi S, Gutierrez M, Segarra R, Morales-Munoz I, Rodriguez-Jimenez R, Butjosa A, Usall J, Sarro S, Landin-Romero R, Ruiz JS, Balanza V; PEPs Group. Smoking does not impact social and non-social cognition

- 279
- in patients with first episode psychosis. *Schizophrenia Research*. 2018;199:64-74. IF: 3.958 - Article.
 - Fernández-Ballesteros R, Sánchez-Izquierdo M, Olmos R, Huici C, Santacreu M, Schettini R, Molina MÁ. Cultural stereotypes in care contexts. *Clinical Interventions in Aging*. 2018;13:1613-9. IF: 2.505 - Article.
 - Sánchez-Torres AM, Moreno-Izco L, Lorente-Omeñaca R, Cabrera B, Lobo A, González-Pinto AM, Merchán-Naranjo J, Corripio I, Vieta E, de la Serna E, Butjosa A, Contreras F, Sarro S, Mezquida G, Ribeiro M, Bernardo M, Cuesta MJ; PEPs Group. Individual trajectories of cognitive performance in first episode psychosis: a 2-year follow-up study. *European Archives of Psychiatry and Clinical Neuroscience*. 2018;268(7):699-711. IF: 3.617 - Article.
 - Santesteban-Echarri O, Hernandez-Arroyo L, Rice SM, Guerre-Lobera M, Serrano-Villar M, Espin-Jaime JC, Jimenez-Arriero MA. Adapting the Brief Coping Cat for Children with Anxiety to a Group Setting in the Spanish Public Mental Health System: a Hybrid Effectiveness-Implementation Pilot Study. *Journal of Child and Family Studies*. 2018;27(10):3300-15. IF: 1.588 - Article.
 - Ballesteros A, Sanchez-Torres AM, Lopez-Ilundain JM, Cabrera B, Lobo A, Gonzalez-Pinto AM, Diaz-Caneja C, Corripio I, Vieta E, la Serna E, Bobes J, Usall J, Contreras F, Lorente-Omenaca R, Mezquida G, Bernardo M, Cuesta MJ; PEPs Grp. Is cognitive impairment associated with antipsychotic dose and anticholinergic equivalent loads in first-episode psychosis? *Psychological Medicine*. 2018;48(13):2247-56. IF: 5.475 - Article.
 - Kahn RS, van Rossum IW, Leucht S, McGuire P, Lewis SW, Leboyer M, Arango C, Dazzan P, Drake R, Heres S, Diaz-Caneja CM, Rujescu D, Weiser M, Galderisi S, Glenthøj B, Eijkemans MJC, Fleischhacker WW, Kapur S, Sommer IE; OPTIMISE Study Grp. Amisulpride and olanzapine followed by open-label treatment with clozapine in first-episode schizophrenia and schizophreniform disorder (OPTiMiSE): a three-phase switching study. *Lancet Psychiatry*. 2018;5(10):797-807. IF: 15.233 - Article.
 - Torrent C, Reinares M, Martinez-Aran A, Cabrera B, Amoretti S, Corripio I, Contreras F, Sarro S, Gonzalez-Pinto A, Lobo A, Cuesta MJ, Sanchez-Torres A, Berge D, Castro-Fornieles J, Moreno C, Bernardo M, Vieta E; PEPs Grp. Affective versus non-affective first episode psychoses: A longitudinal study. *Journal of Affective Disorders*. 2018;238:297-304. IF: 3.786 - Article.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Evelyn Ceme Joza
Title: Diferencias de género en teoría de la mente en sujetos sanos
Director/s: Roberto Rodríguez Jiménez, Mónica Domínguez-Centeno
Master: Iniciación a la Investigación en Psiquiatría y Salud Mental (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Sergio Escribano Cruz, Gerardo Gutiérrez Talavera, Laura Mazano Lozano
Title: Influencia de la neurocognición en la cognición social: estudio en población general (end of degree work in master level medicine)
Director/s: Roberto Rodríguez Jiménez, Mónica Domínguez-Centeno
Degree: 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 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

NEURODEGENERATIVE DISEASES



GROUP DIRECTOR

Carro Díaz, Eva M^a

Antequera Tienda, Desireé
Bartolomé Robledo, Fernando
Benito León, Julián
Bermejo Pareja, Félix

Da Cunha Alves, Victoria
de la Cueva de Vicente, Macarena
Defterali, Chagla
González Sánchez, Marta

Hernández Gallego, Jesús
Herrero San Martín, Alejandro
Octavio
Llamas Velasco, Sara

Molina Arjona, José Antonio
Pérez Martínez, David Andrés
Trincado Soriano, Rocío
Villarejo Galende, Alberto

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	2
Competitive	MINECO	1
Noncompetitive	Various	7
TOTAL		10

- 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
- 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 Díaz
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: Plataforma para el seguimiento de trastornos del movimiento: NETMD.
Principal Investigator: Julián Benito León
Project No.: RTC-2015-3967-I
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 02/12/2015
End date: 31/12/2017, extended to 30/04/2018
- 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

- Title: ETORGAI-ANTIAIGE "ANTIAGE (productos personalizados para combatir el envejecimiento)".
Principal Investigator: Eva M^a Carro Díaz
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.

- 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

- Title: Ayudas para el desarrollo de los proyectos que se desarrollan en el área de la Unidad de Esclerosis Múltiple del Hospital Universitario 12 de Octubre.
Principal Investigator: Julián Benito León
Funding Body: Sanofi Aventis, S.A.
Start date: 29/01/2015
End date: 28/01/2018

- Title: Desarrollo de las estrategias terapéuticas para la enfermedad de Alzheimer en el Hospital Universitario 12 de Octubre.
Principal Investigator: Julián Benito León
Funding Body: Fundación Investigación Biomédica Hospital 12 de Octubre
Start date: 27/10/2016
End date: 26/10/2019

- Title: Desarrollo de las estrategias terapéuticas para la enfermedad de Alzheimer en el Hospital Universitario 12 de Octubre.
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 2017)
Articles	19	67.591
Reviews	3	3.459
TOTAL	22	71.050
Letters	1	1.938
TOTAL	23	72.988

- Hernando S, Herran E, Figueiro-Silva J, Pedraz JL, Igartua M, Carro E, Hernandez RM. Intranasal Administration of TAT-Conjugated Lipid Nanocarriers Loading GDNF for Parkinson's Disease. *Molecular Neurobiology*. 2018; 55(1):145-55. IF: 5.076 - Article.

for Parkinson's Disease. *Molecular Neurobiology*. 2018; 55(1):145-55. IF: 5.076 - Article.

• Gomez-Tortosa E, Ruggiero M, Sainz MJ, Villarejo-Galende A, Prieto-Jurczynska C, Venegas Pérez B, Ordas C, Aguero P, Guerrero-Lopez R, Perez-Perez J. SORLI Variants in Familial Alzheimer's Disease. *Journal of Alzheimers Disease*. 2018;61(4):1275-80. IF: 3.476 - Article.

• Vida C, de Toda IM, Garrido A, Carro E, Molina JA, De la Fuente M. Impairment of Several Immune Functions and Redox State in Blood Cells of Alzheimer's Disease Patients. Relevant Role of Neutrophils in Oxidative Stress. *Frontiers in Immunology*. 2018;8:1974. IF: 5.511 - Article.

• Quintela T, Albuquerque T, Lundkvist G, Carmine Belin A, Talhada D, Gonçalves I, Carro E, Santos CRA. The choroid plexus harbors a circadian oscillator modulated by estrogens. *Chronobiology International*. 2018;35(2):270-9. IF: 2.643 - Article.

• Benito-Leon J. Epidemiology of Parkinson's disease in Spain and its contextualisation in the world. *Revista de Neurologia*. 2018;66(4):125-34. IF: 0.601 - Article.

• Bartolome F, de la Cueva M, Pascual C, Antequera D, Fernandez T, Gil C, Martinez A, Carro E. Amyloid beta-induced impairments on mitochondrial dynamics, hippocampal neurogenesis, and memory are restored by phosphodiesterase 7 inhibition. *Alzheimers Research & Therapy*. 2018;10(1):24. IF: 5.015 - Article.

• Figueiro-Silva J, Antequera D, Pascual C, de la Fuente Revenga M, Volt H, Acuna-Castroviejo D, Rodriguez-Franco MI, Carro E. The Melatonin Analog IQM316 May Induce Adult Hippocampal Neurogenesis and Preserve Recognition Memories in Mice. *Cell Transplantation*. 2018;27(3):423-37. IF: 2.885 - Article.

• Boycheva E, Contador I, Fernández-Calvo B, Ramos-Campos F, Puertas-Martín V, Villarejo-Galende A, Bermejo-Pareja F. Spanish version of the Mattis Dementia Rating Scale-2 for early detection of Alzheimer's disease and mild cognitive impairment. *International Journal of Geriatric Psychiatry*. 2018;33(6):832-40. IF: 2.940 - Article.

• Ettcheto M, Abad S, Petrov D, Pedros I, Busquets O, Sánchez-López E, Casadesús G, Beas-Zarate C, Carro E, Auladell C, Olloquequi J, Pallàs M, Folch J, Camins A. Early Preclinical Changes in Hippocampal CREB-Binding Protein Expression in a Mouse Model of Familial Alzheimer's Disease. *Molecular Neurobiology*. 2018;55(6):4885-95. IF: 5.076 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Del Cerro P, Alquezar C, Bartolome F, Gonzalez-Naranjo P, Perez C, Carro E, Paez JA, Campillo NE, Martin-Requero A. Activation of the Cannabinoid Type 2 Receptor by a Novel Indazole Derivative Normalizes the Survival Pattern of Lymphoblasts from Patients with Late-Onset Alzheimer's Disease. *CNS Drugs*. 2018;32(6):579-91. IF: 4.206 - Article.
- Lopez-Blanco R, Velasco MA, Mendez-Guerrero A, Romero JP, del Castillo MD, Serrano JI, Benito-Leon J, Bermejo-Pareja F, Rocon E. Essential tremor quantification based on the combined use of a smartphone and a smartwatch: The NetMD study. *Journal of Neuroscience Methods*. 2018;303:95-102. IF: 2.668 - Article.
- Catalan MJ, Molina-Arjona JA, Mir P, Cubo E, Arbelo JM, Martinez-Martin P; EDIS Study Group. Improvement of impulse control disorders associated with levodopa-carbidopa intestinal gel treatment in advanced Parkinson's disease. *Journal of Neurology*. 2018;265(6):1279-87. IF: 3.783 - Article.
- Mendez-Guerrero A, Uriarte-Pérez de Urabayen D, Llamas-Velasco S. Spinocerebellar ataxia type 3 presenting with writer's cramp without ataxia. *International Journal of Neuroscience*. 2018;128(7):684-5. IF: 1.848 - Article.
- Graus F, Escudero D, Oleaga L, Bruna J, Villarejo-Galende A, Ballabriga J, Barcelo MI, Gilo F, Popkirov S, Stourac P, Dalmau J. Syndrome and outcome of antibody-negative limbic encephalitis. *European Journal of Neurology*. 2018;25(8):1011-6. IF: 4.621 - Article.
- Benito-Leon J, Serrano JI, Louis ED, Holobar A, Romero JP, Povalej-Brzan P, Bermejo-Pareja F, Del Castillo MD, Posada IJ, Rocon E. Tremor severity in Parkinson's disease and cortical changes of areas controlling movement sequencing: A preliminary study. *Journal of Neuroscience Research*. 2018;96(8):1341-52. IF: 2.662 - Article.
- Etcheto M, Sánchez-López E, Gómez-Mínguez Y, Cabrera H, Busquets O, Beas-Zarate C, García ML, Carro E, Casadesus G, Auladell C, Vázquez Carrera M, Folch J, Camins A. Peripheral and Central Effects of Memantine in a Mixed Preclinical Mice Model of Obesity and Familial Alzheimer's Disease. *Molecular Neurobiology*. 2018;55(9):7327-39. IF: 5.076 - Article.
- Holobar A, Gallego JA, Kranjec J, Rocon E, Romero JP, Benito-Leon J, Pons JL, Glaser V. Motor Unit-Driven Identification of Pathological Tremor in

- Electroencephalograms. *Frontiers in Neurology*. 2018;9:879. IF: 3.508 - Article.
- Gonzalez-Sanchez M, Diaz T, Pascual C, Antequera D, Herrero-San Martin A, Llamas-Velasco S, Villarejo-Galende A, Bartolome F, Carro E. Platelet Proteomic Analysis Revealed Differential Pattern of Cytoskeletal- and Immune-Related Proteins at Early Stages of Alzheimer's Disease. *Molecular Neurobiology*. 2018;55(12):8815-25. IF: 5.076 - Article.
- Gonzalez-Sanchez M, Puertas-Martin V, Esteban-Perez J, Garcia-Redondo A, Borrego-Hernandez D, Mendez-Guerrero A, Llamas-Velasco S, Herrero-San Martin A, Cordero-Vazquez P, Herrero-Manso MC, Perez-Martinez DA, Villarejo-Galende A. TARDBP mutation associated with semantic variant primary progressive aphasia, case report and review of the literature. *Neurocase*. 2018;24(5-6):1-5. IF: N/A - Article.
- Rodriguez-Molinero A, Perez-Lopez C, Sama A, de Mingo E, Rodriguez-Martin D, Hernandez-Vara J, Bayes A, Moral A, Alvarez R, Perez-Martinez DA, Catala A. A Kinematic Sensor and Algorithm to Detect Motor Fluctuations in Parkinson Disease: Validation Study Under Real Conditions of Use. *JMIR Rehabilitation and Assistive Technologies*. 2018;5(1):e8. IF: N/A - Article.
- Llamas-Velasco S, García-Redondo A, Herrero-San Martín A, Puertas Martín V, González-Sánchez M, Pérez-Martínez DA, Villarejo-Galende A. Slowly progressive behavioral frontotemporal dementia with C9orf72 mutation. Case report and review of the literature. *Neurocase*. 2018;24(1):68-71. IF: 0.920 - Review.
- León Ruiz M, Rodríguez Sarasa ML, Sanjuán Rodríguez L, Benito-León J, García-Albea Ristol E, Arce Arce S. Current evidence on transcranial magnetic stimulation and its potential usefulness in post-stroke neurorehabilitation: Opening new doors to the treatment of cerebrovascular disease. *Neurologia*. 2018;33(7):459-72. IF: 1.938 - Review.
- Leon-Ruiz M, Perez-Martinez DA, Benito-Leon J. Major neurological complications of genitourinary cancers. *Revista de Neurologia*. 2018;67(11):441-52. IF: 0.601 - Review.
- Benito-León J, Domingo-Santos A. Reply to "Orthostatic tremor secondary to recreational use of solvents". *Neurologia*. 2018;33(4):266. IF: 1.938 - Letter.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Alejandro Castilla Ibeas
Title: Estudio de la fosfodiesterasa 8 como posible diana terapéutica en modelos experimentales de la enfermedad de Alzheimer
Director/s: Eva M^a Carro Díaz, Fernando Bartolomé Robledo
Master: Investigación en Medicina Traslacional (UCM)
- **Student:** Laura Carrero Olivas
Title: Regulación de los genes del ritmo circadiano en el hipocampo de un modelo murino de la enfermedad de Alzheimer
Director/s: Eva M^a Carro Díaz, Joana Figueiro
Master: Investigación en Medicina Traslacional (UCM)
- **Student:** Carlos Cerón Hernández
Title: Alteraciones moleculares a nivel de las glándulas salivales en la enfermedad de Alzheimer
Director/s: Eva M^a Carro Díaz, Fernando Bartolomé Robledo
Master: Investigación en Medicina Traslacional (UCM)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** Paloma Bartual Ferrán
Title: Lactoferrina en saliva como posible biomarcador de la enfermedad de Alzheimer
Director/s: Eva M^a Carro Díaz, Marta González Sánchez
Degree: E.T.S. de Ingeniería Agronómica, Alimentaria y de Biosistemas (UPM).

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 M^a Carro Díaz, Eva Tavares Vázquez, Javier Miñano Sánchez.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (16,66%), Servicio Andaluz de Salud (16,66%), 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%).

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: I4237979.

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: I2821746

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, Eva M^a 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%).

Spanish Patent Application No.: P201430015

Date of application: 08/01/2014

- **Title:** Modelo animal de déficit cognitivo, procedimiento de obtención y aplicaciones Alzheimer.

Inventors: Eva M^a Carro Díaz, Desiré 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 M^a Hernández Martín, Gorka Orive Arroyo, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva M^a Carro Díaz, José Luis Pedraz Muñoz.

Owners: Universidad del País Vasco, Fundación para la Investigación Biomédica del Hospital I2 de Octubre, Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED).

International Publication No.: WO/2010/010223

International Publication Date: 01/28/2010

International Application No.: PCT/ES2009/070309

International Presentation Date: 07/23/2009

National Application No.: P200802217 (ES)

Priority Date: 24/07/2008 (ES)

- **Title:** Method for Treating Neurodegenerative Diseases (EN).

Inventors: Gorka Orive Arroyo, Rosa M^a Hernández Martín, Carlos Spuch Calvar, Desireé Antequera Tienda, Félix Bermejo Pareja, Eva M^a Carro Díaz, José Luis Pedraz Muñoz.

Owners: Universidad del País Vasco (33%), Fundación para la Investigación Biomédica del Hospital I2 de Octubre (33%), Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas (CIBERNED) (33%).

International Publication No.: WO/2010/089442

International Publication No.: I2/08/2010

International Application Date: PCT/ES2010/070059

International Presentation Date: 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 I2 de Octubre (20%), Fundación CIEN (5%).

Application No.: P201131370

Priority Date: 08/08/2011

PCT Extension Application No.: PCT/ES2012/070613

Date of Application: 07/08/2012

European Patent Application No.: EP20120382330

Date of Application: 07/08/2012

- **Title:** Modelo animal de déficit cognitivo. Procedimiento de obtención y aplicaciones.

Inventors: Eva M^a Carro Díaz, Desireé Antequera Tienda, Consuelo Pascual Pérez.

Owners: Fundación para la Investigación Biomédica del Hospital I2 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

TRANSLATIONAL PSYCHIATRY



GROUP DIRECTOR

Leza Cerro, Juan Carlos
Agüera Ortiz, Luis Fernando

Angora Cañego, Ricardo
Caso Fernández, Javier
Castillo García, Isabel M^a
Espejo-Saavedra Roca, Juan Manuel
García Bueno, Borja
González Ris, Álvaro

González Prieto, Marta
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Holgado Madera, Pedro Manuel
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López Fuentetaja, Ana M^a
López Gutierrez, Irene

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Navío Acosta, Mercedes

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Robledo Montaña, Javier
Sanz Fuentenebro, Francisco
Javier
Sayd Gaban, Aline
Villalba Borruel, Antonio Miguel

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL I2 DE OCTUBRE (FIBHI2O)

- **Title:** Origen y consecuencias de la inflamación en fases tempranas de psicosis. Un estudio traslacional.

Principal Investigator: Juan Carlos Leza Cerro

Project Number: SAF 2016/75500-R

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/12/2016

End date: 31/12/2019

- **Title:** Activación del sistema inmune innato en el síndrome de Wernicke-Korsakoff.

Principal Investigator: Borja García Bueno

Project No.: PR26/16-IIB-2

Funding Body: Proyectos de Investigación Santander Universidad Complutense de Madrid 2016

Start date: 22/12/2016

End date: 21/12/2018

- **Title:** SALUD Exploración de las alteraciones de la conectividad cerebral para una nueva tipificación de la Esquizofrenia.

Principal Investigator: Vicente Molina Rodríguez

Project Number: PI015/00299

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2016

End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	14	60.781
Reviews	2	4.494
TOTAL	16	65.275

- Garcia-Alvarez L, Caso JR, Garcia-Portilla MP, de la Fuente-Tomas L, Gonzalez-Blanco L, Sáiz Martínez P, Leza JC, Bobes J. Regulation of inflammatory pathways in schizophrenia: A comparative study with bipolar disorder

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- and healthy controls. *European Psychiatry*. 2018;47:50-9. IF: 4.129 - Article.
- Juncal-Ruiz M, Riesco-Davila L, de la Foz VOG, Ramirez-Bonilla M, Martinez-Garcia O, Irure-Ventura J, Leza JC, Lopez-Hoyos M, Crespo-Facorro B. The effect of excess weight on circulating inflammatory cytokines in drug-naïve first-episode psychosis individuals. *Journal of Neuroinflammation*. 2018;15(1):63. IF: 5.193 - Article.
 - Lopez-Anton R, Barrada JR, Santabarbara J, Posadas-de Miguel M, Aguera L, Burillo C, Franco M, Lopez-Alvarez J, Mesa P, Petidier R, Quintanilla MA, Robles-del Olmo B, Ventura T, Semrau M, Sartorius N, Lobo A; and the members of the IDEAL Spanish Working Group. Reliability and validity of the Spanish version of the IDEAL Schedule for assessing care needs in dementia: Cross-sectional, multicenter study. *International Journal of Geriatric Psychiatry*. 2018;33(3):482-8. IF: 2.940 - Article.
 - Barcones MMF, MacDowell KS, García Bueno B, Bioque M, Gutiérrez-Galve L, González Pinto A, Parellada MJ, Bobes J, Bernardo M, Lobo A, Leza JC; FLAMM-PEPs study, Centro de Investigación Biomédica en Red de Salud Mental (CIBERSAM), Spain. Cardiovascular Risk in Early Psychosis: Relationship with Inflammation and Clinical Features 6 Months after Diagnosis. *International Journal of Neuropsychopharmacology*. 2018;21(5):410-22. IF: 3.981 - Article.
 - Kalinin S, González-Prieto M, Scheiblich H, Lisi L, Kusumo H, Heneka MT, Madrigal JLM, Pandey SC, Feinstein DL. Transcriptome analysis of alcohol-treated microglia reveals downregulation of beta amyloid phagocytosis. *Journal of Neuroinflammation*. 2018;15(1):141. IF: 5.193 - Article.
 - Gutierrez IL, Gonzalez-Prieto M, Garcia-Bueno B, Caso JR, Leza JC, Madrigal JLM. Alternative Method to Detect Neuronal Degeneration and Amyloid beta Accumulation in Free-Floating Brain Sections With Fluoro-Jade. *ASN Neuro*. 2018;10:i1759091418784357. IF: 3.617 - Article.
 - Orio L, Antón M, Rodríguez-Rojo IC, Correas Á, García-Bueno B, Corral M, de Fonseca FR, García-Moreno LM, Maestú F, Cadaveira F. Young alcohol binge drinkers have elevated blood endotoxin, peripheral inflammation and low cortisol levels: neuropsychological correlations in women. *Addiction Biology*. 2018;23(5):1130-44. IF: 5.578 - Article.
 - Bozano I, Ramos A, Lopez-Alvarez J, Mendoza-Rebolledo C, Osa-Ruiz E, Rodriguez I, Perez A, Alfayate E, Gonzalez

- B, Fernandez L, Aguera-Ortiz L, Rabano A, Olazaran J. Cerebral Microbleeds in Advanced Dementia: Clinical and Pathological Correlates. *American Journal of Alzheimers Disease and Other Dementias*. 2018;33(6):362-72. IF: 1.602 - Article.
- Martin-Hernandez D, Caso JR, Javier Meana J, Callado LF, Madrigal JLM, Garcia-Bueno B, Leza JC. Intracellular inflammatory and antioxidant pathways in postmortem frontal cortex of subjects with major depression: effect of antidepressants. *Journal of Neuroinflammation*. 2018;15(1):251. IF: 5.193 - Article.
- Gutierrez IL, Gonzalez-Prieto M, Garcia-Bueno B, Caso JR, Feinstein DL, Madrigal JLM. CCL2 Induces the Production of beta 2 Adrenergic Receptors and Modifies Astrocytic Responses to Noradrenaline. *Molecular Neurobiology*. 2018;55(10):7872-85. IF: 5.076 - Article.
- Robert P, Lanctot KL, Aguera-Ortiz L, Aalten P, Bremond F, Defrancesco M, Hanon C, David R, Dubois B, Dujardin K, Husain M, Konig A, Levy R, Mantua V, Meulien D, Miller D, Moebius HJ, Rasmussen J, Robert G, Ruthirakhuhan M, Stella F, Yesavage J, Zeghari R, Manera V. Is it time to revise the diagnostic criteria for apathy in brain disorders? The 2018 international consensus group. *European Psychiatry*. 2018;54:71-6. IF: 4.129 - Article.
- Novaes LS, Dos Santos NB, Dragunas G, Perfetto JG, Leza JC, Scavone C, Munhoz CD. Repeated Restraint Stress Decreases Na,K-ATPase Activity via Oxidative and Nitrosative Damage in the Frontal Cortex of Rats. *Neuroscience*. 2018;393:273-83. IF: 3.382 - Article.
- Juncal-Ruiz M, Riesco-Davila L, Ortiz-Garcia de la Foz V, Martinez-Garcia O, Ramirez-Bonilla M, Ocejo-Vinals JG, Leza JC, Lopez-Hoyos M, Crespo-Facorro B. Comparison of the anti-inflammatory effect of aripiprazole and risperidone in 75 drug-naïve first episode psychosis individuals: A3 months randomized study. *Schizophrenia Research*. 2018;202:226-33. IF: 3.958 - Article.
- Antón M, Rodríguez-González A, Ballesta A, González N, Del Pozo A, de Fonseca FR, Gómez-Lus ML, Leza JC, García-Bueno B, Caso JR, Orio L. Alcohol binge disrupts the rat intestinal barrier: the partial protective role of oleoylethanolamide. *British Journal of Pharmacology*. 2018;175(24):4464-79. IF: 6.810 - Article.
- Sanz-Fuentenebro FJ. Stimulus characteristics in electro-convulsive therapy. A pragmatic review. *Revista de Psiquiatria y Salud Mental*. 2018;11(1):36-47. IF: 2.233 - Review.

- Fischer CE, Agüera-Ortiz L. Psychosis and dementia: risk factor, prodrome, or cause? *International Psychogeriatrics*. 2018;30(2):209-19. IF: 2.261 - Review.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Aline Sayd Gabán
Title: Estudio del papel regulador de los macrófagos perivasculares en modelos animales de activación inmune en sistema nervioso central (SNC)
Director/s: Juan Carlos Leza Cerro, Borja García-Bueno, Laura Orío Ortiz
Date Defended: 17/12/2018
University: Universidad Complutense de Madrid

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 para la Investigación Biomédica del Hospital 12 de Octubre (20%), UCM (80%).
Date of application: 12/12/2018

NEUROTRAUMATOLOGY AND SUBARACHNOID HEMORRHAGE



GROUP DIRECTOR

Lagares Gómez-Abascal, Alfonso

Castaño León, Ana M^a
Fernández Alén, José Antonio
Gómez López, Pedro Antonio
Martín Munárriz, Pablo

Navarro Main, Blanca
Paredes Sansinenea, Igor
Sánchez Carabias, M^a Cristina

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	2
Competitive	Atresmedia Corporación	1
TOTAL		3

• **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.: PII6/01939

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2017

End date: 31/12/2019

• **Title:** Valor de nuevos marcadores pronósticos en el traumatismo craneoencefálico: volumetría en TC, RM craneal y técnicas avanzadas (difusión y tractografía) y marcadores biológicos.

Principal Investigator: Alfonso Lagares Gómez-Abascal

Project No.: PII4/01457

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2015

End date: 31/12/2017, extended to 31/12/2018

- Huijben JA, Volovici V, Cnossen MC, Haitsma IK, Stocchetti N, Maas AIR, Menon DK, Ercole A, Citerio G, Nelson D, Polinder S, Steyerberg EW, Lingsma HF, van der Jagt M; CENTER-TBI investigators and participants. Variation in general supportive and preventive intensive care management of traumatic brain injury: a survey in 66 neurotrauma centers participating in the Collaborative European NeuroTrauma Effectiveness Research in Traumatic Brain Injury (CENTER-TBI) study. *Critical Care*. 2018;22(1):90. IF: 6.425 - Article.
- Castano-Leon AM, Cicuendez M, Navarro B, Munarriz PM, Cepeda S, Paredes I, Hilario A, Ramos A, Gomez PA, Lagares A. What Can Be Learned from Diffusion Tensor Imaging from a Large Traumatic Brain Injury Cohort?: White Matter Integrity and Its Relationship with Outcome. *Journal of Neurotrauma*. 2018;35(20):2365-76. IF: 5.002 - Article.
- van Veen E, van der Jagt M, Cnossen MC, Maas AIR, de Beaufort ID, Menon DK, Citerio G, Stocchetti N, Rietdijk WJR, van Dijck JTJM, Kompanje EJO; CENTER-TBI investigators and participants. Brain death and postmortem organ donation: report of a questionnaire from the CENTER-TBI study. *Critical Care*. 2018;22(1):306. IF: 6.425 - Article.

PRIZES AND AWARDS

- Dr. Pedro Mata 2018 Award, awarded by the Sociedad Madrileña de Neurocirugía, work entitled: El uso de la secuencia tensor de difusión como herramienta pronóstica en los pacientes con TCE grave y moderado.
- First Accesit Prize Dr. Pedro Mata 2018, awarded by the Sociedad Madrileña de Neurocirugía, work entitled: Volumetría de la HSA y su relación con el pronóstico.

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	7	21,932
TOTAL	7	21.932

- Navarro-Main B, Castaño-León AM, Munarriz PM, Gomez PA, Rios-Lago M, Lagares A. Brain injury knowledge in family members of neurosurgical patients. *Neurocirugia*. 2018;29(1):1-8. IF: 0.310 - Article.
- Munarriz PM, Paredes I, Alen JF, Castaño-Leon AM, Cepeda S, Hernandez-Lain A, Lagares A. Assessment of the correlation between histological degeneration and radiological and clinical parameters in a series of patients who underwent lumbar disc herniation surgery. *Neurocirugia*. 2018;29(2):79-85. IF: 0.310 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ADDICTIONS AND COMORBIDITY



GROUP DIRECTORS

Rubio Valladolid, Gabriel
Colado Megía, Mª Isabel

Abuín Martínez, Cristina	Gómez Núñez, Mª del Carmen
Arias Horcajadas, Francisco	Gutiérrez López, Mª Dolores
Gil de Biedma Elduayen, Leticia	Jurado Barba, Mª Rosa
Giménez Gómez, Pablo	López Muñoz, Francisco

Marín Mayor, Marta	Pérez Hernández, Mercedes
Martínez Maldonado, Andrés	Prieto Valverde, Raquel
Morales Puerto, Nuria	Sion, Ana Mª Alexandra
O'Shea Gaya, Esther	Vidal Casado, Rebeca

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	1
Competitive	MSSSI	1
TOTAL		2

- **Title:** Nuevas estrategias terapéuticas para el tratamiento de los trastornos por uso de alcohol.
Principal Investigator: Gabriel Rubio Valladolid
Project No.: PI15/00463
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018
- **Title:** Nuevas estrategias terapéuticas para mejorar el control inhibitorio de pacientes dependientes del alcohol que han sufrido experiencias traumáticas durante la adolescencia.
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad (MSSSI)
Start date: 01/01/2016
End date: 30/11/2018

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

- **Title:** Incremento de los niveles cerebrales de ácido kinurénico como estrategia terapéutica en el abuso y la dependencia de alcohol: implicación de los AhR.
Principal Investigator: Mª Isabel Colado Megía, Mª Esther O'Shea Gaya
Project No.: SAF2016-78864-R
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Start date: 01/02/2017
End date: 31/12/2019
- **Title:** Implicación de la vía kinurenina en la disrupción de la barrera hematoencefálica y su relevancia en el consumo y efectos reforzantes del etanol.
Principal Investigator: Mª Isabel Colado Megía
Funding Body: Ministerio de Sanidad, Servicios Sociales e Igualdad. Plan Nacional sobre Drogas
Start date: 01/02/2015
End date: 31/01/2018

- **Title:** Implicación del AhR en la disfunción cognitiva inducida por el consumo intensivo (binge) de etanol.
Principal Investigator: Mª Esther O'Shea Gaya
Project No.: Q28180141
Funding Body: MSPSI Ministerio de Sanidad Consumo y Bienestar Social (PNSD2017-017)
Start date: 01/09/2017
End date: 30/09/2020

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	13	39.139
Reviews	1	3.687
TOTAL	14	42.826
Letters	1	3.495
TOTAL	15	46.321

- Rubio G, Marin M, Arias F, Lopez-Trabada JR, Iribarren M, Alfonso S, Prieto R, Blanco A, Urosa B, Montes V, Jurado R, Jimenez-Arriero MA, de Fonseca FR. Inclusion of Alcoholic Associations Into a Public Treatment Programme for Alcoholism Improves Outcomes During the Treatment and Continuing Care Period: A 6-Year Experience. *Alcohol and Alcoholism*. 2018;53(1):78-88. IF: 2.368 - Article.
- Aguinagalde B, Aranda JL, Busca P, Martinez I, Royo I, Zabaleta J; Grupo de trabajo de la GPC para el Manejo de Pacientes con Neumotórax espontáneo. SECT Clinical Practice Guideline on the Management of Patients With Spontaneous Pneumothorax. *Cirugía Española*. 2018;96(1):3-11. IF: 0.841 - Article.
- Garcia-Marchena N, Ladron de Guevara-Miranda D, Pedraz M, Araos PF, Rubio G, Ruiz JJ, Pavon FJ, Serrano A, Castilla-Ortega E, Santin LJ, Rodriguez de Fonseca F. Higher Impulsivity As a Distinctive Trait of Severe Cocaine Addiction among Individuals Treated for Cocaine or Alcohol Use Disorders. *Frontiers in Psychiatry*. 2018;9:26. IF: 2.857 - Article.
- Sanvisens A, Zuluaga P, Rivas I, Rubio G, Gual A, Torrens M, Short A, Alvarez FJ, Tor J, Farre M, de Fonseca FR, Muga R; CohRTA. Patients with alcohol use disorder: initial results from a prospective multicenter registry in the Spanish Network on Addiction Disorders. *CohRTA Study. Adicciones*. 2018;30(4):292-9. IF: 2.021 - Article.
- Lopez-Rodriguez JA, Valladolid GR. Web-Based Alcohol, Smoking, and Substance Involvement Screening Test Results for the General Spanish Population: Cross-Sectional Study. *Journal of Medical Internet Research*. 2018;20(2):e57. IF: 4.671 - Article.
- Gimenez-Gomez P, Perez-Hernandez M, Gutierrez-Lopez MD, Vidal R, Abuin-Martinez C, O'Shea E, Colado MI. Increasing kynurenone brain levels reduces ethanol consumption in mice by inhibiting dopamine release in nucleus accumbens. *Neuropharmacology*. 2018;135:581-91. IF: 4.249 - Article.
- Fernandez A, Al-Timemy AH, Ferre F, Rubio G, Escudero J. Complexity analysis of spontaneous brain activity in mood disorders: A magnetoencephalography study of bipolar disorder and major depression. *Comprehensive Psychiatry*. 2018;84:112-7. IF: 2.128 - Article.
- Bautista-Aguilera OM, Budni J, Mina F, Medeiros EB, Deuther-Conrad W, Entrena JM, Moraleda I, Iriepa I, Lopez-Munoz F, Marco-Contelles J. Contilisant, a Tetratarget Small Molecule for Alzheimer's Disease Therapy Combining Cholinesterase, Monoamine Oxidase Inhibition, and H3R Antagonism with SIR Agonism Profile. *Journal of Medicinal Chemistry*. 2018;61(15):6937-43. IF: 6.253 - Article.
- Ramos E, Romero A, Marco-Contelles J, Lopez-Munoz F, Del Pino J. Modulation of Heat Shock Response Proteins by ASS234. Targeted for Neurodegenerative Diseases Therapy. *Chemical Research in Toxicology*. 2018;31(9):839-42. IF: 3.432 - Article.
- Ramos E, Patino P, Reiter RJ, Gil-Martin E, Lopez-Munoz F, Romero A. Melatonin: A hypothesis for Kawasaki disease treatment. *Medical Hypotheses*. 2018;119:6-10. IF: 1.120 - Article.
- Dominguez-Centeno I, Jurado-Barba R, Sion A, Martinez-Maldonado A, Castillo-Parra G, Lopez-Munoz F, Rubio G, Martinez-Gras I. P3 Component as a Potential Endophenotype for Control Inhibition in Offspring of Alcoholics. *Alcohol and Alcoholism*. 2018;53(6):699-706. IF: 2.368 - Article.
- Del Pino J, Marco-Contelles J, Lopez-Munoz F, Romero A, Ramos E. Neuroinflammation Signaling Modulated by

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

ASS234. a Multitarget Small Molecule for Alzheimer's Disease Therapy. *ACS Chemical Neuroscience*. 2018; 9(12):2880-5. IF: 4.211 - Article.

• Okoroiwu HU, Lopez-Munoz F, Povedano-Montero FJ. Bibliometric analysis of global Lassa fever research (1970-2017): a 47-year study. *BMC Infectious Diseases*. 2018;18(1):639. IF: 2.620 - Article.

• Lopez-Munoz F, Povedano-Montero FJ, Chee KY, Shen WW, Fernandez-Martin P, Garcia-Pacios J, Rubio G, Alamo C. A Bibliometric Analysis of Scientific Production on Second-Generation Anti-Psychotic Drugs in Malaysia. *Malaysian Journal of Medical Sciences*. 2018;25(3):40-55. IF: N/A - Article.

• Lopez-Munoz F, Shen WW, D'Ocon P, Romero A, Alamo C. A History of the Pharmacological Treatment of Bipolar Disorder. *International Journal of Molecular Sciences*. 2018;19(7):2143. IF: 3.687 - Review.

• Ramos E, Marco-Contelles J, Lopez-Munoz F, Romero A. In silico assessment of the metabolism and its safety significance of multitarget propargylamine ASS234. *CNS Neuroscience & Therapeutics*. 2018;24(10):981-3. IF: 3.495 - Letter.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

• Student: Elena Martínez Arias
Title: Efecto de la vía de la quinurenina sobre la neurotoxicidad inducida por MDMA
Director: Mª Dolores Gutiérrez López, Rebeca Vidal Casado
Master: UCM

• Student: Miguel López Moreno
Title: Estudio de asociación entre las características socio-sanitarias, hábitos dietéticos, actividad física y el estado nutricional, en escolares de la Comunidad de Madrid

Director: Viviana Loria Kohen, Rocío de la Iglesia González, Mª Dolores Gutiérrez López
Master: UCM

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

• Student: Álvaro Tello Fernández
Title: Efecto del etanol sobre la vía de la kinurenina en un modelo de consumo crónico en ratón: papel de la microbiota (trabajo de fin de grado en medicina con nivel de máster)

Director/s: Mª Esther O'Shea Gaya, Rebeca Vidal Casado
Degree: Medicina (UCM)

• Student: Sandra Hermida Vázquez
Title: Efecto del consumo crónico de etanol sobre las enzimas IDO y TDO: papel de la microbiota intestinal

Director/s: Mª Dolores Gutiérrez López, Mercedes Pérez Hernández
Degree: Medicina (UCM)



GROUP DIRECTORS

Lizasoain Hernández, Ignacio
Moro Sánchez, Mª Ángeles

Bravo-Ferrer Álvarez-Sala, Isabel
Castejón Ferrer, David
de la Parra Gonzalo, Juan
Díaz Guzmán, Jaime
Durán Laforet, Violeta

Fernández Valle, Encarnación
García Biro, Lidia
García Culebras, Alicia
García Segura, Juan Manuel
Gómez Díaz, Diana

Hurtado Moreno, Olivia
López Polo, Vanessa
Medina Alonso, Violeta
Ostos Moliz, Fernando
Peña Martínez, Carolina

Pérez Ruiz, Alberto
Pradillo Justo, Jesús Miguel
Torres López, Cristina

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of PROJECTS
Competitive	ISCIII	I
	TOTAL	I

• 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.: PII7/01601
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2018
End date: 31/12/2020

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBH12O)

• Title: Desarrollo preclínico de una molécula basada en tecnología de aptámeros específica de TLR-4 y de aplicación en Ictus Agudo y Enfermedades Cardiovasculares (Infarto de Miocardio).

Principal Investigator: Ignacio Lizasoain Hernández, Mª Ángeles Moro Sánchez

Project No.: RTC2015-3741-I

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Start date: 01/03/2015

End date: 31/12/2017

• 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

• 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: Análisis de la ventana terapéutica del ApToLL en un modelo de isquemia cerebral focal transitoria (MCAO).

Principal Investigator: Ignacio Lizasoain Hernández

Funding Body: Aptatargets, S.L.

Start date: 27/11/2017

End date: 30/04/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	6	30.367
Reviews	1	6.045
TOTAL	7	36.412

- Sanchez-Cruz A, Villarejo-Zori B, Marchena M, Zaldivar-Diez J, Palomo V, Gil C, Lizasoain I, de la Villa P, Martinez A, de la Rosa EJ, Hernandez-Sanchez C. Modulation of GSK-3 provides cellular and functional neuroprotection in the rd10 mouse model of retinitis pigmentosa. *Molecular Neurodegeneration*. 2018;13(1):19. IF: 6.426 - Article.
- DeGregorio-Rocasolano N, Marti-Sistac O, Ponce J, Castello-Ruiz M, Millan M, Guirao V, Garcia-Yebenes I, Salom JB, Ramos-Cabrera P, Alborch E, Lizasoain I, Castillo J, Davalos A, Gasull T. Iron-loaded transferrin (Tf) is detrimental whereas iron-free Tf confers protection against brain ischemia by modifying blood Tf saturation and subsequent neuronal damage. *Redox Biology*. 2018;15:143-58. IF: 7.126 - Article.
- Henderson F, Hart PJ, Pradillo JM, Kassiou M, Christie L, Williams KJ, Boutin H, McMahon A. Multi-modal imaging of long-term recovery post-stroke by positron emission tomography and matrix-assisted laser desorption/ionisation mass spectrometry. *Rapid Communications in Mass Spectrometry*. 2018;32(9):721-9. IF: 1.970 - Article.
- Fernandez G, Moraga A, Cuartero MI, Garcia-Culebras A, Pena-Martinez C, Pradillo JM, Hernandez-Jimenez M, Sacristan S, Ayuso MI, Gonzalo-Gobernado R, Fernandez-Lopez D, Martin ME, Moro MA, Gonzalez VM, Lizasoain I. TLR4-Binding DNA Aptamers Show a Protective Effect against Acute Stroke in Animal Models. *Molecular Therapy*. 2018;26(8):2047-59. IF: 7.008 - Article.
- Garcia-Yebenes I, Garcia-Culebras A, Pena-Martinez C, Fernandez-Lopez D, Diaz-Guzman J, Negredo P, Avendano C, Castellanos M, Gasull T, Davalos A, Moro MA, Lizasoain I. Iron Overload Exacerbates the Risk of Hemorrhagic Transformation After tPA (Tissue-Type Plasminogen Activator) Administration in Thromboembolic Stroke Mice. *Stroke*. 2018;49(9):2163-72. IF: 6.239 - Article.
- Rodriguez-Lopez C, Marco FB, Guzman JD. Prognosis of Tandem Occlusions versus Isolated Intracranial

Occlusions. *Journal of Stroke & Cerebrovascular Diseases*. 2018;27(12):3652-6. IF: 1.598 - Article.

- de la Parra J, Cuartero MI, Perez-Ruiz A, Garcia-Culebras A, Martin R, Sanchez-Prieto J, Garcia-Segura JM, Lizasoain I, Moro MA. AhR Deletion Promotes Aberrant Morphogenesis and Synaptic Activity of Adult-Generated Granule Neurons and Impairs Hippocampus-Dependent Memory. *eNeuro*. 2018;5(4):UNSP e0370-17.2018. IF: N/A - Article.

- Garcia-Culebras A, Duran-Laforet V, Pena-Martinez C, Ballesteros I, Pradillo JM, Diaz-Guzman J, Lizasoain I, Moro MA. Myeloid cells as therapeutic targets in neuroinflammation after stroke: Specific roles of neutrophils and neutrophil-platelet interactions *Journal of Cerebral Blood Flow and Metabolism*. 2018;38(12):2150-64. IF: 6.045 - Review.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Juan de la Parra Gonzalo
Title: Neurogénesis hipocampal adulta: papel en el deterioro cognitivo post-ictus y estrategias farmacológicas para su modulación
Director/s: Ignacio Lizasoain Hernández, Mª Ángeles Moro Sánchez, Mª Isabel Cuartero Desviat
Date Defended: 28/07/2018
University: Universidad Complutense de Madrid
- Candidate:** Isabel Bravo-Ferrer Álvarez-Sala
Title: Papel del receptor de hidrocarburos aromáticos en el envejecimiento cerebral
Director/s: Mª Ángeles Moro Sánchez, Ignacio Lizasoain Hernández, Mª Isabel Cuartero Desviat
Date Defended: 13/12/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Cristina Torres López
Title: Alteraciones celulares hipocampales post-ictus: posibles mecanismos de regulación de la memoria dependiente de hipocampo
Director/s: Mª Angeles Moro Sánchez, Alicia García Culebras
Master: UCM

PRIZES AND AWARDS

- IV Premios de Transferencia de Tecnología y de Conocimiento UCM.
Type: Excellence in Transfer. First prize: Ignacio Lizasoain Hernández.
- VIII Concurso de Divulgación UCM.
Type: News. First prize: Violeta Medina por "La sal, la enemiga de la memoria".

- Stroke Progress and Innovation Award. Second Place: Iron Overload Exacerbates the Risk of Hemorrhagic Transformation After tPA (Tissue-Type Plasminogen Activator) Administration in Thromboembolic Stroke Mice. Isaac García-Yébenes, Alicia García-Culebras, Carolina Peña-Martínez, David Fernández-López, Jaime Díaz-Guzmán, Pilar Negredo, Carlos Avendaño, Mar Castellanos, Teresa Gasull, Antoni Dávalos, María A. Moro, and Ignacio Lizasoain. *Stroke*. 2018;49:2163-2172.

AREA



TRANSVERSAL

Coordinator: Fernández Martínez, Francisco Javier

RESEARCH ON PHYSICAL ACTIVITY AND HEALTH

REGENERATIVE MEDICINE

MEDICAL CHEMISTRY LABORATORY

HOMEOSTASIS AND THE TISSUE PHYSIOPATHOLOGY OF THE STEM CELLS

RESEARCH ON INTELLIGENT BIOMATERIALS

GENETICS AND INHERITANCE

CARE RESEARCH

126

297

RESEARCH ON PHYSICAL ACTIVITY AND HEALTH



GROUP DIRECTOR

Lucía Mulas, Alejandro

Brea Alejo, Lidia
Fernández Moreno, David
Fuiza Luces, Carmen

Garatachea Vallejo, Nuria
González Saiz, Laura
Pagola Aldazábal, Itziar

Perales Santaella, María
Santalla Hernández, Alfredo
Santana Sosa, Elena

Santos Lozano, Alejandro
Sanz Ayán, Mª Paz

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12O)

- Title:** Atrofia muscular en envejecimiento y patologías neurometabólicas hereditarias: aproximación al diagnóstico e intervención. Parte 3: Vías moleculares implicadas y aproximación terapéutica.
Principal Investigator: Alejandro Lucía Mulas, Miguel Ángel Martín Casanueva
Project No.: PI15/00558
Funding Body: Instituto de Salud Carlos III (ISCIII)
Start date: 01/01/2016
End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. of DOCUMENTS	Σ IF (JCR 2017)
Articles	25	100.151
Reviews	4	37.616
Editorials	1	2.496
TOTAL	30	140.263
Letters	6	140.668
TOTAL	36	280.931

- 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.
- Bacchi M, Mottola MF, Perales M, Refoyo I, Barakat R. Aquatic Activities During Pregnancy Prevent Excessive Maternal Weight Gain and Preserve Birth Weight: A Randomized Clinical Trial. American Journal of Health Promotion. 2018;32(3):729-35. IF: 2.197 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Fiua-Luces C, Santos-Lozano A, Llavero F, Campo R, Nogales-Gadea G, Diez-Bermejo J, Balandrón C, González-Murillo Á, Arenas J, Martín MA, Andreu AL, Pinos T, Galvez BG, Lopez JA, Vazquez J, Zugaza JL, Lucia A. Muscle molecular adaptations to endurance exercise training are conditioned by glycogen availability: a proteomics-based analysis in the McArdle mouse model. *Journal of Physiology-London*. 2018;596(6):1035-61. IF: 4.540 - Article.
- Carrera-Bastos P, Picazo O, Fontes-Villalba M, Pareja-Galeano H, Lindeberg S, Martinez-Selles M, Lucia A, Emanuele E. Serum Zonulin and Endotoxin Levels in Exceptional Longevity versus Precocious Myocardial Infarction. *Aging and Disease*. 2018;9(2):317-21. IF: 5.058 - Article.
- Valenzuela PL, Foster C, Lucía A, de la Villa P. Performance and physiological analysis of 500 km non-stop cycling: a case study. *Research in Sports Medicine*. 2018;26(2):222-9. IF: 1.871 - Article.
- Fiua-Luces C, Diez-Bermejo J, Fernandez-De La Torre M, Rodriguez-Romo G, Sanz-Ayan P, Delmiro A, Munguia-Izquierdo D, Rodriguez-Gomez I, Ara I, Dominguez-Gonzalez C, Arenas J, Martin MA, Lucia A, Moran M. Health Benefits of an Innovative Exercise Program for Mitochondrial Disorders. *Medicine and Science in Sports and Exercise*. 2018;50(6):1142-51. IF: 4.291 - Article.
- Baladrón C, Santos-Lozano A, Aguiar JM, Lucia A, Martín-Hernández J. Tool for filtering PubMed search results by sample size. *Journal of The American Medical Informatics Association*. 2018;25(7):774-9. IF: 4.270 - Article.
- Santos-Lozano A, Ramos J, Alvarez-Bustos A, Cantos B, Alejo LB, Pagola I, Soria A, Maximiano C, Fiua-Luces C, Soares-Miranda L, Lucia A, Ruiz-Casado A. Cardiorespiratory fitness and adiposity in breast cancer survivors: is meeting current physical activity recommendations really enough? *Supportive Care in Cancer*. 2018;26(7):2293-301. IF: 2.676 - Article.
- Valenzuela PL, de Alba A, Pedrero-Chamizo R, Morales JS, Cobo F, Botella A, González-Gross M, Pérez M, Lucia A, Marín-López MT. Intradialytic Exercise: One Size Doesn't Fit All. *Frontiers in Physiology*. 2018;9:844. IF: 3.394 - Article.
- Cedena MT, Rapado I, Santos-Lozano A, Ayala R, Onecha E, Abaigar M, Such E, Ramos F, Cervera J, Diez-Campelo M, Sanz G, Rivas JH, Lucia A, Martinez-Lopez J. Correction: Mutations in the DNA methylation pathway

and number of driver mutations predict response to azacitidine in myelodysplastic syndromes. *Oncotarget*. 2018;9(56):30936. IF: 5.168 - Article.

• Valenzuela PL, Morales JS, Santos-Lozano A, Lucia A. Centenarians breaking records: nature or nurture? Age and Ageing. 2018;47(5):761-2. IF: 4.013 - Article.

• Álvarez C, Ramírez-Vélez R, Ramírez-Campillo R, Ito S, Celis-Morales C, García-Hermoso A, Rodriguez-Mañas L, Lucia A, Izquierdo M. Interindividual responses to different exercise stimuli among insulin-resistant women. *Scandinavian Journal of Medicine & Science in Sports*. 2018;28(9):2052-65. IF: 3.623 - Article.

• Valenzuela PL, Sánchez-Martínez G, Torrontegi E, Montalvo Z, Lucia A, de la Villa P. Enhanced External Counterpulsation and Short-Term Recovery From High-Intensity Interval Training. *International Journal of Sports Physiology and Performance*. 2018;13(8):1100-6. IF: 3.384 - Article.

• Garcia-Consuegra I, Asensio-Peña S, Ballester-Lopez A, Francisco-Velilla R, Pinos T, Pintos-Morell G, Coll-Canti J, Gonzalez-Quintana A, Andreu AL, Arenas J, Lucia A, Nogales-Gadea G, Martin MA. Missense mutations have unexpected consequences: The McArdle disease paradigm. *Human Mutation*. 2018;39(10):1338-43. IF: 5.359 - Article.

• Vicent L, Martinez-Selles H, Ariza-Sole A, Lucia A, Emanuele E, Bayes-Genis A, Fernandez-Aviles F, Martinez-Selles M. A panel of multibiomarkers of inflammation, fibrosis, and catabolism is normal in healthy centenarians but has high values in young patients with myocardial infarction. *Maturitas*. 2018;116:54-8. IF: 3.315 - Article.

• Martín-Hernández J, Santos-Lozano A, Foster C, Lucia A. Syncope Episodes and Blood Flow Restriction Training. *Clinical Journal of Sport Medicine*. 2018;28(6):89-91. IF: 2.224 - Article.

• Buffart LM, Sweegers MG, May AM, Chinapaw MJ, van Vulpen JK, Newton RU, Galvão DA, Aaronson NK, Stuiver MM, Jacobsen PB, Verdonck-de Leeuw IM, Steindorf K, Irwin ML, Hayes S, Griffith KA, Lucia A, Herrero-Roman F, Mesters I, van Weert E, Knoop H, Goedendorp MM, Mutrie N, Daley AJ, McConnachie A, Bohus M, Thorsen L, Schulz KH, Short CE, James EL, Plotnikoff RC, Arbane G, Schmidt ME, Potthoff K, van Beurden M, Oldenburg HS, Sonke GS, van Harten WH, Garrod R, Schmitz KH, Winters-Stone KM, Velthuis MJ, Taaffe DR, van Mechelen W, José Kersten M, Nollet F, Wenzel J, Wiskemann J,

- Brug J, Courneya KS. Targeting Exercise Interventions to Patients With Cancer in Need: An Individual Patient Data Meta-Analysis. *JNCI-Journal of the National Cancer Institute*. 2018;110(11):1190-200. IF: 11.238 - Article.
- Nunez-Manchon J, Ballester-Lopez A, Koehorst E, Linares-Pardo I, Coenen D, Ara I, Rodriguez-Lopez C, Ramos-Fransi A, Martinez-Pineiro A, Luente G, Almendrote M, Coll-Canti J, Pintos-Morell G, Lozano AS, Arenas J, Martin MA, de Castro M, Lucia A, Santalla A, Nogales-Gadea G. Manifesting heterozygotes in McArdle disease: a myth or a realityrole of statins. *Journal of Inherited Metabolic Disease*. 2018;41(6):1027-35. IF: 4.092 - 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. Non-osteogenic muscle hypertrophy in children with McArdle disease. *Journal of Inherited Metabolic Disease*. 2018;41(6):1037-42. IF: 4.092 - Article.
- Boraita A, Santos-Lozano A, Heras ME, Gonzalez-Amigo F, Lopez-Ortiz S, Villacastin JP, Lucia A. Incidence of Atrial Fibrillation in Elite Athletes. *JAMA Cardiology*. 2018;3(12):1200-5. IF: 10.133 - Article.
- He Z, Tian Y, Valenzuela PL, Huang C, Zhao J, Hong P, He Z, Yin S, Lucia A. Myokine Response to High-Intensity Interval vs. Resistance Exercise: An Individual Approach. *Frontiers in Physiology*. 2018;9:1735. IF: 3.394 - Article.
- Morales JS, Padilla JR, Valenzuela PL, Santana-Sosa E, Rincon-Castanedo C, Santos-Lozano A, Herrera-Olivares AM, Madero L, San Juan AF, Fiua-Luces C, Lucia A. Inhospital Exercise Training in Children With Cancer: Does It Work for All? *Frontiers in Pediatrics*. 2018;6:404. IF: 2.335 - Article.
- Valenzuela PL, Morales JS, Foster C, Lucia A, de la Villa P. Is the Functional Threshold Power a Valid Surrogate of the Lactate Threshold? *International Journal of Sports Physiology and Performance*. 2018;13(10):1-6. IF: N/A - Article.
- Valenzuela PL, Morales JS, Pareja-Galeano H, Izquierdo M, Emanuele E, de la Villa P, Lucia A. Physical strategies to prevent disuse-induced functional decline in the elderly. *Ageing Research Reviews*. 2018;47:80-8. IF: 8.973 - Review.
- Valenzuela PL, Morales JS, Pareja-Galeano H, Izquierdo M, Emanuele E, de la Villa P, Lucia A. Physical strategies to prevent disuse-induced functional decline in the elderly. *Ageing Research Reviews*. 2018;47:80-8. IF: 8.973 - Review.
- Morales JS, Valenzuela PL, Rincon-Castanedo C, Takken T, Fiua-Luces C, Santos-Lozano A, Lucia A. Exercise training in childhood cancer: A systematic review and meta-analysis of randomized controlled trials. *Cancer Treatment Reviews*. 2018;70:154-67. IF: 8.122 - Review.
- Fiua-Luces C, Santos-Lozano A, Joyner M, Carrera-Bastos P, Picazo O, Zugaza JL, Izquierdo M, Ruilope LM, Lucia A. Exercise benefits in cardiovascular disease: beyond attenuation of traditional risk factors. *Nature Reviews Cardiology*. 2018;15(12):731-43. IF: 15.162 - Review.
- Houweling PJ, Papadimitriou ID, Seto JT, Perez LM, Coso JD, North KN, Lucia A, Eynon N. Is evolutionary loss our gain? The role of ACTN3 p.Arg577Ter (R577X) genotype in athletic performance, ageing, and disease. *Human Mutation*. 2018;39(12):1774-87. IF: 5.359 - Review.
- Ramos-Fransi A, Martínez-Piñeiro A, Almendrote M, Luente G, Carrato C, Ballester-Lopez A, Lucia A, Pintos-Morell G, Nogales-Gadea G, Coll-Canti J. Myotilinopathy Unmasked by Statin Treatment: A Case Report. *Muscle & Nerve*. 2018;57(6):138-40. IF: 2.496 - Editorial Material.
- Santos-Lozano A, Baladron C, Martin-Hernandez J, Morales JS, Ruilope L, Lucia A. mHealth and the legacy of John Snow. *Lancet*. 2018;391(10129):1479-80. IF: 53.254 - Letter.
- Luente G, Almendrote M, Ramos-Fransi A, Martínez-Piñeiro A, Camano P, Ballester-Lopez A, Lucia A, Carrato C, Nogales-Gadea G, Coll-Canti J. A novel mutation in the valosin-containing-protein gene found in a Spanish family. *Journal of The Neurological Sciences*. 2018;391:112-3. IF: 2.448 - Letter.
- Valenzuela PL, Morales JS, Santos-Lozano A, Serra-Rexach JA, Izquierdo M, Lucia A. mHealth and Aging. *Journal of The American Medical Directors Association*. 2018;19(9):810-1. IF: 5.325 - Letter.
- Valenzuela PL, Morales JS, Santos-Lozano A, Lucia A. Should exceptional medical conditions be banned in sports? *Lancet Diabetes & Endocrinology*. 2018;6(9):687-8. IF: 19.313 - Letter.
- Valenzuela PL, Morales JS, de la Villa P, Lucia A. Comment on: Drinking Strategies: Planned Drinking versus Drinking to Thirst. *Sports Medicine*. 2018;48(9):2211-3. IF: 7.074 - Letter.
- Valenzuela PL, Santos-Lozano A, Morales JS, Drobnić F, Lucia A. Free to breathe hard in the Tour de France. *Lancet*. 2018;392(10153):1114-5. IF: 53.254 - Letter.

REGENERATIVE MEDICINE



GROUP DIRECTOR

Flores de la Cal, Ana Isabel

Alcázar Garrido, Álvaro
de la Torre Merino, Mª Paz
García García-Porrero, Alicia

Grande García, Jesús Alfredo
Gutiérrez Vélez, Mª del Carmen
Masero Casasola, Ana Rosa

Mejía Nieto, María
Merino Domingo, Francisco Javier
Muñoz Galligo, Eloy

Ortiz Reina, José Antonio
Pérez Lorenzo, Mª Jesús
Vielsa Gordillo, Isabel Mª

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. OF PROJECTS
Competitive	ISCIII	1
TOTAL		1

• **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

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12O)

• **Title:** Mecanismos celulares y moleculares para los efectos antiinflamatorios 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)

Start date: 01/01/2018

End date: 31/12/2020

• **Title:** Terapia génica "ex vivo" para hemofilia mediante vectores no virales en células madre adultas mesenquimales de tejido adiposo.

Principal Investigator: Antonio Liras Martín

Funding Body: Baxter BioScience (Holanda), Universidad Complutense de Madrid

Start date: 2008

End date: 2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	2	6.659
TOTAL	2	6.659

- Serrano LJ, Canete A, Garcia-Leal T, Tomas-Gallardo L, Flores Al, de la Torre P, Liras A, Sanchez MJ. Searching for a Cell-Based Therapeutic Tool for Haemophilia A within the Embryonic/Foetal Liver and the Aorta-Gonads-Mesonephros Region. Thrombosis and Haemostasis. 2018; 118(8):1370-81. IF: 4.952 - Article.

- Polo R, Palacios R, Andreu A, Blanco BJL, Blanco JR, Camino X, Castillo O, Curran A, del Romero J, Diaz A, Fernandez C, Gil L, Tome MG, Hidalgo C, de Munain JL, Margall N, Navarro M, Otero L, Perez-Molina JA, Prieto L, Munoz E, Puerta T, Pueyo I, Vall M, Vazquez F, Viciana P, Vinuela MC, Barbera MJ; AIDS Study Grp GESIDA, Natl AIDS Plan, STI Study Grp SEIMC GEITS, Spanish Acad Dermatology, Spanish Soc Pediat Infect SEIP. Consensus document on the diagnosis and treatment of sexually transmitted diseases in adults, children and adolescents. Enfermedades Infecciosas y Microbiología Clínica. 2018; 36(9):576-85. IF: 1.707 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

MEDICAL CHEMISTRY LABORATORY



Algar Lizana, Sergio
Benhamú Salama, Bellinda
Canales Mayordomo, Mª Ángeles
Escobar Peña, Ana Andrea

Gil Ordóñez, Ana
Khiar Fernández, Nora
Marcos Ramiro, Beatriz
Martín-Fontecha Corrales, Mª del Mar

Mayo Mariscal de Gante, Paloma Pilar
Ortega Gutiérrez, Silvia
Vázquez Villa, Mª del Henar

ACTIVE PROJECTS OF THE RESEARCH

GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12O)

- Title:** Nuevas estrategias terapéuticas dirigidas al desarrollo de tratamientos eficaces para enfermedades de alta incidencia.

Principal Investigator: Mª Luz López Rodríguez

Funding Body: Ministerio de Economía y Competitividad (MINECO)

Project No.: SAF2016-78792-R

Start date: 01/01/2017

End date: 31/12/2019

- Title:** New isoprenylcysteine carboxylmethyltransferase (ICMT) inhibitors for the treatment of progeria.

Principal Investigator: Silvia Ortega Gutiérrez

Funding Body: Progeria Research Foundation, USA

Start date: 01/01/2017

End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	4	17.572
Reviews	1	4.235
TOTAL	5	21.807

- Camicia F, Celentano AM, Johns ME, Chan JD, Maldonado L, Vaca H, Di Siervi N, Kamenzky L, Gamo AM, Ortega-Gutierrez S, Martin-Fontecha M, Davio C, Marchant JS, Rosenzvit MC. Unique pharmacological properties of serotoninergic G-protein coupled receptors from cestodes. *PLoS Neglected Tropical Diseases*. 2018; 12(2):e0006267. IF: 4.367 - Article.
- Martin-Fontecha M, Angelina A, Ruckert B, Rueda-Zubiaurre A, Martin-Cruz L, van de Veen W, Akdis M, Ortega-Gutierrez S, Lopez-Rodriguez ML, Akdis CA, Palomares O. A Fluorescent Probe to Unravel Functional Features of Cannabinoid Receptor CB1 in Human Blood and Tonsil Immune System Cells. *Bioconjugate Chemistry*. 2018;29(2):382-9. IF: 4.485 - Article.

- Hernández-Torres G, Enríquez-Palacios E, Mecha M, Feliú A, Rueda-Zubiaurre A, Angelina A, Martín-Cruz L, Martín-Fontecha M, Palomares O, Guaza C, Peña-Cabrera E, López-Rodríguez ML, Ortega-Gutiérrez S. Development of a Fluorescent Bodipy Probe for Visualization of the Serotonin 5-H T-IA Receptor in Native Cells of the Immune System. *Bioconjugate Chemistry*. 2018;29(6):2021-7. IF: 4.485 - Article.

- Manterola A, Bernal-Chico A, Cipriani R, Canedo-Antelo M, Moreno-García Á, Martín-Fontecha M, Pérez-Cerdá F, Sánchez-Gómez MV, Ortega-Gutiérrez S, Brown JM, Hsu KL, Cravatt B, Matute C, Mato S. Deregulation of the endocannabinoid system and therapeutic potential of ABHD6 blockade in the cuprizone model of demyelination. *Biochemical Pharmacology*. 2018;157:189-201. IF: 4.235 - Article.

- Gil-Ordóñez A, Martín-Fontecha M, Ortega-Gutiérrez S, López-Rodríguez ML. Monoacylglycerol lipase (MAGL) as a promising therapeutic target. *Biochemical Pharmacology*. 2018;157:18-32. IF: 4.235 - Review.

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Irene Morín Molina
Title: Síntesis de nuevas moléculas inspiradas en los metabolitos de la microbiota para la búsqueda de fenotipos de interés
Director: Bellinda Benjamú Salama
Degree: Químicas (UCM)

PATENTS

- Title:** Novel biphenylsulfoximines as allosteric modulators of the dopamine D1 receptor.
Authors: Mª Luz López-Rodríguez, Bellinda Benjamú Salama, Mª del Henar Vázquez Villa, Javier García Cáceres, Fernando Rodríguez de Fonseca, José Manuel Brea Floriani, Mª Isabel Loza García.
Owner: Universidad Complutense de Madrid y Universidad de Santiago.
Reference: EP 17382372.
Priority Country: Europa.
Application date: 19/06/2017

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Adrián Luguera Ruiz
Title: Desarrollo de conjugados fármaco-anticuerpo como agentes antituberculosos
Director: Mª Luz López Rodríguez, Mar Martín-Fontecha Corrales
Master: Química Orgánica (UCM)
- Student:** Antonio de los Ríos Pinilla
Title: Identification of metabolites produced by the human microbiota
Director: Mª Luz López Rodríguez, Silvia Ortega Gutiérrez
Master: UCM

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

HOMEOSTASIS AND THE TISSUE PHYSIOPATHOLOGY OF THE STEM CELLS



GROUP DIRECTOR

González Gálvez, Beatriz

de Lucas Moreno, Beatriz
Martín Pérez, Laura

Pareja Galeano, Helios

ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL I2 DE OCTUBRE (FIBHI2O)

- Title:** Desarrollo del uso de ultrasonidos pulsados para mejorar la capacidad regenerativa de las células madre cardíacas.

Principal Investigator: Beatriz González Gálvez
Funding Body: Ministerio de Economía y Competitividad (MINECO)

Project No.: SAF2015-67911
Start date: 01/01/2016
End date: 31/12/2018

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	2	9.598
Reviews	4	24.134
TOTAL	6	33.732

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

Ageing Research Reviews. 2018;47:80-8. IF: 8.973 - Review.

- Houweling PJ, Papadimitriou ID, Seto JT, Perez LM, Coso JD, North KN, Lucia A, Eynon N. Is evolutionary loss our gain? The role of ACTN3 p.Arg577Ter (R577X) genotype in athletic performance, ageing, and disease. Human Mutation. 2018;39(12):1774-87. IF: 5.359 - Review.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate:** Beatriz de Lucas Moreno
Title: Caracterización del uso de ultrasonidos en la piel
Director/s: Beatriz González Galvez
Date Defended: 01/09/2018
University: Universidad Europea

RESEARCH ON INTELLIGENT BIOMATERIALS



GROUP DIRECTOR

Vallet Regí, María

Aguilar Colomer, Anna
Alvarez Corchado, Elena
Arcos Navarrete, Daniel
Baeza García, Alejandro
Cabañas Criado, Mª Victoria
Castillo Romero, Rafael
Colilla Nieto, Montserrat

Doadrio Villarejo, Antonio Luis
Doadrio Villarejo, Juan Carlos
García Fontecha, Ana
Gisbert Garzaran, Miguel
González Ortiz, Blanca
Heras Rubio, Clara
Izquierdo Barba, Isabel

Jimenez Holguin, Javier
Lozano Borregón, Daniel
Manzano García, Miguel
Martínez Carmona, Marina
Mora Raimundo, Patricia
Moreno Zafra, Víctor Manuel
París Fernández de la Puente,

Juan Luis
Peña López, Juan
Román Zaragoza, Jesús
Salinas Sánchez, Antonio Jesús
Sánchez Salcedo, Sandra
Villaverde Cantizano, Gonzalo
Villegas Díaz, Mª Rocío

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 31/12/2019

OTHER ACTIVE PROJECTS OF THE RESEARCH GROUP NOT MANAGED BY FUNDACIÓN PARA LA INVESTIGACIÓN BIOMÉDICA DEL HOSPITAL 12 DE OCTUBRE (FIBHI12O)

• **Title:** MesOporous matrices for localized pH-triggered release of therapeutic ions and drugs (MOZART).
Body: 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: 31/12/2018

• **Title:** PolyValent mEsopoRous 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, Mª 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:** Exploración de la porosidad en Nanopartículas de oro (EXPLORAORO).
Principal Investigator: Miguel Manzano García
Funding Body: Ministerio de Economía y Competitividad (MINECO)
Project No.: PIAI42015-I
Start date: 01/05/2017
End date: 30/04/2018

PUBLICATIONS*

TYPE OF DOCUMENT	No. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	30	147.175
Reviews	6	19.595
Editorials	1	6.735
TOTAL	37	173.505

• Martínez-Carmona M, Lozano D, Colilla M, Vallet-Regí M. Lectin-conjugated pH-responsive mesoporous silica nanoparticles for targeted bone cancer treatment. *Acta Biomaterialia*. 2018;65:393-404. IF: 6.383 - Article.

• Cicuéndez M, Doadrio JC, Hernández A, Portolés MT, Izquierdo-Barba I, Vallet-Regí M. Multifunctional pH sensitive 3D scaffolds for treatment and prevention of bone infection. *Acta Biomaterialia*. 2018;65:450-61. IF: 6.383 - Article.

• Gonzalez B, Colilla M, Diez J, Pedraza D, Guembe M, Izquierdo-Barba I, Vallet-Regí M. Mesoporous silica nanoparticles decorated with polycationic dendrimers for infection treatment. *Acta Biomaterialia*. 2018;68:261-71. IF: 6.383 - Article.

• Sanchez-Salcedo S, Malavasi G, Salinas AJ, Lusvardi G, Rigamonti L, Menabue L, Vallet-Regí M. Highly-Bioreactive Silica-Based Mesoporous Bioactive Glasses Enriched with Gallium(III). *Materials*. 2018;11(3):367. IF: 2.467 - Article.

• Moreno-Villaecija MA, Sedo-Vegara J, Guisasola E, Baeza A, Regí MV, Nador F, Ruiz-Molina D. Polydopamine-like Coatings as Payload Gatekeepers for Mesoporous Silica Nanoparticles. *ACS Applied Materials & Interfaces*. 2018;10(9):7661-9. IF: 8.097 - Article.

• Vallet-Regí M, Salinas AJ. Role of the Short Distance Order in Glass Reactivity. *Materials*. 2018;11(3):415. IF: 2.467 - Article.

• Paris JL, Manzano M, Cabanas MV, Vallet-Regí M. Mesoporous silica nanoparticles engineered for ultrasound-induced uptake by cancer cells. *Nanoscale*. 2018;10(14):6402-8. IF: 7.233 - Article.

• Guisasola E, Asín L, Beola L, de la Fuente JM, Baeza A, Vallet-Regí M. Beyond Traditional Hyperthermia: In Vivo Cancer Treatment with Magnetic-Responsive Mesoporous Silica Nanocarriers. *ACS Applied Materials & Interfaces*. 2018;10(15):12518-525. IF: 8.097 - Article.

• Villegas MR, Baeza A, Vallet-Regí M. Nanotechnological Strategies for Protein Delivery. *Molecules*. 2018; 23(5):1008. IF: 3.098 - Article.

• Castillo RR, Hernandez-Escobar D, Gomez-Grana S, Vallet-Regí M. Reversible Nanogate System for Mesoporous Silica Nanoparticles Based on Diels-Alder Adducts. *Chemistry-A European Journal*. 2018; 24(27):6992-7001. IF: 5.160 - Article.

• Paris JL, Villaverde G, Cabanas MV, Manzano M, Vallet-Regí MA. From proof-of-concept material to PEGylated and modularly targeted ultrasound-responsive mesoporous silica nanoparticles. *Journal of Materials Chemistry B*. 2018;6(18):2785-94. IF: 4.776 - Article.

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Gisbert-Garzaran M, Manzano M, Vallet-Regi M. Self-immolative chemistry in nanomedicine. *Chemical Engineering Journal*. 2018;340:24-31. IF: 6.735 - Article.
- Nairi V, Medda S, Piludu M, Casula MF, Vallet-Regi M, Monduzzi M, Salis A. Interactions between bovine serum albumin and mesoporous silica nanoparticles functionalized with biopolymers. *Chemical Engineering Journal*. 2018;340:42-50. IF: 6.735 - Article.
- Sanchez-Salcedo S, Vallet-Regi M, Shahin SA, Glackin CA, Zink JI. Mesoporous core-shell silica nanoparticles with anti-fouling properties for ovarian cancer therapy. *Chemical Engineering Journal*. 2018;340:114-24. IF: 6.735 - Article.
- Paris JL, Mannaris C, Cabanas MV, Carlisle R, Manzano M, Vallet-Regi M, Coussios CC. Ultrasound-mediated cavitation-enhanced extravasation of mesoporous silica nanoparticles for controlled-release drug delivery. *Chemical Engineering Journal*. 2018;340:2-8. IF: 6.735 - Article.
- Salinas AJ, Blanco-Becares JM, Mersinlioglu O, Casarrubios L, Fernandez-Villa D, Feito MJ, Portoles T, Gonzalez B, Vallet-Regi M. Synthesis, Characterization and Biocompatibility of Mesolamellar Calcium Phosphate Hybrids Prepared by Anionic Surfactant Templating. *ChemistrySelect*. 2018;3(24):6880-91. IF: 1.505 - Article.
- Villegas MR, Baeza A, Usategui A, Ortiz-Romero PL, Pablos JL, Vallet-Regi M. Collagenase nanocapsules: An approach to fibrosis treatment. *Acta Biomaterialia*. 2018;74:430-8. IF: 6.383 - Article.
- Villaverde G, Gomez-Grana S, Guisasola E, Garcia I, Hanske C, Liz-Marzan LM, Baeza A, Vallet-Regi M. Targeted Chemo-Photothermal Therapy: A Nanomedicine Approximation to Selective Melanoma Treatment. *Particle & Particle Systems Characterization*. 2018;35(7):1800148. IF: 4.384 - Article.
- Aguilera-Correa JJ, Doadrio AL, Conde A, Arenas MA, de-Damborenea JJ, Vallet-Regi M, Esteban J. Antibiotic release from F-doped nanotubular oxide layer on Ti6Al4V alloy to decrease bacterial viability. *Journal of Materials Science-Materials in Medicine*. 2018;29(8):118. IF: 2.448 - Article.
- Gomez-Cerezo N, Verron E, Montouillout V, Fayon F, Lagadec P, Bouler JM, Bujoli B, Arcos D, Vallet-Regi M. The response of pre-osteoblasts and osteoclasts to gallium containing mesoporous bioactive glasses. *Acta Biomaterialia*. 2018;76:333-3. IF: 6.383 - Article.

- Nairi V, Magnolia S, Piludu M, Nieddu M, Caria CA, Sogos V, Vallet-Regi M, Monduzzi M, Salis A. Mesoporous silica nanoparticles functionalized with hyaluronic acid. Effect of the biopolymer chain length on cell internalization. *Colloids and Surfaces B-Biointerfaces*. 2018;168:50-9. IF: 3.997 - Article.
- Perez R, Sanchez-Salcedo S, Lozano D, Heras C, Esbrit P, Vallet-Regi M, Salinas AJ. Osteogenic Effect of ZnO-Mesoporous Glasses Loaded with Osteostatin. *Nanomaterials*. 2018;8(8):592. IF: 3.504 - Article.
- Cicuendez M, Flores J, Oliveira H, Portoles MT, Vallet-Regi M, Vila M, Duarte IF. Metabolomic response of osteosarcoma cells to nanographene oxide-mediated hyperthermia. *Materials Science & Engineering C-Materials for Biological Applications*. 2018;91:340-8. IF: 5.080 - Article.
- Gomez-Cerezo N, Casarrubios L, Morales I, Feito MJ, Vallet-Regi M, Arcos D, Portoles MT. Effects of a mesoporous bioactive glass on osteoblasts, osteoclasts and macrophages. *Journal of Colloid and Interface Science*. 2018;528:309-20. IF: 5.091 - Article.
- Garcia-Hondurilla N, Coca A, Ortega MA, Trejo C, Roman J, Pena J, Cabanas MV, Vallet Regi M, Bujan J. Improved connective integration of a degradable 3D-nano-apatite/agarose scaffold subcutaneously implanted in a rat model. *Journal of Biomaterials Applications*. 2018;33(5):741-52. IF: 2.082 - Article.
- Balasubramanian P, Salinas AJ, Sanchez-Salcedo S, Detsch R, Vallet-Regi M, Boccaccini AR. Induction of VEGF secretion from bone marrow stromal cell line (ST-2) by the dissolution products of mesoporous silica glass particles containing CuO and SrO. *Journal of Non-Crystalline Solids*. 2018;500:217-24. IF: 2.488 - Article.
- Castillo RR, Lozano D, Vallet-Regi M. Building Block Based Construction of Membrane-Organelle Double Targeted Nanosystem for Two-Drug Delivery. *Bioconjugate Chemistry*. 2018;29(11):3677-85. IF: 4.485 - Article.
- Casarrubios L, Gomez-Cerezo N, Feito MJ, Vallet-Regi M, Arcos D, Portoles MT. Incorporation and effects of mesoporous SiO₂-CaO nanospheres loaded with ipriflavone on osteoblast/osteoclast cocultures. *European Journal of Pharmaceutics and Biopharmaceutics*. 2018;133:258-68. IF: 4.491 - Article.
- Cabanas MV, Lozano D, Torres-Pardo A, Sobrino C, Gonzalez-Calbet J, Arcos D, Vallet-Regi M. Features of aminopropyl modified mesoporous silica nanoparticles.

Implications on the active targeting capability. *Materials Chemistry and Physics*. 2018;220:260-9. IF: 2.210 - Article.

- Polo L, Gómez-Cerezo N, García-Fernández A, Aznar E, Vivancos JL, Arcos D, Vallet-Regi M, Martínez-Máñez R. Mesoporous Bioactive Glasses Equipped with Stimuli-Responsive Molecular Gates for Controlled Delivery of Levofloxacin against Bacteria. *Chemistry-A European Journal*. 2018;24(71):18944-51. IF: 5.160 - Article.
- Colilla M, Izquierdo-Barba I, Vallet-Regi M. The Role of Zwitterionic Materials in the Fight against Proteins and Bacteria. *Medicines (Basel, Switzerland)*. 2018;5(4). IF: N/A - Article.

• Vallet-Regi M, Manzano M, Baeza A. Controlled Release With Emphasis on Ultrasound-Induced Release. *The Enzymes*. 2018;43:101-22. IF: N/A - Article.

- Salinas AJ, Vallet-Regi M, Heikkila J. Use of bioactive glasses as bone substitutes in orthopedics and traumatology. *Woodhead Publishing Series in Biomaterials*. 2018;337-64. IF: N/A - Article.

• Vallet-Regi M, Colilla M, Izquierdo-Barba I, Manzano M. Mesoporous Silica Nanoparticles for Drug Delivery: Current Insights. *Molecules*. 2018;23(1):47. IF: 3.098 - Review.

- Baeza A, Vallet-Regi M. Targeted Mesoporous Silica Nanocarriers in Oncology. *Current Drug Targets*. 2018;19(3):213-24. IF: 3.112 - Review.

• Martinez-Carmona M, Gun'ko Y, Vallet-Regi M. ZnO Nanostructures for Drug Delivery and Theranostic Applications. *Nanomaterials*. 2018;8(4):268. IF: 3.504 - Review.

- Manzano M, Vallet-Regi M. Mesoporous silica nanoparticles in nanomedicine applications. *Journal of Materials Science-Materials in Medicine*. 2018;29(5):65. IF: 2.448 - Review.

• Baeza A, Vallet-Regi M. Nanomotors for Nucleic Acid, Proteins, Pollutants and Cells Detection. *International Journal of Molecular Sciences*. 2018;19(6):1579. IF: 3.687 - Review.

- Martinez-Carmona M, Gun'ko YK, Vallet-Regi M. Mesoporous Silica Materials as Drug Delivery: "The Nightmare" of Bacterial Infection. *Pharmaceutics*. 2018;10(4):279. IF: 3.746 - Review.

• Guisasola E, Baeza A, Asin L, de la Fuente JM, Vallet-Regi M. Heating at the Nanoscale through Drug-Delivery Devices: Fabrication and Synergic Effects in Cancer Treatment with Nanoparticles. *Small Methods*. 2018;2:UNSP 1800007. IF: N/A - Review.

- Vallet-Regi M, Salinas A, Baeza A, Manzano M. Smart nanomaterials and nanostructures for diagnostic and therapy. *Chemical Engineering Journal*. 2018;340:1. IF: 6.735 - Editorial Material.

THESES DEFENDED OR DIRECTED ON THE GROUP

- Candidate: Rocio Villegas Diaz
Title: Hybrid Nanocarriers for the Selective Treatment of Complex Diseases / Nanotransportadores Híbridos para el Tratamiento Selectivo de Enfermedades Complejas
Director/s: Alejandro Baeza Garcia
Date Defended: 19/07/2018
University: Universidad Complutense de Madrid

- Candidate: Mª Natividad Gómez Cerezo
Title: Vidrios mesoporosos bioactivos para el tratamiento de patologías óseas
Director/s: Daniel Arcos Navarrete
Date Defended: 18/09/2018
University: Universidad Complutense de Madrid

- Candidate: Sandra Montalvo Quirós
Title: Diseño, Síntesis y Evaluación de Nuevos Nanosistemas para su Aplicación en Biomedicina
Director/s: Blanca González Ortiz, Jose Luis Luque García, Rafael C. Prados Rosales
Date Defended: 21/09/2018
University: Universidad Complutense de Madrid

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- Student: Rosa Usón Manzanares
Title: Nanopartículas de sílice mesoporosa con capacidad de vectorización ("targeting") a biofilms bacterianos y a bacterias para el tratamiento de la infección
Director: Blanca González Ortiz, Isabel Izquierdo Barba
Master: Máster en Física Biomédica (UCM)

- Student:** Elba García Martín
Title: Incorporación de metales en nanopartículas de sílice mesoporosa para aplicaciones biomédicas.
Director: Isabel Izquierdo Barba, Montserrat Colilla Nieto
Master: Máster en Física Biomédica (UCM)
- Student:** Alba Martínez Jiménez
Title: Diseño y síntesis de nanopartículas de sílice mesoporosa con propiedades fototérmicas para el tratamiento de la infección
Director: Blanca González Ortiz y Montserrat Colilla Nieto
Master: Máster en Física Biomédica (UCM)
- Student:** Roberto Mateo Campos
Title: Matrices Mesoporosas para la liberación localizada de fármacos bajo estímulos de pH
Director: Miguel Manzano García
Master: Máster en Física Biomédica (UCM)
- Student:** Pasquale Sanvitale
Title: The role of zinc oxide nanostructures as antimicrobial and biocompatible agents
Director: Montserrat Colilla Nieto, Isabel Izquierdo Barba
Master: Corso di Laurea Magistrale in Ingegneria Chimica e dei Processi Sostenibili
University: Collegio di Ingegneria Chimica e dei Materiali. Politécnico de Torino. Italia

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Alejandro León Bayan
Title: Estudio prospectivo sobre el efecto en la función eréctil y síntomas del tracto urinario inferior de la biopsia prostática transrectal comparación frente a la biopsia perineal (trabajo de fin de grado en medicina con nivel de máster)
Director: Borja García Gómez
Degree: Medicina (UCM)
- Student:** Elena Plaza Mayoral
Title: Diseño y síntesis de nanopartículas de sílice mesoporosa con propiedades magnéticas para el tratamiento de la infección y/o cáncer
Director: Isabel Izquierdo Barba
Degree: Ingeniería de Materiales (UCM)
- Student:** Yago Gándara Legazpi
Title: Estudios de competitividad in vitro en modelos de infección bacteriana ósea
- Director:** Blanca González Ortiz
Degree: Ingeniería de Materiales (UCM)
- Student:** Elena Gómez González
Title: Diseño y síntesis de nanopartículas de sílice mesoporosa con capacidad de vectorización (“targeting”) a biofilms bacterianos y a bacterias para el tratamiento de la infección
Director: Blanca González Ortiz
Degree: Ingeniería de Materiales (UCM)
- Student:** Jimena Soler Morala
Title: Nanopartículas de sílice mesoporosa con nanopartículas metálicas para aplicaciones biomédicas
Director: Isabel Izquierdo Barba
Degree: Ingeniería de Materiales (UCM)
- Student:** Matteo Mari
Title: Mesoporous Bioactive glasses doped with Zinc for tissue and bone regeneration
Director: Gianluca Malavasi, Sandra Salcedo, Antonio Salinas Sánchez
Titulación: Corso di Laurea in Chimica (Universita degli Studi di Modena e Reggio Emilia)
- Student:** Alison Cruz Madrid
Title: Aplicaciones de materiales mesoporosos ordenados de sílice en el área de la salud
Director: Juan Carlos Doadrio Villarejo
Degree: Farmacia (UCM)
- Student:** Luis Enrique García Moreno Cézar
Title: Elementos radiactivos de la tabla periódica: descubrimiento y nucleosíntesis artificial
Director: Antonio L. Doadrio Villarejo
Degree: Farmacia (UCM)
- Student:** Álvaro Fernández Arranz
Title: Quelatoterapia
Director: África Martínez Alonso
Degree: Farmacia (UCM)
- Student:** Laura Gómez Castillo
Title: Funciones biológicas del cobre (cuproproteínas). Enfermedad de Wilson y enfermedad de Menkes
Director: África Martínez Alonso
Degree: Farmacia (UCM)
- Student:** Annia Canseco
Title: Soportes basados en cerámicas bioactivas para ingeniería de tejidos de hueso.
Director: Antonio J. Salinas Sánchez
Degree: Farmacia (UCM)

- Student:** Raquel Gallego Navarro
Title: Radiofármacos como agentes terapéuticos
Director: Victoria Cabañas Criado
Degree: Farmacia (UCM)
- Student:** Mario García Rodríguez
Title: El boro en las ciencias médicas
Director: Juan Peña López
Degree: Farmacia (UCM)
- Student:** Ainhoa Martín López
Title: Medios de contraste basados en gadolinio
Director: Juan Peña López
Degree: Farmacia (UCM)
- Student:** Clara Ruiz Pérez
Title: Biomateriales en el tratamiento y prevención de fracturas osteoporóticas
Director: Daniel Arcos Navarrete
Degree: Farmacia (UCM)
- Student:** Sanduev Alexey
Title: Nanopartículas inorgánicas como vectores no virales para transfección génica
Director: Blanca González Ortiz
Degree: Farmacia (UCM)
- Student:** Alejandro Parraléjo Jiménez
Title: Nanopartículas de sílice mesoposora para el tratamiento de la infección bacteriana
Director: Isabel Izquierdo Barba, Montserrat Colilla Nieto
Degree: Farmacia (UCM)
- Student:** Guillermo Rodríguez López
Title: Nanomedicinas contra el cáncer
Director: Miguel Manzano García
Degree: Farmacia (UCM)
- Student:** Jorge Martín Fernández-Ortega
Title: Grafeno en el tratamiento del cáncer
Director: Isabel Izquierdo Barba
Degree: Farmacia (UCM)

- Student:** Sandra Prieto Gutiérrez
Title: Tratamientos farmacológicos para prevención de infecciones óseas
Director: Sandra Sánchez Salcedo
Degree: Farmacia (UCM)
- Student:** Adela González Jiménez
Title: Utilización de nanopartículas de plata como agente antibacteriano en infecciones óseas
Director: Ana García Fontech
Degree: Farmacia (UCM)
- Student:** D. Carlos Vives Guerrero
Title: Papel biológico del óxido nítrico
Tutor: Jesús Román Zaragoza
Degree: Farmacia (UCM)

PRIZES AND AWARDS

- Jaime I Award for Basic Research. 2018, granted to María Vallet-Regí.
- Antonio Doadrio López Award for the best doctoral thesis 2018. Real Academia Nacional de Farmacia, granted to Juan Luis Paris Fernández de la Puente.

PATENTS

- Title:** Nanopartículas que Vehiculan la Colagenasa.
Number: EP18382005.9.
Type: European patent.
Inventors: Pablo Ortíz Romero, José Luis Pablos Álvarez, Alicia Usategui Corral, María Vallet Regi, María Rocío Villegas Díaz, Alejandro Baeza García.
Owners: Fundación para la Investigación Biomédica del Hospital 12 de Octubre (40%), UCM (60%).
Date of application: 09/02/2018



GENETICS AND INHERITANCE



GROUP DIRECTOR

Fernández Martínez, Francisco Javier

Gómez Manjón, Irene
Mayo de Andrés, Sonia
Moreno García, Marta

Moreno Izquierdo, Ana
Sánchez Calvin, Mª Teresa
Vargas Gallego, Carmela

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	No. of Projects
Competitive	ISCIII	1
TOTAL		1

- 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

PUBLICATIONS*

TYPE OF DOCUMENT	No. of Documents	Σ IF (JCR 2017)
Articles	1	2.583
Editorials	2	3.658
TOTAL	3	6.241
Letters	2	3.344
TOTAL	5	9.585

- Gómez-Manjón I, Moreno-Izquierdo A, Mayo S, Moreno-García M, Delmiro A, Escribano D, Fernandez-Martinez FJ. Noninvasive Prenatal Testing: Comparison of Two Mappers and Influence in the Diagnostic Yield. *Biomed Research International*. 2018;2018:9498140. IF: 2.583 - Article.
- Ortuno-Costela MDC, Moreno-Izquierdo A, Garesse R, Gallardo ME. Generation of a human iPSC line, IISHDOi002-A, with a 46. XY/47. XYY mosaicism and belonging to an African mitochondrial haplogroup. *Stem Cell Research*. 2018;28:131-5. IF: 1.829 - Editorial Material.
- Zurita-Díaz F, Ortuno-Costela MDC, Moreno-Izquierdo A, Galbis L, Millan JM, Ayuso C, Garesse R, Gallardo ME. Establishment of a human iPSC line, IISHDOi004-A,

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

from a patient with Usher syndrome associated with the mutation c.2276G > T; p.Cys759Phe in the USH2A gene. *Stem Cell Research*. 2018;31:152-6. IF: 1.829 - Editorial Material.

- Mayo S, Gomez-Manjón I, Moreno-Izquierdo A, Moreno-García M, Fernandez-Martinez FJ. Epileptic encephalopathy in the infant: the priority is a good genetic study. *Revista de Neurologia*. 2018;66(9):324. IF: 0.601 - Letter.

- Tous-Romero F, Quesada-Espinosa JF, Sanchez-Calvin MT, Ortiz-Romero PL, Palencia-Perez S. PIK3CA-related overgrowth spectrum: concurrence of multiple anomalies in one patient. *Journal Der Deutschen Dermatologischen Gesellschaft*. 2018;16(5):603-5. IF: 2.743 - Letter.

CARE RESEARCH



Aguilar Ortega, Juana M^a
Collados Gómez, Laura
García Manzanares, M^a Elena

Garzón Delgado, M^a del Valle
Hidalgo Doniga, Carolina
López López, Candelas

GROUP DIRECTOR

Pérez García, Santiago

Pajero Otero, Violeta
Zaragoza García, Ignacio

ACTIVE RESEARCH PROJECTS

TYPE OF FUNDING	FUNDING BODY	NO. OF PROJECTS
Competitive	ISCIII	1
TOTAL		1

• **Title:** Desarrollo prototípico 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.: DTSI7/00179

Funding Body: Instituto de Salud Carlos III (ISCIII)

Start date: 01/01/2018

End date: 31/12/2019

PUBLICATIONS*

TYPE OF DOCUMENT	NO. OF DOCUMENTS	Σ IF (JCR 2017)
Articles	4	6.177
TOTAL	4	6.177

*Publications: The only document types of the ISI Web of Knowledge selected are "Article", "Review", and "Editorial Material". Publications not included in the 2017 JCR are referred to as IF N/A and are not taken into consideration for the final figure shown in the table.

- Lopez-Lopez C, Arranz-Esteban A, Martinez-Ureta MV, Sanchez-Rascon MC, Morales-Sanchez C, Chico-Fernandez M. Does a history of psychoactive substances abuse play a role in the level of pain of the patient with severe trauma? *Enfermeria Intensiva*. 2018;29(2):64-71. IF: N/A - Article.

END MASTER INVESTIGATIONS DIRECTED ON THE GROUP

- **Student:** M^a Ángeles Nogueras Morillas
Title: Delirium en el paciente crítico y el papel de la familia
Director: Ignacio Zaragoza García
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

- **Student:** Encarnación Mezcua Moreno
Title: Cumplimiento de los cuidados de enfermería en la prevención de la neumonía asociada a ventilación mecánica
Director: Ignacio Zaragoza García
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

- **Student:** Ángela Hurtado Gallego
Title: Influencia del método madre canguro en recién nacidos prematuros ingresados en unidad de cuidados intensivos neonatal
Director: Ignacio Zaragoza García
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

- **Student:** Alba María Mesa Expósito
Title: El neumotaponamiento y sus cuidados en la prevención de la neumonía asociada a la ventilación mecánica: una revisión bibliográfica
Director: Ignacio Zaragoza García
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

- **Student:** Juan Ignacio Delgado Ruiz
Title: Enfermería en el traumatismo craneoencefálico grave: impacto sobre la presión intracranal y prevención de úlceras por presión
Director: Ignacio Zaragoza García
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

- **Student:** Brian Jimenez Catalán
Title: Descripción del pensamiento crítico en enfermería de cuidados intensivos pediátricos de los Hospitales de Madrid

Director: Laura Collados Gómez
Master: Máster en Procesos e Intervenciones Enfermeras al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)

- **Student:** Cristina Clemente Arévalo
Title: Catéteres venosos centrales impregnados en antibióticos para disminuir la bacteriemia asociada a catéter en las unidades neonatales

Director: Laura Collados Gómez
Master: Máster en Procesos e Intervenciones Enfermeras al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)

- **Student:** Beatriz Fernández Mestre
Title: Reanimación de recién nacidos de muy bajo peso al nacer en la sala de partos de un Hospital de nivel III

Director: Laura Collados Gómez
Master: Máster en Procesos e Intervenciones Enfermeras al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)

- **Student:** M^a Concepción Bustamante Roda
Title: La sonda de aspiración cerrada es esencial para proteger el pulmón

Director: Laura Collados Gómez
Master: Máster en Procesos e Intervenciones Enfermeras al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)

- **Student:** María Herranz García
Title: Cuidados centrados en el desarrollo: Análisis crítico de las intervenciones de enfermería

Director: Laura Collados Gómez

Master: Máster en Procesos e Intervenciones Enfermeras

al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)

- **Student:** Yolanda González Moreno
Title: Eficacia de un programa de educación para la salud disminuir la ansiedad en padres de niños con convulsión febril

Director: Laura Collados Gómez
Master: Máster en Procesos e Intervenciones Enfermeras al paciente pediátrico en situaciones de riesgo vital (Universidad Católica de Ávila)



- Student:** Lourdes Martín García
Title: Influencia de los cuidados enfermeros en la variación de la presión intracranal
Director: Candelas López López
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)
- Student:** Evelyn García Callejas
Title: Valoración del dolor en el paciente crítico no comunicativo
Director: Candelas López López
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)
- Student:** Ana Mª Rivillas Baltanás
Title: Los padres en la UCIN: método canguro, lactancia materna y estrés
Director: Candelas López López
Master: Máster Universitario en Enfermería de Cuidados Críticos, Urgencias y Emergencias (Universidad de Jaén)

END GRADUATED INVESTIGATIONS DIRECTED ON THE GROUP

- Student:** Elena Carretón Simón
Title: Valoración del dolor en pacientes críticos no comunicativos: revisión bibliográfica
Director: Santiago Pérez García
Degree: Enfermería (UCM)
- Student:** Ana Mª Ratero Rodriguez
Title: Plan de cuidados estandarizado al paciente varón diabético con gangrena de Fournier
Director: Mª Elena García Manzanares
Degree: Enfermería (UCM)
- Student:** Lucia Torres García
Title: Plan de cuidados estandarizado en el paciente adolescente con linfoma de Hodgkin hospitalizado tras el diagnóstico inicial
Director: Mª Elena García Manzanares
Degree: Enfermería (UCM)
- Student:** Silvia Hontana Moreno
Title: Plan de cuidados estandarizado en el paciente anciano ostomizado por cáncer colorrectal
Director: Mª Elena García Manzanares
Degree: Enfermería (UCM)
- Student:** Alba Panetta Esteban
Title: Prevención de lesiones perineales en el parto
- Student:** Ignacio Zaragoza García
Degree: Enfermería (UCM)
- Student:** Alberto Medina Reimúndez
Title: Prevención de complicaciones en un catéter central de inserción periférica. Una labor de enfermería
Director: Ignacio Zaragoza García
Degree: Enfermería (UCM)
- Student:** Blanca Tornos Alonso
Title: Tratamiento del dolor lumbar crónico: una revisión bibliográfica
Director: Ignacio Zaragoza García
Degree: Enfermería (UCM)
- Student:** Andrea Coronado García
Title: El papel de la vitamina D en la esclerosis múltiple: Una revisión bibliográfica
Director: Ignacio Zaragoza García
Degree: Enfermería (UCM)
- Student:** Rocío Bermejo Moreno
Title: Revision bibliográfica sobre humanización de cuidados sanitarios y unidades de cuidados intensivos en España
Director: Carolina Hidalgo Doniga
Degree: Enfermería (UCM)
- Student:** Alba Mª Huete Arteaga
Title: Prevención de complicaciones en heridas quirúrgicas: dispositivos de terapia de presión negativa de un solo uso
Director: Carolina Hidalgo Doniga
Degree: Enfermería (UCM)
- Student:** Laura Samblas Martinez
Title: Estigmatización de la obesidad por los profesionales sanitarios y su efecto en los cuidados
Director: Carolina Hidalgo Doniga
Degree: Enfermería (UCM)
- Student:** Guillermo Rodríguez Otero
Title: Plan de cuidados individualizado: arthroplastia de rodilla
Director: Enrique Pacheco del Cerro, Candelas López López
Degree: Enfermería (UCM)
- Student:** Paula Navarro Gómez
Title: Abordaje enfermero de la hemacromatosis
Director: Enrique Pacheco del Cerro, Candelas López López
Degree: Enfermería (UCM)

PRIZES AND AWARDS

- Nursing in Development Award, job application nurse.** Nurse research support unit, initiative to improve the conditions of the investigation in cares. Santiago Pérez García, Mª Andión Goñi Olangua, Mª Elena García Manzanares, Candelas López López y Juana Mª Aguilar Ortega. Prize awarded by the Fundación para el Desarrollo de la Enfermería.
- Award for the best oral communication:** "Estudio de los factores relacionados con el inicio de la lactancia materna en puerperas inmigrantes chinas residentes en España vs autóctonas". Aguilar Ortega JM, González Pascual JL, Mesa Leiva C, Esteban Gonzalo L, Pérez de Algaba Cuenca C, Cardenete Reyes C, Pérez García S. Prize awarded by the Gerencia de Cuidados del Servicio Madrileño de Salud - Agencia Madrileña de Atención Social.

- First prize for the best care research project. "Movilización Precoz en la Unidad de Cuidados Intensivos". Marta Raurell Torredá, Susana Arias Rivera, Mª Jesús Frade Mera, José Daniel Martí Romeu, Carmen Alicia San José Arribas, Ignacio Zaragoza García y Grupo trabajo MOViPRE. Hospital Universitario Puerta de Hierro Majadahonda.



Hospital Universitario
12 de Octubre



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