



SCIENTIFIC REPORT

IMIBIC 2023





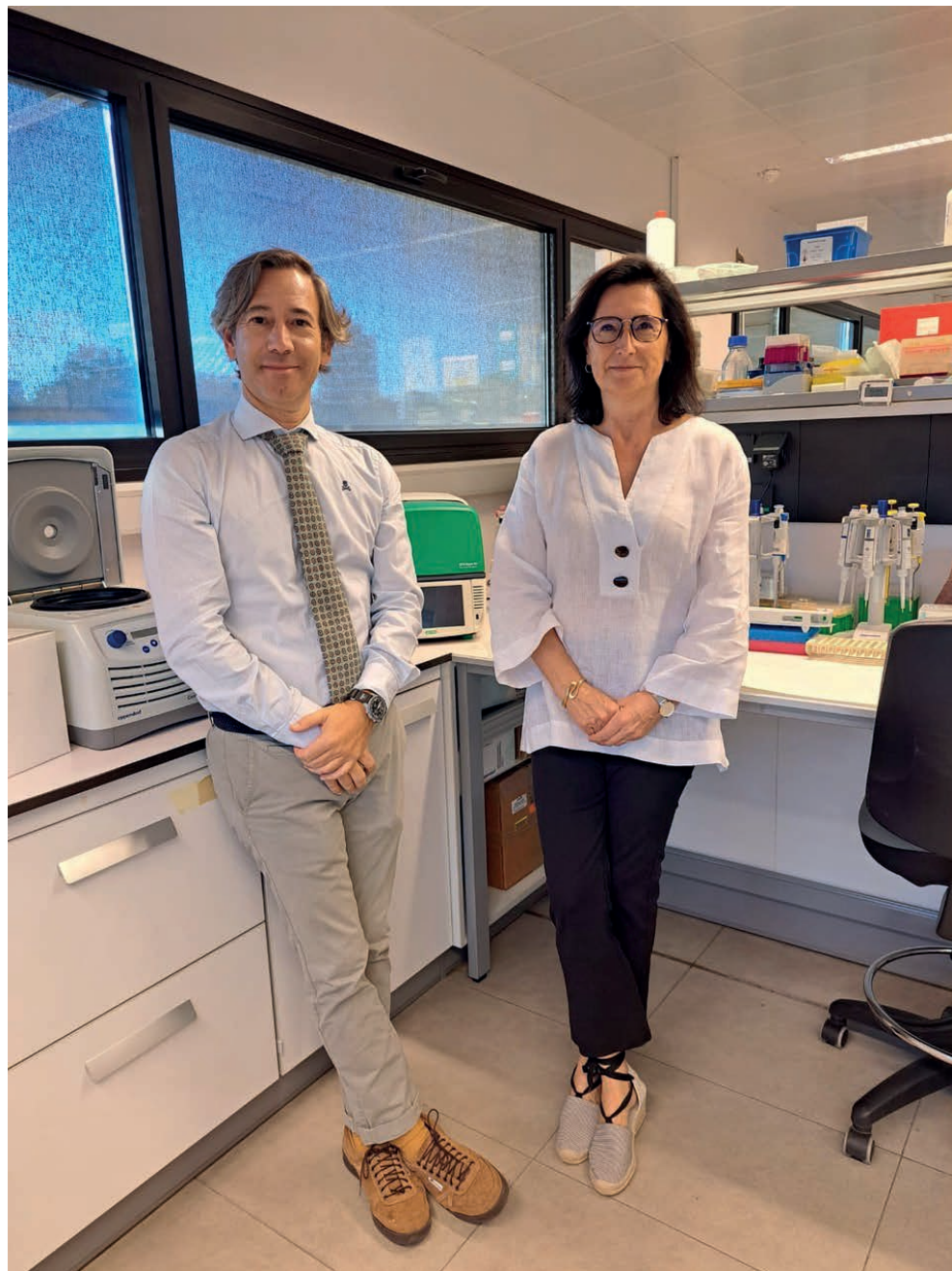
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**DIRECTOR
FOREWORD 2023**

1



Pablo Pérez Martínez
Scientific Director

María del Mar Malagón Poyato
Deputy Scientific Director

DIRECTOR'S FOREWORD TO THE SCIENTIFIC REPORT 2023

This report provides a summary of IMIBIC's activity during 2023, in which the Scientific Management Team was renewed and the Development Agreement with IMIBIC patrons was also extended (until January 2026). This year we have addressed the objectives set forth in IMIBIC Strategic Plan 2021-2025 and also tackled new challenges to develop in the near future. All this work is aimed at placing our Institute as an international benchmark, on par with the large research institutions leading this field, the most pioneering branch of science. Together with the External Scientific Committee, we have carried out the scientific evaluation of our groups with a final balance that shows the good health that IMIBIC enjoys. This has also helped us to propose future strategies for further growth.

As an outstanding achievement, we would like to highlight the obtention, for the first time for an IMIBIC researcher, of an European Research Council (ERC) Advanced grant, that was awarded to Prof. Tena Sempere. This represents a milestone in the institute's story that sets a before and after in the capabilities of IMIBIC researchers and serves as a good example for the rest of our scientific community. In addition to this, the IMIBIC is leading several European projects, including the eprObes or the e2 -ducass within the European Partnership model (ERA4Health). At the national level, we would like to highlight the 40% growth in the funds granted by the ISCIII, as well as the granting of an independent clinical trials project, a Personalized Medicine project and 2 Public-Private projects from the MICINN, which also awarded the vast majority of grants requested from IMIBIC PIs.

During 2023, we intensified our innovation activity. The Scientific Management team fully supports this commitment, since we consider that innovation is a critical feature for a biomedical research institute. The growing activity of the Innovation Unit, as well as of all the rest of IMIBIC's technology units, some of which have been also strengthened with the latest equipments, guarantees IMIBIC's position at the forefront of translational research. In this context, we would like to highlight the development of the First Biotechnology Hackathon, a pleasant experience developed in collaboration with the Engineering School of the University of Cordoba that has served to bring innovation in biomedicine closer to the youngest engineers. This year a major investment has been made to upgrade our biosafety level 2 facility to BSL-3, which will offer new possibilities on diagnostic work and research on pathogens.

Armed with these facts, our next objective for the coming year is to promote IMIBIC growth, based on the principles of excellence and translation to the healthcare environment. This includes our commitment to the promotion of young researchers, aiming to foster talent and creativity so that the Institute continues to evolve and attract researchers of excellence. This will help consolidate IMIBIC as an international reference centre. In addition, we will continue to focus our attention on attracting international funds, prioritizing European and NIH projects, and encouraging innovation and transfer as tools to reduce the gap between research and transfer both to clinical practice and to companies in the health sector. There are many steps and goals yet to be fulfilled, there are many challenges and difficulties to be overcome, but the spirit of the IMIBIC has humbly shown the path to promote the interaction between basic and clinical research, to combine competitiveness with cooperation, to support profound changes while maintaining coherent and solid project goals, and to attain excellence and quality in research.

Finally, in order to become more aligned with the new requirements of the Carlos III Health Institute, we are working on aspects related to the 6 principles of Responsible Research and Innovation: ethics, gender equality, responsible governance, open access, science education and public engagement. In this line, to highlight just one action among many, the organization of the First IMIBIC Race for Research, uniting in its route all the hospitals, both public and private, in the city of Cordoba.

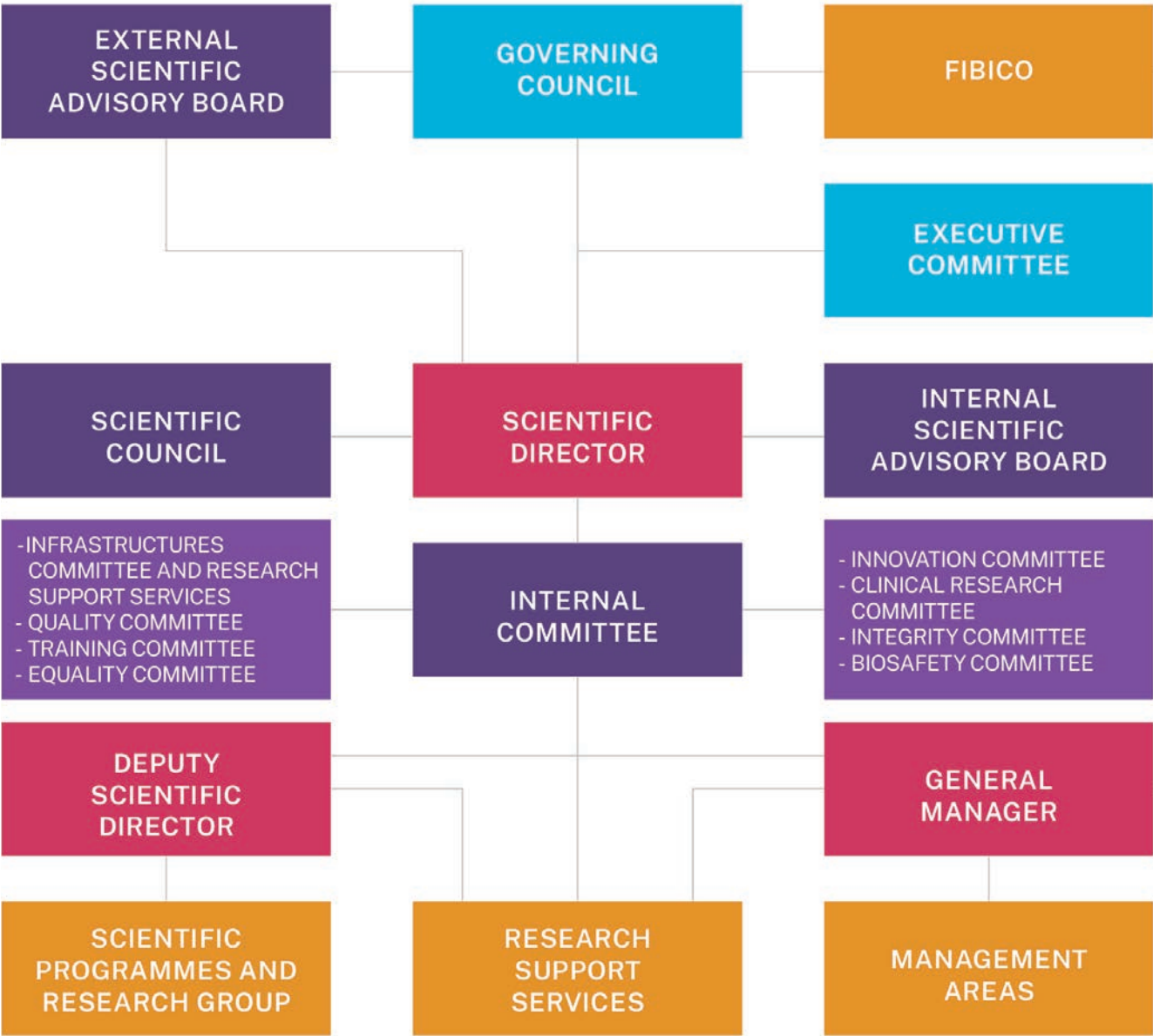
Over the next pages, you will have the opportunity to see the results of this continued growth and the consolidation of our efforts to progress in the field of biomedical research, but most of all, you will witness the robust willingness to continue rising altogether in this common and enduring pathway.

GOVERNANCE
AND STRUCTURE

2

2.1 ORGANIZATION CHART

The governing and representative bodies of IMIBIC are set out below:



A. 1. COLLEGIATE BODIES

The collegiate bodies that make up the IMIBIC are the Governing Council, the Executive Committee, the External Scientific Advisory Board, the Internal Scientific Advisory Board and the Scientific Council. Each body is composed of a number of specialists and has its own competencies.

» GOVERNING COUNCIL

The Governing Council is the main governing body of IMIBIC. The Governing Council is composed of the following members:

- Two representatives from the Regional Ministry of Health and Consumer Affairs of the Regional Government of Andalusia
Mr. Isaac Túnez Fiñana
Secretary General of Public Health and R&D+i in Health of the Regional Ministry of Health and Consumer Affairs
Ms. Valle García Sánchez
Managing Director of the Reina Sofia University Hospital and President of FIBICO
- Two representatives from the Regional Ministry of University Research and Innovation
Mr. Librado Carrasco Otero (until 19 july)
Ms. M^a del Mar Cerbán Jiménez (since 1 december)
Director General of Research Planning
Mr. José Francisco Viso Sánchez
Territorial Delegate for Educational Development and University Research and Innovation
- Two representatives from the University of Córdoba
Ms. M^a José Polo Gómez
Vice-Rector for Science Policy
Ms. Lourdes Arce Jiménez
Vice-Rector for Innovation and Transfer
- One representative from the Andalusian Public Foundation for Progress and Health (FPS)
Mr. Gonzalo Balbontín Casillas
Managing Director
- Scientific Director, IMIBIC
Mr. Pablo Pérez Martínez
- General Manager, IMIBIC
Mr. Álvaro Granados del Río

» EXECUTIVE COMMITTEE

On July 27, 2015, the Governing Council adopted the agreement to create an Executive Committee to facilitate efficient decision-making. The Executive Committee is made up of one member from each of the institutions that constitute the Governing Council, as set out in the collaboration agreement between the Regional Ministry of Health and Families, the Regional Ministry of Economic Transformation, Knowledge, Industry and Universities, and the University of Córdoba. The Scientific Director and General Manager participate in an advisory capacity, but without voting rights.

- One representative from the Regional Ministry of Health and Consumer Affairs of the Regional Government of Andalusia
Ms. Valle García Sánchez
Managing Director of the Reina Sofia University Hospital and President of FIBICO
- One representative from the Regional Ministry of University Research and Innovation
Mr. D. José Francisco Viso Sánchez
Territorial Delegate for Educational Development and University Research and Innovation
- One representative from the University of Córdoba
Mr. Rafael Solana Lara
Vice-Rector for Health and Welfare of the University Community
- One representative from the Andalusian Public Foundation for Progress and Health (FPS)
Mr. Gonzalo Balbontín Casillas
Managing Director
- Scientific Director, IMIBIC
Mr. Pablo Pérez Martínez
- General Manager, IMIBIC
Mr. Álvaro Granados del Río

» EXTERNAL SCIENTIFIC ADVISORY BOARD

The External Scientific Advisory Board is appointed by the Governing Board and its mission is to assist the Governing Council, the Scientific Council and the Scientific Director in the performance of their duties. It acts as an advisory body to the Scientific Management, although its opinions and recommendations are not legally binding. It was created on July 9, 2009, under the name of the External Advisory Board, and ratified by the Governing Council on December 21, 2009. The External Scientific Advisory Board is made up of a minimum of three and a maximum of ten highly qualified professionals with recognized experience in their field of research. Members of the External Scientific Advisory Board must carry out their professional activity outside the Autonomous Community of Andalusia, and at least one of them must not be resident in Spain. Members must be able to individually demonstrate that they have no conflicts of interest. The members of the board are:

- **Ms. Lina Badimón Maestro**

Director of the Cardiovascular Research Center (CSIC-ICCC) at the Hospital de la Santa Creu i Sant Pau, Autonomous University of Barcelona (UAB), Institute for Biomedical Research (IIB-SPau), (Barcelona). President of the CCE

- **Mr. Carlos Diéguez González**

Scientific Director of CIBER Obesity and Nutrition (ISCIII) and Director of the Centre for Research in Molecular Medicine, University of Santiago (CIMUS). (Santiago de Compostela)

- **Mr. José María Ordovás Muñoz**

Senior Scientist, Director of the Nutrition and Genomics Laboratory and Chairman of the Functional Genomics Core Facility of the Jean Mayer USDA Human Nutrition Research Center on Aging, Tufts University (Boston, USA). Scientific Director of the Madrid Institute for Advanced Studies (IMDEA) (Madrid)

- **Mr. Francisco Sánchez Madrid**

Professor of Immunology at the Autonomous University of Madrid and Scientific Director of the Health Research Institute of the Hospital de La Princesa (Madrid)

- **Mr. Pura Muñoz Cánoves**

ICREA Research Professor and Professor of Cell Biology of the Department of Experimental and Health Sciences, University Pompeu Fabra. Leader of the Tissue Regeneration group at the National Centre for Cardiovascular Research (CNIC) in Madrid

» INTERNAL SCIENTIFIC ADVISORY BOARD

The Internal Scientific Advisory Board is an advisory body to the Scientific Director. It is composed of the Scientific Director and Researchers (including researchers in training) and represents all priority scientific areas of the Institute. The Internal Scientific Advisory Board consists of the following members (a maximum of 18). It includes those responsible for Quality, Innovation and Training. It was established on November 25, 2019 (and was previously known as the Permanent Committee of the Scientific Council). The members of the board are as follows:

• Mr. Pablo Pérez Martínez	Scientific Director
• Mr. Álvaro Granados del Río	General Manager
• Ms. M^a del Mar Malagón Poyato	Deputy Scientific Director
• Mr. Juan de la Haba Rodríguez	Coordinator of Clinical Research
• Mr. Fernando Sarramea Crespo	Coordinator of Active Ageing and Frailty Program
• Mr. Manuel Tena Sempere	Coordinator of the Nutrition, Endocrine and Metabolic Diseases Program
• Mr. Antonio Rivero Román	Coordinator of the Infectious & Immunological Diseases and Organ Transplantation Program
• Mr. Marco A. Calzado Canale	Coordinator of the Cancer (Oncology and Oncohematology) Program
• Ms. Marina Álvarez Benito	Coordinator of the Chronic and Inflammatory Diseases Program
• Mr. Raúl Luque Huertas	Designated representative of the Training Committee
• Mr. Eduardo Muñoz Blanco	Designated representative of the Innovation Committee
• Mr. Miguel González Andrades	Emerging Researcher (until 20 november)
• Ms. Ana Gordon Bermúdez-Coronel	Emerging Researcher (since 20 november)
• Ms. Elena Yubero Serrano	Emerging Researcher (until 20 november)
• Mr. Álvaro Arjona Sánchez	Emerging Researcher (since 20 november)
• Ms. Nuria Barbarroja Puerto	Emerging Researcher
• Ms. Laura Martín Piedra	Predoctoral Researcher (until 20 november)
• Ms. Ana Mantrana Soldado	Predoctoral Researcher

» SCIENTIFIC COUNCIL

The Scientific Council acts as an advisory body to the Scientific Director. It is composed of the Scientific Director, the Deputy Scientific Director, Principal Investigators (PI), Emerging Researchers (ER), one representative from the Reina Sofia University Hospital (RSUH) Board of Directors, one representative from Research Support Services, one representative of the management staff and the General Manager of the IMIBIC. It was established on July 9, 2009.

B. INDIVIDUAL MEMBERS

The Management Team is responsible for ensuring the effectiveness of performance in order to increase the quality and impact of IMIBIC's research activity.

- **SCIENTIFIC DIRECTOR**
Dr. Pablo Pérez Martínez
Full Professor of Medicine at the University of Córdoba and specialist in Internal Medicine, Reina Sofia University Hospital, Córdoba.
- **DEPUTY SCIENTIFIC DIRECTOR**
Dr. María del Mar Malagón Poyato
Full Professor of Cell Biology at the University of Córdoba and Principal Investigator of the GC11 research group.
- **CLINICAL RESEARCH PROGRAM COORDINATOR**
Dr. Juan de la Haba Rodríguez
Specialist in Medical Oncology, Reina Sofia University Hospital, and Associate Professor at the University of Córdoba.
- **GENERAL MANAGER**
Mr. Álvaro Granados del Río
BSc in Business Administration and Management. Advanced Program for Management of Health.

C. 1. INTERNAL COMMITTEES

» QUALITY COMMITTEE

This Committee ensures the maintenance of quality and ethical codes in all research activities and among researchers, in accordance with Quality Plan guidelines.

- | | |
|--|--|
| • Dr. M^a del Mar Malagón Poyato | Deputy Scientific Director |
| • Ms. Marisa Escabias Parejo | Quality Specialist |
| • Dr. Sandra M^a Gil Hernández | Head of Quality and Clinical Documentation, RSUH (since 28.11.2023) |
| • Dr. M^a Antonia Álvarez de Lara Sánchez | Head of Quality and Clinical Documentation, RSUH (until 06.06.2023) |
| • Dr. José Manuel Aranda Lara | Technical Advisor to the Territorial Delegate of the Andalusian Regional Ministry of Health and Families |
| • Dr. M^a Teresa Roldán Arjona | Principal Investigator GC22 |
| • Dr. Luís Martínez Martínez | Principal Investigator GC24 |
| • Dr. Rafael Solana Lara | Principal Investigator GC01 |
| • Dr. Juan Ruano Ruiz | Principal Investigator GC29 |
| • Dr. Fernando López López | Biobank Technician (since 28.11.2023) |

» TRAINING COMMITTEE

This committee is responsible for carrying out the Training Plan, in particular, the Master's and Doctoral Programmes in Biomedical Research.

- | | |
|---|---|
| • Dr. Juan Manuel Castellano Rodríguez | Postdoctoral Researcher GC10 |
| • Mr. David Luna Gómez | Training Technician |
| • Ms. Inmaculada Varo Urbano | Training Officer |
| • Mr. Álvaro Granados del Río | General Manager |
| • Dr. Raúl Luque Huertas | Principal Investigator GC27 |
| • Dr. Antonio Pablo Arenas de Larriva | Predoctoral Researcher GC09 |
| • Dr. Elisa Roldán Romero | Director of Studies, RSUH |
| • Dr. Joaquín Toro Santiago | Head of Integrated Training Unit, RSUH |
| • Dr. Nuria Barbarroja Puerto | Emerging Researcher GC05 |
| • Dr. Juan Solivera Vela | Head of Neurosurgery Service, RSUH |
| • Dr. Sebastián Ventura Soto | Principal Investigator GC25 |
| • Ms. Alejandra Méndez Natera | Predoctoral Researcher GC03 |
| • Dr. Alejandro Ibáñez Costa | Postdoctoral Researcher GC08 |
| • Ms. Gema García Jurado | Technical Specialist in Cytometry and Microscopy |
| • Dr. Antonio García Ríos | Emerging Researcher |
| • Dr. Rafael Pineda Reyes | Postdoctoral Researcher GC10 |
| • Ms. Isabel de Castro Burón | Communications Officer |
| • Mr. Rafael Blanco Moreno | Teacher of Biology, Ategua Secondary School, Castro del Río |
| • Mr. José Carlos Prieto Baena | International Project Manager |
| • Mr. Juan Luis Parras Pezard | Hospital Pharmacy Data Manager |
| • Mr. Julio Manuel Martínez Moreno | Postdoctoral Researcher GC13 |
| • Dr. Esperanza M^a Romero Rodríguez | IP GE10 Investigación Clínico-Epidemiológica en Atención primaria |

» EQUALITY NEGOTIATING COMMITTEE

This committee is responsible for the Equality Plan and promotes equal opportunities and equality of treatment between women and men in accordance with the principles of corporate social responsibility and in compliance with current legislation.

• Dr. M ^a del Mar Malagón Poyato	Deputy Scientific Director
• Mr. David Luna Gómez	Quality Technician and Secretary of Equality Negotiating Committee
• Ms. Miriam Cruzado Caballero	Head of the Research Management Unit
• Mr. Francisco Javier López Ruiz	Head of Economic and Resource Management
• Mr. Florencio Muñoz Encinas	Technician: Economic and Resource Management
• Mss. Silvia Miranda Castellano	Technician: Economic and Resource Management
• Ms. Marisa Escabias Parejo	Quality Specialist and Staff Representative
• Ms. Estefanía Azcona Corrales	Management Control Technician and Staff Representative
• Dr. Julio Manuel Martínez Moreno	Post-doctoral Researcher GC13 and Staff Representative
• Mr. Daniel José Campón Montilla	Laboratory Technician and Staff Representative
• Dr. Antonio Romero Ruiz	Emerging Researcher GE09 and External Advisor to MIBIC
• Dr. Alejandra Pera Rojas	Emerging Researcher GC01 and External Advisor to MIBIC
• Ms. Higinia Romero Crespo	External Advisor.

» INFRASTRUCTURES AND RESEARCH SUPPORT SERVICES COMMITTEE

This Committee is responsible for supervising existing IMIBIC infrastructures and implementing the Infrastructure Plan.

• Dr. M ^a del Mar Malagón Poyato	Deputy Scientific Director
• Mr. Francisco Javier López Ruiz	Head of Financial and Human Resources Management
• Mr. Álvaro Granados del Río	General Manager
• Dr. Eduardo Chicano Gálvez	Senior Technical Specialist, Research Support Service: Mass Spectrometry and Molecular Imaging Unit
• Dr. Esther Peralbo Santaella	Senior Technical Specialist, Research Support Services: Cytometry and Microscopy
• Ms. Anabel Pozo Salas	Technician, Research Support Services: Animal Experimentation
• Dr. Antonio Rodríguez Ariza	Co-Principal Investigator GC06
• Dr. Rosario López Pedrera	Principal Investigator GC05
• Dr. Victoria Guiote Moreno	Predoctoral Researcher GA10
• Dr. Sara Cantisán Bohórquez	Researcher GC03
• Dr. Juan A. Moreno Gutiérrez	Principal Investigator GE06
• Dr. Juan Roa Rivas	Researcher CG10
• Dr. Feliciano Priego Capote	Principal Investigator GC21
• Dr. Esther Rivero Cortés	Senior Technical Specialist for General Procedures

» CLINICAL RESEARCH COMMITTEE

The Clinical Research Committee implements the IMIBIC Clinical Research Plan.

• Dr. Juan de la Haba Rodríguez	Coordinator of Clinical Research
• Dr. José Carlos Garrido Gracia	Head of Clinical Research Unit- Management Area, and Secretary of the Committee
• Dr. Samuel Hidalgo Ríos	Head of Clinical Research Unit- Assistance Area
• Mr. Álvaro Granados del Río	General Manager
• Dr. Julián de la Torre Cisneros	Principal Investigator GC03
• Dr. Concepción Herrera Arroyo	Principal Investigator GC14
• Dr. Clementina López Medina	Researcher GC05
• Dr. Juan Ruano Ruiz	Principal Investigator GC29
• Dr. Álvaro Arjona Sánchez	Principal Investigator GE09
• Dr. Enrique Gómez Gómez	Researcher GE05
• Dr. Juan Carlos Castillo Domínguez	Researcher GC15
• Dr. Eduardo Agüera Morales	Emerging Researcher GC28
• Dr. M ^a José Méndez Vidal	Clinical Researcher GC06
• Dr. Daniel López Ruiz	Researcher GA08
• Dr. M ^a Dolores Mesa Rubio	Researcher GC15
• Dr. Esperanza Romero Rodriguez	Researcher GC12
• Dr. Javier Torres Borrego	Coordinator of Pediatric Allergy & Pulmonology Unit
• Mr. Ángel Cañadilla Moyano	External Member

» INNOVATION COMMITTEE

The Clinical Research Committee is responsible for carrying out the IMIBIC Innovation Plan.

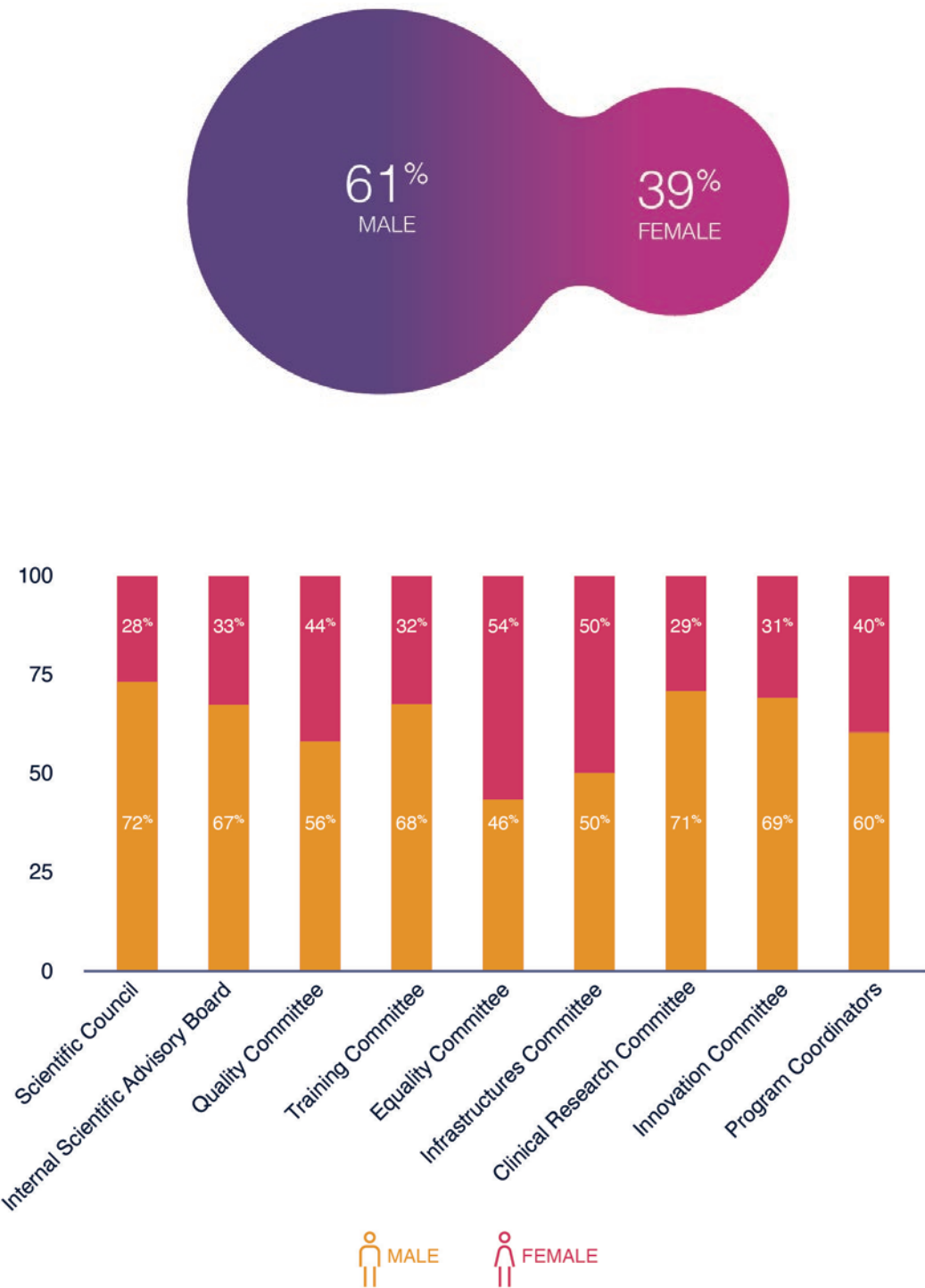
• Dr. Pablo Pérez Martínez	Scientific Director
• Dr. Luis Fernández Formoso	Project Manager
• Dr. M^a del Mar Malagón Poyato	Deputy Scientific Director
• Mr. Álvaro Granados del Río	General Manager
• Dr. Marina Álvarez Benito	Principal Investigator GA08
• Dr. Eduardo Muñoz Blanco	Principal Investigator GC04
• Dr. Francisco Javier Delgado Lista	Co-Principal Investigator GC09
• Dr. Rafaela Ortega Castro	Postdoctoral Researcher GC05
• Dr. Juan Rafael Muñoz Castañeda	Emerging Researcher GC13
• Dr. Juan Solivera Vela	Head of Neurosurgery Service RSUH
• Dr. Manuel David Gahete Ortíz	Principal Investigator GC30
• Dr. Miguel González Andrades	Principal Investigator GE07
• Dr. Antonio Rivero Juárez	Emerging Researcher GC26
• Dra. Beatriz Isla Tejera	Facultative Specialist of Area-Hospital Pharmacy
• Mr. David Requena Polonio	Technical Specialist, Innovation
• Mr. Francisco Jiménez San Martín	External Member

» SCIENTIFIC PROGRAMS

All IMIBIC research groups must be integrated into the scientific programs belonging to the main thematic areas of IMIBIC research being carried out at any given time:

- **ACTIVE AGEING AND FRAILTY** **Dr. Fernando Sarramea Crespo**
Dr. Rafael Solana Lara
- **NUTRITION, ENDOCRINE AND METABOLIC DISEASES**
Dr. Manuel Tena Sempere
Dr. Elena Yubero Serrano
- **INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION**
Dr. Antonio Rivero Román
Dr. Sara Cantisán Bohórquez
- **CANCER (ONCOLOGY AND ONCOHEMATOLOGY)**
Dr. Juan de la Haba Rodríguez
Dr. Marco A. Calzado Canale
- **CHRONIC AND INFLAMMATORY DISEASES**
Dr. Rosario López Pedrera
Dr. Marina Álvarez Benito

» INTERNAL COMMITTEE MEMBERS BY GENDER



2.2 SCIENTIFIC STRUCTURE

IMIBIC research activities are organized into five scientific programs, each comprising different research groups. The scientific programs target health problems that are both important and widespread, identifying areas in which the Institute's researchers can combine their efforts in cross-cutting collaborative projects that address and respond to the most crucial health challenges facing European society today, in line with the priorities set out in the European Union's Horizon 2020 program.

Each program is structured to support translational and clinical research that will guide researchers towards the primary goal of improving patient and community health. The programs are designed to foster interaction and cooperation between different groups, to attract new talent and to continually improve the career development opportunities of young researchers. Each of our scientific programs reflects the strengths of our research teams and showcases the areas of expertise of IMIBIC.

The programs are as follows:

» ACTIVE AGEING AND FRAILITY

This program is oriented towards understanding the molecular pathogenic basis of the ageing process in relation to quality of life and to pursuing new strategies in patient care. It includes the following lines of research:

- Immunology and senescence
- Care of the chronically ill
- Frailty and quality of life of the elderly

» NUTRITION, ENDOCRINE AND METABOLIC DISEASES

This program is oriented towards studying metabolic disorders and the endocrine system, in particular the role of nutrition in the prevention and management of these processes at different stages of life. It also focuses on studies of reproductive health and neuroendocrine tumours. It includes the following lines of research:

- Metabolic syndrome
- Reproductive health
- Paediatric and perinatal diseases
- Neuroendocrine tumours

» INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

This program focuses on the study of diseases caused by different infectious agents, with a special emphasis on infections in immunocompromised patients. It includes the following lines of research:

- HIV + Hepatitis C virus
- Transplants
- Multidrug resistance

» CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

This program focuses on the study of neoplastic diseases, including both solid tumours and haematological neoplasms. It includes the following lines of research:

- Lung cancer
- Breast cancer
- Hepatocellular carcinoma
- Leukaemia and lymphomas
- Digestive tumours
- Other tumours

» CHRONIC AND INFLAMMATORY DISEASES

This program focuses on the study of a number of chronic diseases of modern society, emphasising those of an inflammatory nature. The program includes both basic research and clinical studies. Its ultimate aim is to promote a better understanding of the basis of chronic/inflammatory diseases and to improve therapies. It includes the following lines of research:

- Cardiovascular diseases
- Musculoskeletal and connective tissue diseases
- Neurological diseases and mental health
- Kidney and urological diseases
- Liver and digestive diseases
- Chronic inflammation and signalling

» RESEARCH GROUPS

GC- CONSOLIDATED GROUP • GE - EMERGING GROUP • GA - ASSOCIATED GROUP

*Note: The program to which each group is attached is highlighted in bold.

CODE	IMIBIC GROUPS and PROGRAMS	PROGRAMS	PRINCIPAL INVESTIGATOR(S)
GC01	Immunology and Allergy	1, 3, 4, 5	Rafael Solana Lara
GC02	Oxidative and Nitrosative Stress in Acute and Chronic Liver Disease	3, 4, 5	Manuel de la Mata García
GC03	Infectious Diseases	3	Julián de la Torre Cisneros
GC04	Inflammation and Cancer	2, 4, 5	Eduardo Muñoz Blanco Marco Antonio Calzado Canalé
GC05	Systemic and Chronic Inflammatory Autoimmune Diseases of the Musculoskeletal System and Connective Tissue	5	Rosario López Pedrera Eduardo Collantes Estévez Alejandro Escudero Contreras
GC06	New Therapies in Cancer	4	Enrique Aranda Aguilar Antonio Rodríguez Ariza Juan Rafael de la Haba Rodríguez
GC07	Nephrology. Cell Damage in Chronic Inflammation	1, 3, 5	Alejandro Martín Malo
GC08	Hormones and Cancer	2, 4, 5	Justo P. Castaño Fuentes José López Miranda Francisco Pérez Jiménez
GC09	Nutrigenomics. Metabolic Syndrome	1, 2, 5	Javier Delgado Lista Pablo Pérez Martínez Elena Yubero Serrano
GC10	Hormonal Regulation of Energy Balance, Puberty and Reproduction	2	Manuel Tena Sempere
GC11	Adipocyte Differentiation and Metabolism: Metabolic Syndrome	2	María del Mar Malagón Poyato
GC12 GE10	Clinical and Epidemiological Research in Primary Care (GICEAP)	1, 3, 4, 5	Esperanza M ^a Romero Rodríguez
GC13	Calcium Metabolism. Vascular Calcification	2, 5	Mariano Rodríguez Portillo Juan R. Muñoz Castañeda
GC14	Cellular Therapy	4, 5	Inmaculada Concepción Herrera Arroyo
GC15	Invasive Cardiology and Cell Therapy	5	Manuel Pan Álvarez-Ossorio
GC16	Cellular Biology in Haematology. Hypercoagulability	3, 4	Joaquín Sánchez García
GC17	Physiopathology of the Vitamin D Endocrine System, Biotechnology and Aging	1	M ^a Ángeles Gálvez Moreno (since 01/12/2023)
GC18	Translational Research in Solid Organ Transplantation Surgery	3, 4, 5	Francisco Javier Briceño Delgado
GC19	Artificial Vision Applications	1, 4, 5	Rafael Medina Carnicer
GC20	Genetics and behavioural diseases	1, 4	Juan Antonio Moriana Elvira
GC21	Metabolomics and Identification of Bioactive Compounds	1, 2, 4, 5	Feliciano Priego Capote
GC22	Epigenetics	4	María Teresa Roldán Arjona
GC23	Metabolism in Childhood	2, 5	María Mercedes Gil Campos
GC24	Clinical and Molecular Microbiology	3	Luis Martínez Martínez
GC25	Knowledge Discovery and Intelligent Systems in Biomedicine	1, 2, 3, 4	Sebastián Ventura Soto
GC26	Clinical Virology and Zoonosis	3	Antonio Rivero Román
GC27	OncObesity and Metabolism	4	Raúl M. Luque Huertas
GC28	Neuroplasticity and Oxidative Stress	1, 2, 5	Eduardo Agüera Morales
GC29	Inflammatory Immune-Mediated Cutaneous Diseases	4, 5	Juan Alberto Ruano Ruiz
GC30	Molecular Hepatology	4	Manuel David Gahete Ortiz
GC31	Comprehensive Nursing Care. Multidisciplinary Perspective	1, 2, 4, 5	Pablo Jesús López Soto
GE04	Applied Psychology	1, 2	Bárbara Luque Salas

CODE	IMIBIC GROUPS and PROGRAMS	PROGRAMS	PRINCIPAL INVESTIGATOR(s)
GE05	Genitourinary Diseases	2, 4	Julia Carrasco Valiente
GE06	Pathophysiology of Renal and Vascular Damage	5	Juan A. Moreno Gutiérrez
GE07	Visual Quality	3	Miguel González Andrades
GE09	Research in Peritoneal and Retroperitoneal Oncological Surgery	4	Álvaro Arjona Sánchez
GA01	Lung Transplants. Thoracic Neoplasms	3, 4	Ángel Salvatierra Velázquez
GA03	Pneumology	2, 4, 5	Bernabé Jurado Gámez
GA04	Endocrinology and Nutrition. Insulin Resistance, Diabetes and Metabolism	2	Mª Ángeles Gálvez Moreno (until 01/12/2023)
GA05	Study of Growth. Endocrinology and Child Nutrition	2	Ana Belén Ariza Jiménez
GA08	Radiology	4, 5	Marina Álvarez Benito
GA09	Cardiovascular Pathology	3, 5	Ignacio Muñoz Carvajal
GA10	Nuclear Medicine	2, 4	Juan Antonio Vallejo Casas
GA11	Learning and Artificial Neural Networks	3	César Hervás Martínez
GA12	Severe Mental Illness-Health Alerts	1, 5	Fernando Sarramea Crespo
GA13	Preventive Medicine and Public Health	3	Inmaculada Salcedo Leal
GA14	Immunogenomics and Molecular Pathogenesis	3	Juan José Garrido Pavón
GA15	Foods for Health	2	Rafael Moreno Rojas
GA16	Lifestyles, Innovation and Health	1	Guillermo Molina Recio

**GOALS &
HIGHLIGHTS IN
2023**

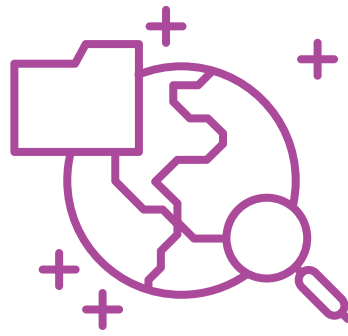
3

3.1 GOALS FOR 2023

The institutional objectives marked for the year 2023 and approved by the Institute's Governing Council are outlined below.

GENERAL GOALS	RESULTS IN 2023
Encourage and support research groups in applications for projects and calls for Human Resources, Networks and International Funding Projects, proposing different institutional support measures.	100 % COMPLETED
Encourage generational change and the search for young talent in the different areas of Primary Care.	100 % COMPLETED
To take advantage of the capabilities of the Technological Innovation Unit and the Bioincubator, as elements that favor the creation of an ecosystem for the generation of ideas, business development and industrialization of our environment.	100 % COMPLETED
To ensure compliance with the objectives related to the incorporation of people under the Investigo Program, with a view to promoting their training and the development of new research careers.	100 % COMPLETED

3.2 HIGHLIGHTS



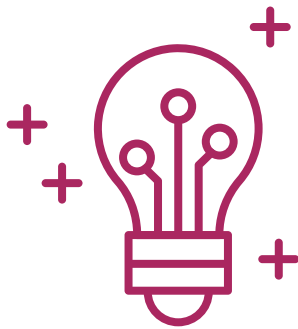
INTERNATIONAL

IMIBIC's first European Research Council (ERC) and success in other calls for proposals (HE, ERA4Health, etc.)



FUNDING

More than 20 million euros



INNOVATION

First Hackathon and Reform of Technological Innovation Unit



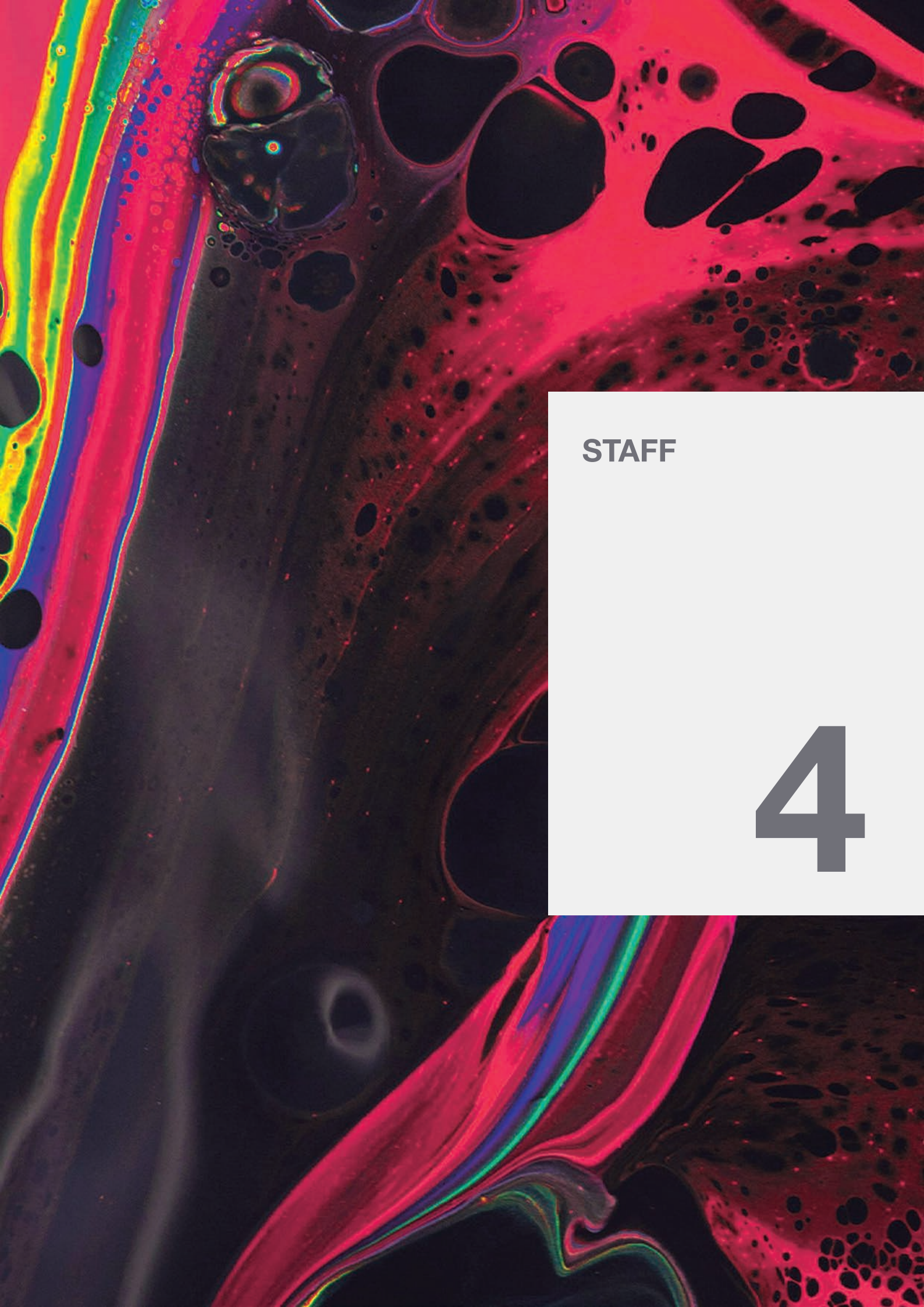
HUMAN RESOURCES

79 researchers (INVESTIGO program)



RESPONSIBLE RESEARCH AND INNOVATION (RRI)

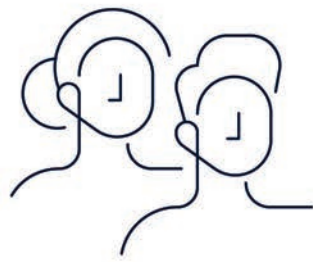
First IMIBIC Race for Research

The background is a complex, abstract composition. It features a dark, almost black, central area that is surrounded by vibrant, swirling colors. On the left side, there are prominent vertical bands of yellow, green, and blue. The right side is dominated by a bright, saturated red. The overall effect is one of organic, fluid movement, with various shapes and textures that suggest a microscopic or celestial view. The colors are highly saturated and contrast sharply with the dark background.

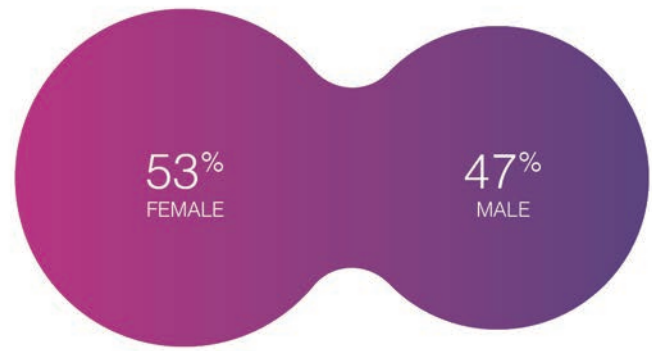
STAFF

4

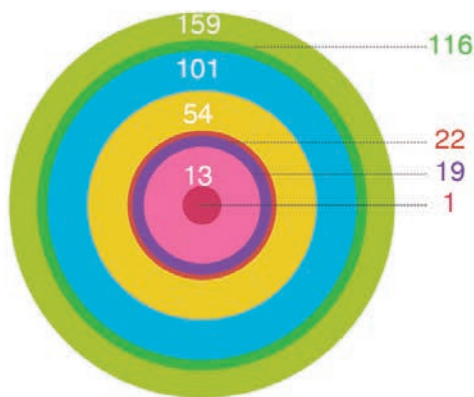




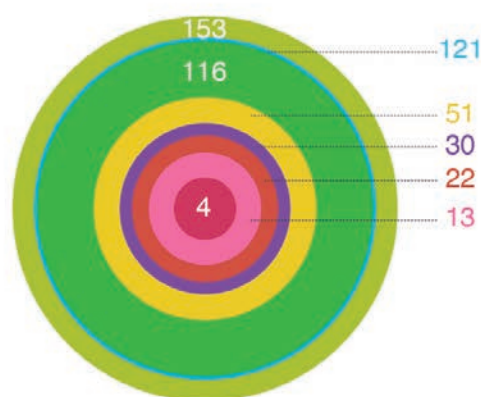
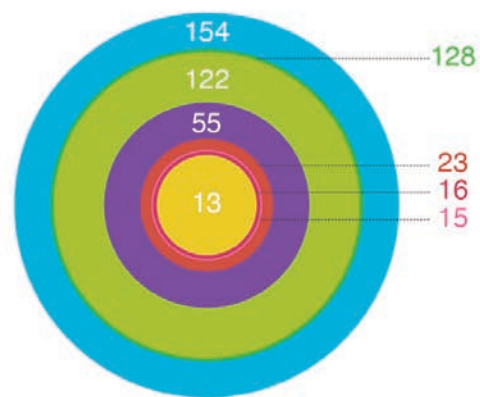
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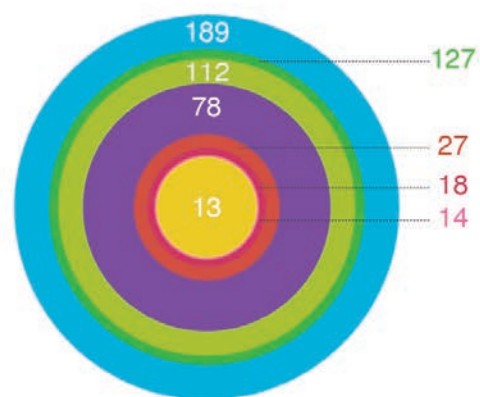
(*) The figures include all IMIBIC staff (researchers, support staff and administrative staff)



2022



2023



- NURSES
- MANAGEMENT STAFF
- IMIBIC RESEARCH SUPPORT SERVICES
- LEADING RESEARCHERS

- ESTABLISHED RESEARCHERS
- RECOGNISED RESEARCHERS
- FIRST STAGE RESEARCHERS
- TECHNICIANS

» RESEARCH STAFF 2023



Note: R1-R4 correspond to the profile descriptors for research careers provided by EURAXESS (HRS4R).

» GENDER PERSPECTIVE

IMIBIC, through its Equality Plan, is committed to implementing actions aimed at promoting gender parity in all personnel groups. The increase in female R3 researchers in last years ensures that there will be more female leading researchers in the coming years.

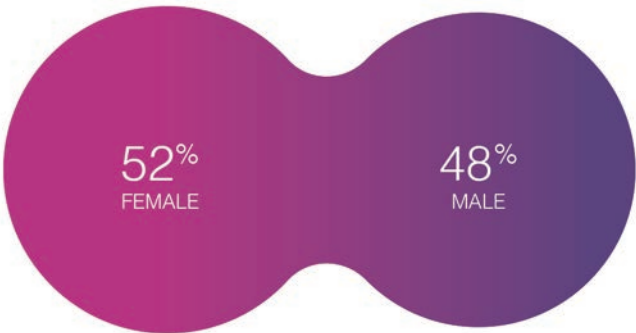
» RESEARCH STAFF 2023



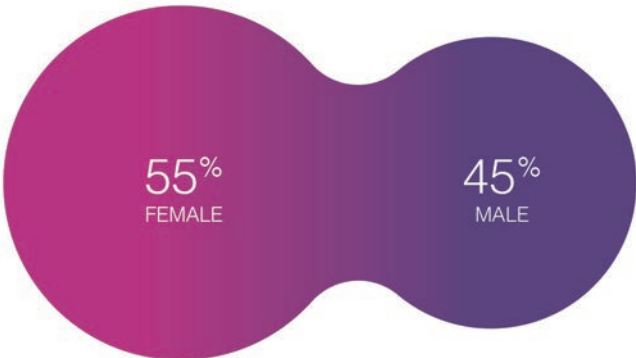
» ALL PERSONNEL IN 2023



» MANAGEMENT STAFF 2023



» IMIBIC RESEARCH SUPPORT SERVICES 2023



The background of the page is a complex, abstract composition of organic, flowing shapes. It features a rich palette of colors including deep reds, bright pinks, vibrant blues, and greens, all set against a dark, almost black, base. The patterns resemble marbled paper or perhaps microscopic biological structures, with some areas showing concentric circles and others showing more chaotic, swirling textures. The overall effect is one of dynamic energy and intricate detail.

**MANAGEMENT
STAFF**

5



5.1 R&D MANAGEMENT UNIT

The mission of the IMIBIC R&D Management Area is to offer a comprehensive service to research staff, both in the research groups and Clinical Management and Primary Care Units, through a single point of contact: the Project Manager. Its main objective is to provide professionals with the necessary support for the proper management and development of their scientific projects, agreements, service contracts and grants, and provide funding bodies with the corresponding justification and closure.

» TEAM MEMBERS:

- **Miriam Cruzado Caballero**
Head of Unit
- **Manuel Aguilar Panadero**
Project Manager
- **Carlos Lázaro Guevara**
Project Manager
- **Mónica Carrasco Jiménez**
Project Manager
- **José Carlos Prieto Baena**
International Project Manager

5.2 INNOVATION & TRANSFER UNIT

The Innovation and Transfer Unit identifies intangible assets resulting from the research carried out within its competencies and provides comprehensive advice on the correct protection and transfer of research results. Ideas produced by researchers are also protected as intellectual or industrial property according to the UNE 166002: 2021 standard for innovation management.

The Innovation Unit provides advisory services to researchers on the transfer of their technologies, such as the drafting of licensing agreements, advice on the creation of start-ups or the establishment of public-private partnerships.

» TEAM MEMBERS:

- **Luis M. Fernández Formoso**
Head of Unit
- **Antonio Ortega Llamas**
Innovation and Transfer Technician

5.3 FINANCIAL AND HUMAN RESOURCES UNIT

» MANAGEMENT

The Financial Management and Human Resources Unit, which includes Accounting, Invoicing, Financial and HR services, provides the Research, Development and Innovation (R+D+i) Unit with general and administrative support, ensuring the optimal use of available resources.

The activity of the Unit is closely aligned with the Institute's mission and is therefore strongly committed to the management of Research and Innovation in the province of Cordoba.

» SERVICES OFFERED BY THIS UNIT INCLUDE:

- Financial support for R+D+i projects
- Maximization of economic resources
- Management of agreements, contracts and private donations
- Human resources management
- Invoicing/billing and maintenance services associated with clinical trials and observational studies
- Budgetary control of activities
- Design and set up of information flows and activities.

» TEAM MEMBERS:

- **Francisco Javier López Ruiz**
Head of Unit
- **Florencio Muñoz Encinas**
Accountant and Human Resources Specialist
- **Silvia Miranda Castellano**
Human Resources Specialist
- **Silvia De la Cruz Gallego**
Human Resources Assistant
- **Raquel Berdud Arias**
Grants & Projects Administrator
- **Marcos Notario Ríos**
Grants & Projects Administrator
- **Maria del Carmen García Serrano**
Clinical Research Assistant
- **Francisca Lobo Ávalos**
Invoicing Assistant
- **Enrique Muñoz Baena**
IT Systems Coordinator
- **Manuel Jesús Carmona Hidalgo**
IT Systems Assistant
- **Miguel Ángel Borreguero Aparicio**
IT Systems Assistant

5.4 STAFF UNIT

The Staff Unit comprises the Control & Reporting, Communication, Quality & Training and Legal services and provides support and assistance to research groups, as well as to the Executive Board of the Institute.

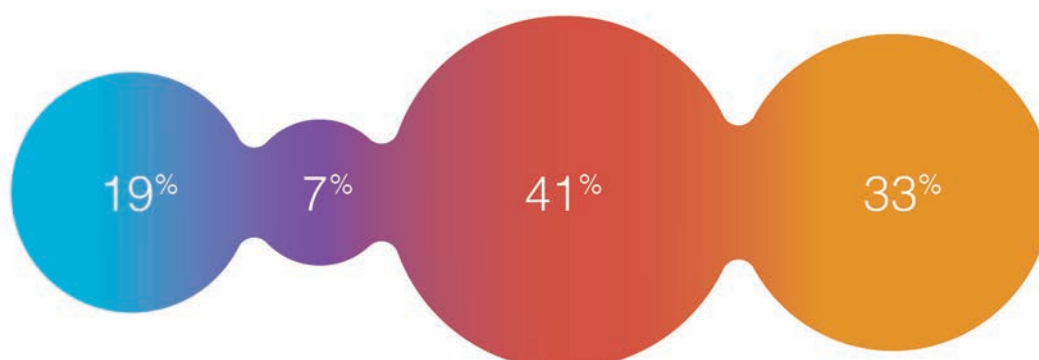
» THE MAIN SERVICES OFFERED BY THIS UNIT INCLUDE:

- Increasing the visibility of the Institute in the province and elsewhere
- Management of fundraising through sponsorship and patronage
- Promotion and dissemination of research results
- Supporting researchers in the preparation and coordination of events
- Management of the Institute's website and social media accounts
- Production of promotional material
- Collecting and validating information relevant to the Institute for further analysis

» TEAM MEMBERS:

- **Estefanía Azcona Corrales**
Management Controller
- **Marta Granados Aguirre**
Administrative Assistant
- **Isabel De Castro Burón**
Communications Officer
- **Inmaculada Varo Urbano**
Communication Technology
- **José M^a Rubio García-Sotoca**
Communications (volunteer staff)
- **Marisa Escabias Parejo**
Quality Specialist
- **David Luna Gómez**
Quality and Training Technician
- **Marta Manganaro**
Legal and Contract Specialist
- **Daylin Valdés Hernández**
Legal and Contract Assistant

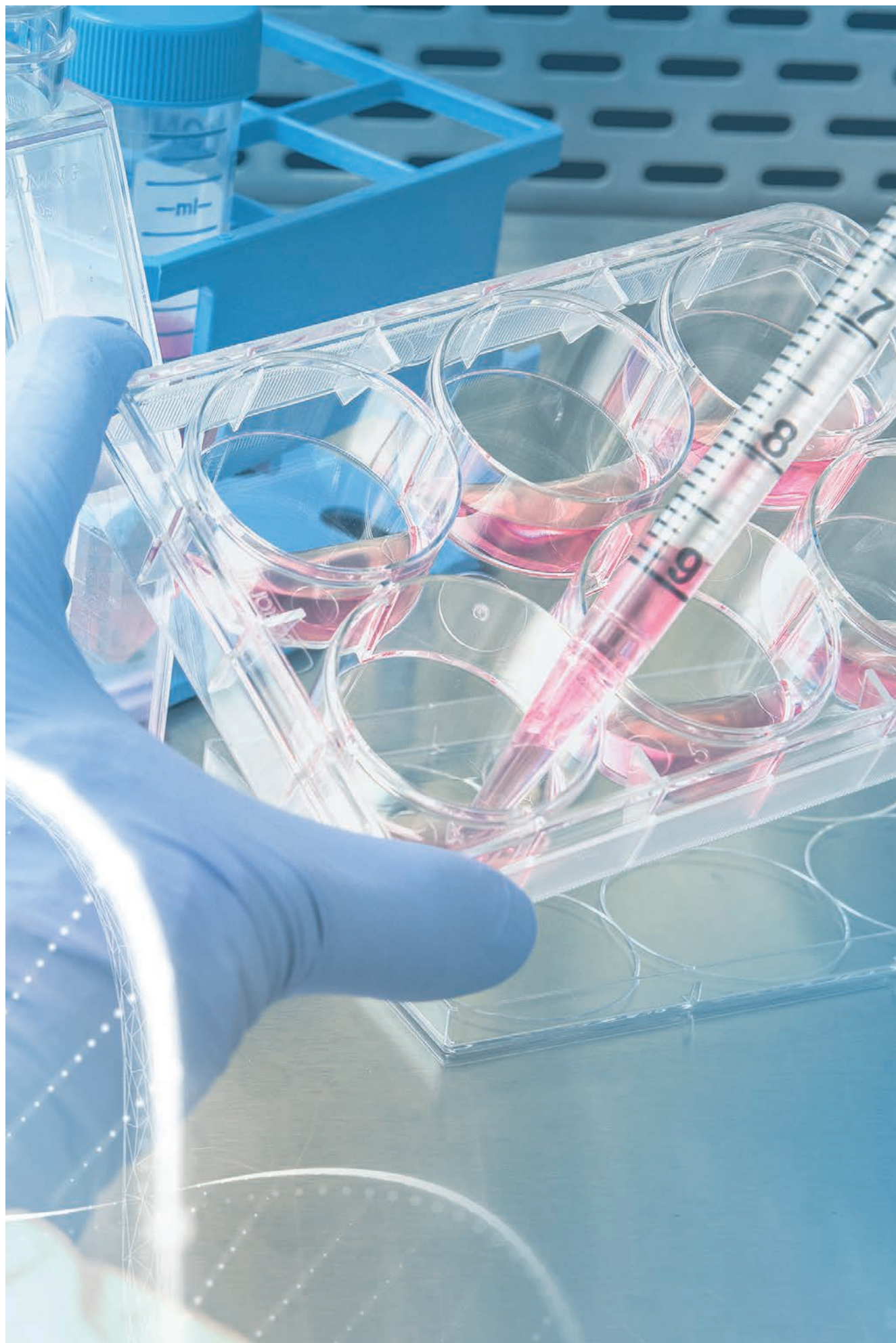
» MANAGEMENT STAFF 2023





FUNDING

6



FIBICO is the financial and legal entity responsible for the management of IMIBIC. The following tables present the approved financial statements of FIBICO for 2023 compared to 2022.

» PROFIT & LOSS ACCOUNT (THOUSANDS OF EUROS)

	2023	2022
REVENUES	15,883.06 €	12,987.54 €
COST OF GOODS	-1,577.59 €	-1,409.87 €
PERSONNEL	-9,343.69 €	-7,265.55 €
OTHER EXPENSES	-4,055.60 €	-3,392.70 €
DEPRECIATION	-901.76 €	-895.68 €
NET INCOME	4.41 €	20.45 €

» BALANCE SHEET (THOUSANDS OF EUROS)

Assets	2023	2022
Non-current assets	10,355.81 €	9,718.66 €
Current assets	29,903.21 €	31,206.64 €
Accounts receivable	15,746.16 €	13,129.89 €
Cash & cash equivalents	15,459.68 €	18,076.75 €
Total Assets	40,259.02 €	40,925.30 €
Liabilities		
Non-current liabilities	4,329.44 €	3,794.29 €
Current liabilities	31,022.80 €	31,931.88 €
Equity	4,906.78 €	5,199.13 €
Total liabilities	40,259.02 €	40,925.30 €

» OVERHEADS

The breakdown of project overhead revenues is as follows (thousands of euros):

OH from research projects	465.4
Private projects	149.30
Other	1.4
Total	616.10
Compensation to IMIBIC from Clinical Research	876,78

The accreditation guide for research institutes states that “at least 20% of the indirect costs received annually should be allocated to actions aimed at supporting IIS researchers, such as capacity building, training, co-financing of contracts, IIS own projects for emerging groups, etc.” In accordance with this, at least 123.2k € should be allocated to these purposes.

Taking into account only co-financing of personnel expenses for competitive calls (Miguel Servet, Sara Borrell, private entities, etc), IMIBIC committed 426.9k € euros to this item.

Each year, IMIBIC launches certain prizes and sponsorships for its groups and researchers, in accordance with the policy framework of its Research Promotion Plan (RPP), aimed at stimulating collaboration with external groups, increasing publications in open access journals, among others. Last year, the amount allocated to this item was 37.5k € euros.

As part of its own program for the promotion of clinical research, the Institute also finances the contracting of staff required in the Institute’s clinical research areas. The amount for staff associated with clinical research (nurses, coordinators, administrative staff, etc.) amounted to 420.80 euros.

FUNDING

In terms of Funding, the positive trend that began in 2018 continued, with a sustained increase in fundraising. However, it is important to consider the exceptional nature of 2022, when Investigo program grant exceeded five million euros.

As highlights, Clinical Trial invoicing exceeded 4.7 million euros, and funds obtained from ISCIII raised 5 million euros.

» THE BREAKDOWN OF FUNDS IS AS FOLLOWS (THOUSANDS OF EUROS):

	2018	2019	2020	2021	2022	2023
IMIBIC Partners	900	900	900	900	900	900
Public Funding	4,430	5,078	7,752	6,679	11,505	6,737
Private Funding	4,544	5,061	5,397	6,317	8,173	8,458
	9,874	11,039	14,049	13,896	20,579	16,095

	2018	2019	2020	2021	2022	2023
Total funds raised	9,874	11,039	15,396	13,956	20,579	16,095

	2018	2019	2020	2021	2022	2023
National	3,927	3,320	4,510	5,264	7,671	5,509
Regional	453	746	3,241	1,416	3,534	773
International	50	1,012	0	57	300	300
IMIBIC Partners	900	900	900	900	900	900
Clinical Trials	2,472	3,248	3,384	4,097	4,652	4,785
Other Private Funding	2,072	1,813	2,014	2,222	3,522	3,673
TOTAL	9,874	11,039	14,049	13,956	20,579	16,095

As in previous years, the balance of private and public funding has been higher for public funding, although the percentage of private funds has increased in recent years.

» CLINICAL TRIALS

Clinical Research is one of IMIBIC'S main strategic pillars. The tables below show the total amount and trend for clinical trial invoicing signed by the Institute since 2017.

(thousands of euros)

	2017	2018	2019	2020	2021	2022	2023
Clinical trials invoiced	1,922	2,472	3,248	3,384	4,097	4,651	4,785

The table below shows the most active medical services in terms of invoicing. At the same time, the management of IMIBIC and the HURS have also implemented a plan to add new medical services to this activity in order to provide the latest available treatments to the patients of Cordoba, as well as take further steps forward along the path of economic sustainability of the Institute.

Clinical Management Units	2017	2018	2019	2020	2021	2022	2023
Oncology	623,740.64	1,051,109.07	1,740,243.38	1,557,507.14	1,874,701.37	2,201,761.51	2.105.051,83
Neurology	246,619.95	332,195.83	275,708.58	411,326.78	588,775.71	528,188.75	426.701,67
Internal Medicine	195,547.81	133,373.75	168,191.43	244,295.11	240,678.43	375,818.72	549.881,13
Rheumatology	148,343.24	227,167.75	237,448.57	135,818.73	260,350.45	171,101.56	288.302,51
Dermatology	48,640.22	115,649.89	276,966.30	398,973.67	180,433.07	271,832.26	275.547,14
Infectious Diseases	131,314.95	202,100.46	109,513.37	102,186.87	263,515.29	327,857.39	257.470,83
Nephrology	90,083.38	174,978.70	108,258.06	89,945.75	122,289.42	139,054.64	95.320,66
Digestive Health	108,596.63	101,872.23	135,662.11	122,986.16	114,066.95	133,282.24	105.306,34
Haematology	54,689.08	65,932.02	94,024.37	140,900.92	70,305.32	207,255.58	196.831,78
Top 10	1,647,575.90	2,404,379.70	3,146,016.17	3,203,941.13	3,715,116.01	4,356,152.65	4,300,413.89
% TOP10	84.9%	89.5%	90.7%	94.7%	92.0%	93.6%	90.3%

The background of the page is a complex, abstract composition. It features a dark, almost black, central area that is surrounded by vibrant, swirling patterns of magenta, pink, and blue. On the left side, there are distinct, parallel bands of yellow and orange, suggesting a layered or geological structure. The overall effect is one of organic, fluid movement, with various sized circular and oval shapes scattered throughout, some appearing as if they are floating or embedded within the larger forms.

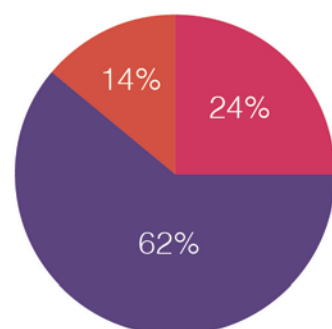
FACTS & FIGURES

7

7.1 STAFF

RESEARCHERS IN IMIBIC GROUPS

IMIBIC comprises 48 research groups, made up of 30 consolidated, 6 emerging and 12 associated groups, respectively, in 2023.



- ASSOCIATED GROUPS
- EMERGING GROUPS
- CONSOLIDATED GROUPS



In 2020, IMIBIC implemented the 2020-2022 Action Plan as part of its Human Resources Strategy for Researchers (HRS4R), which was originally launched in 2017 after receiving the “HR Excellence in Research” award from the European Commission. The IMIBIC HRS4R Action Plan is based on the recommendations and principles set out in the Charter & Code designed to ensure transparency, accessibility, equity and the pursuit of excellence in the recruitment of researchers.

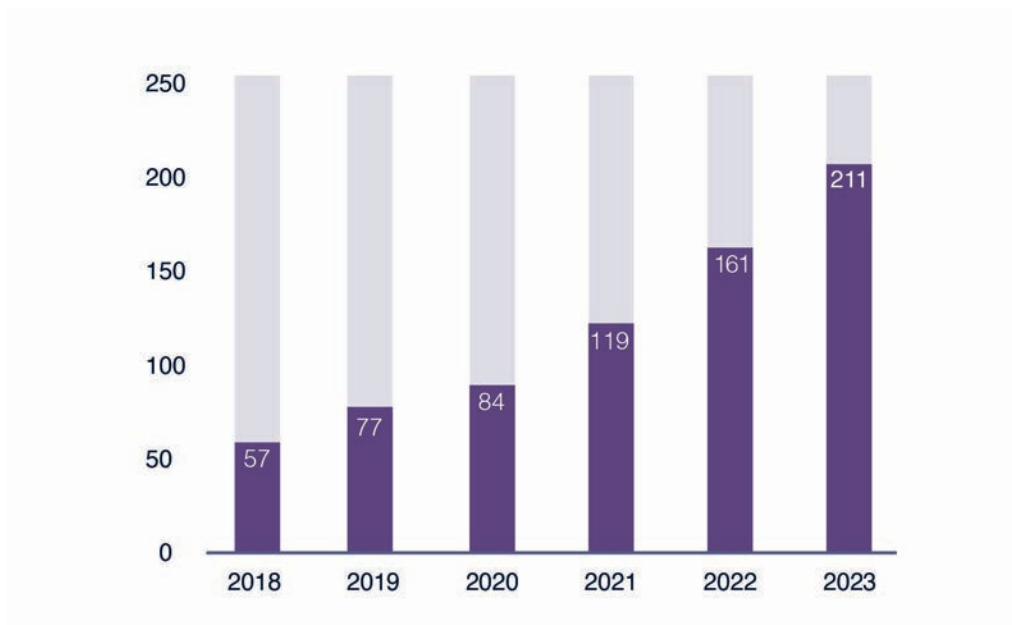
During 2023, has been evaluated the first year included in the 2023-2025 Action Plan in order to be prepared for the external evaluation by the European Commission. It's expected this evaluation will be made by the last term in 2024 and the Institute will expect to renew the recognition of “HR Excellence in Research” award.

RESEARCHERS R1-R4



COMPETITIVE HUMAN RESOURCES GRANTS

During 2023, IMIBIC held the following ongoing human resources grants:



FUNDING AGENCY	CALL	ONGOING IN 2023	GRANTED IN 2023
CE	P2MED	6	
CE	ERC ADVANCED	1	1
BRITISH SOCIETY FOR NEUROENDOCRINOLOGY	UNDERGRADUATE STUDENT LABORATORY EXPERIENCE GRANT 2022 & 2023	2	1
EUROPEAN MOLECULAR BIOLOGY ORGANIZATION	EMBO SCIENTIFIC EXCHANGE GRANTS 2022	1	
ISCI	BIOINFORMÁTICO		1
ISCI	GIS	1	1
ISCI	INTENSIFICACIONES	2	3
ISCI	IPFIS		

FUNDING AGENCY	CALL	ONGOING IN 2023	GRANTED IN 2023
ISCIII	JUAN RODÉS	3	1
ISCIII	MIGUEL SERVET I	5	
ISCIII	MIGUEL SERVET II	1	
ISCIII	PFIS	17	5
ISCIII	RÍO HORTEGA	8	5
ISCIII	SARA BORRELL	7	1
ISCIII	CERTERA		1
ISCIII	MOVILIDAD	4	7
MICINN	PREDCTORAL I+D+i	1	
MICINN	PERSONAL TÉCNICO DE APOYO	2	1
MICINN	RAMÓN Y CAJAL	6	
MICINN	CONSOLIDA		1
MINISTERIO DE TRABAJO	PROGRAMA INVESTIGO	37	
CSYC	POSTDOC ESPECIALISTA (clínicos)	3	
CSYC	POSTDOC	8	
CUII	POSTDOCTORALES	7	
CUII	POEJ	19	
CUII	PAIDI	10	
SAE	PROGRAMA INVESTIGO	36	
SAS	TÉCNICOS DE ECAI	5	
SAS	INTENSIFICACIONES (ACCIÓN A)	10	10
SAS	INTENSIFICACIONES DE LA UNIDAD (ACCIÓN B)- INVESTIGADOR CLÍNICO		6
SAS	NICOLÁS MONARDES (ACCIÓN C)	6	3
PRIVATE FUNDS		3	
TOTAL		211	48

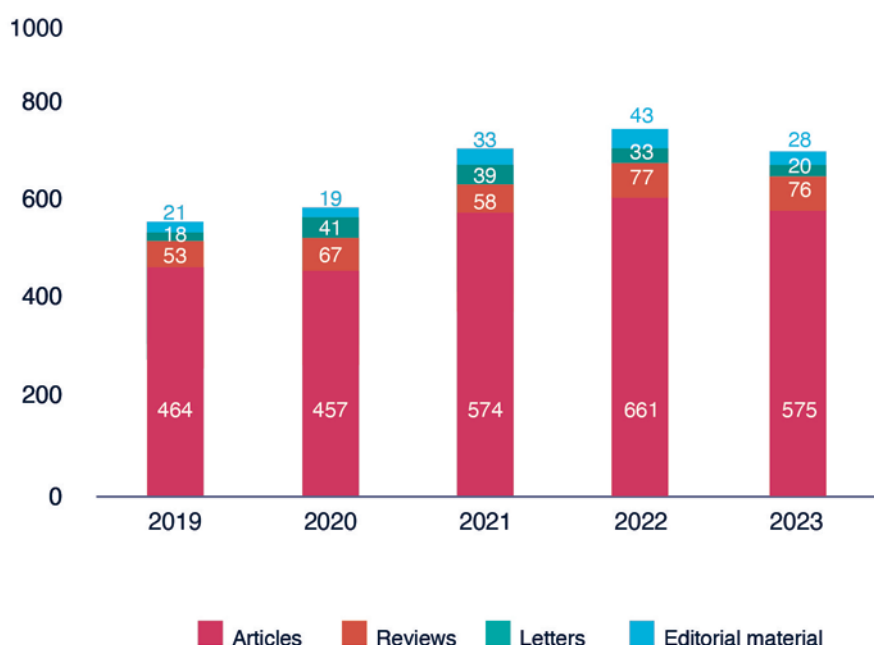
7.2 PUBLICATIONS

In 2023, our researchers contributed 704 scientific documents, 699 of which were published in journals indexed in the Web of Science citation database and ranked in quartiles according to journal impact factor.



The percentage of IMIBIC publications in Open Access in 2023 compared to 2022 has been maintained (60% of the indexed in JCR publications in both years).

PUBLICATIONS (2019–2023)



PUBLICATIONS IN 2023 (BY TYPE)

	TOTAL	D1	Q1 (*)	Q2	Q3-Q4
ORIGINAL ARTICLES	575	103	293	158	124
REVIEWS	76	14	35	22	19
TOTAL ORIGINAL ARTICLES & REVIEWS	651	117	328	180	143
LETTERS	20	3	11	3	6
EDITORIAL MATERIAL	28	3	17	2	9
TOTAL PUBLICATIONS	699	123	356	185	158

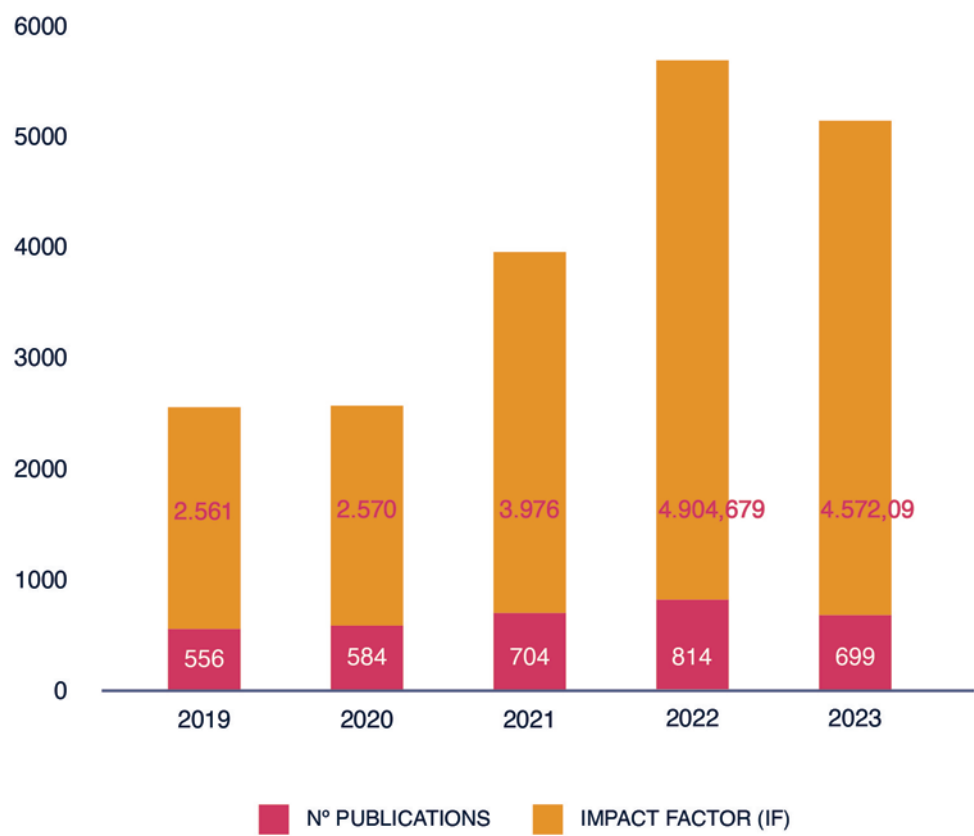
Publications are ranked in quartiles according to journal impact factor

(*) Including D1

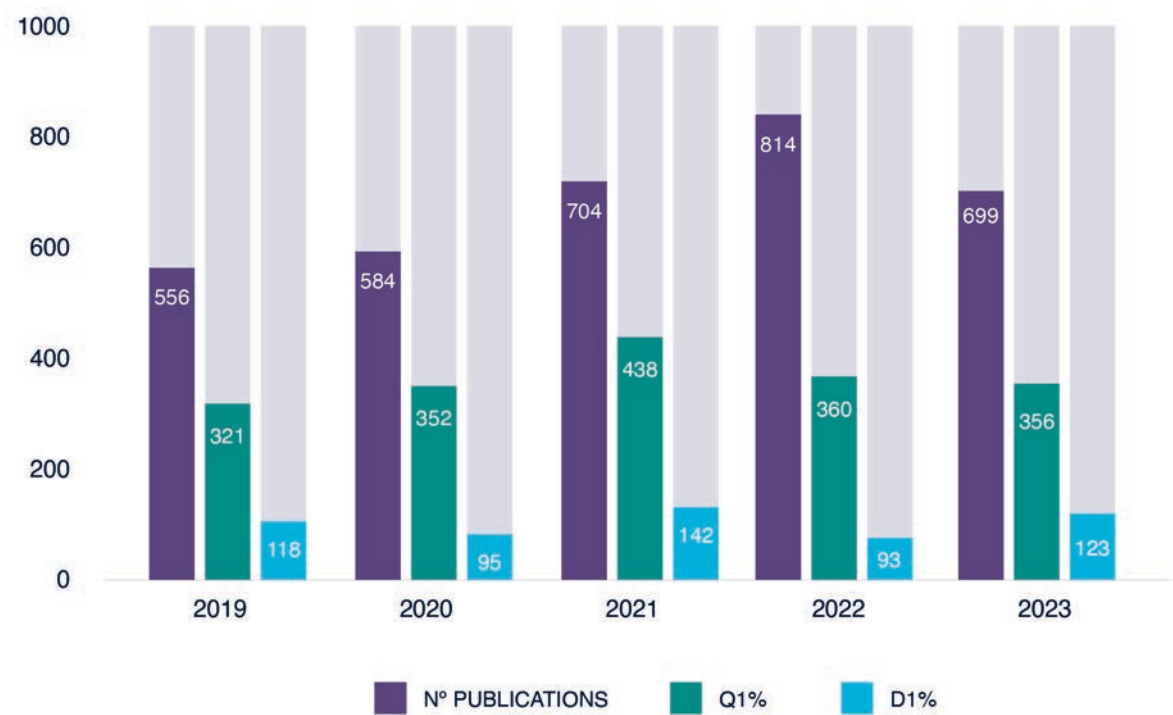
DISTRIBUTION OF PUBLICATIONS IN NATIONAL AND INTERNATIONAL JOURNALS

	N° OF PUBLICATIONS
INTERNATIONAL JOURNALS	248
ORIGINAL ARTICLES	211
REVIEWS	28
EDITORIAL MATERIAL	7
LETTERS	2
NATIONAL JOURNALS	451
ORIGINAL ARTICLES	364
REVIEWS	48
EDITORIAL MATERIAL	21
LETTERS	18
TOTAL PUBLICATIONS	699

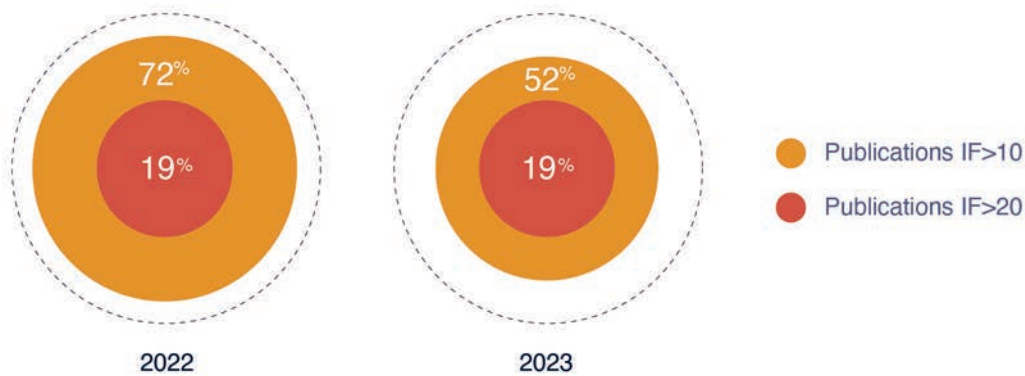
EVOLUTION OF PUBLICATIONS AND TOTAL IMPACT FACTOR



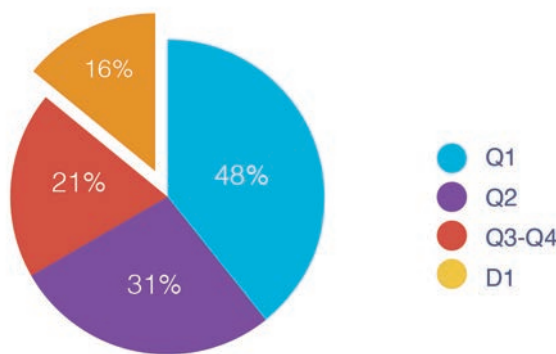
EVOLUTION OF PUBLICATIONS IN QUARTILE 1 & DECILE 1 JOURNALS



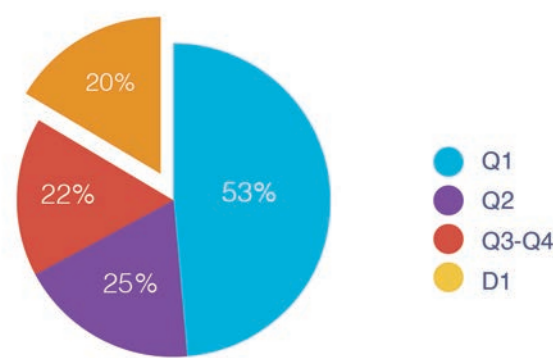
The percentage of articles in D1 journals with IF>10 reduced by 35% in 2023 compared to 2022. However, in case of articles in D1 journals with IF>20 remained at 19%:



PUBLICATIONS LED BY IMIBIC RESEARCHERS (ORIGINAL ARTICLES + REVIEWS)



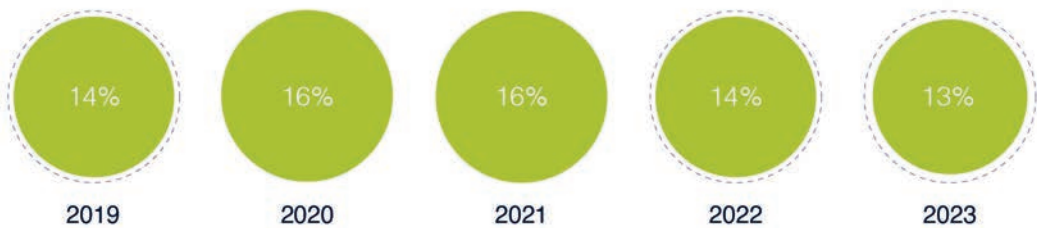
PUBLICATIONS IN COLLABORATION WITH NATIONAL AND INTERNATIONAL GROUPS (ORIGINAL ARTICLES + REVIEWS)



DISTRIBUTION OF PUBLICATIONS IN COLLABORATION WITH NATIONAL AND INTERNATIONAL GROUPS



PUBLICATIONS: INTRAMURAL COLLABORATIONS



AFFILIATION OF ARTICLES AND REVIEWS



BIBLIOGRAPHIC INDICATORS

	2019	2020	2021	2022	2023
FIRST, LAST OR CORRESPONDING AUTHOR	50%	45%	45%	49%	47%
CATEGORY NORMALIZED CITATION IMPACT (CROWN INDICATOR) (**)	1.56	1.83	1.66	1.91	1,88
HIGHLY CITED PAPERS (HCP INDICATOR) (***)	19%	23%	22%	23%	23%
PUBLICATIONS LED BY IMIBIC ACCORDING TO HCP INDICATOR	73	82	94	93	112

(**) CATEGORY NORMALISED CITATION IMPACT (CROWN INDICATOR): Number of citations of publications during the period under analysis in relation to the world average of citations taken from the FIELD BASELINES-CITATION RATES in Essential Science Indicators (Clarivate Analytics).

(***)HIGHLY CITED PAPERS (HCP INDICATOR): Percentage of publications in the top 10% of the most cited publications worldwide in their subject category and year of publication out of the total number of publications in the same category.

7.3 NUMBER OF CLINICAL GUIDELINES, CONSENSUS DOCUMENTS AND PROTOCOLS

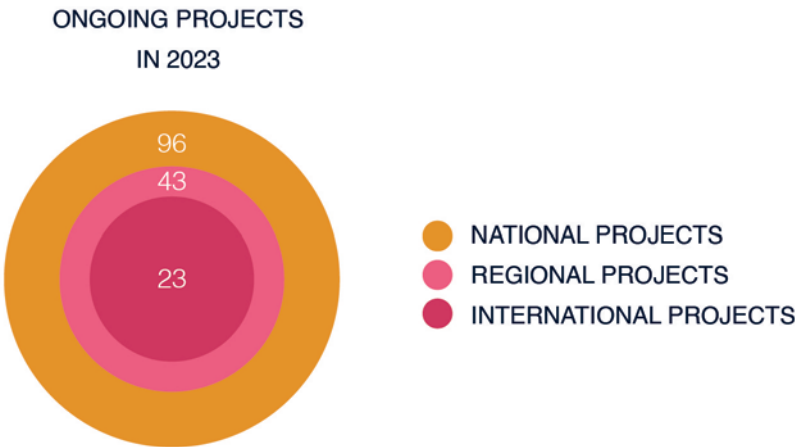
IMIBIC researchers have contributed to several international Clinical Guidelines with an outstanding impact on patient care and medical practice.

	TOTAL	%Q1
CLINICAL GUIDELINES AND CONSENSUS DOCUMENTS	22	32%

Total number of Clinical Guidelines and Consensus Documents published in 2023 in journals indexed in the ISI-Web of Science. Journals were ranked by quartiles according to impact factor.

7.4 RESEARCH PROJECTS AND NETWORKS

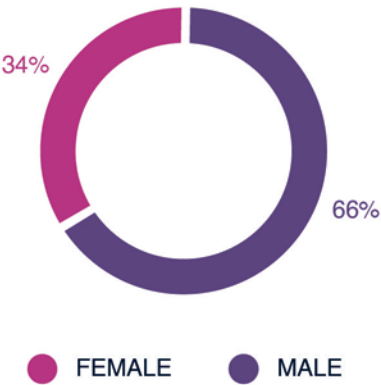
Our researchers contributed to the development of a large number of competitive projects: **162** were ongoing in 2023.



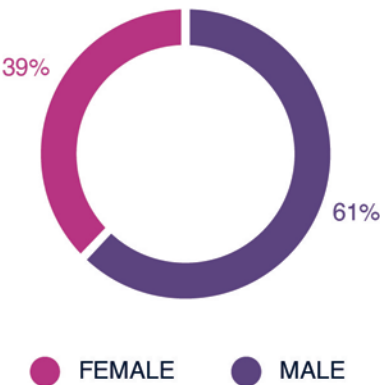
Figures represent the number of ongoing projects financed by national and international funding agencies, both public and private, in 2023.

RESEARCH PROJECTS BY GENDER OF PRINCIPAL INVESTIGATOR

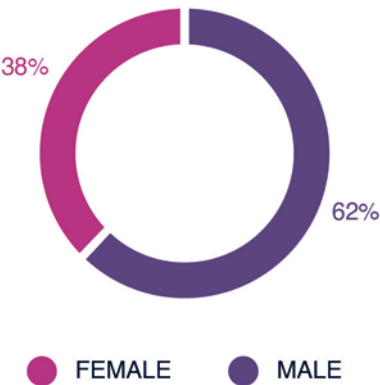
NATIONAL PROJECTS BY
GENDER OF PRINCIPAL INVESTIGATOR



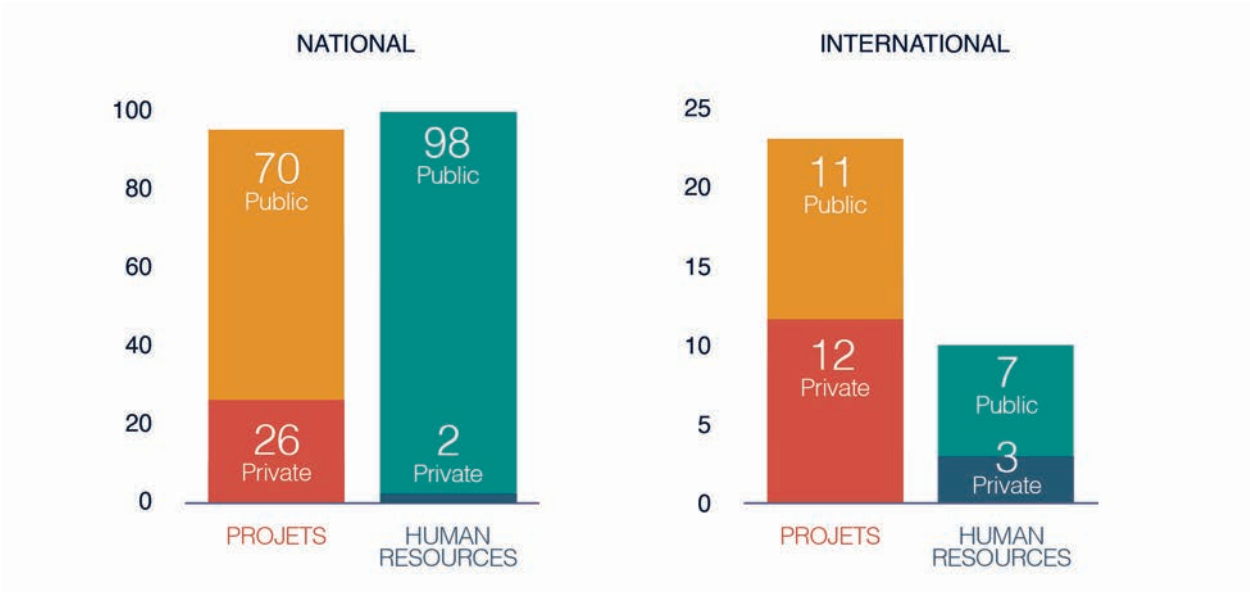
INTERNATIONAL PROJECTS BY
GENDER OF PRINCIPAL INVESTIGATOR



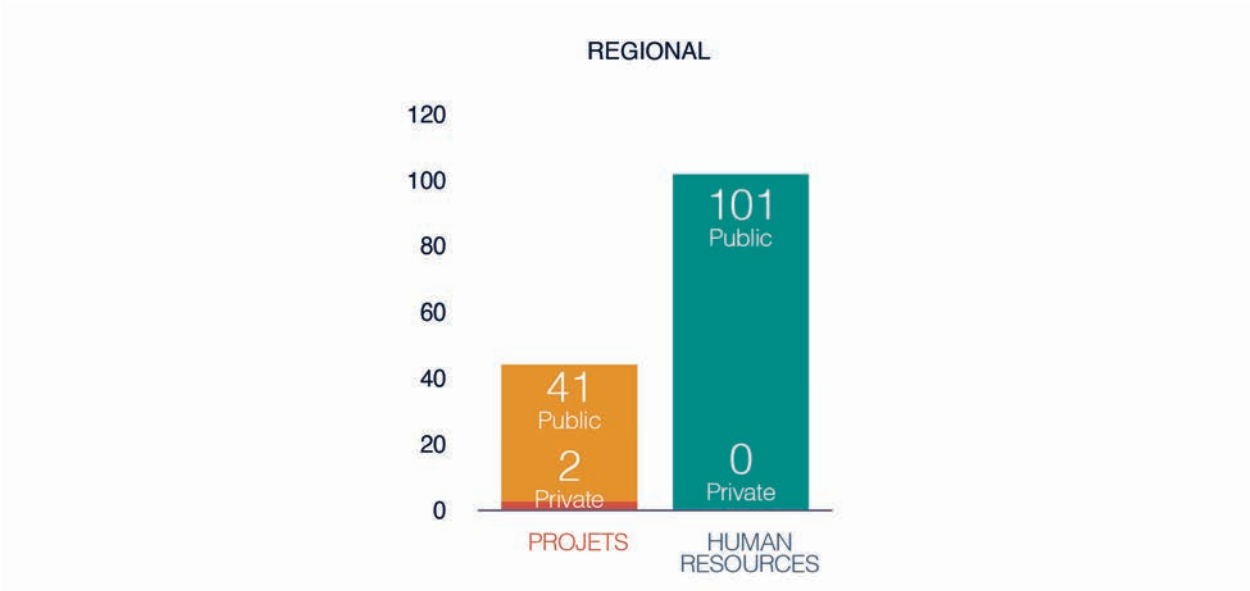
RESEARCH PROJECTS BY
GENDER OF PRINCIPAL INVESTIGATOR



RESEARCH PROJECTS ACCORDING TO SOURCE OF FUNDING:



In addition to national and international grants, our researchers also obtained research grants through competitive calls funded by regional agencies:



In the human resources data, we must highlight the effect of the Investigo Program, which in 2023 led to the incorporation of a total of 76 researchers, 39 of which were granted through the national call and 37 through the regional call.

ONGOING PROJECTS IN 2023

NATIONAL		No. OF ONGOING PROJECTS
Public		
	Institute of Health Carlos III (ISCIII)	58
	Ministry of Science and Innovation	12
Private		
	Private Funding	26
REGIONAL		
Public		
	Regional Ministry of Health and Consumer Affairs	22
	Regional Ministry of Universities, Research and Innovation	3
	FPS	16
Private		
	Private Funding	2
INTERNATIONAL		
Public		
	European Commission	11
Private		
	Private Funding	12
No. of ONGOING PROJECTS		162

PROJECTS FUNDED BY GRANTS IN 2023

NATIONAL		No. OF GRANTED PROJECTS
Public		
	<i>Institute of Health Carlos III (ISCIII)</i>	13
	<i>Ministry of Science and Innovation</i>	10
Private		
	<i>Private Funding</i>	9
REGIONAL		
Public		
	<i>Regional Ministry of Health and Consumer Affairs</i>	3
	<i>Regional Ministry of Universities, Research and Innovation</i>	0
	<i>FPS</i>	2
	<i>SAS</i>	0

Private

Private Funding	1
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INTERNATIONAL

Public

European Commission	1
Era4health healthequity 2023 (Regional Ministry of Health and Consumer Affairs)	1
TRANSCAN-3: Joint transnational call for proposals JTC 2023-ISCIII	1

Private

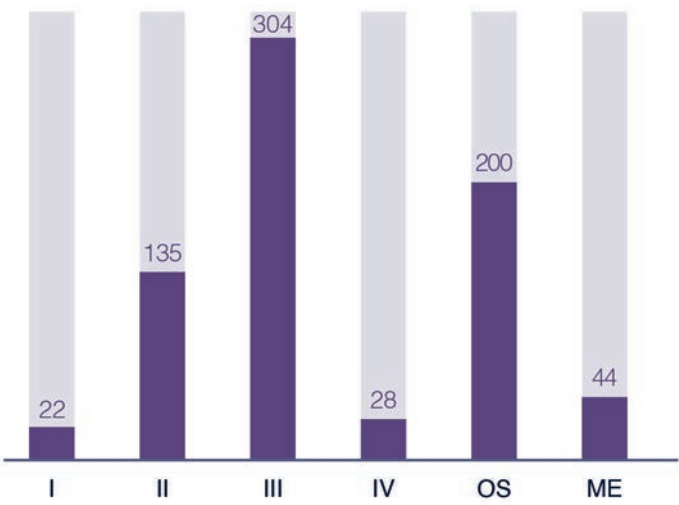
Private Funding	4
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No. of PROJECTS GRANTED	45
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7.5 CLINICAL TRIALS

The graphs below summarise the number of active clinical trials in 2023.
In 2023, 154 new clinical trials were started and 733 were ongoing. These include 489 clinical studies with drugs, 200 observational studies and 44 trials of new medical devices.

ONGOING CLINICAL TRIALS IN 2023



OS: Observational Studies / ME: Medical Equipment

Most of the clinical trials were sponsored by Spanish industry and were in the areas of oncology, dermatology, neurology, digestive system, internal medicine, rheumatology and hematology.

CLINICAL TRIALS BY GENDER OF PRINCIPAL INVESTIGATOR



» CLINICAL TRIALS IN 2023, CLASSIFIED BY SPONSOR TYPE

	CLINICAL TRIALS WITH DRUGS	OBSERVATIONAL STUDIES	MEDICAL EQUIPMENT
PHARMACEUTICAL INDUSTRY	393	70	18
OTHER ENTITIES	90	120	24
SELF-SPONSORED (FIBICO)	6	10	2
TOTAL	489	200	44







**SCIENTIFIC
PRODUCTION**

8

8.1. SCIENTIFIC PROGRAMS

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» GENERAL GOALS

The main goal of the Aging and Frailty program is to elucidate the molecular and cellular mechanisms sustaining healthy aging in order to establish psychosocial and nutritional interventions to prevent frailty and age-associated diseases.

Aging represents a major risk factor for cancer and chronic inflammatory diseases. Increasing evidence has helped unveil some of the underlying mechanisms explaining this association, among which immunosenescence and inflammaging play pivotal roles. Notwithstanding this, there is still a gap of knowledge that needs to be filled, specially in those aspects related to the prevention and/or reversal of age-associated diseases. In this scenario, there is an active search for novel therapies and psychosocial or nutritional interventions to tackle these diseases in order to increase both the quality and expectancy of life.

The Aging and Frailty program of the IMIBIC is composed by several groups with different backgrounds. Far from being a drawback, this represents a major driving force of the program, as the multidisciplinary of the groups enable to address aging from multiple angles and design collaborative projects. Thus, the groups tackle aging research from analyses of the molecular and cellular aspects of cellular and system senescence to clinical and interventional approaches. In this line, one major challenge is to integrate the clinical data with the molecular information to establish the features of both healthy aging and frailty that may pave the way to identify novel targets for therapeutic and/or nutritional interventions.

Accordingly, the research groups in Program 1 carry out a variety of studies, from translational to clinical, that have yielded this year over one hundred publications, including original articles and reviews, associated with the competitive projects that have been awarded by regional and national funding agencies.

» 5 HIGHLIGHTED PUBLICATIONS

1. Recommendations for the use of anti-dsDNA autoantibodies in the diagnosis and follow-up of systemic lupus erythematosus
- A proposal from an expert panel
2. Influence of genetic and interannual factors on the fatty acids profile of virgin olive oil
3. The Impact of Metabolic Syndrome Risk Factors on Lung Function Impairment: Cross-Sectional Study
4. Impact of the pre-drying process on the volatile profile of on-farm processed Ecuadorian bulk and fine-flavour cocoa varieties
5. Assessing polygonal approximations: A new measurement and a comparative study

» SUB-PROGRAMS

- Aging of the immune system: Immunosenescence and inflammaging
- Frailty and well-being in the elderly
- Care of chronically ill patients

Following the research lines defined in Scientific Program 1, the various groups have focused their efforts on objectives aimed, among other aspects, at:

- i) Development of novel strategies in immunotherapy.
- ii) Use of oral nutritional supplements and the identification of new prognostic and therapeutic markers in heart failure.
- iii) Analyzing psychosocial and nutritional factors in elderly individuals, the chronically ill and cancer patients to better stratify their state of health, and to assess the relevance of implementing care-based strategies improve their well-being.
- iv) Development of metabolomic approaches for the identification and characterization of bioactive compounds with biomedical interest.
- v) Identification of risk biomarkers associated with the immune response to SARS-CoV-2 infection.
- vi) Novel strategies to treat depression.

» HIGHLIGHTS IN 2023

No. of PUBLICATIONS: 107

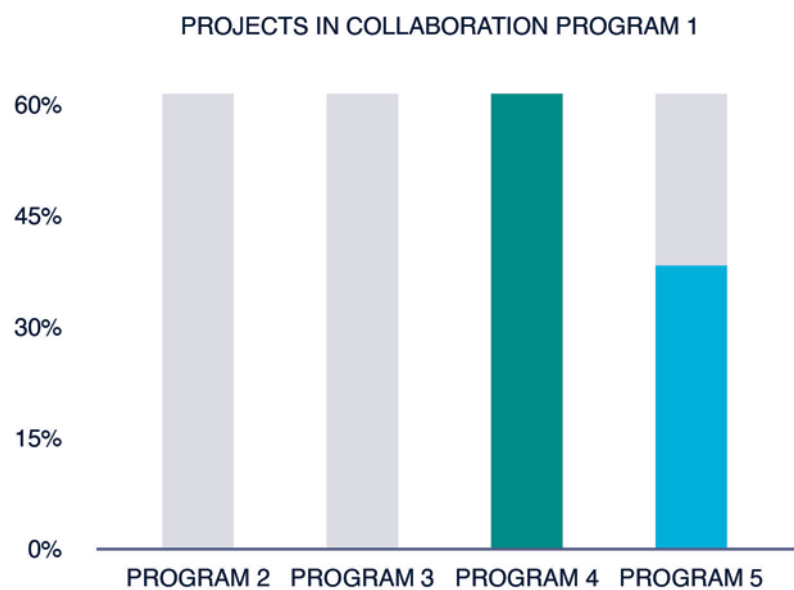
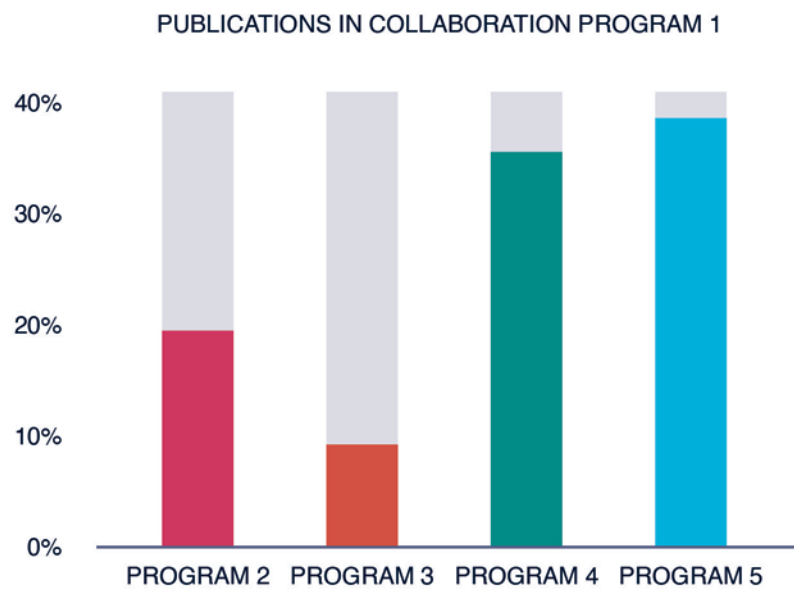
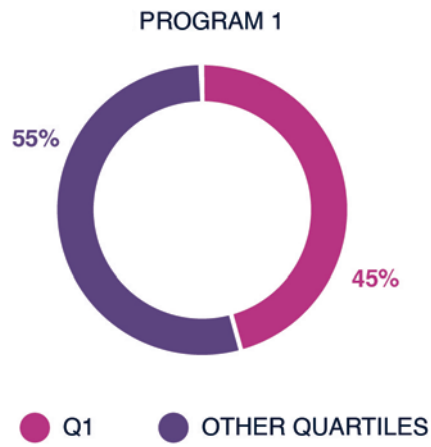
- Own: **68%**
- No. of collaborative publications: **29**
- IF: **486.80**
- Q1 (including D1): **45%**
- D1: **13%**

No. of ONGOING PROJECTS: 35

- N° of collaborative projects: **10**

No. of ONGOING CLINICAL TRIALS: 11

- PROGRAM 1



SCIENTIFIC PROGRAM 2: NUTRITION, ENDOCRINE AND METABOLIC DISEASES

» GENERAL GOALS

This program aims at improving the health of people with metabolic and endocrine diseases by generating novel knowledge that helps prevent their development as well as to design useful tools for diagnosis and treatment. In this scenario, lifestyle modifications, in particular, nutrition, play pivotal roles.

Metabolic diseases, including obesity, diabetes, and metabolic dysfunction–associated steatotic liver disease (MASLD) are extremely common. Importantly, metabolic diseases are major risk factors for cardiovascular disease, neurological disease, kidney disease and even for infectious disease, as has been shown during the COVID19 pandemic. An inverse link between obesity and reproductive health has been also clearly established. In all, these diseases decrease not only the quality of life of patients but they may also reduce their life expectancy, with an impact in both the well-being of society and public health sustainability. Unfortunately, there is still a gap in our knowledge on the causes and consequences of these diseases, the mechanisms involved in their development, the nature of all their comorbidities and how to effectively prevent and treat them. In this scenario, the groups working in Scientific Program 2 develop research on different aspects of metabolic and endocrine diseases, providing advanced data on studies in humans, animal and cellular models. Accordingly, our work is based on the integration of basic scientists with clinicians in fields addressing from genetic and epigenetic studies to molecular mechanisms in biology, such as oxidative stress, inflammation, fibrosis or hypoxia. All this work is oriented towards providing efficient translational tools to tackle metabolic and endocrine diseases from a personalized perspective.

The different backgrounds of the research teams composing Program 2 enable both singular research in the different fields corresponding to the different subprograms included in Program 2, and fostering interdisciplinary research based on collaborative projects. This has enabled researchers to publish a considerable number of original articles and reviews in relation to the national and international competitive grants that have been awarded to our researchers, including both senior scientists and young researchers at different stages of their career that were already or have joined our groups through highly competitive programs. Noteworthy, one of the PIs in Program 2, Dr. Tena-Sempere, received an ERC Advanced grant this year and was also awarded an additional EU grant in collaboration with other groups in the program (eprObes). These and other achievements and awards gained in this year highlight our ambition to reach excellence in research, which underlies the spirit of a highly competitive research program on highly prevalent diseases, ranging from diabetes and obesity to various reproductive disorders, on the basis of personalized and precision medicine.

» 5 HIGHLIGHTED PUBLICATIONS

1. Molecular basis of normal and pathological puberty: from basic mechanisms to clinical implications. DOI: 10.1016/S2213-8587(22)00339-4
2. Is cognitive reserve associated with the prevention of cognitive decline after stroke? A Systematic review and meta-analysis. DOI: 10.1016/j.arr.2022.101814
3. Adherence to a Mediterranean lifestyle improves metabolic status in coronary heart disease patients: A prospective analysis from the CORDIOPREV study. DOI: 10.1111/joim.13602
4. Plasma lipidic fingerprint associated with type 2 diabetes in patients with coronary heart disease: CORDIOPREV study. DOI: 10.1186/s12933-023-01933-1
5. Interaction between gut microbiota and sex hormones and their relation to sexual dimorphism in metabolic diseases. DOI: 10.1186/s13293-023-00490-2

» SUB-PROGRAMS

- Metabolic Syndrome&Nutrition: GC09, GC11, GA05, GA15, GE04
- Reproductive Health: GC10
- Pediatric and Perinatal Diseases: GC23

» HIGHLIGHTS IN 2023

No. of PUBLICATIONS: 123

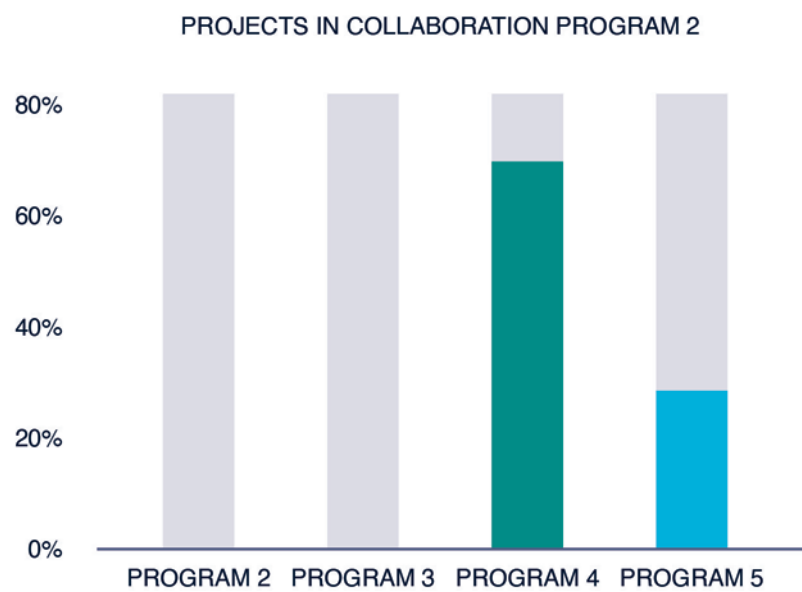
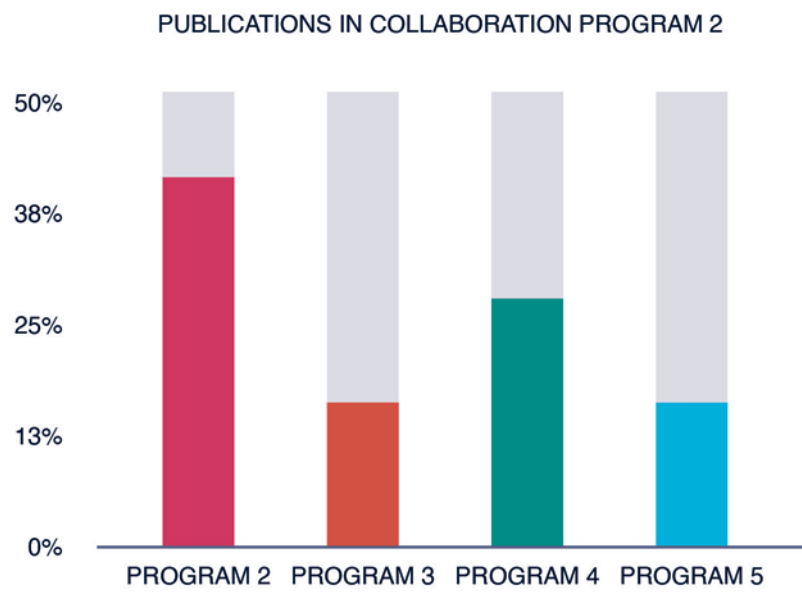
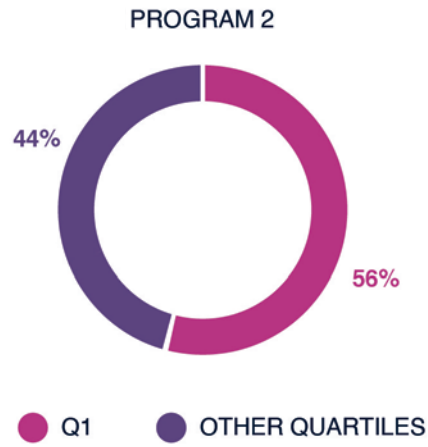
- Own: **44%**
- No. of collaborative publications: **13**
- IF: **737.68**
- Q1 (including D1): **56%**
- D1: **20%**

No. of ONGOING PROJECTS: 29

- No. of collaborative projects: **6**

No. of ONGOING CLINICAL TRIALS: 43

- PROGRAM 2



SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» GENERAL GOALS

The objective is to pursue a unified line of high-quality research focused on health issues related to host-pathogen interactions, particularly in the fields of infectious, zoonotic, immunological, and organ transplantation diseases. The goal of this research is to generate outcomes that can be directly applied in clinical practice, influencing healthcare professionals and ultimately improving patient quality of life and overall social well-being.

A key strategy involves strengthening collaborations between research groups at regional, national, and international levels and, where possible, with public or private companies. Setting clear, achievable goals for research projects is also essential, as it enhances the likelihood of success, encourages the creation of new spin-offs by team members, and establishes a strong foundation for research training while ensuring stable employment for researchers.

The actions implemented to reach these goals must be both specific and effective, adopting a translational approach that improves patient care. This may be achieved through the transfer of research outcomes to industry or by integrating them into clinical practice guidelines.

In 2023, a total of 8 research groups participated in IMIBIC Program 3, including 3 consolidated groups, 1 emerging group, and 4 associated groups. Together, they produced 84 publications, managed 18 active projects, and conducted 29 clinical trials throughout the year.

» 5 HIGHLIGHTED PUBLICATIONS

1. Fernández-Martínez NF, Rivera-Izquierdo M, Ortiz-González-Serna R, Martínez-Ruiz V, Lardelli-Claret P, Aginagalde-Llorente AH, Valero-Ubierna MDC, Vergara-Díaz MA, Lorusso N. **Healthcare-associated infections by multidrug-resistant bacteria in Andalusia, Spain, 2014 to 2021**. Euro Surveill. 2023 Sep;28(39):2200805. doi: 10.2807/1560-7917.ES.2023.28.39.2200805. PMID: 37768559
2. Pérez-Nadales E, Fernández-Ruiz M, Natera AM, Gutiérrez-Gutiérrez B, Mularoni A, Russelli G, Pierrotti LC, Pinheiro Freire M, Falcone M, Tiseo G, Tumbarello M, Raffaelli F, Abdala E, Bodro M, Gervasi E, Fariñas MC, Seminari EM, Castón JJ, Marín-Sanz JA, Gálvez-Soto V, Rana MM, Loeches B, Martín-Dávila P, Pascual Á, Rodríguez-Baño J, Aguado JM, Martínez-Martínez L, Torre-Cisneros J; REIPI/INCREMENT-SOT Study Group. **Efficacy of ceftazidime-avibactam in solid organ transplant recipients with bloodstream infections caused by carbapenemase-producing *Klebsiella pneumoniae***. Am J Transplant. 2023 Jul;23(7):1022-1034. doi: 10.1016/j.ajt.2023.03.011. Epub 2023 Apr 5. PMID: 37028515
3. González-Gallardo C, Martínez-Atienza J, Mataix B, Muñoz-Ávila JI, Daniel Martínez-Rodríguez J, Medialdea S, Ruiz-García A, Lizana-Moreno A, Arias-Santiago S, de la Rosa-Fraile M, Garzon I, Campos A, Cuende N, Alaminos M, González-Andrades M, Mata R. **Successful restoration of corneal surface integrity with a tissue-engineered allogeneic implant in severe keratitis patients**. Biomed Pharmacother. 2023 Jun;162:114612. doi: 10.1016/j.biopha.2023.114612. Epub 2023 Mar 28. PMID: 36989713
4. Martínez-Castillo R, González-Gallardo C, Muñoz-Ávila JI, Font P, Villalba-González M, Stoikow I, Fernández-Choquet de Isla I, Pugliese F, Anaya-Alaminos R, García-Serrano JL, Hermoso-Fernández F, Contieri F, Muñoz-de-Escalona-Rojas JE, Pérez-Fajardo L, Blanco-Blanco M, Jiménez-Gómez Y, González-Andrades M. **Treatment of neovascular age-related macular degeneration within 48 h from diagnosis improves long-term functional outcome**. Biomed Pharmacother. 2023 Apr;160:114368. doi: 10.1016/j.biopha.2023.114368. Epub 2023 Feb 6. PMID: 36753959
5. Lopez-Lopez P, Frias M, Perez-Jimenez AB, Freyre-Carrillo C, Pineda JA, Aguilera A, Fuentes A, Alados JC, Reina G, Ramirez-Arellano E, Viciano I, Mesquita J, Caballero-Gomez J, Rivero-Juarez A, Rivero A; HEPVIR and GEHEP-014 Study Groups. **Optimization of the molecular diagnosis of the acute hepatitis E virus infection**. Microb Biotechnol. 2023 Jun;16(6):1325-1332. doi: 10.1111/1751-7915.14247. Epub 2023 Mar 25. PMID: 36965117

» SUB-PROGRAMS

- HIV + Hepatitis C
- Transplantation
- Multiresistance

HIV AND/OR HCV + HEV INFECTION

In 2023, a total of 27 publications were produced on these topics, with 19 appearing in Q1 journals, including 3 in the prestigious D1 category.

In the field of HIV research and treatment, the internationally funded project remained active throughout 2023, with its primary goal being to evaluate the real-world effectiveness of a new antiretroviral treatment combination. This study specifically focuses on patients experiencing severe immunosuppression due to HIV. One of the notable publications includes a study that led to an improvement of the method developed by the research group for the detection, characterization, and sequencing of the Hepatitis E virus (HEV). The proposal offers an innovative methodology by combining two broad-spectrum PCR assays targeting different regions of the HEV viral genome. The results demonstrated that this strategy is effective, showing an increase in the accuracy and sensitivity of Hepatitis E diagnosis, significantly enhancing the molecular diagnostic efficacy for HEV. This approach has real potential to improve diagnostic capacity, with a significant impact on clinical management, reducing the number of false-negative patients by up to 20%. Additionally, the improvement of this method allows for the detection of emerging viruses, such as the rat Hepatitis E virus (RHEV). These results were officially published in Microbial Biotechnology, a journal ranked in the Q1 category. The work has been recognized as one of the most outstanding publications from Program 3.

Additionally, in the same research area, there are other notable studies, including the ISCIII-funded investigation “Magnitud e impacto clínico de la infección por Orthohepevirus C,” and the internationally funded clinical trial titled “Ensayo clínico fase IV, aleatorizado, multicéntrico y doble ciego diseñado para evaluar la seguridad y la conveniencia del cambio de DTG/3TC por BIC/FTC/TAF en personas con VIH, buen control virológico y vulnerabilidades neuropsiquiátricas: Estudio MIND”.

» **TRANSPLANTATION/MULTIRESISTANCE**

In 2023, a total of 36 publications were produced on these topics, with 20 appearing in Q1 journals, including 13 in the prestigious D1 category.

Among these publications is an observational study investigating cases of healthcare-associated infections (HAIs) caused by multidrug-resistant (MDR) bacteria reported to the epidemiological surveillance system of Andalusia, Spain, between 2014 and 2021. The study describes the reported cases and their spatiotemporal distribution, with a particular emphasis on social determinants of health (SDoH). These findings have been officially published in Eurosurveillance, a prestigious D1-ranked journal with an impact factor of 19, making it the most notable manuscript in this area. This work has been recognized as one of the most outstanding publications from Program 3.

In the same field, there are other significant studies, such as the ISCIII-funded research “Papel de los microRNAs en la respuesta inmune discordante frente a CMV e impacto en la reconstitución inmune y la replicación de CMV en trasplante de progenitores hematopoyéticos”, as well as the internationally funded clinical trial “Efficacy of CMV Prophylaxis with Letermovir in Lung Transplant Recipients (LETERCOR).”

Regarding the specific objectives of the Multiresistance subprogram, which involves close collaboration between the GC03 and GC24 research groups, there was a substantial scientific output in 2023. Notably, researchers from Program 3 coordinate the European project “Combatting Bacterial Resistance in Europe” (COMBACTE) as part of the New Drugs 4 Bad Bugs (ND4BB) initiative. Additionally, the ISCIII-funded study “Emergence of OXA-48 Carbapenemase-Producing Proteus mirabilis: Clinical Significance and Microbiological Characterization (PROTECOR Study)” also stands out in this area.

» **HIGHLIGHTS IN 2023**

No. of PUBLICATIONS: **84**

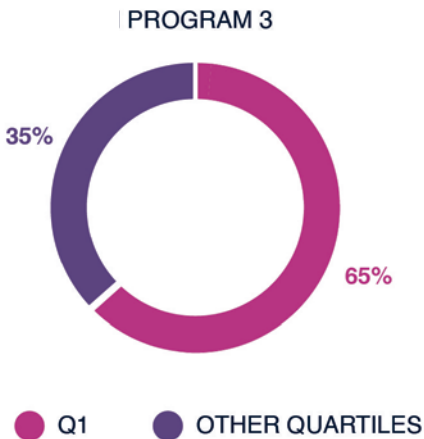
- Own: **50%**
- No. of collaborative publications: **17**
- IF: **708.61**
- Q1 (including D1): **65%**
- D1: **26%**

No. of ONGOING PROJECTS: **18**

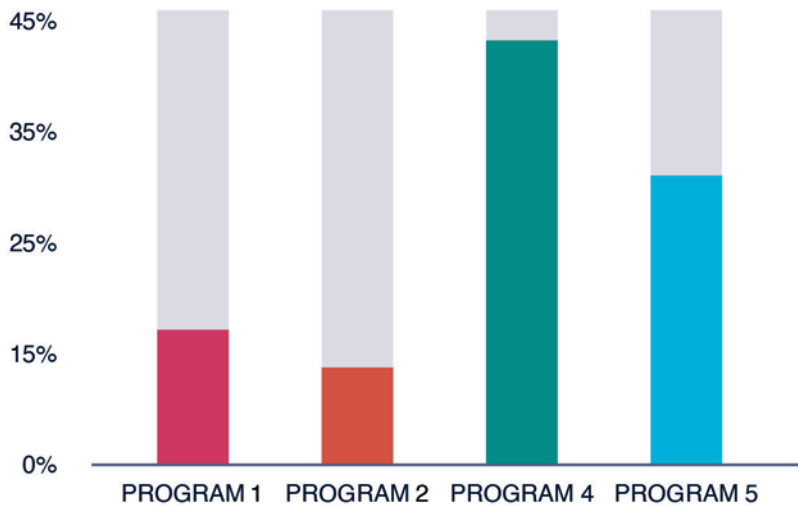
- N° of collaborative projects: **2**

No. of ONGOING CLINICAL TRIALS: **29**

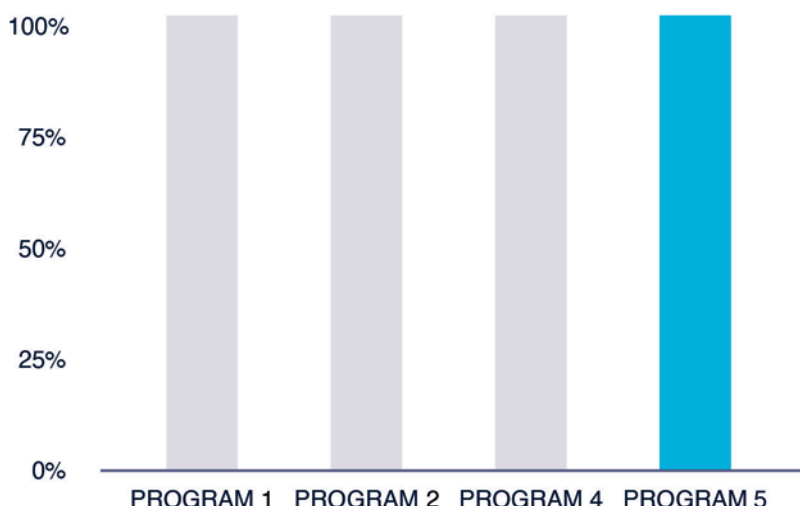
- PROGRAM 3



PUBLICATIONS IN COLLABORATION PROGRAM 3



PROJECTS IN COLLABORATION PROGRAM 3



SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» GENERAL GOALS

Cancer remains a leading cause of morbidity and mortality worldwide, with its prevalence and mortality rates continuing to rise. This trend is largely attributable to the aging population, which has contributed to a growing annual incidence of the disease. Despite recent advancements in research that have improved treatment outcomes for certain types of tumors, there remains a critical need for enhanced molecular understanding, as well as more effective prevention and diagnostic strategies for others. In response to these challenges, the overarching aim of Scientific Program 4 is to advance the prevention, diagnosis, and treatment of cancer in a comprehensive manner. The program is particularly focused on pivotal objectives such as the early detection of malignancies, identification of novel therapeutic targets and biomarkers, development of innovative therapies, and optimization of immunotherapy protocols. The integration of artificial intelligence (AI) plays a crucial role in these endeavors, enabling the identification of new patterns in complex datasets, refining diagnostic tools, and personalizing treatment strategies. This strategic focus on leveraging AI and other cutting-edge technologies has enabled the program to secure funding for high-caliber projects through competitive grant processes and has resulted in a significant number of publications in prestigious, high-impact journals.

In 2023, the program successfully achieved its primary objectives, as evidenced by substantial outcomes. These accomplishments were highlighted by the publication of 141 scientific articles, authored either solely by the program or in collaboration with other national and international research groups. Additionally, the program managed 55 active research projects, all of which were secured through competitive calls. Furthermore, the year saw the execution of 171 clinical trials across various phases, each focusing on different types of tumors and therapeutic strategies.

» 5 HIGHLIGHTED PUBLICATIONS

1. Pérez E, Reyes O. Performing Melanoma Diagnosis by an Effective Multi-view Convolutional Network Architecture. INTERNATIONAL JOURNAL OF COMPUTER VISION. 2023. 3094-3117. DOI: 10.1007/s11263-023-01848-0. IF: 19,5 Q1 D1
2. Arjona-Sánchez A, Espinosa-Redondo E, Gutiérrez-Calvo A, Segura-Sampedro JJ, Pérez-Viejo E, Concepción-Martín V, Sánchez-García S, García-Fadrique A, Prieto-Nieto I, Barrios-Sanchez P, Torres-Melero J, Faraco MR, Prada-Villaverde A, Carrasco-Campos J, Artiles-Armas M, Villarejo-Campos P, Ortega-Pérez G, Boldo-Roda E, Sánchez-Hidalgo JM, Casado-Adam A, Rodríguez-Ortiz L, Aranda E, Cano-Osuna MT, Díaz-López C, Romero-Ruiz A, Briceño-Delgado J, Rufián-Peña S. Efficacy and Safety of Intraoperative Hyperthermic Intraperitoneal Chemotherapy for Locally Advanced Colon Cancer A Phase 3 Randomized Clinical Trial. JAMA SURGERY. 2023. 683-691. DOI: 10.1001/jamasurg.2023.0662. IF: 16,9 Q1 D1
3. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. EXPERIMENTAL AND MOLECULAR MEDICINE. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7. IF: 12,8 Q1 D1
4. Jimenez-Izquierdo R, Morrugares R, Suanes-Cobos L, Correa-Saez A, Garrido-Rodriguez M, Cerero-Tejero L, Khan OM, de la Luna S, Sancho R, Calzado MA. FBXW7 tumor suppressor regulation by dualspecificity tyrosine-regulated kinase 2. CELL DEATH & DISEASE. 2023. -. DOI: 10.1038/s41419-023-05724-0. IF: 9 Q1 D2

5. Toledano-Fonseca M, Gomez-Espana MA, Elez E, Gravalos C, Garcia-Alfonso P, Rodriguez R, Losa F, Diaz IA, Grana B, Valladares-Ayerbes M, Garcia-Ortiz MV, Polo E, Salgado M, Rivera F, Safont MJ, Salud A, Ruiz-Casado A, Tabernero JM, Riesco MC, Rodriguez-Ariza A, Aranda E. A signature of circulating microRNAs predicts the response to treatment with FOLFIRI plus aflibercept in metastatic colorectal cancer patients. BIOMEDICINE & PHARMACOTHERAPY. 2023. -. DOI: 10.1016/j.biopha.2023.114272. IF: 7,5 Q1 D1

» SUB-PROGRAMS

- Lung cancer
- Breast cancer
- Hepatocellular carcinoma
- Leukaemias and lymphomas
- Digestive tumours
- Other tumours

Across multiple prioritized research avenues, the various groups have concentrated their efforts on critical objectives, including the development of innovative therapies, the advancement of early detection techniques, and the implementation of sophisticated data analysis methodologies. Additionally, they have focused on exploring novel therapeutic approaches by conducting comprehensive studies on clinical drug responses.

» HIGHLIGHTS IN 2023

No. of PUBLICATIONS: **141**

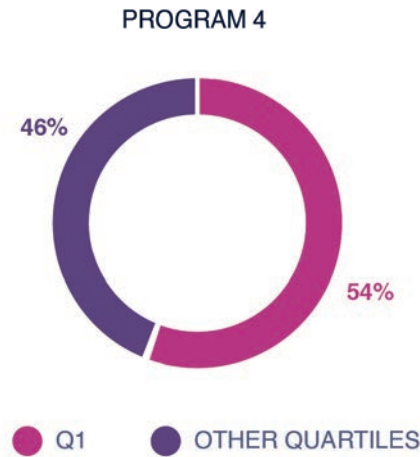
- Own: **42%**
- N° of collaborative publications: **36**
- IF: **1,221.4**
- Q1 (including D1): **54%**
- D1: **25%**

No. of ONGOING PROJECTS: **55**

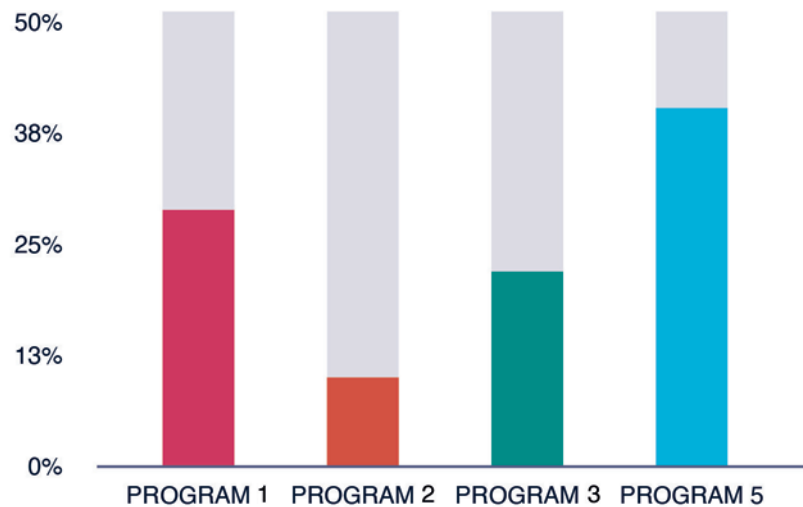
- N° of collaborative projects: **22**

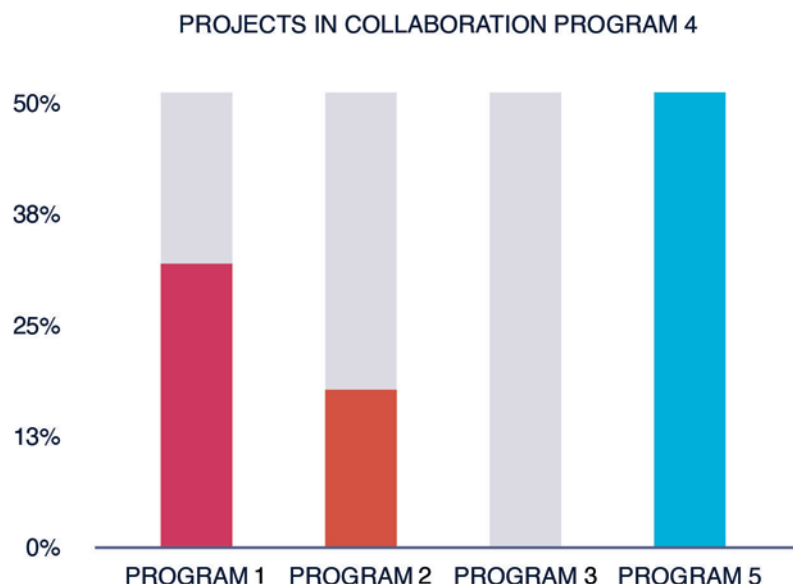
No. of ONGOING CLINICAL TRIALS: **171**

- PROGRAM 4



PUBLICATIONS IN COLLABORATION PROGRAM 4





SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» GENERAL GOALS

The increase in life expectancy among the general population has led to a rise in the incidence of chronic and inflammatory diseases. This trend significantly affects the quality of life for those impacted and has important implications for their ability to contribute to society. Additionally, the chronic nature of these conditions results in a considerable portion of healthcare budgets being devoted to their management.

In light of these challenges, our program aims to tackle chronic diseases through three main approaches:

1. Enhancing our understanding of these illnesses by exploring their molecular foundations.
2. Leveraging this knowledge to develop innovative therapeutic strategies aimed at improving patient prognosis and disease management.
3. Creating preventive measures to delay or prevent the onset and progression of these disorders.

Our program aims to create comprehensive clinical and molecular profiles that clarify the development of chronic diseases and their comorbidities. We are deeply committed to developing innovative therapeutic solutions that can be administered safely and effectively for continuous disease management and follow-up care. In 2023, 12 research groups (8 consolidated, 1 emerging, and 3 associated) participated in IMIBIC Program 5.

The program's teams produced a substantial number of basic, clinical, and translational research articles across various subprogram areas. Notably, there was a significant increase in publications included in the top quartile of their fields, reaching 47% of total publications this year. Additionally, the proportion of journals in the top decile within their areas rose to 15% of total publications.

Achieving the program's 2023 objectives was largely due to the launch of numerous research projects at international, national, and regional levels, made possible by competitive funding secured by the participating research groups. Approximately 20% of the published articles resulted from close collaboration across multiple research groups in different subprograms, with crucial contributions from emerging and associated groups.

The high quality of publications largely stemmed from well-established national and international multicenter projects. These initiatives, involving large patient cohorts, enabled the development of new clinical trials, which increased by approximately 13% compared to 2022.

Finally, the application of new technologies and multiomic analyses, supported by bioinformatic tools such as machine learning and artificial intelligence, alongside the use of animal models to explore disease mechanisms and therapeutic responses, significantly advanced research in the field. These efforts support the ultimate objective of implementing a personalized medicine approach.

» HIGHLIGHTED PUBLICATIONS

1. Lopez-Pedrerera C, Patino-Trives AM, Cerdo T, Ortega-Castro R, Sanchez-Pareja I, Ibanez-Costa A, Munoz-Barrera L, Abalos-Aguilera MC, Ruiz-Vilchez D, Azpilcueta PS, Espinosa M, Barbarroja N, Escudero-Contreras A, Castano JP, Luque R, Ortega R, Aguirre MA, Perez-Sanchez C. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. JOURNAL OF AUTOIMMUNITY. 2023. -. DOI: 10.1016/j.jaut.2022.102990. IF: 12,8 Q1 D1

2. Rodriguez-Peralvarez ML, Gomez-Orellana AM, Majumdar A, Bailey M, McCaughan GW, Gow P, Guerrero M, Taylor R, Guijo-Rubio D, Hervás-Martínez C, Tsochatzis EA. Development and validation of the Gender-Equity Model for Liver Allocation (GEMA) to prioritise candidates for liver transplantation: a cohort study. *LANCET GASTROENTEROLOGY & HEPATOLOGY*. 2023. 242-252. DOI: 10.1016/S2468-1253(22)00354-5. IF: 35,7 Q1 D1
3. Ojeda S, Gonzalez-Manzanares R, Jimenez-Quevedo P, Pinon P, Asmarats L, Amat-Santos I, Fernandez-Nofrerias E, del Valle R, Munoz-Garcia E, Ferrer-Gracia MC, de la Torre JM, Ruiz-Quevedo V, Regueiro A, Sanmiguel D, Garcia-Blas S, Elizaga J, Baz JA, Romaguera R, Cruz-Gonzalez I, Moreu J, Gheorghe LL, Salido L, Moreno R, Urbano C, Serra V, Pan MN. Coronary Obstruction After Transcatheter Aortic Valve Replacement. *JACC-CARDIOVASCULAR INTERVENTIONS*. 2023. 1208-1217. DOI: 10.1016/j.jcin.2023.03.024. IF: 11,3 Q1 D1
4. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. *EXPERIMENTAL AND MOLECULAR MEDICINE*. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7. IF: 12,8 Q1 D1
5. Lopez-Baltanas R, Rodriguez-Ortiz ME, Diaz-Tocados JM, Martinez-Moreno JM, Membrives C, Rodelo-Haad C, de Mier MVPR, Rodriguez M, Canalejo A, Almaden Y, Munoz-Castaneda JR. Dietary Mg Supplementation Decreases Oxidative Stress, Inflammation, and Vascular Dysfunction in an Experimental Model of Metabolic Syndrome with Renal Failure. *ANTIOXIDANTS*. 2023. -. DOI: 10.3390/antiox12020283. IF: 7 Q1 D1

» SUB-PROGRAMS

- Cardiovascular diseases
- Diseases of the musculoskeletal system and connective tissue
- Neurological diseases and mental health
- Kidney and urological diseases
- Liver and digestive diseases
- Chronic inflammation and signalling

» CARDIOVASCULAR DISEASES SUB-PROGRAM IN 2023

Groups involved: GC05, GC15, GA09

Highlights of the action plans implemented include:

- **Autoimmune Cardiovascular Mechanisms:** Exploring cardiovascular disease processes and treatments in autoimmune disorders like RA and SLE.
- **Metabolic and Therapeutic Studies in Arthritis:** Investigating metabolic syndrome, insulin resistance, and therapy impacts in RA and PsA.
- **Heart Disease Interventions:** Researching coronary and structural heart treatments, including innovative imaging and procedural techniques.
- **Congenital Heart and Heart Failure Solutions:** Advancing percutaneous treatments for congenital defects and new heart failure therapies.
- **Aortic Stenosis and Inflammation:** Studying immune roles in aortic stenosis and systemic inflammation management.
- **Innovative Therapies and Technologies:** Developing cell and gene therapies, circulatory devices, and remote monitoring technologies.

» DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE

Groups involved: GC05

Action plans implemented:

1. **Autoimmune Disease Mechanisms and Treatments:** Genetic and molecular characterization of systemic autoimmune diseases (Rheumatoid Arthritis, Systemic Lupus Erythematosus and Antiphospholipid syndrome): Analysis of mechanisms underlying the development of organ damage and cardiovascular disease, and identification of biomarkers for response to new therapeutic modalities
2. **Biomarker Identification in Arthritis:** Identifying biomarkers by multimodal approaches (clinic and molecular) to predict responses to biological therapies in RA and Psoriatic Arthritis (PsA).
3. **Spondylarthritis Evaluation:** Analyzing clinical characteristics and biomarkers in spondylarthritis and, utilizing transcriptomic profiling and bioinformatics, to classify these patients and evaluate new therapies.

» NEUROLOGICAL DISEASES AND MENTAL HEALTH

Groups involved: GC28

Among the action plans implemented, the highlights were:

- **Oxidative Stress and Neurodegeneration:** Studying the role of oxidative damage and antioxidant systems in neurodegenerative diseases to develop new therapies and biomarkers for monitoring treatment effectiveness.
- **Transcranial Magnetic Stimulation:** Investigating the therapeutic effects of low-frequency transcranial magnetic stimulation on neuroplasticity, focusing on remyelination and neurogenesis in conditions like Huntington's disease and multiple sclerosis.
- **Nutrition and Health Technology:** Analyzing the impact of diet on neurodegenerative disease progression and evaluating laboratory techniques, including point-of-care testing, for quality control and effective diagnosis.

» KIDNEY AND UROLOGICAL DISEASES

- **Groups involved:** GC07, GC13, GE06
- The highlights of the action plans implemented included:
- **Cellular Damage and Repair Mechanisms:** Investigating the mechanisms of cellular damage and repair in response to chronic inflammation related to uremia.
- **Chronic Kidney Disease Treatment:** Enhancing treatments for chronic kidney disease and optimizing dialysis as a replacement therapy, with a focus on inflammation and endothelial dysfunction.
- **Vascular Calcification in CKD:** Studying dietary, cellular, and microbiota influences on vascular calcification in chronic kidney disease.
- **Renal Biomarkers and Vascular Health:** Evaluating biomarkers like FGF23 for kidney disease progression and vascular calcification.
- **Bone Disorders in CKD:** Investigating mineral metabolism's impact on bone disease and regeneration in chronic kidney disease.
- **Mineral Metabolism and Vascular Dysfunction:** Exploring the links between mineral metabolism, vascular issues, and the role of nutrition in CKD.

In recent years, an emerging group, **GE06: Physiopathology of Renal and Vascular Damage**, has joined this sub-program, significantly enhancing its scientific and strategic goals while also elevating its quality.

More specifically, this new research group has developed the following action plans:

- **Pharmacological Effects:** Investigating the impact of drug treatments on the development of cardiovascular and renal diseases.
- **Cellular and Molecular Mechanisms:** Studying the cellular and molecular mechanisms involved in the pathogenesis of specific cardiovascular and renal diseases.
- **Imaging and Therapeutic Development:** Utilizing imaging platforms to identify new diagnostic/prognostic molecules for cardiovascular risk and renal damage assessment and developing new therapeutic approaches for clinical application.

» LIVER AND DIGESTIVE DISEASES

Groups involved: GC02

Highlighted action plans include

- **Advanced Hepatocarcinoma Treatment:** Research on systemic treatments for advanced-stage hepatocellular carcinoma.
- **Liquid Biopsy for Hepatocarcinoma:** Exploration of liquid biopsy as a technique for surveillance and control of hepatocellular carcinoma.
- **Inflammatory Bowel Disease Biomarkers:** Identification of genetic and molecular biomarkers for inflammatory bowel disease (IBD).
- **Drug De-escalation in Crohn's Disease:** Development of strategies for de-escalating and withdrawing biologic drugs in Crohn's disease patients, along with evaluating the efficacy and safety of new therapies for IBD.
- **Liver Transplantation Strategies:** Research on immunosuppression strategies using mTOR inhibitors and minimizing calcineurin inhibitors, investigation of immune system activation in hepatocarcinoma recurrence post-liver transplantation, and strategies for prioritization of the liver transplant waiting list.

» CHRONIC INFLAMMATION AND SIGNALLING

Groups involved: GC29, GA03

Highlights of the action plans implemented were mainly centred on skin and lung diseases:

- **Pathogenesis and Molecular Analysis:** Investigating immunological mechanisms in chronic inflammatory skin diseases using advanced molecular techniques and international collaborations.
- **Clinical Trials and Drug Assessment:** Conducting trials to evaluate new treatments' effectiveness and safety, providing patients with access to emerging therapies.
- **Personalized Medicine and Biomarkers:** Identifying genetic and environmental factors to tailor treatments based on individual patient profiles.
- **Evidence Review and Methodology:** Synthesizing research through systematic reviews and meta-analyses to improve treatment guidelines and address methodological biases.
- **Systemic and Analytical Research:** Exploring nocturnal hypoxemia effects on health and utilizing big data for respiratory disease analysis.
- **Environmental and Lifestyle Approaches:** Investigating air quality impacts and promoting exercise and nutrition for respiratory health management.

Enhancing the work across various subprograms, a transversal group played a crucial role by actively collaborating in the development of multiple subprograms.

Group GA08: Radiodiagnosis

Research conducted in 2023 focused mainly on:

- **Cardiovascular risk in autoimmune and chronic inflammatory diseases:** Use of carotid echo-doppler (ultrasound) for detection of early atherosclerosis in RA, SLE, APS, PsA and other spondylarthritis, and its association with therapeutic efficacy.
- **Breast Cancer Screening:** Implementing artificial intelligence to assist in breast cancer diagnosis.
- **Prostate Cancer and Urological Tumors:** Investigating prostate and other urological cancers.
- **Cerebrovascular Pathology:** Studying disorders affecting blood vessels in the brain.
- **Coronary Arteriosclerosis:** Researching coronary artery disease related to arteriosclerosis.

This research activity resulted in numerous articles, stemming from the group's own research projects and collaborations with other IMIBIC groups in the fields of cancer, cardiovascular disease, autoimmune disorders, neurological and kidney disease, supported by funding from the Andalusian Regional Department of Health and the National Health Research Fund.

» HIGHLIGHTS IN 2023

No. of PUBLICATIONS: **184**

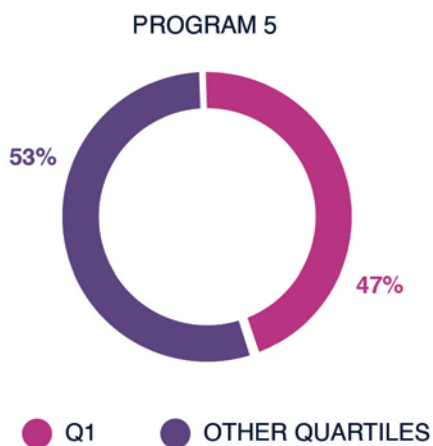
- Own: **34%**
- No. of collaborative publications: **28**
- IF: **1,098.3**
- Q1 (including D1): **47%**
- D1: **15%**

No. of ONGOING PROJECTS: **45**

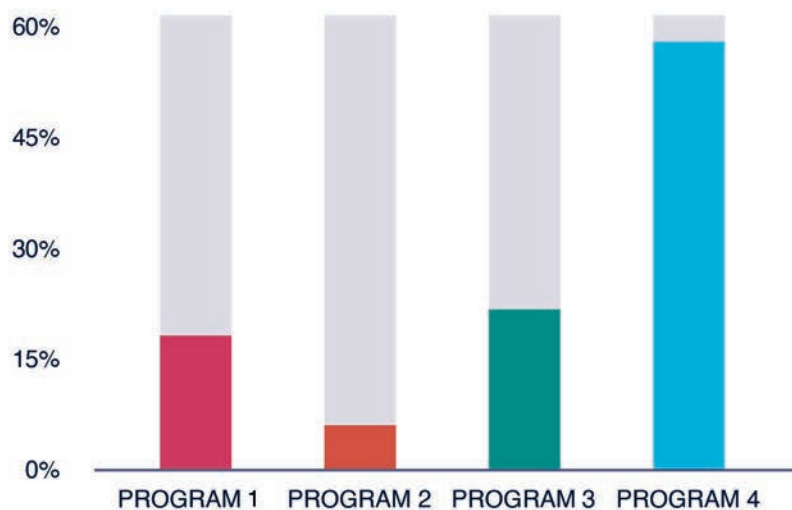
- N° of collaborative projects: **18**

No. of ONGOING CLINICAL TRIALS: **158**

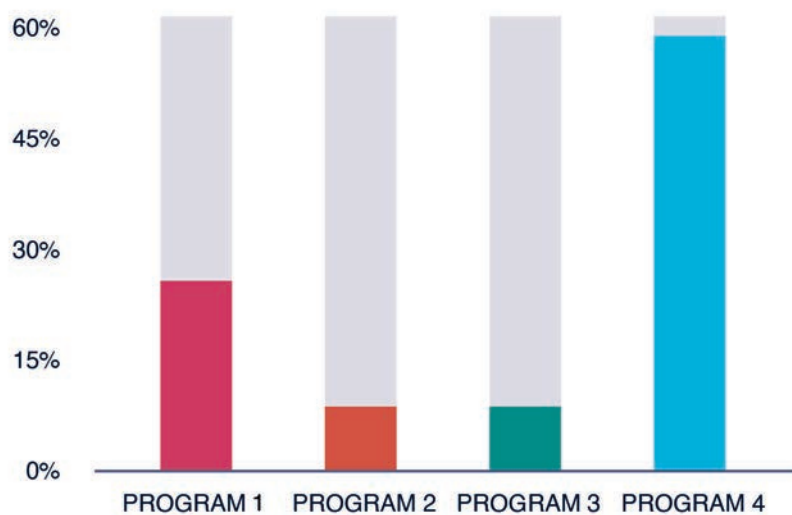
PROGRAM 5



PUBLICATIONS IN COLLABORATION PROGRAM 5



PROJECTS IN COLLABORATION PROGRAM 5



8.2. SCIENTIFIC GROUPS

GC01:

IMMUNOLOGY AND ALLERGY

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILTY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Solana	Lara	Rafael	R4	0000-0001-8985-0295
Alonso	Díaz	Corona	R3	
Batista	Duharte	Alexander	R3	
Jurado	Roger	Aurora	R3	
Pera	Rojas	Alejandra	R3	
Ruiz	León	Berta	R3	
Aguado	Álvarez	Rocío	R2	
Álvarez	Heredia	Pablo	R2	
Barasona	Villarejo	M ^a José	R2	
González	Fernández	Rafael	R2	
Manzanares	Martín	Bárbara	R2	
Molina	Alcaide	Juan Eduardo	R2	
Navas	Romo	Ana María	R2	
Saiz	Sánchez	Vanesa	R2	
Álvarez	Romero	Paula	R1	
Bernardo	Serrano	Raquel	R1	
Blanco	Toledano	Nadine	R1	
Carrero	Chiquillo	Laura Fernanda	R1	
Costa	Anzola	Antonio	R1	
Espinar	García	Mónica	R1	
Reina	Alfonso	Ester Irene	R1	
Trujillo	Aguilera	Antonio	R1	
Vallejo	Bermúdez	Isabel María	R1	
Cañones	Castello	M ^a Estrella	N	
Guerra	González	Mercedes	N	
Velarde	Martínez	M ^a Luisa	ADM	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Immunosenescence	Cardiovascular disease
Aging	Pro-inflammatory cells
Melanoma	Allergy
NK cells	Anaphylaxis
NKT cells	Pollen
NK receptors	Hymenoptera
CMV	Food
Cytotoxic T lymphocytes (CTL)	Mite
Exhaustion	Drugs
Regulatory T cells	Vaccines
Antisense oligonucleotides	Immunoregulation

» HIGHLIGHTED PUBLICATIONS:

1. Rojo R, Alén JC, Prada A, Valor S, Roy G, López-Hoyos M, Cervera R, Mateos PS, Roger AJ. Recommendations for the use of anti-dsDNA autoantibodies in the diagnosis and follow-up of systemic lupus erythematosus - A proposal from an expert panel. AUTOIMMUNITY REVIEWS. 2023. -. DOI: 10.1016/j.autrev.2023.103479.
IF: 13,6 Q1 D1
2. Nunez-Borque E, Betancor D, Pastor-Vargas C, Fernandez-Bravo S, Martin-Blazquez A, Casado-Navarro N, Lopez-Dominguez D, Gomez-Lopez A, del Rio PR, Tramon P, Beitia JM, Moreno-Aguilar C, Gonzalez-de-Olano D, Goikoetxea MJ, Ibanez-Sandin MD, Laguna JJ, Cuesta-Herranz J, Esteban V. Personalized diagnostic approach and indirect quantification of extravasation in human anaphylaxis. ALLERGY. 2023. 202-213. DOI: 10.1111/all.15443.
IF: 12,4 Q1 D1
3. Alvarez-Heredia P, Dominguez-del-Castillo JJ, Reina-Alfonso I, Gutierrez-Gonzalez C, Hassounah F, Batista-Duharte A, Trujillo-Aguilera A, Lopez-Romero R, Munoz I, Solana R, Pera A. A Straightforward Cytometry-Based Protocol for the Comprehensive Analysis of the Inflammatory Valve Infiltrate in Aortic Stenosis. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. -. DOI: 10.3390/ijms24032194.
IF: 5,6 Q1 D3
4. Vega-Castro A, Castro L, Carballada F, Alfaya T, Marquès L, Ruíz-León B. Hymenoptera Allergy Diagnosis through Their Presence on Human Food. TOXINS. 2023. DOI: 10.3390/toxins15120680.
IF: 4,2 Q1 D3
5. Fuhrmann S, Reus B, Frey O, Pera A, Picker LJ, Kern F. Marked skewing of entire T-cell memory compartment occurs only in a minority of CMV-infected individuals and is unrelated to the degree of memory subset skewing among CMV-specific T-cells. FRONTIERS IN IMMUNOLOGY. 2023. DOI: 10.3389/fimmu.2023.1258339.
IF: 7,3 Q1 D3

» ACTIVITY:

- Nº ONGOING PROJECTS: 7
- Nº CLINICAL TRIALS: 1

» ADDITIONAL INFORMATION:

• NETWORKS: 4

1. Spanish Network for asthma, adverse and allergic reactions (ARADYAL)
2. REIPI - Spanish Network for Research in Infectious Diseases (Collaborator)
3. PAIDI CTS-208 Molecular Immunology
4. CA17103 - Delivery of Antisense RNA Therapeutics (DARTER). COST (European Cooperation in Science and Technology) Action Network (Collaborator)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 10

1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- ANA MARÍA NAVAS ROMO
2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- ALEXANDER BATISTA DUHARTE
3. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- FAKHRI HASSOUNEH NULL
4. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- PABLO ALVAREZ HEREDIA
5. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- MÓNICA ESPINAR GARCÍA
6. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MARIA CASTRO LIÑANLIDIA
7. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ISABEL MARÍA VALLEJO BERMÚDEZ
8. ACCIÓN ESTRATÉGICA EN SALUD - MOVILIDAD DE PERSONAL INVESTIGADOR CONTRATADO EN EL MARCO DE LA AES (M-AES) 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- PABLO ALVAREZ HEREDIA
9. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- BÁRBARA MANZANARES MARTÍN
10. CO-FINANCIACIÓN PROYECTO P2Med-IMIBIC. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- ALEXANDER BATISTA DUHARTE

• 5 AGREEMENTS WITH COMPANIES

GC02:

OXIDATIVE AND NITROSATIVE STRESS IN ACUTE AND CHRONIC LIVER DISEASE

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
De La Mata	García	Manuel	R4	0000-0002-5353-2188
Bárcena	Ruiz	José Antonio	R4	0000-0002-5626-5943
Barrera	Baena	Pilar	R3	
Costán	Rodero	Guadalupe	R3	
Ferrín	Sánchez	Gustavo	R3	
Montero	Álvarez	Jose Luis	R3	
Peinado	Peinado	José	R3	
Poyato	González	Antonio	R3	
Requejo	Aguilar	Raquel	R3	
Rodríguez	Perálvarez	Manuel Luis	R3	
Amado	Torres	Víctor	R2	
Guerrero	Misas	Marta	R2	
Linares	Luna	Clara Isabel	R2	
Medina	Medina	Rosario	R2	
Vida	Pérez	Luis	R2	
Benítez	Cantero	José Manuel	R1	
Fernández	González	Rocío	R1	
Gros	Alcalde	Beatriz	R1	
Iglesias	Flores	Eva	R1	
Zamora	Olaya	Javier Manuel	R1	
Gómez	Núñez	Mª Isabel	T	
Mira	Nuñez	Pedro José	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Liver transplant	Cholestasis
Hepatocellular carcinoma	Liquid biopsy
Crohn's disease	Proteomic
Ulcerative colitis	Anti-TNF

» HIGHLIGHTED PUBLICATIONS:

1. Rodriguez-Peralvarez ML, Gomez-Orellana AM, Majumdar A, Bailey M, McCaughan GW, Gow P, Guerrero M, Taylor R, Guijo-Rubio D, Hervás-Martínez C, Tsochatzis EA. Development and validation of the Gender-Equity Model for Liver Allocation (GEMA) to prioritise candidates for liver transplantation: a cohort study. *LANCET GASTROENTEROLOGY & HEPATOLOGY*. 2023. 242-252. DOI: 10.1016/S2468-1253(22)00354-5.

IF: 35,7 Q1 D1

2. Montano-Loza AJ, Rodriguez-Peralvarez ML, Pageaux GP, Sanchez-Fueyo A, Feng S. Liver transplantation immunology: Immunosuppression, rejection, and immunomodulation. *JOURNAL OF HEPATOLOGY*. 2023. 1199-1215. DOI: 10.1016/j.jhep.2023.01.030.

IF: 25,7 Q1 D1

3. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. *EXPERIMENTAL AND MOLECULAR MEDICINE*. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7.

IF: 12,8 Q1 D1

4. Acosta MBD, Fernandez-Clotet A, Mesonero F, Garcia-Alonso FJ, Casanova MJ, Fernandez-de la Varga M, Canete F, de Castro L, Gutierrez A, Sicilia B, Cano V, Merino O, de Francisco R, Gonzalez-Partida I, Suris G, Torrealba L, Ferreira-Iglesias R, Castro B, Marquez L, Sobrino A, Elorza A, Calvet X, Varela P, Vicente R, Bujanda L, Lario L, Mancenido N, Garcia-Sepulcre MF, Iglesias E, Rodriguez C, Piqueras M, Rosique JAF, Lucendo AJ, Benitez O, Garcia M, Olivares D, Gonzalez-Munoz C, Lopez-Cauce B, Alvarado VJM, Spicakova K, Brotons A, Bermejo F, Almela P, Ispizua N, Gilibert P, Tardillo C, Munoz F, Navarro P, Dominguez REM, Sendra P, Hinojosa E, Sainz E, Martin-Arranz MD, Carpio D, Ricart E, Caballol B, Nunez L, Barrio J, Gisbert JP, Iborra M, Calafat M, Hernandez V, Perez R, Cabriada JL, Domenech E, Rodriguez-Lago I. Long-Term Outcomes of Biological Therapy in Crohn's Disease Complicated With Internal Fistulizing Disease: BIOSCOPE Study From GETECCU. *AMERICAN JOURNAL OF GASTROENTEROLOGY*. 2023. 1036-1046. DOI: 10.14309/ajg.00000000000002152.

IF: 9,8 Q1 D2

5. Chaparro M, Acosta D, Rodriguez C, Mesonero F, Vicuna M, Barreiro-de Acosta M, Fernandez-Clotet A, Martinez AH, Arroyo M, Vera I, Ruiz-Cerulla A, Sicilia B, Tapia MJC, Villafranca CM, Castro-Pocheiro J, Cadilla JM, Sierra-Ausin M, Moron JMV, Lidon RV, Bermejo F, Royo V, Calafat M, Gonzalez-Munoz C, Carnerero EL, Marcos NM, Torrealba L, Alonso-Galan H, Benitez JM, Nieto YB, Palomares MTDL, Garcia MJ, Munoz JF, Gonzalez EMA, Calvet X, Hernandez-Camba A, Dominguez REM, Menchen L, Calle JLP, Piqueras M, Sadornil CD, Botella B, Martinez-Perez TD, Ramos L, Rodriguez-Grau MC, San Miguel E, Forcelledo JLF, Salazar PMF, Garcia-Sepulcre M, Gutierrez A, Llao J, Abizanda ES, Bosca-Watts M, Iyo E, Keco-Huerga A, Bonil CM, Gonzalez EP, Perez-Galindo P, Varela P, Gisbert JP, To ReWard Study Grp. Real-World Evidence of Tofacitinib in Ulcerative Colitis: Short-Term and Long-Term Effectiveness and Safety. *AMERICAN JOURNAL OF GASTROENTEROLOGY*. 2023. 1237-1247. DOI: 10.14309/ajg.00000000000002145.

IF: 9,8 Q1 D2

» ACTIVITY:

- Nº ONGOING PROJECTS: 3
- Nº GRANTED PROJECTS IN 2023: 1
- Nº CLINICAL TRIALS: 29

» **ADDITIONAL INFORMATION:**

- NETWORKS: 4
 1. CIBER on Liver and Digestive Diseases (CIBERehd)
 2. Grupo Español de Trabajo de Enfermedad de Crohn y Colitis Ulcerosa (GETECCU)
 3. PAIDI CTS-273
 4. PAIDI BIO-216
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 5
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIA LOLA ESPEJO CRUZ
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ALVARO RUIZ RAMAS
 3. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- PEDRO JOSE MIRA NUÑEZ
 4. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- CLARA ISABEL LINARES LUNA
 5. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- SANDRA GONZÁLEZ RUBIO
- 4 AGREEMENTS WITH COMPANIES

GC03:

INFECTIOUS DISEASES

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
De La Torre	Cisneros	Julián Carlos	R4	0000-0003-1529-6302
Cantisán	Bohórquez	Sara	R3	
Castón	Osorio	Juan José	R3	
Pérez	Nadales	Elena	R3	
Ruiz	Sáez	Beatriz	R3	
Cano	Yuste	Ángela	R2	
Doblas	Delgado	Antonio	R2	
López-Viñau	López	Teresa	R2	
Machuca	Sánchez	Isabel	R2	
Nácher	Vázquez	Montserrat	R2	
Natera	Kindelan	Clara	R2	
Páez	Vega	Aurora	R2	
Vidal	Verdú	Elisa	R2	
De La Torre	Giménez	Álvaro	R1	
Fernández	Moreno	Raquel	R1	
Gálvez	Soto	Víctor	R1	
Marín	Sanz	Juan Antonio	R1	
Méndez	Natera	Alejandra	R1	
Puyana	Gago	Manuel	R1	
Puyana	Rodríguez	Jose Manuel	R1	
Recio	Rufián	Manuel	R1	
Ruiz	Arabi	Elisa	R1	
Pozo	López	Lorena	N	
Ruiz	Sánchez de Puerta	Lourdes	N	
Cantueso	Méndez	Inmaculada	ADM	
Del Hoyo	Navarro	Antonio Jesús	ADM	
Cosano	Pérez	Patricia	T	
De la Torre	Giménez	Julián	T	
García	Urbano	Alba	T	
Molina	Gutiérrez	Cristina	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Cytomegalovirus	Transplantation
Multidrug-resistant microorganisms	Specific immune response
Immunopathology	

» HIGHLIGHTED PUBLICATIONS:

1. Perez-Nadales E, Fernandez-Ruiz M, Natera AM, Gutierrez-Gutierrez B, Mularoni A, Russelli G, Pierrotti LC, Freire MP, Falcone M, Tiseo G, Tumbarello M, Raffaelli F, Abdala E, Bodro M, Gervasi E, Farinas MC, Seminari EM, Caston JJ, Marin-Sanz JA, Galvez-Soto V, Rana MM, Loeches B, Martin-Davila P, Pascual A, Rodriguez-Bano J, Aguado JM, Martinez-Martinez L, Torre-Cisneros J, REIPI INCREMENT-SOT Study Grp. Efficacy of ceftazidime-avibactam in solid organ transplant recipients with bloodstream infections caused by carbapenemase-producing *Klebsiella pneumoniae*. *AMERICAN JOURNAL OF TRANSPLANTATION*. 2023. 1022-1034. DOI: 10.1016/j.ajt.2023.03.011.
IF: 8,8 Q1 D1
2. de la Fuente C, Rodriguez M, Merino N, Carmona P, Machuca I, Cordoba-Fernandez M, Guzman-Puche J, Dominguez A, Lopez-Vinay T, Garcia L, Vaquero JM, Robles JC, Martinez-Martinez L, Torre-Cisneros J. Real-life use of cefiderocol for salvage therapy of severe infections due to carbapenem-resistant Gram-negative bacteria. *INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS*. 2023. DOI: 10.1016/j.ijantimicag.2023.106818.
IF: 10,8 Q1 D2
3. Fernandez-Moreno R, Valle-Arroyo J, Paez-Vega A, Salinas A, Cano A, Perez AB, Torre-Cisneros J, Cantisan S. Memory SARS-CoV-2 T-cell response in convalescent COVID-19 patients with undetectable specific IgG antibodies: a comparative study. *FRONTIERS IN IMMUNOLOGY*. 2023. DOI: 10.3389/fimmu.2023.1142918.
IF: 7,3 Q1 D3
4. Perez-Galera S, Bravo-Ferrer JM, Paniagua M, Kostyanov T, de Kraker MEA, Feifel J, Sojo-Dorado J, Schotsman J, Canton R, Daikos GL, Carevic B, Dragovac G, Tan LK, Raka L, Hristea A, Viale P, Akova M, Reguera JM, de Santis LV, Torre-Cisneros J, Cano A, Roilides E, Radulovic L, Kirakli C, Shaw E, Falagas ME, Pintado V, Goossens H, Bonten MJ, Gutierrez-Gutierrez B, Rodriguez-Bano J. Risk factors for infections caused by carbapenem-resistant Enterobacterales: an international matched case-control- control study (EURECA). *ECLINICALMEDICINE*. 2023. DOI: 10.1016/j.eclinm.2023.101871.
IF: 15,1 Q1 D1
5. Troeman DPR, Hazard D, Timbermont L, Malhotra-Kumar S, van Werkhoven CH, Wolkewitz M, Ruzin A, Goossens H, Bonten MJM, Harbarth S, Sifakis F, Kluytmans JAJW, Vlaeminck J, Vilken T, Xavier BB, Lammens C, van Esschoten M, Paling FP, Recanatini C, Coenjaerts F, Sellman B, Tkaczyk C, Weber S, Ekkelenkamp MB, van der Laan L, Vierhout BP, Couve-Deacon E, David M, Chadwick D, Llewelyn M, Ustianowski A, Bateman A, Mawer D, Carevic B, Konstantinovic S, Djordjevic Z, del Toro-Lopez MD, Gallego JPH, Escudero D, Rojo MP, Torre-Cisneros J, Castelli F, Nardi G, Barbadoro P, Altmets M, Mitt P, Todor A, Bubenek-Turconi SI, Corneci D, Sandesc D, Gheorghita V, Brat R, Hanke I, Neumann J, Tomas T, Laffut W, van den Abeele AM. Postoperative *Staphylococcus aureus* Infections in Patients With and Without Preoperative Colonization. *JAMA NETWORK OPEN*. 2023. DOI: 10.1001/jamanetworkopen.2023.39793.
IF: 13,8 Q1 D1

» CLINICAL GUIDES:

1. Pintado V, Ruiz-Garbajosa P, Aguilera-Alonso D, Baquero-Artigao F, Bou G, Cantón R, Grau S, Gutiérrez-Gutiérrez B, Larrosa N, Machuca I, Martínez Martínez L, Montero MM, Morte-Romea E, Oliver A, Paño-Pardo JR, Sorlí L. Executive summary of the consensus document of the Spanish Society of Infectious Diseases and Clinical Microbiology (SEIMC) on the diagnosis and antimicrobial treatment of infections due to carbapenem-resistant Gram-negative bacteria. *Enferm Infecc Microbiol Clin (Engl Ed)*. 2023 Jun-Jul;41(6):360-370. DOI: 10.1016/j.eimce.2022.06.014. IF: 1.994 Q4

» ACTIVITY:

- N° ONGOING PROJECTS: 5
- N° GRANTED PROJECTS IN 2023: 6
- N° CLINICAL TRIALS: 15
- N° PHD THESES: 2

» ADDITIONAL INFORMATION:

- NETWORKS: 9
 1. COMBACTE-NET (combatting bacterial resistance in Europe – networks)
 2. COMBACTE-CARE (combatting bacterial resistance in Europe – carbapenem-resistance),
 3. INCREMENT-SOT, an international consortium for the clinical study of blood stream infections caused by multi-drug resistant Enterobacteriales in solid organ transplantation (SOT). We promote and coordinate this international network, which includes 40 centers specialised in SOT from 16 countries worldwide.
 4. PROACTIVE group
 5. PAIDI CTS-647
 6. Spanish Network for Research in Infectious Diseases (REIPI)
 7. RECOVER (Rapid European COVID-19 Emergency Response research)
 8. ANCRAID (Andalusian Network for Clinical Research in Infectious Diseases)
 9. CIBER-EI ENFERMEDADES INFECCIOSAS
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 7
 1. ACCIÓN ESTRATÉGICA EN SALUD - MOVILIDAD DE PROFESIONALES SANITARIOS E INVESTIGADORES DEL SNS (M-BAE) 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- SARA CANTISAN BOHORQUEZ
 2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- TERESA LOPEZ-VIÑAU LOPEZ
 3. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- VICTOR GALVEZ SOTO
 4. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- CRISTINA MOLINA GUTIERREZ
 5. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ALEJANDRA MENDEZ NATERA
 6. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- ALBA GARCÍA URBANO
 7. FPU18/01970. FORMACIÓN Y MOVILIDAD DENTRO DEL PROGRAMA ESTATAL DE PROMOCIÓN DEL TALENTO Y SU EMPLEABILIDAD; Alejandra Méndez Natera. 2019-2023
- 9 AGREEMENTS WITH COMPANIES
- INTERNATIONAL PROJECTS: 5
 1. JULIAN CARLOS DE LA TORRE CISNEROS. COMBACTE-NET - Combatting Bacterial Resistance in Europe. Funding Agency: COMISIÓN EUROPEA. Reference: IMI-2012-001
 2. JULIAN CARLOS DE LA TORRE CISNEROS. COMBACTE-CARE - Combatting Bacterial Resistance in Europe – Carbapenem Resistance. Funding Agency: COMISIÓN EUROPEA. Reference: IMI-2013-001
 3. JULIAN CARLOS DE LA TORRE CISNEROS. LETERCOR - Prospective study to evaluate efficacy of 12 to 18 months immuno-guided prophylaxis with letermovir for prevention of CMV infection in lung transplant patients and comparison with a retrospective cohort treated with standard 12 months valganciclovir prophylaxis. Funding Agency: MERCK SHARP & DOHME CORP. Reference: MSD-MISP-2021-01
 4. ISABEL MARIA MACHUCA SANCHEZ. IMRECOR - Clinical success and tolerability of treatment with Imipenem-relebactam and best available therapy in patients with infections caused by carbapenem-resistant Pseudomonas aeruginosa strains. Funding Agency: MERCK SHARP & DOHME CORP. Reference: MSD-MISP-2022-01
 5. JULIAN CARLOS DE LA TORRE CISNEROS. ECRAID-Base - A pan-European network against infectious diseases. Funding Agency: COMISIÓN EUROPEA. Reference: SC1-BHC-35-2020-01
- AWARDS: 2
 1. ALEJANDRA MENDEZ NATERA. Premio a la mejor comunicación de la SESSION VI. Infectious and Immunological diseases.- Alejandra Méndez Natera. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/006
 2. JULIÁN DE LA TORRE CISNEROS – GRUPO GC03- ENFERMEDADES INFECCIOSAS. PRIMER PREMIO - Lección Conmemorativa Maimónides IMIBIC al mejor trabajo de Investigación clínica, por su artículo “Immunoguided Descontinuación of Prophylaxis for Cytomegalovirus Disease in Kidney Transplant Recipients Treated with Antithymocyte Globulin: A Randomized Clinical Trial.”

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Muñoz	Blanco	Eduardo	R4	0000-0001-8478-5842
Calzado	Canale	Marco Antonio	R4	0000-0002-5338-535X
García	Martín	Adela	R3	
Mejías	Pérez	Ernesto	R3	
Aguilera	Ventura	Irene	R1	
Lastres	Cubillo	Isabel	R1	
Llamas	Jiménez	Gloria	R1	
Ponce	Díaz	Francisco José	R1	
Suanes	Cobos	Lucía	R1	
Serrano	Yubero	Alejandra	R1	
Torres	Ramos	Miguel	R1	
Alba	Cantalapiedra	Paloma	T	
Gutiérrez	Córdoba	Desirée	T	

SCIENTIFIC PRODUCTION



» KEYWORDS:

Inflammation	Endocannabinoid system
Cancer	Pharmacology
Hypoxia	Cell signaling

» HIGHLIGHTED PUBLICATIONS:

1. Prados ME, Navarrete C, Garcia-Martin A, Lastres-Cubillo I, Ponce-Diaz F, Martinez-Orgado J, Munoz E. VCE-005.1, an hypoxia mimetic betulinic acid derivative, induces angiogenesis and shows efficacy in a murine model of traumatic brain injury. BIOMEDICINE & PHARMACOTHERAPY. 2023. -. DOI: 10.1016/j.biopha.2023.114715.
IF: 7,5 Q1 D1
2. Jimenez-Izquierdo R, Morrugares R, Suanes-Cobos L, Correa-Saez A, Garrido-Rodriguez M, Cerero-Tejero L, Khan OM, de la Luna S, Sancho R, Calzado MA. FBXW7 tumor suppressor regulation by dualspecificity tyrosine-regulated kinase 2. CELL DEATH & DISEASE. 2023. -. DOI: 10.1038/s41419-023-05724-0.
IF: 9 Q1 D2

3. Silva L, Vargas C, Prados ME, Del Pozo A, Villa M, Martinez M, Alvarez L, Munoz E, Unciti-Broceta JD, Martinez-Orgado J. Neuroprotective Efficacy of Betulinic Acid Hydroxamate, a B55 alpha/PP2A Activator, in Acute Hypoxia-Ischemia-Induced Brain Damage in Newborn Rats. TRANSLATIONAL STROKE RESEARCH. 2023. 397-408. DOI: 10.1007/s12975-022-01017-4.
IF: 6,9 Q1 D1
4. Lavayen BP, Yang CJ, Larochelle J, Liu L, Tishko RJ, de Oliveira ACP, Munoz E, Candelario-Jalil E. Neuroprotection by the cannabidiol aminoquinone VCE-004.8 in experimental ischemic stroke in mice. NEUROCHEMISTRY INTERNATIONAL. 2023. -. DOI: 10.1016/j.neuint.2023.105508.
IF: 4,2 Q2 D4
5. Maier CR, Hartmann O, Prieto-Garcia C, Al-Shami KM, Schlicker L, Vogel FCE, Haid S, Klann K, Buck V, Muench C, Schmitz W, Einig E, Krenz B, Calzado MA, Eilers M, Popov N, Rosenfeldt MT, Diefenbacher ME, Schulze A. USP28 controls SREBP2 and the mevalonate pathway to drive tumour growth in squamous cancer. CELL DEATH AND DIFFERENTIATION. 2023. 1710-1725. DOI: 10.1038/s41418-023-01173-6.
IF: 12,4 Q1 D1

» ACTIVITY:

- Nº ONGOING PROJECTS: 5
- Nº GRANTED PROJECTS IN 2023: 2
- Nº PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 2
 1. PAIDI BIO-304
 2. Grupo Español de Hipoxia y RedHYPOX
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 7
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ISABEL LASTRES CUBILLO
 2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- PALOMA ALBA CANTALAPIEDRA
 3. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- IRENE AGUILERA VENTURA
 4. AYUDAS PARA LA FORMACIÓN DE PROFESORADO UNIVERSITARIO (FPU), MINISTERIO DE UNIVERSIDADES – ALEJANDRO CORREA SÁEZ
 5. AYUDAS PARA LA FORMACIÓN DE PROFESORADO UNIVERSITARIO (FPU), MINISTERIO DE UNIVERSIDADES – LUCÍA SUANES COBOS
 6. AYUDAS PARA LA FORMACIÓN DE PROFESORADO UNIVERSITARIO (FPU), MINISTERIO DE UNIVERSIDADES – MIGUEL TORRES RAMOS
 7. AYUDAS PARA LA FORMACIÓN DE PERSONAL INVESTIGADOR (FPI), MINISTERIO DE CIENCIA Y TECNOLOGIA – FRANCISCO JOSÉ PONCE DIAZ
- 1 AGREEMENT WITH COMPANIES
- AWARDS: 5
 1. PRO LUCIA SUANES COBOS. Premio a la mejor comunicación de la SESSION I. Cáncer I- Lucía Suanes Cobos. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII22/01
 2. FRANCISCO JOSÉ PONCE DÍAZ. Premio a la mejor comunicación de la SESSION II. Multidisciplinary I- Francisco José Ponce Díaz. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/002.
 3. FRANCISCO JOSÉ PONCE DÍAZ. Premio a mejor comunicación predoctoral en formato oral. SEIC. Funding Agency: Sociedad Española de Investigación sobre Cannabinoides (SEIC). Reference: SEIC/2023.
 4. ALEJANDRA SERRANO YUBERO. Premio a la Mejor Comunicación en VIII Congreso Científico de Investigadores Noveles. Universidad de Córdoba. Fecha: 20/12/2023
 5. ALEJANDRA SERRANO YUBERO. Premio #CampusSEBBM. Sociedad Española de Bioquímica y Biología Molecular. Fecha: 24/06/2023

GC05:

SYSTEMIC AND CHRONIC INFLAMMATORY AUTOIMMUNE DISEASES OF THE LOCOMOTOR SYSTEM AND CONNECTIVE TISSUE

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
López	Pedraera	Rosario	R4	0000-0003-2067-4603
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Escudero	Contreras	Alejandro	R4	0000-0001-5891-5527
Aguirre	Zamorano	Mª Ángeles	R3	
Albuquerque	Sendín	Francisco	R3	
Barbarroja	Puerto	Nuria	R3	
Font	Ugalde	Pilar	R3	
López	Medina	Clementina	R3	
Pérez	Sánchez	Carlos	R3	
Rodríguez	de Souza	Daiana Priscila	R3	
Aranda	Valera	Concepción	R2	
Arias	de la Rosa	Iván	R2	
Calvo	Gutiérrez	Jerusalem	R2	
Caracuel	Ruiz	Miguel Ángel	R2	
Cerdo	Raez	Tomás	R2	
Garrido	Castro	Juan Luis	R2	
Gómez	García	Ignacio	R2	
Ladehesa	Pineda	Mª Lourdes	R2	
López	Montilla	Mª Dolores	R2	
Ortega	Castro	Rafaela	R2	
Pérez	Guijo	Verónica	R2	
Puche	Larrubia	Mª de los Ángeles	R2	
Rojas	Giménez	Marta	R2	
Armenteros	Ortiz	Pedro José	R1	
Cuesta	López	Laura	R1	
Granados		Raquel María Ena	R1	
Martín	Salazar	Jesús Eduardo	R1	
Muñoz	Barrera	Laura	R1	
Ruiz	Vilchez	Desireé	R1	
Ruiz	Ponce	Miriam	R1	
Sánchez	Pareja	Ismael	R1	
Ábalos	Aguilera	Mª Carmen	T	
Barranco	Moyano	Antonio Manuel	T	
Cepas	Gutiérrez	Francisco José	T	
Corrales	Díaz-Flores	Sagrario	T	
Formanti	Alonso	Lydia	T	
Merlo	Ruiz	Christian	T	
Moreno	Caño	Elena	T	
Ortiz	Buitrago	Pedro	T	

SCIENTIFIC PRODUCTION



» KEYWORDS:

Autoimmune diseases	Metabolic syndrome
Spondiloarthropathies	Organ damage
Inflammation	Biomarkers
Atherothrombosis	New therapies

» HIGHLIGHTED PUBLICATIONS:

1. Cerdo T, Ruiz-Rodriguez A, Acuna I, Torres-Espinola FJ, Menchen-Marquez S, Gamiz F, Gallo M, Jehmlich N, Haange SB, von Bergen M, Campoy C, Suarez A. Infant gut microbiota contributes to cognitive performance in mice. CELL HOST & MICROBE. 2023. 1974-1988. DOI: 10.1016/j.chom.2023.11.004.
IF: 30,3 Q1 D1
2. Ramiro S, Nikiphorou E, Sepriano A, Ortolan A, Webers C, Baraliakos X, Landewe RBM, Van den Bosch FE, Boteva B, Bremander A, Carron P, Ciurea A, van Gaalen FA, Geher P, Gensler L, Hermann J, de Hooge M, Husakova M, Kiltz U, Lopez-Medina C, Machado PM, Marzo-Ortega H, Molto A, Navarro-Compan V, Nissen MJ, Pimentel-Santos FM, Poddubnyy D, Proft F, Rudwaleit M, Telkman M, Zhao SS, Ziade N, van der Heijde D. ASAS-EULAR recommendations for the management of axial spondyloarthritis: 2022 update. ANNALS OF THE RHEUMATIC DISEASES. 2023. 19-34. DOI: 10.1136/ard-2022-223296.
IF: 27,4 Q1 D1
3. Lopez-Pedrerá C, Patino-Trives AM, Cerdo T, Ortega-Castro R, Sanchez-Pareja I, Ibanez-Costa A, Munoz-Barrera L, Abalos-Aguilera MC, Ruiz-Vilchez D, Azpilcueta PS, Espinosa M, Barbarroja N, Escudero-Contreras A, Castano JP, Luque R, Ortega R, Aguirre MA, Perez-Sanchez C. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. JOURNAL OF AUTOIMMUNITY. 2023. DOI: 10.1016/j.jaut.2022.102990.
IF: 12,8 Q1 D1
4. Lopez-Pedrerá C, Oteros R, Ibáñez-Costa A, Luque-Tévar M, Muñoz-Barrera L, Barbarroja N, Chicano-Gálvez E, Marta-Enguita J, Orbe J, Velasco F, Perez-Sanchez C. The thrombus proteome in stroke reveals a key role of the innate immune system and new insights associated with its etiology, severity, and prognosis. JOURNAL OF THROMBOSIS AND HAEMOSTASIS. 2023. 2894-2907. DOI: 10.1016/j.jtha.2023.04.015.
IF: 10,4 Q1 D1
5. Cerdo T, Nieto-Ruiz A, Garcia-Santos JA, Rodriguez-Pohnlein A, Garcia-Ricobaraza M, Suarez A, Bermudez MG, Campoy C. Current Knowledge About the Impact of Maternal and Infant Nutrition on the Development of the Microbiota-Gut-Brain Axis. ANNUAL REVIEW OF NUTRITION. 2023. 251-278. DOI: 10.1146/annurev-nutr-061021-025355.
IF: 8,9 Q1 D1

» ACTIVITY:

- Nº ONGOING PROJECTS: 10
- Nº GRANTED PROJECTS IN 2023: 3
- Nº CLINICAL TRIALS: 30
- Nº PHD THESES: 3

» ADDITIONAL INFORMATION:

• NETWORKS: 4

1. PAIDI CTS-1004
2. The Research Network for Inflammation and Rheumatic Diseases (RIER)
3. APS ACTION. Anti-Phospholipid Syndrome Alliance For Clinical Trials and International Networking
4. REDES DE INVESTIGACIÓN COOPERATIVA ORIENTADAS A RESULTADOS EN SALUD (RICORS; RD21/0002/0033)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 15

1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- TOMAS CERDO RAEZ
2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARÍA LOURDES LADEHESA PINEDA
3. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- CARLOS PEREZ SANCHEZ
4. AYUDAS PARA FACULTATIVOS INVESTIGADORES 2021-2024. Funding Agency: FUNDACIÓN ESPAÑOLA DE REUMATOLOGÍA- INMACULADA CONCEPCIÓN ARANDA VALERA
5. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- MIRIAM RUIZ PONCE
6. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- LAURA MUÑOZ BARRERA
7. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ELENA MORENO CAÑO
8. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ANTONIO MANUEL BARRANCO MOYANO
9. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- SAGRARIO CORRALES DIAZ-FLORES
10. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- CRISTINA MARIA LOPEZ VAZQUEZ
11. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS JUAN RODÉS 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- CLEMENTINA LÓPEZ MEDINA
12. ACCIÓN ESTRATÉGICA EN SALUD - MOVILIDAD DE PERSONAL INVESTIGADOR CONTRATADO EN EL MARCO DE LA AES (M-AES) 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- TOMAS CERDO RAEZ
13. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LOS AGENTES DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- IVAN ARIAS DE LA ROSA
14. RENOVACIÓN ACCIÓN C (PROGRAMA NICOLÁS MONARDES) DE LA CONVOCATORIA 2012. Funding Agency: SERVICIO ANDALUZ DE SALUD- ROSARIO LOPEZ PEDRERA CLINICO-INVESTIGADOR ACCIÓN B (SAS) – JERUSALEM CALVO GUTIÉRREZ
15. FORMACIÓN DE PROFESORADO UNIVERSITARIO (FPU)- LAURA CUESTA

• 23 AGREEMENTS WITH COMPANIES

• INTERNATIONAL PROJECTS: 3

1. EDUARDO COLLANTES ESTEVEZ. 3TR - Identification of the Molecular Mechanisms of non-response to Treatments, Relapses and Remission in Autoimmune, Inflammatory, and Allergic Conditions. Funding Agency: COMISIÓN EUROPEA. Reference: IMI2-2018-14-01-F2
2. ROSARIO LOPEZ PEDRERA. Characterization of baricitinib effects on the pro-thrombotic and cardiovascular risk profile of rheumatoid arthritis patients. Funding Agency: ELI LILLY AND COMPANY. Reference: Lilly-IIR-2020-001
3. NURIA BARBARROJA PUERTO. IMPACT OF JAK-STAT INHIBITION ON THE METABOLIC SYNDROME AND CARDIOVASCULAR RISK ASSOCIATED WITH RHEUMATOID ARTHRITIS. Funding Agency: PFIZER, S.A. Reference: Pfizer-ISR-2019-01

• AWARDS: 3

1. MIRIAM RUIZ PONCE. Premio a la mejor comunicación tipo POSTER sesión I. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/007
2. ROSARIO LOPEZ PEDRERA. LM22 I PREMIO ENRIQUE AGUILAR BENITEZ DE LUGO - ROSARIO LOPEZ PEDRERA: Splicing machinery is impaired in rheumatoid arthritis, associated with disease activity and modulated by anti-TNF therapy. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: LM22_CO_02
3. CARLOS PEREZ SANCHEZ. Medicina Personalizada en Artritis Reumatoide. Funding Agency: ROCHE FARMA, S.A. Reference: PZinkinn_002

GC06:

NEW THERAPIES IN CANCER

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Aranda	Aguilar	Enrique	R4	0000-0002-5471-2842
De La Haba	Rodríguez	Juan Rafael	R4	0000-0001-5111-1702
Rodríguez	Ariza	Antonio	R4	0000-0001-5304-5745
García	Ortiz	M ^a Victoria	R3	
Gómez	España	M ^a Auxiliadora	R3	
Guil	Luna	Silvia	R3	
Barneto	Aranda	Isidoro C	R2	
Diego	Márquez	Medina	R2	
Martínez	Peinado	Antonio	R2	
Méndez	Vidal	M ^a José	R2	
Morales	Estévez	Cristina	R2	
Ortiz	Morales	M ^a José	R2	
Serrano	Blanch	Raquel	R2	
Villar	Pastor	Carlos	R2	
Cano	Ramírez	Pablo Francisco	R1	
Cano	Osuna	M ^a Teresa	R1	
Mantrana	Soldado	Ana	R1	
Montero	Gómez	Marina	R1	
Navarrete	Sirvent	Carmen	R1	
Peña	Enríquez	Regina	R1	
Porras	Quintela	Ignacio	R1	
Rivas	Crespo	Aurora	R1	
Rodríguez	Alonso	Beatriz	R1	
Rodríguez	Alonso	Rosa María	R1	
Salguero	Segura	Joseba	R1	
Sánchez	Mauriño	Pedro	R1	
Sánchez	Montero	M ^a Teresa	R1	
Checa	Expósito	Marta	N	
Díaz	Ruano	M ^a Dolores	N	
Gutiérrez-Rave	Pereda	Miguel Ángel	N	
Jiménez	Ríos	Carmen María	N	
Martín	Fernández	Juan M ^a	N	
Puentes	Aguado	Miguel	N	
Rubio	Plata	Imanol	N	
Aranda	Aguilar	Asunción	ADM	
Vázquez	Ibáñez	M ^a Pilar	ADM	
Arenas	Criado	Sofía	T	
Avila	Oca	Virginia	T	
Bernal	García	Gonzalo	T	
Camacho	Cecilia	Marta	T	
Campón	Montilla	Daniel José	T	

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Cañadilla	Pérez	Inmaculada	T
Cuesta	Venteo	Remedios	T
Díaz	Chacón	Alejandra	T
Díaz	Díaz	M ^a Ángeles	T
Fernández	Casas	Irene	T
Gálvez	Membrives	Inmaculada	T
Herrera	Casanova	Nerea María	T
Kindelan	Segador	Lara	T
Leña	Barranco	Amalia	T
Marín	Serrano	Jacinta	T
Marín	Serrano	M ^a José	T
Marquez	Gomez-Lama	M ^a Nieves	T
Miriam	Rivero	Talavera	T
Moral	Garófano	Virginia	T
Nevado	De la Cruz	Laura	T
Parrado	González	Helena	T
Pavón	Gómez	Rebeca	T
Rodríguez	de Julián	Carlos	T
Rodríguez	De Julián	Sonia	T
Sánchez	Nieves	Rubén	T
Sánchez	Ostos	Manuel	T

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Colorectal cancer	Prognosis
Breast cancer	Prediction of response
Nitric oxide	Liquid biopsy
Proteomics	Targeted therapy
Biomarkers	Precision oncology

» HIGHLIGHTED PUBLICATIONS:

1. Provencio M, Nadal E, González-Larriba JL, Martínez-Martí A, Bernabé R, Bosch-Barrera J, Casal-Rubio J, Calvo V, Insa A, Ponce S, Reguart N, de Castro J, Mosquera J, Cobo M, Aguilar A, Vivanco GL, Camps C, López-Castro R, Morán T, Barneto I, Rodríguez-Abreu D, Serna-Blasco R, Benitez R, de la Rosa CA, Palmero R, Hernando-Trancho F, Martín-López J, Cruz-Bermúdez A, Massuti B, Romero A. Perioperative Nivolumab and Chemotherapy in Stage III Non-Small-Cell Lung Cancer. NEW ENGLAND JOURNAL OF MEDICINE. 2023. 504-513. DOI: 10.1056/NEJMoa2215530.

IF: 158,5 Q1 D1

2. Aix SP, Ciuleanu TE, Navarro A, Cousin S, Bonanno L, Smit EF, Chiappori A, Olmedo ME, Horvath I, Grohe C, Farago AF, Lopez-Vilarino JA, Cullell-Young M, Nieto A, Vasco N, Gomez J, Kahatt C, Zeaiter A, Carcereny E, Roubec J, Syrigos K, Lo G, Barneto I, Pope A, Sanchez A, Kattan J, Zarogoulidis K, Waller CF, Bischoff H, Juan-Vidal O, Reinmuth N, Domine M, Paz-Ares L. Combination lurbinectedin and doxorubicin versus physician's choice of chemotherapy in patients with relapsed small-cell lung cancer (ATLANTIS): a multicentre, randomised, open-label, phase 3 trial. LANCET RESPIRATORY MEDICINE. 2023. 74-86. DOI: 10.1016/S2213-2600(22)00309-5.

IF: 76,2 Q1 D1

3. Choueiri TK, Eto M, Motzer R, De Giorgi U, Buchler T, Basappa NS, Mendez-Vidal MJ, Tjulandin S, Park SH, Melichar B, Hutson T, Alemany C, McGregor B, Powles T, Grunwald V, Alekseev B, Rha SY, Kopyltsov E, Kapoor A, Gordo TA, Goh JC, Staehler M, Merchan JR, Xie R, Perini RF, Mody K, McKenzie J, Porta C. Lenvatinib plus pembrolizumab versus sunitinib as first-line treatment of patients with advanced renal cell carcinoma (CLEAR): extended follow-up from the phase 3, randomised, open-label study. LANCET ONCOLOGY. 2023. 228-238. DOI: 10.1016/S1470-2045(23)00049-9.

IF: 51,1 Q1 D1

4. Suarez C, Larkin JMG, Patel P, Valderrama BP, Rodriguez-Vida A, Glen H, Thistlethwaite F, Ralph C, Srinivasan G, Mendez-Vidal MJ, Hartmaier R, Markovets A, Prendergast A, Szabados B, Mousa K, Powles T. Phase II Study Investigating the Safety and Efficacy of Savolitinib and Durvalumab in Metastatic Papillary Renal Cancer (CALYPSO). JOURNAL OF CLINICAL ONCOLOGY. 2023. 2493-2502. DOI: 10.1200/JCO.22.01414.

IF: 45,3 Q1 D1

5. Perez-Garcia JM, Batista MV, Cortez P, Ruiz-Borrego M, Cejalvo JM, de la Haba-Rodriguez J, Garrigos L, Racca F, Servitja S, Blanch S, Gion M, Nave M, Fernandez-Abad M, Martinez-Bueno A, Llombart-Cussac A, Sampayo-Cordero M, Malfettone A, Cortes J, Braga S. Trastuzumab deruxtecan in patients with central nervous system involvement from HER2-positive breast cancer: The DEBBRAH trial. NEURO-ONCOLOGY. 2023. 157-166. DOI: 10.1093/neuonc/noac144.

IF: 15,9 Q1 D1

» ACTIVITY:

- N° ONGOING PROJECTS: 8
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 135

» ADDITIONAL INFORMATION:

- NETWORKS: 10
 1. CIBER (CIBERONC: Mama y Tumores Colorectales)
 2. PAIDI CTS-234
 3. Alianza Andalucía-Roche, Oncología Médica de Precisión
 4. GEICAM FUNDACIÓN GRUPO ESPAÑOL DE INVESTIGACIÓN EN CÁNCER DE MAMA
 5. TTD GRUPO DE TRATAMIENTO DE LOS TUMORES DIGESTIVOS
 6. GEICO GRUPO ESPAÑOL DE INVESTIGACIÓN EN CÁNCER DE OVARIO
 7. GECP GRUPO ESPAÑOL DE CÁNCER DE PULMÓN
 8. GEIS GRUPO ESPAÑOL DE INVESTIGACIÓN DE SARCOMAS
 9. SOGUG SPANISH ONCOLOGY GENITO URINARY GROUP
 10. GETNE GRUPO ESPAÑOL DE TUMORES NEUROENDOCRINOS Y ENDOCRINOS
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 9
 1. INTENSIFICACIÓN SAS – ENRIQUE ARANDA AGUILAR
 2. JUNTA PROVINCIAL SEVILLA PREDOCTORAL AECC 2019. Funding Agency: ASOCIACIÓN ESPAÑOLA CONTRA EL CÁNCER- ENRIQUE ARANDA AGUILAR
 3. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- CARMEN NAVARRETE SIRVENT
 4. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ALEJANDRA DIAZ CHACON
 5. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- VIRGINIA AVILA OCA
 6. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- NEREA MARIA HERRERA CASANOVA
 7. AYUDAS PARA CONTRATOS PREDOCTORALES PARA LA FORMACIÓN DE DOCTORES 2020. Funding Agency: AGENCIA ESTATAL DE INVESTIGACIÓN- MARIA TERESA SANCHEZ MONTERO
 8. RENOVACIÓN ACCIÓN C (PROGRAMA NICOLÁS MONARDES) DE LA CONVOCATORIA 2012. Funding Agency: SERVICIO ANDALUZ DE SALUD- ANTONIO RODRÍGUEZ ARIZA
 9. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- MARIA VICTORIA GARCÍA ORTIZ
- 15 AGREEMENTS WITH COMPANIES

GC07:

NEPHROLOGY.CELL DAMAGE IN CHRONIC INFLAMMATION

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

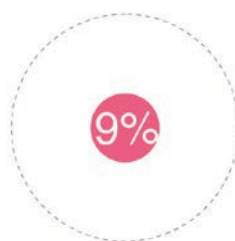
» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Martín	Malo	Alejandro	R4	0000-0002-8010-7187
Agüera	Morales	Mª Luisa	R3	
Espinosa	Hernández	Mario	R3	
Guerrero	Pavón	Fátima	R3	
Navarro	Cabello	Mª Dolores	R3	
Rodríguez	Benot	Alberto	R3	
Santamaría	Olmo	Rafael	R3	
Soriano	Cabrera	Sagrario	R3	
Ariza	Fuentes	Francisco Javier	R2	
Carmona	Muñoz	Andrés	R2	
Crespo	Montero	Rodolfo	R2	
García	Montemayor	Victoria Eugenia	R2	
López	Andreu	María	R1	
López	López	Isabel	R1	
Moyano	Peregrín	Cayetana	R1	
Ojeda	López	Raquel	R1	
Rabasco	Ruiz	Cristina	R1	
Torres	De Rueda	José Álvaro	R1	
Valdés	Díaz	Karen Cecilia	R1	
Jiménez	Moral	Mª José	T	
Obrero	Sojo	Teresa	T	
Vidal	Jiménez	Victoria	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Cell activation	Renal Transplantation
Chronic renal failure	Inflammation
Microinflammation	Cellular stress
Cell therapy	Genomic damage
Hemodialysis	Endothelium

» HIGHLIGHTED PUBLICATIONS:

1. Carmona A, Guerrero F, Munoz-Castaneda JR, Jimenez MJ, Rodriguez M, Soriano S, Martin-Malo A. Uremic Toxins Induce THP-1 Monocyte Endothelial Adhesion and Migration through Specific miRNA Expression. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. -. DOI: 10.3390/ijms241612938.
IF: 5,6 Q1 D3
2. Borrego Utiel FJ, Espinosa Hernandez M. How to Estimate Kidney Growth in Patients with Autosomal Dominant Polycystic Kidney Disease. JOURNAL OF THE AMERICAN SOCIETY OF NEPHROLOGY. 2023. 944-950. DOI: 10.1681/ASN.0000000000000130.
IF: 13,6 Q1 D1
3. Vergara N, de Mier MVPR, Rodelo-Haad C, Revilla-Gonzalez G, Membrives C, Diaz-Tocados JM, Martinez-Moreno JM, Torralbo AI, Herencia C, Rodriguez-Ortiz ME, Lopez-Baltanas R, Richards WG, Felsenfeld A, Almaden Y, Martin-Malo A, Urena J, Santamaria R, Soriano S, Rodriguez M, Munoz-Castaneda JR. The direct effect of fibroblast growth factor 23 on vascular smooth muscle cell phenotype and function. NEPHROLOGY DIALYSIS TRANSPLANTATION. 2023. 322-343. DOI: 10.1093/ndt/gfac220.
IF: 6,1 Q1 D2
4. Cavero T, Aunon P, Caravaca-Fontan F, Trujillo H, Arjona E, Morales E, Guillen E, Blasco M, Rabasco C, Espinosa M, Blanco M, Rodriguez-Magarinos C, Cao M, Avila A, Huerta A, Rubio E, Cabello V, Barros X, de Jorge EG, de Cordoba SR, Praga M. Thrombotic microangiopathy in patients with malignant hypertension. NEPHROLOGY DIALYSIS TRANSPLANTATION. 2023. 1217-1226. DOI: 10.1093/ndt/gfac248.
IF: 6,1 Q1 D2
5. Lopez-Pedreria C, Patino-Trives AM, Cerdo T, Ortega-Castro R, Sanchez-Pareja I, Ibanez-Costa A, Munoz-Barrera L, Abalos-Aguilera MC, Ruiz-Vilchez D, Azpilcueta PS, Espinosa M, Barbarroja N, Escudero-Contreras A, Castano JP, Luque R, Ortega R, Aguirre MA, Perez-Sanchez C. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. JOURNAL OF AUTOIMMUNITY. 2023. -. DOI: 10.1016/j.jaut.2022.102990.
IF: 12,8 Q1 D1

» CLINICAL GUIDES:

1. J Vicente Torregrosa, J Bover, M Rodríguez, E González-Parra, MD Arenas, F Caravaca, ML González-Casaus, A Martín-Mal, JF Navarro-González, V Lorenzo, P Molina, M Rodríguez, J Cannata. Recommendations of the Spanish Society of Nephrology for the management of mineral and bone metabolism disorders in patients with chronic kidney disease: 2021 (SEN-MM). Nefrologia (Engl Ed) 2023 Jun;43 Suppl 1:1-36. doi: 10.1016/j.nefro.2023.03.003.

» ACTIVITY:

- N° ONGOING PROJECTS: 5
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 22
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 6
 1. RICORS 040
 2. PAIDI CTS-260
 3. Medtronic PSP-RCS
 4. Hyperphosphatemia and CKD
 5. Calidad de las Unidades ERCA (ACERCA)
 6. CSUR de enfermedades glomerulares (Ministerio Sanidad)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3
 1. INTENSIFICACIÓN (SAS) – ALEJANDRO MARTÍN MALO / SAGRARIO SORIANO CABRERA
 2. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- ANDRÉS CARMONA MUÑOZ
 3. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- VICTORIA VIDAL JIMENEZ
- 7 AGREEMENTS WITH COMPANIES
- AWARDS: 2
 1. KAREN CECILIA VALDÉS DÍAZ. Premio a la mejor comunicación tipo POSTER sesión II- Karen Valdés Díaz. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/008.
 2. PREMIO a una de las mejores comunicaciones orales en el 53 Congreso de la Sociedad Española de Nefrología, Palma de Mallorca 2023.

GC08:

HORMONES AND CANCER

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Castaño	Fuentes	Justo Pastor	R4	0000-0002-3145-7287
Gracia	Navarro	Francisco	R4	
Moreno	Moreno	Paloma	R2	
Ibáñez	Costa	Alejandro	R2	
Pedraza	Arévalo	Sergio	R2	
Blázquez	Encinas-Rey	Ricardo	R1	
González	Pérez	Clara	R1	
Blanco	Acevedo	Cristobal José	R1	
Caro	Cuenca	Mª Teresa	R1	
Del Río	Moreno	Guillermina	R1	
García	Vioque	Víctor	R1	
Moreno	Montilla	Mª Trinidad	R1	
Padillo	Cuenca	José Carlos	R1	
Ruiz	Palacios	Daniel	R1	
Sánchez	Frias	Marina Esther	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Cellular and molecular endocrine oncology	Spliceosome
Pancreatic cancer	Somatostatin
Neuroendocrine tumors	Somatostatin-receptors
Pituitary tumors	Cortistatin
Alternative splicing	Ghrelin
Splice-variants	Signaling

» HIGHLIGHTED PUBLICATIONS:

1. Ho KKY, Kaiser UB, Chanson P, Gadelha M, Wass J, Nieman L, Little A, Aghi MK, Raetzman L, Post K, Raverot G, Borowsky AD, Erickson D, Castano JP, Laws ER, Zatelli MC, Sisco J, Esserman L, Yuen KCJ, Reincke M, Melmed S. Pituitary adenoma or neuroendocrine tumour: the need for an integrated prognostic classification. NATURE REVIEWS ENDOCRINOLOGY. 2023. 671-678. DOI: 10.1038/s41574-023-00883-8.

IF: 40,5 Q1 D1

2. Mangiante L, Alcalá N, Sexton-Oates A, Di Genova A, Gonzalez-Perez A, Khandekar A, Bergstrom EN, Kim J, Liu XR, Blazquez-Encinas R, Giacobi C, Le Stang N, Boyault S, Cuenin C, Tabone-Eglinger S, Damiola F, Voegelé C, Ardin M, Michallet MC, Soudade L, Delhomme TM, Poret A, Brevet M, Copin MC, Giusiano-Courcambeck S, Damotte D, Girard C, Hofman V, Hofman P, Mouroux J, Cohen C, Lacomme S, Mazieres J, de Montpreville VT, Perrin C, Planchard G, Rousseau N, Rouquette I, Sagan C, Scherpereel A, Thivolet F, Vignaud JM, Jean D, Ilg AGS, Olaso R, Meyer V, Boland-Auge A, Deleuze JF, Altmüller J, Nuernberg P, Ibanez-Costa A, Castano JP, Lantuejoul S, Ghantous A, Maussion C, Courtiol P, Hernandez-Vargas H, Caux C, Girard N, Lopez-Bigas N, Alexandrov LB, Galateau-Salle F, Foll M, Fernandez-Cuesta L. Multiomic analysis of malignant pleural mesothelioma identifies molecular axes and specialized tumor profiles driving intertumor heterogeneity. NATURE GENETICS. 2023. 607-618. DOI: 10.1038/s41588-023-01321-1.

IF: 30,8 Q1 D1

3. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. EXPERIMENTAL AND MOLECULAR MEDICINE. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7.

IF: 12,8 Q1 D1

4. Alors-Pérez E, Pedraza-Arevalo S, Blázquez-Encinas R, Moreno-Montilla MT, García-Vioque V, Berbel I, Luque RM, Sainz B Jr, Ibañez-Costa A, Castaño JP. Splicing alterations in pancreatic ductal adenocarcinoma: a new molecular landscape with translational potential. JOURNAL OF EXPERIMENTAL & CLINICAL CANCER RESEARCH. 2023. -. DOI: 10.1186/s13046-023-02858-z.

IF: 11,3 Q1 D2

5. Pedraza-Arevalo S, Alors-Perez E, Blazquez-Encinas R, Herrera-Martinez AD, Jimenez-Vacas JM, Fuentes-Fayos AC, Reyes O, Ventura S, Sanchez-Sanchez R, Ortega-Salas R, Serrano-Blanch R, Galvez-Moreno MA, Gahete MD, Ibanez-Costa A, Luque RM, Castano JP. Spliceosomic dysregulation unveils NOVA1 as a candidate actionable therapeutic target in pancreatic neuroendocrine tumors. TRANSLATIONAL RESEARCH. 2023. 63-73. DOI: 10.1016/j.trsl.2022.07.005.

IF: 7,8 Q1 D2

» ACTIVITY:

- Nº ONGOING PROJECTS: 3
- Nº GRANTED PROJECTS IN 2023: 4

» ADDITIONAL INFORMATION:

- NETWORKS: 13
 1. CIBER Physiopathology of Obesity and Nutrition – CIBERObn
 2. PAIDI BIO-139
 3. COST – CA21116 – Identification of biological markers for prevention and translational medicine in pancreatic cancer (TRANSPAN)
 4. TransBioNet – Spanish Bioinformatics Network for Clinical Research
 5. European Neuroendocrine Tumor Society (ENETS): Advisory Board and Educational and Lung NET task forces
 6. European Society of Endocrinology (ESE). Pituitary and Neuroendocrinology Focus Area.
 7. Spanish Group on Endocrine and Neuroendocrine Tumors (GETNE)
 8. Spanish Molecular Registry of Hypophyseal Adenomas (REMAH)
 9. Agrifood Campus of International Excellence (ceiA3)
 10. Rare Cancer Genomics (IARC, WHO)
 11. Spanish Society of Endocrinology and Nutrition (SEEN). Area of Knowledge of Neuroendocrinology
 12. Andalusian Society of Endocrinology, Diabetes and Nutrition (SAEDYN). Area of Knowledge of Neuroendocrinology
 13. Red Bioinformática Traslacional TransBioNet.

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 9
 1. FPU (MEC) – ANTONIO CARLOS FUENTES FAYOS.
 2. FPU (MEC) – RICARDO BLÁZQUEZ ENCINAS REY.
 3. FPU (UCO) – MARÍA TRINIDAD MORENO MONTILLA.
 4. FPU (MEC) – VÍCTOR GARCÍA VIOQUE.
 5. CONVOCATORIA COMPLEMENTARIA DE AYUDAS PARA LA RECUALIFICACIÓN DEL SISTEMA UNIVERSITARIO ESPAÑOL. AYUDAS MARÍA ZAMBRANO PARA LA ATRACCIÓN DE TALENTO INTERNACIONAL. MINISTERIO DE UNIVERSIDADES-UNIVERSIDAD DE CORDOBA-FEDER. SERGIO PEDRAZA AREVALO
 6. UNDERGRADUATE STUDENT LABORATORY EXPERIENCE GRANT 2022. Funding Agency: BRITISH SOCIETY FOR NEUROENDOCRINOLOGY- ÁNGELA MARÍA SUÁREZ
 7. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- ALEJANDRO IBAÑEZ COSTA
 8. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- MIRIAM CRUZADO CABALLERO
 9. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- CLARA GONZALEZ PEREZ
- 1 AGREEMENT WITH COMPANIES
- INTERNATIONAL PROJECTS: 2
 1. ALEJANDRO IBAÑEZ COSTA. Neuroendocrine tumour patient-derived xenografts: tools for pre-clinical testing. Funding Agency: SOCIETY FOR ENDOCRINOLOGY. Reference: BSE-ECG-2021-01
 2. JUSTO PASTOR CASTAÑO FUENTES. Reconciling lung carcinoids histopathological and molecular classifications. Funding Agency: NEUROENDOCRINE TUMOR RESEARCH FOUNDATION. Reference: NTRF-2022-01
- AWARDS: 1
 1. VICTOR GARCÍA VIOQUE. Premio a la mejor comunicación de la SESSION V.Cáncer II- Víctor García Vioque. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/005

GC09:

NUTRIGENOMICS. METABOLIC SYNDROME

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
López	Miranda	José	R4	0000-0002-8844-0718
Delgado	Lista	Francisco Javier	R4	0000-0002-2982-2716
Pérez	Jiménez	Francisco	R4	0000-0001-9808-1280
Pérez	Martínez	Pablo	R4	0000-0001-7716-8117
Yubero	Serrano	Elena	R4	0000-0002-2733-5359
Alcalá	Díaz	Juan Francisco	R3	
Blanco	Molina	M ^a Ángeles	R3	
Camargo	García	Antonio	R3	
Fernández	De La Puebla	Rafael Ángel	R3	
Fuentes	Jiménez	Francisco	R3	
García	Rios	Antonio	R3	
López	Jiménez	Luciano	R3	
Montero	Pérez-Barquero	Manuel	R3	
Pérez	Caballero	Anabel	R3	
Rangel	Zuñiga	Oriol Alberto	R3	
Arenas	De Larriva	Antonio Pablo	R2	
Boughanem	Lakhal	Hatim	R2	
Cortés	Rodríguez	Begoña	R2	
Criado	García	Juan	R2	
De La Cruz	Ares	Silvia	R2	
Gómez	Luna	Purificación	R2	
Gutiérrez	Mariscal	Francisco Miguel	R2	
Jiménez	Morales	Anabel	R2	
López	Moreno	Javier	R2	
Lozano	Rodríguez-Manche- ño	Aquiles	R2	
Martín	Piedra	Laura	R2	
Millán	Orge	Marta	R2	
Mora	Ortiz	Marina	R2	
Ojeda	Rodríguez	Ana	R2	
Pino	Ángeles	Almudena	R2	
Rivas	García	Lorenzo	R2	
Romero	Cabrera	Juan Luis	R2	
Sánchez	Gutiérrez	Mónica	R2	
Torres	Peña	José David	R2	
Vaquero	Álvarez	Manuel	R2	
Arenas	Montes	Javier	R1	

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Díaz	Cáceres	Alberto	R1	
García	Fernández	Helena	R1	
López	Moreno	Alejandro	R1	
Párraga	Viúdez	María	R1	
Podadera	Herreros	Alicia	R1	
Porras	Pérez	Esther	R1	
Quiros	Jiménez	Alba	R1	
Vega	Rojas	Ana María	R1	
Villasanta	González	Alejandro	R1	
Morillo-Velarde	Castro	Blanca	N	
Romero	Monterroso	Margarita	N	
Carreras	Calero	Rosario	T	
Castro	Montero	Sofia	T	
Morales	Martínez	Jose Andrés	T	
Peña	Orihuela	Patricia Judith	T	
Quintana	Navarro	Gracia María	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Atherosclerosis	Inflammation
Endothelial dysfunction	Oxidative stress
Metabolic syndrome	Cholesterol
Type 2 diabetes mellitus	Gene expression
Mediterranean diet	Proteomics
Olive oil	Nutrigenetics
Polyphenols	Nutrigenomics
Antioxidants	Gut microbiota

» HIGHLIGHTED PUBLICATIONS:

1. Gaba P, O'Donoghue ML, Park JG, Wiviott SD, Atar D, Kuder JF, Im K, Murphy SA, De Ferrari GM, Gaciong ZA, Toth K, Gouni-Berthold I, Lopez-Miranda J, Schiele F, Mach F, Flores-Arredondo JH, Lopez JAG, Elliott-Davey M, Wang B, Monsalvo ML, Abbasi S, Giugliano RP, Sabatine MS. Association Between Achieved Low-Density Lipoprotein Cholesterol Levels and Long-Term Cardiovascular and Safety Outcomes: An Analysis of FOURIER-OLE. CIRCULATION. 2023. 1192-1203. DOI: 10.1161/CIRCULATIONAHA.122.063399.

IF: 37,8 Q1 D1

2. Romero-Cabrera JL, Garcia-Rios A, Sotos-Prieto M, Quintana-Navarro G, Alcala-Diaz JF, Martin-Piedra L, Torres-Pena JD, Luque RM, Yubero-Serrano EM, Delgado-Lista J, Katsiki N, Kales SN, Lopez-Miranda J, Perez-Martinez P. Adherence to a Mediterranean lifestyle improves metabolic status in coronary heart disease patients: A prospective analysis from the CORDIOPREV study. JOURNAL OF INTERNAL MEDICINE. 2023. 574-588. DOI: 10.1111/joim.13602.

IF: 11,1 Q1 D2

3. Villasanta-Gonzalez A, Mora-Ortiz M, Alcala-Diaz JF, Rivas-Garcia L, Torres-Pena JD, Lopez-Bascon A, Calderon-Santiago M, Arenas-Larriva AP, Priego-Capote F, Malagon MM, Eichelmann F, Perez-Martinez P, Delgado-Lista J, Schulze MB, Camargo A, Lopez-Miranda J. Plasma lipidic fingerprint associated with type 2 diabetes in patients with coronary heart disease: CORDIOPREV study. CARDIOVASCULAR DIABETOLOGY. 2023. -. DOI: 10.1186/s12933-023-01933-1.

IF: 9,3 Q1 D2

4. Ruissen MM, Torres-Peña JD, Uitbeijerse BS, de Larriva APA, Huisman SD, Namli T, Salzsieder E, Vogt L, Ploessnig M, van der Putte B, Merle A, Serra G, Rodríguez G, de Graaf AA, de Koning EJP, Delgado-Lista J, Sont JK. Clinical impact of an integrated e-health system for diabetes self-management support and shared decision making (POWER2DM): a randomised controlled trial. DIABETOLOGIA. 2023. 2213-2225. DOI: 10.1007/s00125-023-06006-2.

IF: 8,2 Q1 D1

5. Santos-Marcos JA, Mora-Ortiz M, Tena-Sempere M, Lopez-Miranda J, Camargo A. Interaction between gut microbiota and sex hormones and their relation to sexual dimorphism in metabolic diseases. BIOLOGY OF SEX DIFFERENCES. 2023. DOI: 10.1186/s13293-023-00490-2.

IF: 7,9 Q1 D1

» CLINICAL GUIDES: 3

1. Perez Martinez, Pablo; Gomez-Huelgas, Ricardo; Casado Escribano, Pedro Pablo; Arevalo-Lorido, Jose Carlos; Perez-Soto, Maria Isabel; Carretero Gomez, Juana. Approach to obesity in the elderly population: a consensus report from the Diabetes, Obesity and Nutrition Working Group of SEMI (Spanish Society of Internal Medicine). Revista clínica española. 223. 493-498.

DOI: 10.1016/j.rceng.2023.07.005

2. Pérez-Martínez, P; Ros, E; Pedro-Botet, J; Civeira, F; Pascual, V; Garcés, C; Solá, R; Pérez-Jiménez, F; Mostaza, JM. Functional foods and nutraceuticals in the treatment of hypercholesterolemia: Statement of the Spanish Society of Arteriosclerosis 2023. CLÍNICA E INVESTIGACIÓN EN ARTERIOESCLEROSIS. 35. 248-261. DOI: 10.1016/j.arteri.2023.02.002

3. Pascual, V; Díaz, J; Núñez-Cortés, J, Pérez-Martínez, P. Nutritional recommendations in the prevention and treatment of atherogenic dyslipidemia. CLÍNICA E INVESTIGACIÓN EN ARTERIOESCLEROSIS. 35. 155-163.

DOI: 10.1016/j.arteri.2022.09.002

» ACTIVITY:

- Nº ONGOING PROJECTS: 12
- Nº GRANTED PROJECTS IN 2023: 2
- Nº CLINICAL TRIALS: 32
- Nº PHD THESES: 1

» ADDITIONAL INFORMATION:

• NETWORKS: 4

1. CIBER Physiopathology of Obesity and Nutrition (CIBERObn)
2. PAIDI CTS-212: NUTRITION AND DISEASE
3. PAIDI CTS-525: INTERACTION GENES AND ENVIRONMENT
4. NUTRIEPIGEN (NutriEpiGen is a working group of Spanish researchers specialized in the area of lifestyle and epigenetics; Funded by the Ministry of Science, Innovation and Universities of Spain (reference AGL 2017-90623-RED)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 21

1. INTENSIFICACIÓN (SAS) – JOSÉ LÓPEZ MIRANDA
2. ACCIÓN B - CLÍNICOS INVESTIGADORES. REFUERZO ANUAL DE LA ACTIVIDAD INVESTIGADORA EN LAS UGC DEL SAS 2017- (SERVICIO ANDALUZ DE SALUD) - JUAN FRANCISCO ALCALÁ DÍAZ
3. ACCIÓN C. IMPULSO DE LA INVESTIGACIÓN TRASLACIONAL DE LAS UGC (PROGRAMA NICOLÁS MONARDES) 2022. Funding Agency: SERVICIO ANDALUZ DE SALUD- ANTONIO CAMARGO GARCÍA
4. ACCIÓN C. IMPULSO DE LA INVESTIGACIÓN TRASLACIONAL DE LAS UGC (PROGRAMA NICOLÁS MONARDES) 2019. Funding Agency: SERVICIO ANDALUZ DE SALUD- ELENA YUBERO SERRANO
5. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- LORENZO RIVAS GARCIA
6. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- ANA OJEDA RODRIGUEZ

7. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- HATIM BOUGHANEM LAKHAL
 8. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- ANTONIO PABLO ARENAS DE LARRIVA
 9. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- JUAN LUIS ROMERO CABRERA
 10. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- ORIOL ALBERTO RANGEL ZUÑIGA
 11. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET TIPO II 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- ANTONIO CAMARGO GARCÍA
 12. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- ALICIA PODADERA HERREROS
 13. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- HELENA MARIA GARCIA FERNANDEZ
 14. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- ESTHER PORRAS PEREZ
 15. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- MARIA HIDALGO DE LA ROSA
 16. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- INES VAQUERO CORDOBA
 17. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- ORIOL ALBERTO RANGEL ZUÑIGA
 18. CO-FINANCIACIÓN PROYECTO P2Med-IMIBIC. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- PABLO PÉREZ MARTÍNEZ
 19. ACCIÓN ESTRATÉGICA EN SALUD - MOVILIDAD DE PERSONAL INVESTIGADOR CONTRATADO EN EL MARCO DE LA AES (M-AES) 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- ALICIA PODADERA HERREROS
 20. CO-FINANCIACIÓN PROYECTO P2Med-IMIBIC. Funding Agency: UNIVERSIDAD DE CORDOBA- MARINA MORA ORTIZ
 21. MARIE SKLODOWSKA-CURIE: CO-FUNDING OF REGIONAL, NATIONAL AND INTERNATIONAL PROGRAMMES 2018. Funding Agency: COMISIÓN EUROPEA- ALMUDENA PINO ANGELES
- 18 AGREEMENTS WITH COMPANIES
 - INTERNATIONAL PROJECTS: 1
 1. ELENA YUBERO SERRANO. e2-ducass - e2-ducass digital tool intervention: bringing the health literacy to vulnerable populations for promoting physical activity, healthy diet patterns and mental and cardiovascular health. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO. Reference: ERA4Health-2023-01
 - AWARDS: 2
 1. JUAN FRANCISCO ALCALÁ DÍAZ. EAS young investigator award. Funding Agency: EUROPEAN ATHEROSCLEROSIS SOCIETY. Reference: EAS23_01
 2. JOSE LOPEZ MIRANDA. LM 2022 I MEJOR TRABAJO INVESTIGACION CLINICA - JOSÉ LOPEZ MIRANDA - Mediterranean Diet Reduces Atherosclerosis Progression in Coronary Heart Disease. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: LM22_CO_01

GC10:

HORMONAL REGULATION OF ENERGY BALANCE, PUBERTY AND REPRODUCTION

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Tena	Sempere	Manuel	R4	0000-0002-4741-5567
Avendaño	Herrador	Mª Soledad	R3	
Castellano	Rodríguez	Juan Manuel	R3	
Gaytán	Luna	Francisco	R3	
Pineda	Reyes	Rafael	R3	
Pinilla	Jurado	Leonor	R3	
Roa	Rivas	Juan	R3	
Sánchez-Garrido	Nogueras	Miguel	R3	
Vázquez	Villar	Mª Jesús	R3	
Barroso	Romero	Alexia	R2	
García	Galiano	David	R2	
León	Téllez	Silvia	R2	
Perdices	López	Cecilia María	R2	
Ruiz	Cruz	Miguel	R2	
Sobrino	Cabello	Verónica	R2	
Torres	Jiménez	Encarnación	R2	
Velasco	Aguayo	Inmaculada	R2	
Aranda	Torrecillas	Álvaro	R1	
Calero	García	Ana María	R1	
Daza	Dueñas	Silvia	R1	
Jiménez	Puyer	Manuel	R1	
Navarro	Torrente	Marta	R1	
Rodríguez	Martín	Andrea	R1	
Rodríguez	Vázquez	Elvira	R1	
Serrano	López	Víctor Manuel	R1	
Torres	Granados	Carmen	R1	
Uceda	Rodríguez	Esperanza	R1	
Espejo	Cordero	Azahara	T	
Rodríguez	Sánchez	Ana Belén	T	
Sánchez	Tapia	Mª Jesús	T	
Trujillo	Luque	Juan Manuel	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Puberty	Gonadotropins
Fertility	Gonads
Obesity	Polycystic ovary syndrome
Metabolism	Endometriosis
Energy sensors	Hypogonadism
Kisspeptins	MicroRNAs
Neuropeptides	Epigenetics

» HIGHLIGHTED PUBLICATIONS:

- Argente J, Dunkel L, Kaiser UB, Latronico AC, Lomniczi A, Soriano-Guillen L, Tena-Sempere M. Molecular basis of normal and pathological puberty: from basic mechanisms to clinical implications. *LANCET DIABETES & ENDOCRINOLOGY*. 2023. 203-216. DOI: 10.1016/S2213-8587(22)00339-4.
IF: 44,5 Q1 D1
- Velasco I, Franssen D, Daza-Deñías S, Skrapits K, Takács S, Torres E, Rodríguez-Vazquez E, Ruiz-Cruz M, León S, Kukoricza K, Zhang FP, Ruohonen S, Luque-Cordoba D, Priego-Capote F, Gaytan F, Ruiz-Pino F, Hrabovszky E, Poutanen M, Vázquez MJ, Tena-Sempere M. Dissecting the KNDy hypothesis: KNDy neuron-derived kisspeptins are dispensable for puberty but essential for preserved female fertility and gonadotropin pulsatility. *METABOLISM*. 2023 Jul;144:155556. DOI: 10.1016/j.metabol.2023.155556.
IF:10,8 Q1 D1
- Prevot V*, Tena-Sempere* M, Pitteloud N*. New Horizons: Gonadotropin-Releasing Hormone and Cognition. *JOURNAL OF CLINICAL ENDOCRINOLOGY & METABOLISM*. 2023. 2747-2758. DOI: 10.1210/clinem/dgad319 (* equal corresponding authors)
IF: 5,8 Q1 D3
- Ruiz-Cruz M, Torres-Granados C, Tena-Sempere M, Roa J. Central and peripheral mechanisms involved in the control of GnRH neuronal function by metabolic factors. *CURRENT OPINION IN PHARMACOLOGY*. 2023. DOI: 10.1016/j.coph.2023.102382.
IF: 4 Q2 D4
- Fernandois D, Vazquez MJ, Barroso A, Paredes AH, Tena-Sempere M, Cruz G. Multi-Organ Increase in Norepinephrine Levels after Central Leptin Administration and Diet-Induced Obesity. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023. DOI: 10.3390/ijms242316909.
IF: 5,6 Q1 D3

» ACTIVITY:

- N° ONGOING PROJECTS: 8
- N° GRANTED PROJECTS IN 2023: 5
- N° PHD THESES: 2

» ADDITIONAL INFORMATION:

• NETWORKS: 5

1. CIBEROBN (CIBER on Obesity and Nutrition)
2. PAIDI BIO-310
3. Theme Area: Reproductive Endocrinology (European Society of Endocrinology)
4. Thematic Network on Translational Research in Puberty (ReTIT-PUB, coordinador)
5. EUCRE: European network for reproductive studies

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 14

1. UNDERGRADUATE STUDENT LABORATORY EXPERIENCE GRANT 2023. Funding Agency: BRITISH SOCIETY FOR NEUROENDOCRINOLOGY- JUAN MANUEL CASTELLANO RODRIGUEZ
2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIA SOLEDAD AVENDAÑO HERRADOR
3. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- CARMEN TORRES GRANADOS
4. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2022 (CON SS). Funding Agency: INSTITUTO DE SALUD CARLOS III- YOLANDA GUERRERO RUIZ
5. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- SARA VALERO DIAZ
6. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ANDREA RODRIGUEZ MARTIN
7. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MARTA NAVARRO TORRENTE
8. CO-FINANCIACIÓN PROYECTO P2Med-IMIBIC. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- SILVIA LEON TELLEZ
9. Programa Formación Profesorado Universitario – Contrato FPU – MIGUEL RUIZ CRUZ.
10. Programa Formación Profesorado Universitario – Contrato FPU – SILVIA DAZA MAÑAS.
11. Programa Formación Profesorado Universitario – Contrato FPU – ESPERANZA UCEDA RODRÍGUEZ.
12. Programa de Formación de Doctores – Programa FPI – ELVIRA RODRÍGUEZ VÁZQUEZ.
13. Programa de Formación de Doctores – Programa FPI – MANUEL JIMENEZ PUYER.
14. JUNTA DE ANDALUCÍA – Programa de Contratos Postdoctorales (Consejería de Universidad, Investigación e Innovación – VERÓNICA SOBRINO CABELLO.

• 2 AGREEMENT WITH COMPANIES

• INTERNATIONAL PROJECTS: 6

1. MANUEL TENA-SEMPERE. DISSECTING THE BRAIN BASIS OF OBESITY INDUCED PUBERTAL ALTERATIONS- A VIEW TO A KISS. Entidad Financiadora: COMISIÓN EUROPEA-ERC ADVANCED GRANT PROGRAM. Reference: HE-ERC-2022-ADG-101096793
2. VERÓNICA SOBRINO CABELLO. Spatial proteomics in KNDy neurons: a proof of concept. Funding Agency: BRITISH SOCIETY FOR NEUROENDOCRINOLOGY. Reference: BSN-PSG-2023-01
3. JUAN MANUEL CASTELLANO RODRIGUEZ. Role of fat sensing in the altered feeding behavior and metabolic phenotype of Prader-Willi Syndrome. Funding Agency: FOUNDATION FOR PRADER-WILLI RESEARCH. Reference: FPWR-2022-01
4. MANUEL TENA SEMPERE. eprObes - Preventing lifetime obesity by early risk-factor identification, prognosis and intervention. Funding Agency: COMISIÓN EUROPEA. Reference: STAYHLTH-01-05_01
5. DAVID GARCÍA GALIANO. CRISPR/Cas9 technology for conditional (cell-specific) genome editing in somatic cells. Funding Agency: BRITISH SOCIETY FOR NEUROENDOCRINOLOGY. Reference: BSE-PSG-2021-02
6. MARIA SOLEDAD AVENDAÑO HERRADOR. Characterization of the central effects of miR-137-3p/FNDC5 in obesity-induced hypogonadism. Funding Agency: SOCIETY FOR ENDOCRINOLOGY. Reference: SFE-ECG-2023-01

• AWARDS: 3

1. MANUEL TENA-SEMPERE; GEOFFREY HARRIS AWARD 2023. EUROPEAN ENDOCRINE SOCIETY
2. MANUEL TENA-SEMPERE; HONORARIS DOCTOR (DOCTOR HONORIS CAUSA). UNIVERSITY OF TURKU
3. JUAN ROA RIVAS (y resto de co-autores); PREMIO ENRIQUE AGUILAR BENITEZ DE LUGO 2023. IMIBIC

GC11:

METABOLISM AND ADIPOCYTE DIFFERENTIATION-METABOLIC SYNDROME

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Malagón	Poyato	M ^a del Mar	R4	0000-0002-2419-2727
Gordon	Bermúdez-Coronel	Ana	R3	
Guzmán	Ruiz	Rocío	R3	
Soler	Vázquez	M ^a del Carmen	R2	
Garrido	Rascón	Elena	R1	
Ruiz	García	Olga	R1	
López	Alcalá	Jaime	R1	
González		María	R1	
Lorenzo	Pino	Samuel	R1	
Salido	Martínez	Elena	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Adipose tissue	Insulin signaling/Insulin resistance
Adipocytes	Intracellular traffic
Adipogenesis	Lipid droplets
Bariatric surgery	Lipid metabolism
Cellular stress	Microscopy
Extracellular matrix	Obesity
Fibrosis	Proteomics
Cell imaging	Protein networks

» HIGHLIGHTED PUBLICATIONS:

1. López-Alcalá J, Soler-Vázquez MC, Tercero-Alcázar C, Sánchez-Ceinos J, Guzmán-Ruiz R, Malagón MM, Gordon A. Rab18 Drift in Lipid Droplet and Endoplasmic Reticulum Interactions of Adipocytes under Obesogenic Conditions. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms242417177.
IF: 5,6 Q1 D3
2. Lluch A, Latorre J, Serena-Maione A, Espadas I, Caballano-Infantes E, Moreno-Navarrete JM, Oliveras-Canellas N, Ricart W, Malagon MM, Martin-Montalvo A, Birchmeier W, Szymanski W, Graumann J, Gomez-Serrano M, Sommariva E, Fernandez-Real JM, Ortega FJ. Impaired Plakophilin-2 in obesity breaks cell cycle dynamics to breed adipocyte senescence. NATURE COMMUNICATIONS. 2023. DOI: 10.1038/s41467-023-40596-0.
IF: 16,6 Q1 D1
3. Villasanta-Gonzalez A, Mora-Ortiz M, Alcala-Diaz JF, Rivas-Garcia L, Torres-Pena JD, Lopez-Bascon A, Calderon-Santiago M, Arenas-Larriva AP, Priego-Capote F, Malagon MM, Eichelmann F, Perez-Martinez P, Delgado-Lista J, Schulze MB, Camargo A, Lopez-Miranda J. Plasma lipidic fingerprint associated with type 2 diabetes in patients with coronary heart disease: CORDIOPREV study. CARDIOVASCULAR DIABETOLOGY. 2023. DOI: 10.1186/s12933-023-01933-1.
IF: 9,3 Q1 D2
4. Pérez-Gómez JM, Montero-Hidalgo AJ, Fuentes-Fayos AC, Sarmiento-Cabral A, Guzmán-Ruiz R, Malagón MM, Herrera-Martínez AD, Gahete MD, Luque RM. Exploring the role of the inflammasomes on prostate cancer: Interplay with obesity. Rev Endocr Metab Disord. 2023;24(6):1165-1187. REVIEWS IN ENDOCRINE & METABOLIC DISORDERS. 2023. DOI: 10.1007/s11154-023-09838-w.
IF: 6,9 D1 Q1
5. Pérez-Gómez JM, Porcel-Pastrana F, De La Luz-Borrero M, Montero-Hidalgo AJ, Gómez-Gómez E, Herrera-Martínez AD, Guzmán-Ruiz R, Malagón MM, Gahete MD, Luque RM. LRP10, PGK1 and RPLP0: Best Reference Genes in Periprostatic Adipose Tissue under Obesity and Prostate Cancer Conditions. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms242015140.
IF: 5,6 Q1 D3

» CLINICAL GUIDES:

1. Gomez-Espana, MA; Gallego, J; Gonzalez-Flores, E; Maurel, J; Paez, D; Sastre, J; Aparicio, J; Benavides, M; Feliu, J; Vera, R. SEOM clinical guidelines for diagnosis and treatment of metastatic colorectal cancer (2018). CLINICAL & TRANSLATIONAL ONCOLOGY. 21. 46-54. DOI: 10.1007/s12094-018-02002-w. PMID: 30565083

» ACTIVITY:

- Nº ONGOING PROJECTS: 5
- Nº GRANTED PROJECTS IN 2023: 1
- Nº PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 3
 1. CIBER Physiopathology of Obesity and Nutrition (CIBERObn), Instituto de Salud Carlos III. [<http://www.ciberobn.es/en>]
 2. PAIDI BIO 139 (Junta de Andalucía)
 3. Research Network on Adipose Plasticity and Related Pathologies. Adipoplast. Ministry of Economy and Competitiveness, Spain.
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 5
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- SAMUEL LORENZO PINO
 2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MARIA GONZALEZ RUIZ
 3. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- ANA GORDON BERMUDEZ-CORONEL
 4. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- ROCIO GUZMAN RUIZ
 5. AYUDAS MARGARITASALAS PARA LA FORMACIÓN DE JÓVENES DOCTORES- (MINISTERIO DE UNIVERSIDADES)- Mª CARMEN SOLER VÁZQUEZ

GC13:

CALCIUM METABOLISM. VASCULAR CALCIFICATION

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Rodríguez	Portillo	Mariano	R4
Aguilera	Tejero	Escolástico	R4
Muñoz	Castañeda	Juan Rafael	R4
Canalejo	Raya	Antonio Luis	R3
López	Villalba	Ignacio	R3
Rodríguez	Ortiz	M ^a Encarnación	R3
Pendón	Ruiz de Mier	M ^a Victoria	R2
Pineda	Martos	Carmen María	R2
Raya	Bermúdez	Ana Isabel	R2
Rodelo	Haad	Cristian Roberto	R2
Pinaglia	Tobaruela	Gonzalo	R1
García	Sáez	Raquel	T
Jurado	Montoya	Daniel	T
Torralbo	Romero	Ana Isabel	T

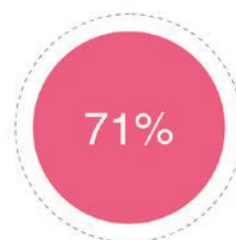
» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Calcium	Vascular calcification
Phosphorus	Renal failure
Mineral metabolism	Bone mineral disease
Parathyroid glands	VDR
PTH	CaSR
Calcification	Mesenchymal stem cells
Uremia	Wnt/ beta-catenin
HPTH2°	FGF23

» HIGHLIGHTED PUBLICATIONS:

1. Lopez-Baltanas R, Rodriguez-Ortiz ME, Diaz-Tocados JM, Martinez-Moreno JM, Membrives C, Rodelo-Haad C, de Mier MVPR, Rodriguez M, Canalejo A, Almaden Y, Munoz-Castaneda JR. Dietary Mg Supplementation Decreases Oxidative Stress, Inflammation, and Vascular Dysfunction in an Experimental Model of Metabolic Syndrome with Renal Failure. *ANTIOXIDANTS*. 2023. DOI: 10.3390/antiox12020283.
IF: 7 Q1 D1
2. Vergara N, de Mier MVPR, Rodelo-Haad C, Revilla-Gonzalez G, Membrives C, Diaz-Tocados JM, Martinez-Moreno JM, Torralbo AI, Herencia C, Rodriguez-Ortiz ME, Lopez-Baltanas R, Richards WG, Felsenfeld A, Almaden Y, Martin-Malo A, Urena J, Santamaria R, Soriano S, Rodriguez M, Munoz-Castaneda JR. The direct effect of fibroblast growth factor 23 on vascular smooth muscle cell phenotype and function. *NEPHROLOGY DIALYSIS TRANSPLANTATION*. 2023. 322-343. DOI: 10.1093/ndt/gfac220.
IF: 6,1 Q1 D1
3. Acevedo LM, Vidal A, Aguilera-Tejero E, Rivero JLL. Muscle plasticity is influenced by renal function and caloric intake through the FGF23-vitamin D axis. *AMERICAN JOURNAL OF PHYSIOLOGY-CELL PHYSIOLOGY*. 2023. C14-C28. DOI: 10.1152/ajpcell.00306.2022.
IF: 5,5 Q1 D2
4. Carmona A, Guerrero F, Munoz-Castaneda JR, Jimenez MJ, Rodriguez M, Soriano S, Martin-Malo A. Uremic Toxins Induce THP-1 Monocyte Endothelial Adhesion and Migration through Specific miRNA Expression. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 2023. DOI: 10.3390/ijms241612938.
IF: 5,6 Q1 D3
5. Vazquez-Sanchez T, Sanchez-Nino MD, Ruiz-Esteban P, Lopez V, Leon M, Caballero A, Ruiz-Escalera JF, Ortiz A, Torres A, Rodriguez M, Hernandez D. Time-Dependent Changes of Klotho and FGF-23 Levels after Kidney Transplantation: Role of Cold Ischemia Time, Renal Function and Graft Inflammation. *JOURNAL OF CLINICAL MEDICINE*. 2023. DOI: 10.3390/jcm12134486.
IF: 3,9 Q2 D4

» ACTIVITY:

- N° ONGOING PROJECTS: 7
- N° GRANTED PROJECTS IN 2023: 2
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. PAIDI CTS-179
 2. European Uremic Toxic (EUTOX)
 3. CKD-MBD GROUP (ERA-EDTA)
 4. PerMediK- Personalized medicine in chronic kidney disease: improved outcome based on Big Data
 5. Redes de Investigación Cooperativa Orientadas a Resultados en Salud (RICORS)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 12
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- FERNANDO LEIVA CEPAS
 2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- M^a ENCARNACIÓN RODRÍGUEZ ORTIZ
 3. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- JULIO MANUEL MARTÍNEZ MORENO
 4. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- RODRIGO LOPEZ BALTANAS
 5. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- TERESA OBRERO SOJO
 6. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PARA LA INTENSIFICACIÓN DE LA ACTIVIDAD INVESTIGADORA EN EL SNS 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- JUAN MARIANO RODRÍGUEZ PORTILLO
 7. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- DANIEL JURADO MONTOYA
 8. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- GONZALO PINAGLIA TOBARUELA

9. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS JUAN RODÉS 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIA VICTORIA PENDON RUIZ DE MIER
 10. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- RAQUEL MARIA GARCIA SAEZ
 11. ACCIÓN C. IMPULSO DE LA INVESTIGACIÓN TRASLACIONAL DE LAS UGC (PROGRAMA NICOLÁS MONARDES) 2019. Funding Agency: SERVICIO ANDALUZ DE SALUD- JUAN RAFAEL MUÑOZ CASTAÑEDA
 12. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- CRISTIAN ROBERTO RODELO HAAD
- 7 AGREEMENTS WITH COMPANIES

GC14:

CELLULAR THERAPY

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATE- GORY	ORCID
Herrera	Arroyo	Inmaculada Concepción	R4	0000-0003-0055-2270
Santos	González	Mónica	R2	
Jiménez	Moreno	Rosario	R2	
Martín	Palanco	Vanesa	R2	
Nogueras	Martín	Sonia	R2	
Aparicio	Pérez	Clara	R1	
Ballesteros	Ribelles	Antonio	R1	
Millán	López	Alejandro	R1	
Pavlovic	Pavlovic	Kristina	R1	
Moreno	Pantoja	Alicia	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Stem cells	Therapeutics angiogenesis
Cell therapy	Cell-gene therapy
Regenerative medicine	CAR-T cells
Myocardial regeneration	

» HIGHLIGHTED PUBLICATIONS:

1. Moniche F, Cabezas-Rodriguez JA, Valverde R, Escudero-Martinez I, Lebrato-Hernandez L, Pardo-Galiana B, Ainz L, Medina-Rodriguez M, de la Torre J, Escamilla-Gomez V, Ortega-Quintanilla J, Zapata-Arriaza E, de Alboniga-Chindurza A, Mancha F, Gamero MA, Perez S, Espinosa-Rosso R, Forero-Diaz L, Moya M, Pinero P, Calderon-Cabrera C, Nogueras S, Jimenez R, Martin V, Delgado F, Ochoa-Sepulveda JJ, Quijano B, Mata R, Santos-Gonzalez M, Carmona-Sanchez G, Herrera C, Gonzalez A, Montaner J. Safety and efficacy of intra-arterial bone marrow mononuclear cell transplantation in patients with acute ischaemic stroke in Spain (IBIS trial): a phase 2, randomised, open-label, standard-of-care controlled, multicentre trial. LANCET NEUROLOGY. 2023. 137-146. DOI: 10.1016/S1474-4422(22)00526-9.
IF: 48 Q1 D1

2. Tristan-Manzano M, Maldonado-Perez N, Justicia-Lirio P, Cortijo-Gutierrez M, Tristan-Ramos P, Blanco-Benitez C, Pavlovic K, Aguilar-Gonzalez A, Munoz P, Molina-Estevez FJ, Griesche V, Marchal JA, Heras SR, Benabdellah K, Martin F. Lentiviral vectors for inducible, transactivator-free advanced therapy medicinal products: Application to CAR-T cells. MOLECULAR THERAPY-NUCLEIC ACIDS. 2023. 322-339. DOI: 10.1016/j.omtn.2023.03.018.

IF: 8,8 Q1 D2

3. Martin-Lopez M, Rosell-Valle C, Arribas-Arribas B, Fernandez-Munoz B, Jimenez R, Nogueras S, Garcia-Delgado AB, Campos F, Santos-Gonzalez M. Bioengineered tissue and cell therapy products are efficiently cryopreserved with pathogen-inactivated human platelet lysate-based solutions. STEM CELL RESEARCH & THERAPY. 2023. DOI: 10.1186/s13287-023-03300-z.

IF: 7,5 Q1 D2

4. Guerrero-Orriach JL, Carmona-Luque MD, Raigón-Ponferrada A. Beneficial Effects of Halogenated Anesthetics in Cardiomyocytes: The Role of Mitochondria. ANTIOXIDANTS. 2023. DOI: 10.3390/antiox12101819.

IF: 7 Q1 D1

5. Cuende N, Vilarrodona A, Vuelta E, Marazuela R, Herrera C, Querol S, Sánchez-Ibáñez J, Carmona M, Gayá A, Tort J, Hernández D, Domínguez-Gil B. Addressing Risks Derived From the Commodification of Substances of Human Origin: A European Proposal Applicable Worldwide. TRANSPLANTATION. 2023. 867-877. DOI: 10.1097/TP.0000000000004527.

IF: 6,2 Q1 D1

» **ACTIVITY:**

- N° ONGOING PROJECTS: 3

» **ADDITIONAL INFORMATION:**

- NETWORKS: 4_

1. EATRIS ATMP platform (European Infrastructure for Translational Medicine)
2. RADyTTA (Andalusian Network for the design and translation of Advanced Therapies)
3. RANTECAR (Andalusian network of CAR therapy)
4. RICORS-TERAV (Redes de Investigación Cooperativa Orientadas a Resultados en Salud-Terapias Avanzadas)

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 5

1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ALEJANDRO MILLAN LOPEZ
2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ANTONIO BALLESTEROS RIBELLES
3. VINCULACIÓN DE TÉCNICOS A ECAI. RENOVACIÓN CONVOCATORIA 2015. Funding Agency: SERVICIO ANDALUZ DE SALUD- ROSARIO JIMENEZ MORENO
4. RENOVACIÓN TECNICOS VINCULADOS A ECAIS 2023. Funding Agency: SERVICIO ANDALUZ DE SALUD- ROSARIO JIMENEZ MORENO
5. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- MARÍA DOLORES CARMONA LUQUE

- 21 AGREEMENTS WITH COMPANIES

GC15:

CARDIOVASCULAR DISEASES

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Pan	Alvarez-Ossorio	Manuel	R4	0000-0003-0356-9051
Anguita	Sánchez	Manuel Pablo	R3	
Castillo	Domínguez	Juan Carlos	R3	
Delgado	Ortega	Mónica María	R3	
López	Granados	Amador	R3	
Mazuelos	Bellido	Francisco	R3	
Mesa	Rubio	M ^a Dolores	R3	
Ojeda	Pineda	Soledad	R3	
Pavlovic	Djurovic	Djordje	R3	
Romero	Moreno	Miguel Ángel	R3	
Ruiz	Ortiz	Martín	R3	
Segura	Saint-Gerons	José María	R3	
Suarez de Lezo	Herreros de Tejada	Javier	R3	
Carrasco	Ávalos	Francisco	R2	
Crespin	Crespin	Manuel	R2	
González	Manzanares	Rafael	R2	
Hidalgo	Lesmes	Francisco José	R2	
Alvarado	Ruiz	Marco Antonio	R1	
Gallo	Fernández	Ignacio	R1	
Gutiérrez	Ballesteros	Guillermo	R1	
Maestre	Fernández	Luis Carlos	R1	
Perea	Armijo	Jorge	R1	
Cebrián	Salgado	Eva	ADM	
Pozuelo	Sánchez	Isabel	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Cardiac interventions	Percutaneous aortic valves
Interventional cardiology	Coronary stent implantation
Structural heart disease	Congenital heart disease
Complex coronary lesions	

» HIGHLIGHTED PUBLICATIONS:

- Ojeda S, Gonzalez-Manzanares R, Jimenez-Quevedo P, Pinon P, Asmarats L, Amat-Santos I, Fernandez-Nofrerias E, del Valle R, Munoz-Garcia E, Ferrer-Gracia MC, de la Torre JM, Ruiz-Quevedo V, Regueiro A, Sanmiguel D, Garcia-Blas S, Elizaga J, Baz JA, Romaguera R, Cruz-Gonzalez I, Moreu J, Gheorghe LL, Salido L, Moreno R, Urbano C, Serra V, Pan MN. Coronary Obstruction After Transcatheter Aortic Valve Replacement. JACC-CARDIOVASCULAR INTERVENTIONS. 2023. 1208-1217. DOI: 10.1016/j.jcin.2023.03.024.
IF: 11,3 Q1 D1
- Hidalgo F, González-Manzanares R, Ojeda S, Pastor-Wulf D, Flores G, Gallo I, López J, Dueñas G, de Lezo JS, Romero M, Pan M. Jailed pressure wire technique for coronary bifurcation lesions: structural damage and clinical outcomes. REVISTA ESPANOLA DE CARDIOLOGIA. 2023. 531-538. DOI: 10.1016/j.rec.2022.11.004.
IF: 5,9 Q1 D3
- Ruiz-Ortiz M, Sanchez-Fernandez C, Sanchez-Fernandez JJ, Mateos-de-la-Haba L, Barreiro-Mesa L, Ogayar-Luque C, Romo-Penas E, Delgado-Ortega M, Rodriguez-Almodovar A, Esteban-Martinez F, Lopez-Aguilera J, Carrasco-Avalos F, Castillo-Dominguez JC, Anguita-Sanchez M, Pan M, Mesa-Rubio D. Long-Term Prognostic Impact of Sex in Patients with Chronic Coronary Syndrome: A 17-Year Prospective Cohort Study. JOURNAL OF WOMENS HEALTH. 2023. 63-70. DOI: 10.1089/jwh.2022.0058.
IF: 3,5 Q1 D2
- Lopez-Baizan J, Ortiz MR, Ortega MD, Almodovar AR, Martinez FE, Fernandez CS, Fernandez JJS, de la Haba LM, Mesa LB, Luque CO, Penas ER, Lopez-Aguilera J, Avalos FC, Dominguez JCC, Sanchez MA, Pan M, Rubio DM. Risk scores for predicting incident heart failure admission in patients with chronic coronary syndromes: Validation in a prospective, monocentric, long-term, cohort study. EUROPEAN JOURNAL OF CLINICAL INVESTIGATION. 2023. -. DOI: 10.1111/eci.13941.
IF: 5,5 Q1 D3
- Pan M, Lassen JF, Burzotta F, Ojeda S, Albiero R, Lefevre T, Hildick-Smith D, Johnson TW, Chieffo A, Banning AP, Ferenc M, Darremont O, Chatzizisis YS, Louvard Y, Stankovic G. The 17th expert consensus document of the European Bifurcation Club - techniques to preserve access to the side branch during stepwise provisional stenting. EUROINTERVENTION. 2023. 1-11. DOI: 10.4244/EIJ-D-23-00124.
IF: 6,2 Q1 D3

» ACTIVITY:

- N° ONGOING PROJECTS: 3
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 30
- N° PHD THESES: 2

» ADDITIONAL INFORMATION:

- NETWORKS: 3_
 1. European Bifurcation Club
 2. European Society of Cardiology
 3. Spanish Society of Cardiology
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 2
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- RAFAEL GONZÁLEZ MANZANARES
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ISABEL POZUELO SANCHEZ
- 3 AGREEMENTS WITH COMPANIES

- AWARDS: 5

1. Rafael González Manzanares; PREMIO AL MEJOR ARTICULO PUBLICADO EN REVISTA NACIONAL O INTERNACIONAL; SOCIEDAD ANDALUZA DE CARDIOLOGIA.
2. Jorge Perea Armijo; PREMIO AL MEJOR RESIDENTE SAC; SOCIEDAD ANDALUZA DE CARDIOLOGIA.
3. Jorge Perea Armijo; Miembro del equipo ganador de la LIGA DE LOS CASOS CLÍNICOS 2023 Y DE LA SUPERCOPA DE NACIONES 2023, concursos celebrados en Madrid.; SOCIEDAD ESPAÑOLA DE CARDIOLOGIA.
4. Ignacio Gallo Fernández, Marco Alvarado Ruiz, Jorge Perea Armijo, Luis Carlos Maestre Luque, Soledad Ojeda Pineda, Manuel Pan Álvarez-Ossorio; MEJOR CASO EDITADO EN MEDICINA; CORONARY AND STRUCTURAL COURSE CSC 2023.
5. Ignacio Gallo Fernández, Marco Alvarado Ruiz, Guillermo Dueñas Pérez, Jorge Perea Armijo, Consuelo Fernández-Avilés Irache, Gloria Mª Heredia Campos, Rafael González Manzanares, Francisco José Hidalgo Lesmes, Javier Suárez de Lezo, Miguel Romero Moreno, Soledad Ojeda Pineda, Manuel Pan Álvarez-Ossorio; PRIMER PREMIO AL MEJOR CASO REALIZADO CON MICROCATÉTER ELONG; IZASA MEDICAL, en el Congreso de la Sociedad Española de Cardiología.

GC16:

CELLULAR BIOLOGY IN HEMATOLOGY. HYPERCOAGULABILITY

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Sánchez	García	Joaquín	R4	0000-0001-9345-456X
Velasco	Gimena	Francisco	R4	0000-0002-1908-0894
Álvarez	Rivas	Miguel Ángel	R3	
Arqueros	Martínez	Víctor	R3	
Casaño	Sánchez	Javier	R3	
Fernández	Sánchez de Mora	M ^a del Carmen	R3	
Fernández	de la Mata	Margarita	R3	
García	Torres	Estefanía	R3	
Martín	Calvo	Carmen	R3	
Martínez	Losada	Carmen	R3	
Molina	Hurtado	José Ramón	R3	
Rodríguez	Villa	Antonia	R3	
Rojas	Contreras	Rafael	R3	
Serrano	López	Josefina	R3	
Prados	De la Torre	Esther	R1	
Yébenes	Ramírez	Manuel	R1	
Millan	Troya	M ^a Jimena	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Acute leukemia	Allogenic stem cell transplantation
Lymphoma	Hypercoagulability

» HIGHLIGHTED PUBLICATIONS:

1. Aparicio-Perez C, de la Torre EP, Sanchez-Garcia J, Martin-Calvo C, Martinez-Losada C, Casano-Sanchez J, Serrano-Lopez J, Serrano J. Evolving Risk Classifications in AML in a Real-Life Scenario: After Changes upon Changes, Is It More and More Adverse? *CANCERS*. 2023. DOI: 10.3390/cancers15051425

IF: 5,2 Q2 D3

2. Sanchez-Garcia J, Serrano J, de La Torre EP, Serrano-Lopez J, Aparicio-Perez C, Barragan E, Montesinos P. Identifying prognostic gene panels in acute myeloid leukemia. *EXPERT REVIEW OF HEMATOLOGY*. 2023. 277-287. DOI: 10.1080/17474086.2023.2193322.

IF: 2,8 Q3

3. Sargas C, Ayala R, Larrayoz MJ, Chillon MC, Carrillo-Cruz E, Bilbao-Sieyro C, de la Torre EP, Martinez-Cuadron D, Rodriguez-Veiga R, Boluda B, Gil C, Bernal T, Bergua JM, Algarra L, Tormo M, Martinez-Sanchez P, Soria E, Serrano J, Alonso-Dominguez JM, Garcia-Boyer R, Amigo ML, Herrera-Puente P, Sayas MJ, Lavilla-Rubira E, Martinez-Lopez J, Calasanz MJ, Garcia-Sanz R, Perez-Simon JA, Gomez-Casares MT, Sanchez-Garcia J, Barragan E, Montesinos P. Molecular Landscape and Validation of New Genomic Classification in 2668 Adult AML Patients: Real Life Data from the PETHEMA Registry. *CANCERS*. 2023. -. DOI: 10.3390/cancers15020438.

IF: 5,2 Q2 D3

4. García-Sancho AM, Rodríguez-Pinilla SM, Domingo-Domenech E, Climent F, Sánchez-Garcia J, Jiménez JL, Piqueras MGC, Castellvi J, González AJ, de Villambrosia SG, Codina JG, Navarro B, Rodríguez G, Borrero JJ, Fraga M, Naves A, Baeza L, Córdoba R. Peripheral T-cell lymphoma with a T follicular-helper phenotype: A different entity? Results of the Spanish Real-T study. *BRITISH JOURNAL OF HAEMATOLOGY*. 2023. 182-193. DOI: 10.1111/bjh.18941.

IF: 6,5 Q1 D3

5. Sargas C, Ayala R, Larrayoz MJ, Chillon MC, Rodriguez-Arboli E, Bilbao C, de la Torre EP, Martinez-Cuadron D, Rodriguez-Veiga R, Boluda B, Gil C, Bernal T, Bergua J, Algarra L, Tormo M, Martinez-Sanchez P, Soria E, Serrano J, Alonso-Dominguez JM, Garcia R, Amigo ML, Herrera-Puente P, Sayas MJ, Lavilla-Rubira E, Martinez-Lopez J, Calasanz MJ, Garcia-Sanz R, Perez-Simon JA, Casares MTG, Sanchez-Garcia J, Barragan E, Montesinos P. Comparison of the 2022 and 2017 European LeukemiaNet risk classifications in a real-life cohort of the PETHEMA group. *BLOOD CANCER JOURNAL*. 2023. -. DOI: 10.1038/s41408-023-00835-5

IF: 12,8 Q1 D1

» ACTIVITY:

- Nº ONGOING PROJECTS: 1
- Nº GRANTED PROJECTS IN 2023: 1
- Nº CLINICAL TRIALS: 30

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. Programa Español de Tratamientos en Hematología (PETHEMA)
 2. Grupo Español de Síndromes Mielodisplásicos (GESMD)
 3. European Society for Blood and Marrow Transplantation (EBMT)
 4. Observational Immune Tolerance Induction research programme (IbsITI)
 5. PAIDI CTS-620
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
 1. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ESTHER PRADOS DE LA TORRE
- 10 AGREEMENTS WITH COMPANIES

GC17:

PHYSIOPATHOLOGY OF ENDOCRINE VITAMIN D SYSTEM BIOTECHNOLOGY AND AGING

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Casado	Díaz	Antonio	R4	0000-0002-8520-8278
Calañas	Continente	Alfonso	R3	
Carrera	González	Mª del Pilar	R3	
Gálvez	Moreno	Mª Ángeles	R3	
Herrera	Martínez	Aura Dulcinea	R3	
Molina	Puertas	María José	R3	
Palomares	Ortega	Rafael	R3	
Alhambra	Expósito	María Rosa	R2	
Camacho	Cardeñosa	Marta	R2	
Cantón	Habas	Vanesa	R2	
Muñoz	Jiménez	Concepción	R1	
Pulido	Escribano	Victoria María	R1	
Rebollo	Román	Ángel	R1	
Torrecillas	Baena	Bárbara	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Osteoporosis	Proteomics
Vitamin D	Nutrigenetics
Carotenoids	Nutrigenomics
Fatty acids	Endothelial Progenitor Cells
Human mesenchymal stem cells (MSCh) of adult adipocytes	Exosomes
Osteoblasts	Aging
Polyphenols	Regenerative medicine
Gene expression	Wound healing

» HIGHLIGHTED PUBLICATIONS:

1. Botella-Asuncion P, Rivero-Buceta EM, Vidaurre-Agut C, Lama R, Rey-Campos M, Moreno A, Mendoza L, Mingo-Casas P, Escribano-Romero E, Gutierrez-Adan A, Saiz JC, Smerdou C, Gonzalez G, Prosper F, Argemi J, San Miguel J, Sanchez-Cordon PJ, Figueras A, Quesada-Gomez JM, Novoa B, Montoya M, Martin-Acebes MA, Pineda-Lucena A, Benlloch JM. AG5 is a potent non-steroidal anti-inflammatory and immune regulator that preserves innate immunity. BIOMEDICINE & PHARMACOTHERAPY. 2023. DOI: 10.1016/j.biopha.2023.115882.
IF: 7,5 Q1 D1
2. Pedraza-Arevalo S, Alors-Perez E, Blazquez-Encinas R, Herrera-Martinez AD, Jimenez-Vacas JM, Fuentes-Fayos AC, Reyes O, Ventura S, Sanchez-Sanchez R, Ortega-Salas R, Serrano-Blanch R, Galvez-Moreno MA, Gahete MD, Ibanez-Costa A, Luque RM, Castano JP. Spliceosomal dysregulation unveils NOVA1 as a candidate actionable therapeutic target in pancreatic neuroendocrine tumors. TRANSLATIONAL RESEARCH. 2023. 63-73. DOI: 10.1016/j.trsl.2022.07.005
IF: 7,8 Q1 D2
3. Perez-Castrillon JL, Duenas-Laita A, Gomez-Alonso C, Jodar E, del Pino-Montes J, Brandi ML, Castro FC, Quesada-Gomez JM, Lopez LG, Martinez JMO, Exposito MRA, Galarraga B, Gonzalez-Macias J, Neyro JL, Bouillon R, Hernandez-Herrero G, Fernandez-Hernando N, Chinchilla SP. Long-Term Treatment and Effect of Discontinuation of Calcifediol in Postmenopausal Women with Vitamin D Deficiency: A Randomized Trial. JOURNAL OF BONE AND MINERAL RESEARCH. 2023. 471-479. DOI: 10.1002/jbmr.4776.
IF: 6,2 Q1 D2
4. Herrera-Martinez AD, Idougourram SL, Jimenez CM, Rodriguez-Alonso R, Echague RA, Palomino SC, Sanz AS, Garcia GM, Moreno MAG, Continente AC, Puertas MJM. Standard Hypercaloric, Hyperproteic vs. Leucine-Enriched Oral Supplements in Patients with Cancer-Induced Sarcopenia, a Randomized Clinical Trial. NUTRIENTS. 2023. DOI: 10.3390/nu15122726.
IF: 5,9 Q1 D2
5. Rebollo-Pérez MI, Ojeda LF, García-Luna PP, Rocamora JAI, Oliveira G, Remigio JRL, Irigoyen CA, Continente AC, Martín CC, Soto MLF, Almeida JMG, López ML, Morell CL, Pérez LML, Martínez TMD, Pereira-Cunill JL, Vilchez-López FJ, Rabat-Restrepo JM. Standards for the Use of Enteral Nutrition in Patients with Diabetes or Stress Hyperglycaemia: Expert Consensus. NUTRIENTS. 2023. DOI: 10.3390/nu15234976.
IF: 5,9 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 7
- N° GRANTED PROJECTS IN 2023: 3
- N° CLINICAL TRIALS: 4

» ADDITIONAL INFORMATION:

- NETWORKS: 3
 1. Centro de Investigación Biomédica en Red Fragilidad y Envejecimiento Saludable (CIBERFES)
 2. PAIDI CTS-413 "Sistema Endocrino de la Vitamina D. Biotecnología y Envejecimiento"
 3. PAIDI CTS-651
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 4
 1. ACCIÓN C. IMPULSO DE LA INVESTIGACIÓN TRASLACIONAL DE LAS UC (PROGRAMA NICOLÁS MONARDES) 2020. Funding Agency: SERVICIO ANDALUZ DE SALUD- ANTONIO CASADO DÍAZ
 2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- VICTORIA MARIA PULIDO ESCRIBANO
 3. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS JUAN RODÉS 2019. Funding Agency: INSTITUTO DE SALUD CARLOS III- AURA DULCINEA HERRERA MARTÍNEZ
 4. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LOS AGENTES DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- MARTA CAMACHO CARDEÑOSA
- 15 AGREEMENTS WITH COMPANIES
- AWARDS: 1
 1. AURA DULCINEA HERRERA MARTÍNEZ. PREMIO FUNDACIÓN SEEN EN INVESTIGACIÓN PARA JÓVENES ENDOCRINÓLOGOS. Funding Agency: FUNDACIÓN DE LA SOCIEDAD ESPAÑOLA DE ENDOCRINOLOGÍA Y NUTRICIÓN. Reference: FSEEN-2020-001

GC18:

TRANSLATIONAL RESEARCH IN SURGERY OF SOLID ORGAN TRANSPLANTATION

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Briceño	Delgado	Francisco Javier	R4	0000-0001-7027-7898
Ciria	Bru	Ruben	R3	
López	Cillero	Pedro	R3	
Durán	Martínez	Manuel	R2	
Calleja	Lozano	Rafael	R2	
Jiménez	Gómez	Jesús	R2	
Leva	Vallejo	Manuel	R2	
Navarro	Rodríguez	Elena	R2	
Padial	Aguado	Ana Cristina	R2	
Pleguezuelo	Navarro	María	R2	
Pozo	Laderas	Juan Carlos	R2	
Regueiro	López	Juan Carlos	R2	
Gómez	Dueñas	Gonzalo	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Liver transplant	Pediatric transplantation
Pancreas transplant	Split transplantation
Kidney transplant	Expanded criteria donors
Lung transplant	Donor-Recipient Matching
Heart transplant	Perfusion Machines
Living donor transplantation	Artificial Intelligence in organ transplantation

» HIGHLIGHTED PUBLICATIONS:

1. Arjona-Sánchez A, Espinosa-Redondo E, Gutiérrez-Calvo A, Segura-Sampedro JJ, Pérez-Viejo E, Concepción-Martín V, Sánchez-García S, García-Fadrique A, Prieto-Nieto I, Barrios-Sanchez P, Torres-Melero J, Faraco MR, Prada-Villaverde A, Carrasco-Campos J, Artilles-Armas M, Villarejo-Campos P, Ortega-Pérez G, Boldo-Roda E, Sánchez-Hidalgo JM, Casado-Adam A, Rodríguez-Ortiz L, Aranda E, Cano-Osuna MT, Díaz-López C, Romero-Ruiz A, Briceño-Delgado J, Rufián-Peña S. Efficacy and Safety of Intraoperative Hyperthermic Intraperitoneal Chemotherapy for Locally Advanced Colon Cancer A Phase 3 Randomized Clinical Trial. JAMA SURGERY. 2023. 683-691. DOI: 10.1001/jamasurg.2023.0662.

IF: 16,9 Q1 D1

2. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. EXPERIMENTAL AND MOLECULAR MEDICINE. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7.

IF: 12,8 Q1 D1

3. Gonzalez J, de Batlle J, Benitez ID, Torres G, Santistevé S, Targa ADS, Gort-Paniello C, Moncusi-Moix A, Aguila M, Seck F, Ceccato A, Ferrer R, Motos A, Riera J, Fernandez L, Menendez R, Lorente JA, Penuelas O, Garcia-Gasulla D, Penasco Y, Ricart P, Palomares EA, Aguilera L, Rodriguez A, Varela MVB, Betere B, Pozo-Laderas JC, Sole-Violan J, Salvador-Adell I, Novo MA, Barberan J, Villar RA, Garnacho-Montero J, Gomez JM, Ortiz AB, Lomas LT, Ubeda A, Catalan-Gonzalez M, Sanchez-Miralles A, Varela IM, Garcia RNJ, Franco N, Gumucio-Sanguino VD, Bustamante-Munguira E, Valdivia LJ, Caballero J, Gallego E, Rodriguez C, Castellanos-Ortega A, Trenado J, Marin-Corral J, Albaiceta GM, de la Torre MD, Loza-Vazquez A, Vidal P, Anon JM, Perez CC, Sagredo V, Carbonell N, Socias L, Barbera C, Estella A, Diaz E, de Gonzalo-Calvo D, Torres A, Barbe F. Key Factors Associated With Pulmonary Sequelae in the Follow-Up of Critically Ill COVID-19 Patients. ARCHIVOS DE BRONCONEUMOLOGIA. 2023. 205-215. DOI: 10.1016/j.arbres.2022.12.017.

IF: 8 Q1 D2

» ACTIVITY:

- Nº ONGOING PROJECTS: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 2

1. CIBER on Liver and Digestive Diseases (CIBERehd).
2. PAIDI CTS-273

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1

1. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- RAFAEL CALLEJA LOZANO

- 2 AGREEMENTS WITH COMPANIES

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» TEAM

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID	
Medina	Carnicer	Rafael	R4	0000-0003-4481-0614
Carmona	Poyato	Ángel	R3	
Fernández	García	Nicolás Luis	R3	
Madrid	Cuevas	Francisco José	R3	
Marín	Jiménez	Manuel Jesús	R3	
Muñoz	Salinas	Rafael	R3	
Yeguas	Bolivar	Enrique	R3	
Zafra	Palma	Jorge	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS

PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Computer Vision	Augmented Reality
Image Segmentation	Human recognition
Pattern Recognition	Human pose estimation
3D Reconstruction	

» HIGHLIGHTED PUBLICATIONS:

1. Fernandez-Garcia NL, Martinez LD, Carmona-Poyato A, Madrid-Cuevas FJ, Medina-Carnicer R. Assessing polygonal approximations: A new measurement and a comparative study. PATTERN RECOGNITION. 2023. DOI: 10.1016/j.patcog.2023.109396.
IF: 8 Q1 D2
2. García-Ruiz P, Romero-Ramirez FJ, Muñoz-Salinas R, Marín-Jiménez MJ, Medina-Carnicer R. Fiducial Objects: Custom Design and Evaluation. SENSORS. 2023. DOI: 10.3390/s23249649.
IF: 3,9 Q2 D4
3. Fuentes-Alventosa A, Gómez-Luna J, Medina-Carnicer R. GVLE: a highly optimized GPU-based implementation of variable-length encoding. JOURNAL OF SUPERCOMPUTING. 2023. 8447-8474. DOI: 10.1007/s11227-022-04994-3.
IF: 3,2 Q2 D4

4. Romero-Ramirez FJ, Munoz-Salinas R, Marfn-Jimenez MJ, Cazorla M, Medina-Carnicer R. sSLAM: Speeded-Up Visual SLAM Mixing Artificial Markers and Temporary Keypoints. SENSORS. 2023. DOI: 10.3390/s23042210.

IF: 3,9 Q2 D4

5. Aguilar-Ortega R, Berral-Soler R, Jiménez-Velasco I, Romero-Ramírez FJ, García-Marín M, Zafra-Palma J, Muñoz-Salinas R, Medina-Carnicer R, Marín-Jiménez MJ. UCO Physical Rehabilitation: New Dataset and Study of Human Pose Estimation Methods on Physical Rehabilitation Exercises. SENSORS. 2023. DOI: 10.3390/s23218862.

IF: 3,9 Q2 D4

» **ACTIVITY:**

- N° ONGOING PROJECTS: 4

» **ADDITIONAL INFORMATION:**

- NETWORKS: 1

1. PAIDI TIC-161

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3

1. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- RAFAEL MEDINA CARNICER

2. Contrato FPI Proyecto Nacional ROMERO RAMIREZ FRANCISCO.

3. Contrato Doctorado Industrial UCO-Seabery JURADO RODRIGUEZ DAVID

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Ruiz	Rubio	Manuel	R4	0000-0001-8733-4377
Moriana	Elvira	Juan Antonio	R4	0000-0003-0577-821X
Alos	Cívico	Francisco José	R3	
Antolí	Cabrera	Adoración	R3	
Burgos	Marín	Rafael	R3	
Cuadrado	Hidalgo	Fátima	R3	
Gálvez	Lara	Mario	R3	
Gámez	Granados	Juan Carlos	R3	
Gámez	Martínez	Antonio Matías	R3	
García	Sancho	Esperanza	R3	
García	Torres	Francisco Mariano	R3	
Martín	Borreguero	Pilar	R3	
Moreno	Osella	Eliana	R3	
Pérez	Dueñas	Carolina	R3	
Sánchez	Raya	Mª Araceli	R3	
Sánchez	Gutiérrez	Teresa	R3	
Soto	Hidalgo	Jose Manuel	R3	
Corpas	López	Jorge	R2	
Jurado	González	Francisco Javier	R2	
Maldonado	Hervés	Miguel Ángel	R2	
Rodríguez	Ramos	Ángel	R2	
Vacas	Ruiz	Julia	R2	
Velasco	Rodríguez	Judith	R2	
Aguilera	Martín	Ángel	R1	
Espejo	Durán	Carmen	R1	
González	Mantilla	Ramón	R1	
Gordo	Sarriés	Sarai	R1	
Sanmartín	Litrán	Francisco Javier	R1	
Tejero	Perea	Adrián	R1	
Venceslá	Martínez	José Fernando	R1	
Acedo	Galán	Elena María	T	
Camacho	Alcaide	Araceli	T	
Carranza	Franco	Beatriz	T	
Ruiz	Fernández	Ana Cristina	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Behaviour genetics	Depression
Autism spectrum disorder	Anxiety
Oncology	Evidence-based Psychology
Clinical Psychology	Early attention
Psycho-oncology	Developmental disorders
Psychological treatment	Neuropsychological alterations
Rare diseases	Verbal behaviour
Development disability	Cognitive behaviour
Primary care	

» HIGHLIGHTED PUBLICATIONS:

1. Velasco J, Sanmartin FJ, Galvez-Lara M, Cuadrado F, Moriana JA. Psychological Effects of Professional Exposure to Trauma and Human Suffering: Systematic Review and Meta-Analysis. TRAUMA VIOLENCE & ABUSE. 2023;24(3);1656-1676. DOI: 10.1177/15248380221074314.
IF: 6,4 Q1 D1
2. Cuadrado F, Lackova L, Mikulajová M, Antolí A, Boleková V, Gellen M, Vacas J. Framing influence of emotions and attitudes towards Alzheimer's disease on Slovak and Spanish laypersons: a cross-cultural approach. HUMANITIES & SOCIAL SCIENCES COMMUNICATIONS. 2023;10(650). DOI: 10.1057/s41599-023-02198-5.
IF: 3,5 Q1 D2
3. Garcia-Torres F, Garcia-Carmona M, Rubio S, Luque B, Gomez-Solis A, Aranda E. Feasibility study of a mobile application (ACT-ON) to complement acceptance and commitment therapy (ACT) intervention in cancer patients. INTERNATIONAL JOURNAL OF MEDICAL INFORMATICS. 2023;77;105131. DOI: 10.1016/j.ijmedinf.2023.105131.
IF: 4,9 Q2 D4
4. Aguilera-Martin A, Galvez-Lara M, Munoz-Navarro R, Gonzalez-Blanch C, Ruiz-Rodriguez P, Cano-Videl A, Moriana JA. Variables Associated with Emotional Symptom Severity in Primary Care Patients: The Usefulness of a Logistic Regression Equation to Help Clinical Assessment and Treatment Decisions. SPANISH JOURNAL OF PSYCHOLOGY. 2023;26;e24. DOI: sbad013/SJP.2023.23.
IF: 2,9 Q1 D3
5. Sanmartin FJ, Velasco J, Gálvez-Lara M, Cuadrado F, Moriana JA. Risk Factors Associated with Gambling on Loot Boxes. PSICOTHEMA. 2023;35(4);397-405. DOI: 10.7334/psicothema2022.484.
IF: 3,2 Q1 D2

» **ACTIVITY:**

- N° ONGOING PROJECTS: 4

» **ADDITIONAL INFORMATION:**

- NETWORKS: 2_

1. Excellence research and interdisciplinary Network for the diagnosis and promotion of youth issues, emotions and psychological well-being (MINEICO PSI2015-70943-REDT).
2. HUM-924 PSICOLOGÍA BASADA EN LA EVIDENCIA. EVALUACIÓN Y DISEÑO DE INTERVENCIONES PSICOLÓGICAS EFICACES

- AWARDS: 1

1. JORGE CORPAS LÓPEZ; Premio Tesis Doctoral; Fundación Centro de Estudios Andaluces

GC21:

METABOLOMICS AND IDENTIFICATION OF BIOACTIVE COMPOUNDS

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Priego	Capote	Feliciano	R4	0000-0003-0697-719X
Calderón	Santiago	Mónica	R3	
Criado	Navarro	Inmaculada	R2	
Ledesma	Escobar	Carlos Augusto	R2	
Castillo	Luna	Ana	R1	
Tomé	Rodríguez	Sonia	R1	
Moral	Martos	Daniel	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Metabolomics	Sample preparation
Mass spectrometry	Clinical analysis
Targeted analysis	Agrofood
Untargeted analysis	Bioactive compounds

» HIGHLIGHTED PUBLICATIONS:

1. Tome-Rodriguez S, Barba-Palomeque F, Ledesma-Escobar CA, Miho H, Diez CM, Priego-Capote F. Influence of genetic and interannual factors on the fatty acids profile of virgin olive oil. FOOD CHEMISTRY. 2023. DOI: 10.1016/j.foodchem.2023.136175.
IF: 8,8 Q1 D1
2. Garcia-Nicolas M, Ledesma-Escobar CA, Priego-Capote F. Spatial Distribution and Antioxidant Activity of Extracts from Citrus Fruits. ANTIOXIDANTS. 2023. DOI: 10.3390/antiox12040781.
IF: 7 Q1 D1
3. Ledesma-Escobar CA, Priego-Capote F, Calderon-Santiago M. MetaboMSDIA: A tool for implementing data-independent acquisition in metabolomic-based mass spectrometry analysis. ANALYTICA CHIMICA ACTA. 2023. DOI: 10.1016/j.aca.2023.341308.
IF: 6,2 Q1 D1

4. Alvarez-Delgado C, Ruedas-Torres I, Sanchez-Carvajal JM, Priego-Capote F, Castillo-Peinado L, Galan-Relano A, Moreno PJ, Diaz-Bueno E, Lozano-Buenestado B, Rodriguez-Gomez IM, Carrasco L, Pallares FJ, Gomez-Laguna J. Impact of supplementation with dihydroxylated vitamin D3 on performance parameters and gut health in weaned Iberian piglets under indoor/outdoor conditions. PORCINE HEALTH MANAGEMENT. 2023. DOI: 10.1186/s40813-023-00307-z.

IF: 3,4 Q1 D1

5. Villasanta-Gonzalez A, Mora-Ortiz M, Alcala-Diaz JF, Rivas-Garcia L, Torres-Pena JD, Lopez-Bascon A, Calderon-Santiago M, Arenas-Larriva AP, Priego-Capote F, Malagon MM, Eichelmann F, Perez-Martinez P, Delgado-Lista J, Schulze MB, Camargo A, Lopez-Miranda J. Plasma lipidic fingerprint associated with type 2 diabetes in patients with coronary heart disease: CORDIOPREV study. CARDIOVASCULAR DIABETOLOGY. 2023. DOI: 10.1186/s12933-023-01933-1.

IF: 9,3 Q1 D2

» **ACTIVITY:**

- N° ONGOING PROJECTS: 1

» **ADDITIONAL INFORMATION:**

• NETWORKS: 3

1. CIBERFES - Cooperative Research Thematic Network on Aging and Frailty [link: <http://www.ciberfes.es/en>] (Collaborator)
2. Dr Priego Capote is the coordinator of the FQM-227 - Analytical Chemistry Research Group, of the Andalusian Plan for Research, Development and Innovation (PAIDI).
3. Metabored – Red Española de Metabolómica (Collaborator)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3

1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO-DANIEL MORAL MARTOS
2. BECA FPU (MINISTERIO DE UNIVERSIDADES) – ANA CASTILLO LUNA.
3. BECA FPI (MINISTERIO DE CIENCIA E INNOVACIÓN) – SONIA TOMÉ RODRÍGUEZ.

• 2 AGREEMENTS WITH COMPANIES

GC22:

EPIGENETICS

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Roldán	Arjona	Mª Teresa	R4	0000-0003-2842-3956
Muñoz	Serrano	Encarnación	R3	
Rodríguez	Ariza	Rafael	R3	
Rojas	Moreno	Adriana Patricia	R3	
Córdoba	Cañero	Mª Dolores	R2	
Martínez	Macías	Mª Isabel	R2	
Morales	Ruiz	Mª Teresa	R2	
Sánchez	León	Susana	R2	
Ayala	Roldán	Carmen Mª	R1	
Grávalos	Cano	Inés	R1	
Jordano	Raya	Marina	R1	
Muñoz	Fernández	Ariadna	R1	
Rojas	Vega	Francisco	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Epigenetics	DNA demethylation
DNA repair	DNA glycosylases
Cancer	Base excision repair
DNA methylation	

» HIGHLIGHTED PUBLICATIONS:

1. Tejedor JR, Penarroya A, Gancedo-Verdejo J, Santamarina-Ojeda P, Perez RF, Lopez-Tamargo S, Diez-Borge A, Alba-Linares JJ, Gonzalez-del-Rey N, Urduñigo RG, Mangas C, Roberti A, Lopez V, Morales-Ruiz T, Ariza RR, Roldan-Arjona T, Meijon M, Valledor L, Canal MJ, Fernandez-Martinez D, Fernandez-Hevia M, Jimenez-Fonseca P, Garcia-Florez LJ, Fernandez AF, Fraga MF. CRISPR/dCAS9-mediated DNA demethylation screen identifies functional epigenetic determinants of colorectal cancer. CLINICAL EPIGENETICS. 2023. -. DOI: 10.1186/s13148-023-01546-1.
IF: 5,7 Q1 D2

2. Mena-Osuna R, Mantrana A, Guil-Luna S, Sanchez-Montero MT, Navarrete-Sirvent C, Morales-Ruiz T, Rivas-Crespo A, Toledano-Fonseca M, Garcia-Ortiz MV, Garcia-Jurado G, Gomez-Espana MA, Gonzalez-Fernandez R, Villar C, Medina-Fernandez FJ, Villalba JM, Aranda E, Rodriguez-Ariza A. Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer. JOURNAL OF PATHOLOGY. 2023. 261-275. DOI: 10.1002/path.6080.
IF: 7,3 Q1 D1

» **ACTIVITY:**

- N° ONGOING PROJECTS: 3

» **ADDITIONAL INFORMATION:**

• NETWORKS: 1_

1. COST Action CA18111-Genome editing in plants - a technology with transformative potential (PlantEd)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 8

1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- FRANCISCO ROJAS VEGA
2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ARIADNA MUÑOZ FERNANDEZ
3. MARIE SKLODOWSKA-CURIE: CO-FUNDING OF REGIONAL, NATIONAL AND INTERNATIONAL PROGRAMMES 2018. Funding Agency: COMISIÓN EUROPEA- Mª ISABEL MARTÍNEZ MACÍAS
4. Programa Juan de la Cierva – SUSANA SÁNCHEZ LEÓN
5. Ayuda del Programa de Formación de Profesorado Universitario del Ministerio de Universidades. Referencia: FPU20/01146 – MARINA JORDANO RAYA.
6. Ayuda del Programa de Personal Investigador en Formación de la Junta de Andalucía. Referencia: PREDOC_00426 - INÉS GRÁVALOS CANO.
7. PROGRAMA BEATRIZ GALINDO para la atracción de talento investigador– ADRIANA PATRICIA ROJAS MORENO – Funding Agency: MINISTERIO DE UNIVERSIDADES.
8. EMBO Scientific Exchange Grant (Short-term Fellowship). Reference number: 10310 – MARINA JORDANO RAYA. Funding agency: EUROPEAN MOLECULAR BIOLOGY ORGANIZATION.

• 2 AGREEMENTS WITH COMPANIES

• AWARDS: 1

1. Inés Grávalos Cano; PREMIO ALA MEJOR COMUNICACIÓN PÓSTER titulada “Sensitivity to temozolomide in glioblastoma: role of epigenetically regulated DNA repair genes” en el 51ST EUROPEAN ENVIRONMENTAL MUTAGENESIS AND GENOMICS SOCIETY (EEMGS) & 27TH SPANISH ENVIRONMENTAL MUTAGENESIS AND GENOMICS SOCIETY (SEMA) MEETING. Málaga, España, Mayo 2023

GC23:

METABOLISM IN CHILDHOOD

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Gil	Campos	M^a Mercedes	R4	0000-0002-9007-0242
Antón	Gamero	Montserrat	R3	
de la Torre	Aguilar	M ^a José	R3	
Flores	Rojas	Katherine	R3	
Ibarra	de la Rosa	Ignacio	R3	
Llorente	Cantarero	Francisco Jesús	R3	
López	Laso	Eduardo	R3	
Mateos	González	M ^a Elena	R3	
Pérez	Navero	Juan Luis	R3	
Aguilar	Gómez-Cárdenas	Francisco Javier	R2	
Fernández	Ramos	Joaquín Alejandro	R2	
Gómez-Chaparro	Moreno	José Luis	R2	
Jurado	Castro	José Manuel	R2	
Ordoñez	Díaz	M ^a Dolores	R2	
Pastor	Villaescusa	M ^a Belén	R2	
Rodríguez	Benítez	M ^a Victoria	R2	
Comino	Monroy	M ^a José	R1	
Palomino	Hernández	Laura	R1	
Castro	Collado	Cristina	ADM	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Autism	Oncology
Children	Physical activity
Childhood	Pre-probiotics
Metabolic syndrome	Renal disease
Metabolic diseases	Nutrition
Obesity	

» HIGHLIGHTED PUBLICATIONS:

1. Schlüter A, Vélez-Santamaría V, Verdura E, Rodríguez-Palmero A, Ruiz M, Fourcade S, Planas-Serra L, Launay N, Guilera C, Martínez JJ, Homedes-Pedret C, Albertí-Aguiló MA, Zulaika M, Marti I, Troncoso M, Tomás-Vila M, Bullich G, García-Pérez MA, Sobrido-Gómez MJ, López-Laso E, Fons C, Del Toro M, Macaya A, Beltran S, Gutiérrez-Solana LG, Pérez-Jurado LA, Aguilera-Albesa S, de Munain AL, Casasnovas C, Pujol A, HSP Ataxia Workgrp. ClinPrior: an algorithm for diagnosis and novel gene discovery by network-based prioritization. GENOME MEDICINE. 2023. DOI: 10.1186/s13073-023-01214-2. **IF: 12,3 Q1 D1**
2. Ruiz-Ojeda FJ, Anguita-Ruiz A, Rico MC, Leis R, Bueno G, Moreno LA, Gil-Campos M, Gil A, Aguilera CM. Serum levels of the novel adipokine isthmin-1 are associated with obesity in pubertal boys. WORLD JOURNAL OF PEDIATRICS. 2023. 864-872. DOI: 10.1007/s12519-022-00665-8. **IF: 8,7 Q1 D1**
3. Bustos-Aibar M, Aguilera CM, Alcaldá-Fdez J, Ruiz-Ojeda FJ, Plaza-Díaz J, Plaza-Florido A, Tofe I, Gil-Campos M, Gacto MJ, Anguita-Ruiz A. Shared gene expression signatures between visceral adipose and skeletal muscle tissues are associated with cardiometabolic traits in children with obesity. COMPUTERS IN BIOLOGY AND MEDICINE. 2023. -. DOI: 10.1016/j.compbimed.2023.107085. **IF: 7,7 Q1 D1**
4. Storch-De-Gracia P, Fernandez JL, Velasco R, Saez I, Rodrigo R, Yanez S, Castellarnau E, Gil E, del Río P, Garrido E, Castano A, Perez A, Cabrerizo M, Hernandez M, Perez JJ, de la Torre MJ, Nadal G, Martinez J, Sanchez-Tatay V. Invasive bacterial infection in children with fever and petechial rash in the emergency department: a national prospective observational study. ARCHIVES OF DISEASE IN CHILDHOOD. 2023. 445-450. DOI: 10.1136/archdischild-2022-325281. **IF: 5,2 Q1 D1**
5. Garciduenas-Fimbres TE, Paz-Graniel I, Gomez-Martinez C, Jurado-Castro JM, Leis R, Escribano J, Moreno LA, Navas-Carretero S, Portoles O, Perez-Vega KA, Gil-Campos M, Lopez-Rubio A, Rey-Renones C, De Miguel-Etayo P, Martinez JA, Flores-Rojas K, Vazquez-Cobela R, Luque V, Miguel-Berges ML, Pastor-Villaescusa B, Llorente-Cantarero FJ, Salas-Salvado J, Babio N. Associations Between Eating Speed, Diet Quality, Adiposity, and Cardiometabolic Risk Factors. JOURNAL OF PEDIATRICS. 2023. 31-39.e1. DOI: 10.1016/j.jpeds.2022.08.024. **IF: 5,1 Q1 D1**

» ACTIVITY:

- Nº ONGOING PROJECTS: 3
- Nº GRANTED PROJECTS IN 2023: 1
- Nº CLINICAL TRIALS: 4
- Nº PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS:4
 1. CIBER on Obesity and Nutrition (CIBEROBN)
 2. CIBER on Rare Diseases (CIBERER)
 3. PAIDI CTS-639
 4. Spanish Pediatric Clinical Trials Network RECLIP
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 4
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIA BELEN PASTOR VILLAESCUSA
 2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- CRISTINA CASTRO COLLADO
 3. INTENSIFICACIÓN (SAS) – MARÍA MERCEDES GIL CAMPOS
 4. SELLO DE EXCELENCIA ISCIII-HEALTH DE LA ACCIÓN ESTRATÉGICA EN SALUD 2021-2023, UCO-IMIBIC. IHMC22/00024 - MARÍA BELÉN PASTOR VILLAESCUSA
- 2 AGREEMENTS WITH COMPANIES
- INTERNATIONAL PROJECTS: 1
 1. MARIA MERCEDES GIL CAMPOS. eprObes - Preventing lifetime obesity by early risk-factor identification, prognosis and intervention. Funding Agency: COMISIÓN EUROPEA. Reference: STAYHLTH-01-05_02

GC24:

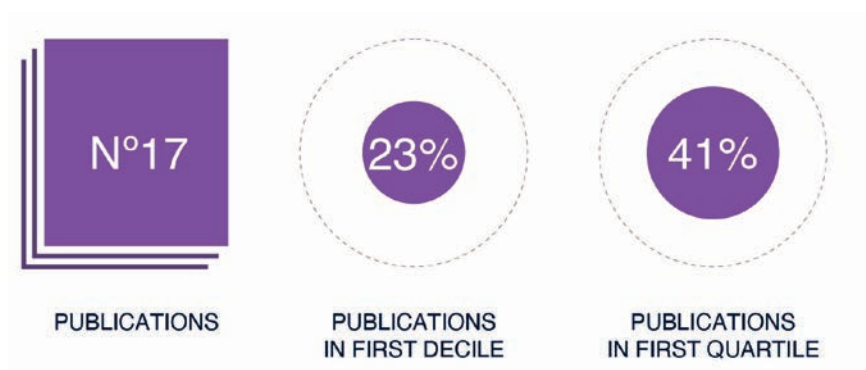
CLINICAL AND MOLECULAR MICROBIOLOGY

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Martínez	Martínez	Luis	R4	0000-0002-6091-4045
Causse	del Río	Manuel	R3	
Gracia	Ahufinger	Irene	R3	
Pérez	Jiménez	Ana Belén	R3	
Ruiz	Martínez	Pilar	R3	
Tejero	García	Rocío	R3	
Galán	Ladero	M ^a Ángeles	R2	
Rivera	Sánchez	Sandra Patricia	R2	
Vaquero	Álvarez	Esther	R2	
Ayala	Morillo	Luis	R1	
Freytas	Palomo	Carlos Aaaron	R1	
Gámez	Beltrán	Pedro	R1	
Pomares	De la Peña	Alberto	R1	
Elias	López	Cristina	R1	
Ferrez	López	Jesús	R1	
Guzmán	Puche	Julia	R1	
Marfil	Pérez	Eduardo	R1	
Morales	Domínguez	Clara de Asis	R1	
Muñoz	Muñoz de la Rosa	Montserrat	R1	
Pedraza	Merino	Rosa	R1	
Riazzo	Damas	Cristina	R1	
Arjona	Torres	Cristina	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Antimicrobial-resistance	Cephalosporins
Beta-lactamases	Heteroresistance
Aminoglycoside-modifying-enzymes	Antibiogram
Methyl-transferases	Susceptibility-testing
Qnr	Molecular-typing
Quinolones	Enterobacteria
Polymyxins	Pseudomonas
Carbapenems	Acinetobacter

» HIGHLIGHTED PUBLICATIONS:

1. Sastre-Femenia MA, Fernández-Muñoz A, Gomis-Font MA, Taltavull B, López-Causapé C, Arca-Suárez J, Martínez-Martínez L, Cantón R, Larrosa N, Oteo-Iglesias J, Zamorano L, Oliver A. *Pseudomonas aeruginosa* antibiotic susceptibility profiles, genomic epidemiology and resistance mechanisms: a nation-wide five-year time lapse analysis. *LANCET REGIONAL HEALTH-EUROPE*. 2023. DOI: 10.1016/j.lanepe.2023.100736.

IF: 20,9 Q1 D1

2. Gámbaro F, Pérez AB, Prot M, Agüera E, Baidaliuk A, Sanchez-Seco MP, Martinez-Martínez L, Vázquez A, Fernandez-García MD, Simon-Loriere E. Untargeted metagenomic sequencing identifies Toscana virus in patients with idiopathic meningitis, southern Spain, 2015 to 2019. *EUROSURVEILLANCE*. 2023. DOI: 10.2807/1560-7917.ES.2023.28.45.2200913.

IF: 19 Q1 D1

3. Martinez-Lirola M, Herranz M, Serrano SB, Rodriguez-Grande C, Inarra ED, Garrido-Cardenas JA, Ruiz AMC, Bermudez MP, del Rio MC, Galan VG, Armenteros JL, Martinez JMV, Vallejo-Godoy S, Garcia ABE, Fernandez MTC, Munoz P, Lago LP, de Viedma DG. A One Health approach revealed the long-term role of *Mycobacterium caprae* as the hidden cause of human tuberculosis in a region of Spain, 2003 to 2022. *EUROSURVEILLANCE*. 2023. DOI: 10.2807/1560-7917.ES.2023.28.12.2200852.

IF: 19 Q1 D1

4. Perez-Nadales E, Fernandez-Ruiz M, Natera AM, Gutierrez-Gutierrez B, Mularoni A, Russelli G, Pierrotti LC, Freire MP, Falcone M, Tiseo G, Tumbarello M, Raffaelli F, Abdala E, Bodro M, Gervasi E, Farinas MC, Seminari EM, Caston JJ, Marin-Sanz JA, Galvez-Soto V, Rana MM, Loeches B, Martin-Davila P, Pascual A, Rodriguez-Bano J, Aguado JM, Martinez-Martinez L, Torre-Cisneros J, REIPI INCREMENT-SOT Study Grp. Efficacy of ceftazidime-avibactam in solid organ transplant recipients with bloodstream infections caused by carbapenemase-producing *Klebsiella pneumoniae*. *AMERICAN JOURNAL OF TRANSPLANTATION*. 2023. 1022-1034. DOI: 10.1016/j.ajt.2023.03.011.

IF: 8,8 Q1 D1

5. Gato E, Guijarro-Sánchez P, Alonso-García I, Pedraza-Merino R, Conde A, Lence E, Rumbo-Feal S, Peña-Escolano A, Lasarte-Monterrubio C, Blanco-Martín T, Fernández-González A, Fernández-López MD, Maceiras R, Martínez-Gutián M, Vázquez-Ucha JC, Martínez-Martínez L, González-Bello C, Arca-Suárez J, Beceiro A, Bou G. In vitro development of imipenem/relebactam resistance in KPC-producing *Klebsiella pneumoniae* involves multiple mutations including OmpK36 disruption and KPC modification. *INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS*. 2023. DOI: 10.1016/j.ijantimicag.2023.106935.

IF: 10,8 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 2

» ADDITIONAL INFORMATION:

- NETWORKS: 5

1. Spanish Network for Research on Infectious Diseases (REIPI)
2. Andalusian Network For Clinical Research In Infectious Diseases
3. Centro de Investigación Biomédica en Red de Enfermedades Infecciosas (CIBERINFEC)
4. Alliance for the Exploration of Pipelines for Inhibitors of Carbapenemases (EPIC Alliance); JPIAMR Network Plus 2020.
5. Improving surveillance of antibiotic-resistant *Pseudomonas aeruginosa* in Europe (ISARPAE). JPIAMR Network 2022.

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3

1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- CARLOS AARON FREYTAS PALOMO
2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- CRISTINA ARJONA TORRES
3. MARÍA CÓRDOBA FERNÁNDEZ; Fondo de Investigación Sanitaria (FIS). Proyecto PI20-01749 2

- 4 AGREEMENTS WITH COMPANIES

- INTERNATIONAL PROJECTS: 1

1. LUIS MARTÍNEZ MARTÍNEZ. Study of the mechanisms of resistance to Ceftazidime-Avibactam in isolates of *Klebsiella pneumoniae* producing KPC-3 cultured from patients under Ceftazidime-Avibactam therapy. Funding Agency: PFIZER, S.A. Reference: INSPIRE-2018-01

GC25:

KNOWLEDGE DISCOVERY AND INTELLIGENT SYSTEMS IN BIOMEDICINE

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Ventura	Soto	Sebastian	R4
García	Martínez	Carlos	R3
Gibaja	Galindo	Eva Lucrecia	R3
Luna	Ariza	José María	R3
Luque	Rodríguez	María	R3
Romero	Morales	Cristobal	R3
Romero	Salguero	José Raúl	R3
Zafra	Gómez	Amelia	R3
Moyano	Murillo	José María	R2
Ramírez	Quesada	Aurora	R2
Barbudo	Lunar	Rafael	R1
Delgado	Osuna	José Antonio	R1
Esteban	Toscano	Aurora	R1
Luque	Guzmán	M ^a Carmen	R1
Moya	Martín-Castaño	Antonio Rafael	R1
Pérez	Perdomo	Eduardo	R1
Trasierras	Fresco	Antonio Manuel	R1

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Biomedical Data Science	Healthcare Data Analytics
Medical Image	Radiomics
Machine learning	Deep Learning
Big Data	Clustering
Descriptive models	Pattern Mining
Predictive models	Classification and Regression

» HIGHLIGHTED PUBLICATIONS:

1. Pérez E, Reyes O. Performing Melanoma Diagnosis by an Effective Multi-view Convolutional Network Architecture. INTERNATIONAL JOURNAL OF COMPUTER VISION. 2023. 3094-3117. DOI: 10.1007/s11263-023-01848-0.
IF: 19,5 Q1 D1
2. Perez E, Ventura S. A framework to build accurate Convolutional Neural Network models for melanoma diagnosis. KNOWLEDGE-BASED SYSTEMS. 2023.
DOI: 10.1016/j.knosys.2022.110157.
IF: 8,8 Q1 D2
3. Pedraza-Arevalo S, Alors-Perez E, Blazquez-Encinas R, Herrera-Martinez AD, Jimenz-Vacas JM, Fuentes-Fayos AC, Reyes O, Ventura S, Sanchez-Sanchez R, Ortega-Salas R, Serrano-Blanch R, Galvez-Moreno MA, Gahete MD, Ibanez-Costa A, Luque RM, Castano JP. Spliceosomic dysregulation unveils NOVA1 as a candidate actionable therapeutic target in pancreatic neuroendocrine tumors. TRANSLATIONAL RESEARCH. 2023. 63-73. DOI: 10.1016/j.trsl.2022.07.005.
IF: 7,8 Q1 D2
4. Perez E, Ventura S. Progressive growing of Generative Adversarial Networks for improving data augmentation and skin cancer diagnosis. ARTIFICIAL INTELLIGENCE IN MEDICINE. 2023. DOI: 10.1016/j.artmed.2023.102556.
IF: 7,5 Q1 D2
5. Trasierras AM, Luna JM, Ventura S. A contrast set mining based approach for cancer subtype analysis. ARTIFICIAL INTELLIGENCE IN MEDICINE. 2023.
DOI: 10.1016/j.artmed.2023.102590.
IF: 7,5 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 3
 1. PAIDI TIC-122
 2. Red de Excelencia en Big Data y Análisis de Datos Escalable.
 3. Red de Excelencia en Ingeniería del Software basada en Búsqueda (SEBASNet)
 4. Teoría y Aplicaciones de Minería de Datos
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 2
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- LUIS JIMENEZ BORREGO
 2. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ALBERTO VELA CASTRO
- 1 AGREEMENT WITH COMPANIES

GC26:

CLINICAL VIROLOGY AND ZONOSIS

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

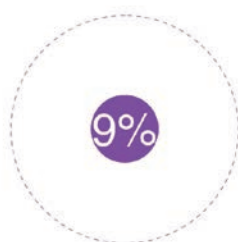
» TEAM

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Rivero	Román	Antonio	R4
Camacho	Espejo	Ángela	R3
Frias	Casas	Mario	R3
Pérez	Valero	Ignacio	R3
Rivero	Juárez	Antonio	R3
Caballero	Gómez	Javier	R2
Gallo	Marín	Marina	R2
López	López	Pedro	R2
Casares	Jiménez	María	R1
Corona	Mata	Diana	R1
Ruiz	Cáceres	Inmaculada	R1
Romero	Morales	M ^a del Carmen	ADM
Carrasco	Dorado	Ángela	T
Ríos	Muñoz	Lucía	T
Ruiz	Torres	Laura	T
Zafra	Soto	Ismael	T

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

HIV	Pathogens
HCV	Fibrosis
HEV	Cirrhosis
Infection	Innate immunity
AIDS	Pharmacogenomics
ART	Viral reservoir
CD4	Zoonoses
Hepatitis	

» HIGHLIGHTED PUBLICATIONS:

1. Casares-Jimenez M, Rivero-Juarez A, Lopez-Lopez P, Montes ML, Navarro-Soler R, Peraire J, Espinosa N, Alemán-Valls MR, García-García T, Caballero-Gomez J, Corona-Mata D, Perez-Valero I, Ulrich RG, Rivero A. Rat hepatitis E virus (Rocahepevirus rattii) in people living with HIV. *Emerg Microbes Infect.* 2023 Dec;13(1):2295389. DOI: 10.1080/22221751.2023.2295389.
IF: 13.2 Q1 D1
2. Lopez-Lopez P, Frias M, Perez-Jimenez AB, Freyre-Carrillo C, Pineda JA, Aguilera A, Fuentes A, Alados JC, Reina G, Ramirez-Arellano E, Viciano I, Mesquita J, Caballero-Gomez J, Rivero-Juarez A, Rivero A. Optimization of the molecular diagnosis of the acute hepatitis E virus infection. *MICROBIAL BIOTECHNOLOGY.* 2023. 1325-1332. DOI: 10.1111/1751-7915.14247
IF: 5,7 Q1 D2
3. Corona-Mata D, Rivero-Juarez A, Camacho A, Ruiz-Torres L, Ruiz-Caceres I, Darder BD, Caceres-Anillo D, Castro-Granados MD, Lizaur-Barbudo M, Cabrera-Gisbert MV, Redondo-Ecija J, Aparicio-Aparicio A, Manchado-Lopez L, Cobos L, Perez-Valero I, Rivero A. Efficacy of a comprehensive strategy for the detection and treatment of hepatitis C infection in a population attending addiction centers. *FRONTIERS IN PUBLIC HEALTH.* 2023. DOI: 10.3389/fpubh.2023.1092960.
IF: 5,2 Q1 D2
4. Perez-Valero I, Corona D, Martinez N, Lopez-Cavanillas M, Lluís C, Luque I. Real-world discontinuations due to neuropsychiatric symptoms in people living with HIV treated with second-generation integrase inhibitors: a systematic review. *EXPERT REVIEW OF ANTI-INFECTIVE THERAPY.* 2023. 655-665. DOI: 10.1080/14787210.2023.2203914.
IF: 5,7 Q1 D3
5. Lopez-Lopez P, Frias M, Perez-Jimenez AB, Freyre-Carrillo C, Pineda JA, Fuentes A, Alados JC, Ramirez-Arellano E, Viciano I, Corona-Mata D, Caballero-Gomez J, Garcia-Bocanegra I, Rialde MA, Rivero-Juarez A, Rivero A. Temporal changes in the genotypes of Paslahepevirus balayani in southern Spain and their possible link with changes in pig trade imports. *ONE HEALTH.* 2023. DOI: 10.1016/j.onehlt.2023.100539.
IF: 5 Q1 D3

» CLINICAL GUIDES:

1. Documento de consenso “Recomendaciones de atención para un paciente con infección por VIH según perfil”. Enero 2023. ANTONIO RIVERO ROMÁN. Editado por: The Institute for Health and Strategy (SI-Health). ISBN: 978-84-09-47438-7. Implemented in the hospitals of the national health system.
2. Manejo de la enfermedad hepática en personas que viven con VIH. <https://gesida-seimc.org/wp-content/uploads/2023/02/MANEJO-DE-LA-ENFERMEDAD-HEPATICA-EN-PERSONAS-QUE-VIVEN-CON-VIH.pdf>. 2023. ANTONIO RIVERO JUÁREZ. Implemented in the hospitals of the national health system.

» ACTIVITY:

- N° ONGOING PROJECTS: 2
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 13

» ADDITIONAL INFORMATION:

- NETWORKS: 4
 1. CIBER - Enfermedades Infecciosas (CB21/13/00083)
 2. AIDS Research Network (RIS. RD16/0025/0034)
 3. HEVnet (ECDC: NP/2016/OCS/7892/01)
 4. Red Española de Investigación en Sida (RIS)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 13
 1. Programa de Refuerzo Mediante Contratos UGC del SAS, para el Desarrollo de Programas de Investigación, de Larga Duración de las Desarrollo E Innovación (S0011). Exp.: RB-0002-2020. Consejería de Salud - ANTONIO RIVERO ROMÁN / ÁNGELA CAMACHO ESPEJO.
 2. A1-0001-2022 SAS 2022 - REFUERZO CON RRHH DE LA ACTIVIDAD INVESTIGADORA EN LAS UC DEL SAS - ACCIONES A Y B. AYUDAS PARA INTENSIFICACIÓN. ANTONIO RIVERO ROMÁN
 3. Ayudas “Margarita Salas” 2022. Convocatoria complementaria de ayudas para la recualificacion del Sistema Universitario Espanol 2021-2023. Universidad de Córdoba. Plan de Recuperacion, Transformacion y Resiliencia – Financiado por la Union Europea – NextGeneration EU. PEDRO LOPEZ LOPEZ
 4. Contrato Investigador@ postdoctoral grupo CIBER CB21/13/00083. Instituto de Salud Carlos III - JAVIER CABALLERO GÓMEZ

5. Contrato Titulado superior grupo CIBER CB21/13/00083. PLAN FORMATIVO CONTRATO DE FORMACIÓN PARA LA OBTENCIÓN DE LA PRÁCTICA PROFESIONAL. FINANCIADO POR LA UNION EUROPEA-NEXTGENERATION EU - TOMÁS FAJARDO ALONSO
 6. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS RÍO HORTEGA 2022. CM22/00176. Funding Agency: INSTITUTO DE SALUD CARLOS III- DIANA CORONA MATA
 7. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS MIGUEL SERVET TIPO I 2018. CP18/00111. Funding Agency: INSTITUTO DE SALUD CARLOS III- ANTONIO RIVERO JUAREZ
 8. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2022. FI22/00180. Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIA CASARES JIMENEZ
 9. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2023. FI23/00279. Funding Agency: INSTITUTO DE SALUD CARLOS III- INMACULADA RUIZ CÁCERES
 10. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ANGELA CARRASCO DORADO
 11. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- LUCIA RIOS MUÑOZ
 12. Contrato con cargo a un proyecto: Efecto de los cambios en los usos del suelo sobre la salud ambiental y la diversidad de patógenos en el marco de la inmunidad del paisaje. REF: (TED2021-132599B-C22; Ministerio de Ciencia e Innovación). Universidad de Córdoba. MARIO FRÍAS CASAS
 13. Contratos para la Intensificación de la Actividad Investigadora en el Sistema Nacional de Salud. Acción Estratégica en Salud 2023. Subprograma Estatal de Incorporación. Expediente N°: INT23/00059. ANTONIO RIVERO ROMÁN
- 22 AGREEMENTS WITH COMPANIES
 - INTERNATIONAL PROJECTS: 2
 1. ANTONIO RIVERO ROMAN. Real-life effectiveness of BIC/FTC/TAF in naïve patients with CD4+ less than 200 cells/mL or AIDS events. Funding Agency: GILEAD SCIENCES EUROPE LTD. Reference: Gilead-ISR-2021-01
 2. IGNACIO PÉREZ VALERO. Ensayo clínico fase IV, aleatorizado, multicéntrico y doble ciego diseñado para evaluar la seguridad y la conveniencia del cambio de DTG/3TC por BIC/FTC/TAF en personas con VIH, buen control virológico y vulnerabilidades neuropsiquiátricas: Estudio MIND. Funding Agency: Gilead Medical Affairs BFTAF RFP Program. Reference: GESIDA 11920
 - AWARDS: 3
 1. ANTONIO RIVERO ROMÁN, ANTONIO RIVERO JUÁREZ, MARIO FRÍAS CASAS, JAVIER CABALLERO GÓMEZ, PEDRO LÓPEZ LÓPEZ, MARÍA CASARES JIMÉNEZ. SEGUNDO “PREMIO DE INVESTIGACION ALBÉITAR FRANCISCO DE LA REYNA”. Hepatitis E en el porcino: Evaluación de los riesgos para la Salud Pública a lo largo de la cadena alimentaria. Colegio Oficial de Veterinarios de Zamora. 29/09/2023
 2. JAVIER CABALLERO GÓMEZ. XXV Premio Nacional de Investigación Francisco Fernández López. Colegio de Veterinarios de Almería. 30/09/2023
 3. ANTONIO RIVERO ROMÁN. Premio de investigación sobre VIH/SIDA y otras enfermedades de transmisión sexual 2023. Predictors of low-level HIV viraemia and virological failure in the era of integrase inhibitors: A Spanish nationwide cohort. Axencia Galega de Xestión de Conecemento de Saúde (ACIS). 01/12/2023

GC27:

ONCOOBESITY AND METABOLISM

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Luque	Huertas	Raúl Miguel	R4	0000-0002-7585-1913
Martínez	Fuentes	Antonio Jesús	R4	
Solivera	Vela	Juan	R3	
Flores	Martínez	Álvaro	R2	
García	Martínez	Araceli	R2	
González	Serrano	M ^a Teresa	R2	
Jiménez	Vacas	Juan Manuel	R2	
León	González	Antonio José	R2	
Moreno	Rodríguez	M ^a del Mar	R2	
Sarmento	Borges Cabral	André Morais	R2	
de la Rosa	Herencia	Ana de la Salud	R1	
Di Caro		Isidoro	R1	
García	García	Miguel Eduardo	R1	
Gil	Duque	Ignacio	R1	
López	López	Fernando	R1	
Mata	Ordoñez	Fernando	R1	
Montero	Hidalgo	Antonio Jesús	R1	
Núñez	Santos	Miguel Ángel	R1	
Ortega	Bellido	María	R1	
Pérez	Gómez	Jesús Miguel	R1	
Porcel	Pastrana	Francisco	R1	
Sáez	Martínez	Prudencio	R1	
Sánchez	Medianero	M ^a Teresa	R1	
Sánchez	Sánchez	Rafael	R1	
Selmi		Salima	R1	
Toledano	Delgado	Álvaro	R1	
Valverde	Moyano	Roberto	R1	
Vidal	Miñano	Juana María	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Cancer	Adipose tissue
Obesity	Splicing/spliceosome
Tumor pathologies	miRNAs
Prostate cancer	Extracellular vesicles
Brain tumors	Non-sense Mediated mRNA Decay
Pituitary tumors	RNA-exosome
Bladder cancer	Telomerase-shelterine
Breast cancer	Inflammasome
Diabetes	Epitranscriptomics
Metabolic dysregulations	Epigenomics
Heterogeneity	Therapeutic targets
Diagnostic biomarkers	Prognostic biomarkers

» HIGHLIGHTED PUBLICATIONS:

1. Fuentes-Fayos AC, G-Garcia ME, Perez-Gomez JM, Montero-Hidalgo AJ, Martin-Colom J, Doval-Rosa C, Blanco-Acevedo C, Torres E, Toledano-Delgado A, Sanchez-Sanchez R, Peralbo-Santaella E, Ortega-Salas RM, Jimenez-Vacas JM, Tena-Sempere M, Lopez M, Castano JP, Gahete MD, Solivera J, Luque RM. Metformin and simvastatin exert additive antitumour effects in glioblastoma via senescence-state: clinical and translational evidence. EBIOMEDICINE. 2023. -. DOI: 10.1016/j.ebiom.2023.104484.
IF: 11,1 Q1 D1
2. Jimenez-Vacas JM, Montero-Hidalgo AJ, Gomez-Gomez E, Saez-Martinez P, Fuentes-Fayos AC, Closa A, Gonzalez-Serrano T, Martinez-Lopez A, Sanchez-Sanchez R, Lopez-Casas PP, Sarmiento-Cabral A, Olmos D, Eyraes E, Castano JP, Gahete MD, Luque RM. Tumor suppressor role of RBM22 in prostate cancer acting as a dual-factor regulating alternative splicing and transcription of key oncogenic genes. TRANSLATIONAL RESEARCH. 2023. 68-79. DOI: 10.1016/j.trsl.2022.08.016.
IF: 7,8 Q1 D2
3. Herrera-Martínez AD, Castillo-Peinado LLS, Molina-Puerta MJ, Calanas-Continente A, Membrives A, Castilla J, Cardenosa MC, Casado-Díaz A, Gálvez-Moreno MA, Gahete MD, Gómez JMQ, Bouillon R, Priego-Capote F, Luque RM. Bariatric surgery and calcifediol treatment, Gordian knot of severe-obesity-related comorbidities treatment. FRONTIERS IN ENDOCRINOLOGY. 2023. DOI: 10.3389/fendo.2023.1243906.
IF: 5,2 Q1 D3
4. Montero-Hidalgo AJ, Perez-Gomez JM, Martinez-Fuentes AJ, Gomez-Gomez E, Gahete MD, Jimenez-Vacas JM, Luque RM. Alternative splicing in bladder cancer: potential strategies for cancer diagnosis, prognosis, and treatment. WILEY INTERDISCIPLINARY REVIEWS-RNA. 2023. DOI: 10.1002/wrna.1760. I
F: 7,3 Q1 D3
5. Pérez-Gómez JM, Montero-Hidalgo AJ, Fuentes-Fayos AC, Sarmiento-Cabral A, Guzmán-Ruiz R, Malagón MM, Herrera-Martínez AD, Gahete MD, Luque RM. Exploring the role of the inflammasomes on prostate cancer: Interplay with obesity. REVIEWS IN ENDOCRINE & METABOLIC DISORDERS. 2023. DOI: 10.1007/s11154-023-09838-w.
IF: 6,9 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 11
- N° GRANTED PROJECTS IN 2023: 3
- N° CLINICAL TRIALS: 3

» ADDITIONAL INFORMATION:

- NETWORKS: 14
 1. CIBER of Physiopathology of Obesity and Nutrition (CIBERObn).
 2. Spanish Society of Endocrinology and Nutrition (SEEN). Neuroendocrinology, Obesity (GOOSEEN), and Hepatic-Metabolic Illness (EHMET-SEEN) working groups
 3. Andalusian Society of Endocrinology, Diabetes and Nutrition (SAEDYN). Neuroendocrinology working group
 4. Red de Investigación Nacional (RED2018-102785-E; RED2022-134397-T) of the Ministry of Science, Innovation and Universities.
 5. European infrastructure for translational medicine EATRIS

6. European Society of Endocrinology (ESE). Endocrine Related Cancers Focus Area, Pituitary and Neuroendocrinology Focus Area, and ESE Young Endocrinologists & Scientists (EYES) Committee.
 7. European Neuroendocrine Association. ENEA Young Researchers Committee (EYRC).
 8. Spanish Molecular Registry of pituitary tumors (REMAH).
 9. Agrifood Campus of International Excellence (ceiA3).
 10. PAIDI BIO-139 Cellular and Molecular Endocrinology.
 11. TransBioNet – Spanish Bioinformatics Network for Clinical Research.
 12. Global Engagement Advisory Group of the Endocrine Society (USA).
 13. Asociación ASTUCE Spain (Brain Tumour Association, Spain). OLIGOSPAIN Network.
 14. Spanish Group of Neurooncology Research (GEINO)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 14
 1. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- RAUL MIGUEL LUQUE HUERTAS
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ROCIO MUÑOZ RODRIGUEZ
 3. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- MANUEL GALAN CAÑETE
 4. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ALEJANDRO CUENCA MARTAGON
 5. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MARIA SEDANO GAMIZ
 6. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA 2021. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- ALVARO FLORES MARTINEZ
 7. CO-FINANCIACIÓN PROYECTO P2Med-IMIBIC. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- ANDRE MORAIS SARMENTO BORGES CABRAL
 8. FORMACIÓN PROFESORADO UNIVERSITARIO “FPU” 2017 (MIU) - PRUDENCIO SAEZ MARTÍNEZ
 9. FORMACIÓN PROFESORADO UNIVERSITARIO “FPU” 2018 (MIU) - ANTONIO JESÚS MONTERO HIDALGO
 10. FORMACIÓN PROFESORADO UNIVERSITARIO “FPU” 2018 (MIU) - JESÚS MIGUEL PÉREZ GÓMEZ
 11. FORMACIÓN PROFESORADO UNIVERSITARIO “FPU” 2020 (MIU) – MIGUEL EDUARDO GARCÍA GARCÍA
 12. AYUDAS PARA CONTRATOS PREDOCTORALES PARA LA FORMACIÓN DE DOCTORES “FPI” 2020 (MICIN) – FRANCISCO PORCEL PASTRANA
 13. CONTRATO DE TRABAJO PREDOCTORAL PARA LA REALIZACIÓN DE UN PROYECTO DE INVESTIGACIÓN (FPyS) 2021 – ISIDORO DI CARO
 14. FORMACIÓN PROFESORADO UNIVERSITARIO “FPU” 2021 (MIU) – ANA DE LA SALUD DE LA ROSA HERENCIA
 - 8 AGREEMENTS WITH COMPANIES
 - AWARDS: 6
 1. ANTONIO JESUS MONTERO HIDALGO. Premio a la mejor comunicación de la SESSION I. Cáncer I- Antonio Jesús Montero Hidalgo. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/001
 2. RAUL MIGUEL LUQUE HUERTAS. Estudio de la maquinaria celular del Inflamasoma en tumores hipofisarios: Aproximación clínica, molecular y funcional. Funding Agency: SOCIEDAD ANDALUZA DE ENDOCRINOLOGÍA, DIABETES Y NUTRICIÓN. Reference: SAEDYN23_01
 3. Ana S. De la Rosa-Herencia. “Cellular and clinical implications of the somatostatin system and somatostatin analogues treatment in glioblastomas”. Sociedad Española de Biología Celular (SEBC)
 4. Ana S. De la Rosa-Herencia. “Detección de microRNAs en biopsias líquidas como biomarcadores personalizados de diagnóstico y terapéuticos en la interacción entre obesidad y cáncer”. Sociedad Andaluza de Medicina del Deporte (SAMEDE)
 5. Ana S. De la Rosa-Herencia. “Clinical, transcriptomic, and functional characterization of telomerase/shelterin system in different intracranial tumors”. Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC)
 6. Jesús M. Pérez-Gómez. “Existencia de huellas moleculares clínicamente relevantes basadas en el perfil de expresión de adipocinas producidas por el tejido adiposo periprostático en pacientes con cáncer de próstata y obesidad”. Sociedad Andaluza de Medicina del Deporte (SAMEDE)

GC28:

NEUROPLASTICITY AND OXIDATIVE STRESS

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Agüera	Morales	Eduardo	R3	0000-0002-8604-2054
Túnez	Fiñana	Isaac	R4	
Caballero	Villarraso	Javier	R3	
Escribano	Durán	Begoña María	R3	
Jimena	Medina	Ignacio	R3	
Luque	Carabot	Evelio	R3	
Peña	Amaro	Jose	R3	
Cantarero	Carmona	Irene	R2	
Conde	Gavilán	Cristina	R2	
Feijóo	López	Montserrat	R2	
Galvao	Carmona	Alejandro	R2	
Gascón	Luna	Felix	R2	
Gómez	Melero	Sara	R2	
Muñoz	Jurado	Ana	R2	
Peña	Toledo	Mª Ángeles	R2	
Rodríguez	Cantalejo	Fernando	R2	
Barbero	Fernández	Rosa María	R1	
Delgado	Campos	Andrés	R1	
Galvan	Jurado	Alberto	R1	
Navarrete	Pérez	Ainoa	R1	
Giraldo	Polo	Ana Isabel	T	
la Torre	Luque	Manuel	T	
Martín	Hersog	Francisco Antonio	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Antioxidant systems	Neuroplasticity
Huntingtons's disease	Oxidative stress
Multiple sclerosis	Cell death
Neurodegenerative diseases	Transcranial magnetic stimulation
Evidence-based medicine (EBM)	Systematic reviews of the literature
Bibliometric studies and economic evaluations	Point-of-care testing (poc)
Programming	

» HIGHLIGHTED PUBLICATIONS:

- Gámbaro F, Pérez AB, Prot M, Agüera E, Baidaliuk A, Sanchez-Seco MP, Martinez-Martínez L, Vázquez A, Fernandez-Garcia MD, Simon-Loriere E. Untargeted metagenomic sequencing identifies Toscana virus in patients with idiopathic meningitis, southern Spain, 2015 to 2019. *EUROSURVEILLANCE*. 2023. DOI: 10.2807/1560-7917.ES.2023.28.45.2200913.
IF: 19 Q1 D1
- Daruwalla C, Shaygannejad V, Ozakbas S, Havrdova EK, Horakova D, Alroughani R, Boz C, Patti F, Onofrj M, Lugaresi A, Eichau S, Girard M, Prat A, Duquette P, Yamout B, Khoury SJ, Sajedi SA, Turkoglu R, Altintas A, Skibina O, Buzzard K, Grammond P, Karabudak R, van der Walt A, Butzkueven H, Maimone D, Lechner-Scott J, Soysal A, John N, Prevost J, Spitaleri D, Ramo-Tello C, Gerlach O, Iuliano G, Foschi M, Ampapa R, van Pesch V, Barnett M, Shalaby N, D'hooghe M, Kuhle J, Sa MJ, Fabis-Pedrin M, Kermode A, Mrabet S, Gouider R, Hodgkinson S, Laureys G, Van Hijfte L, Macdonell R, Oreja-Guevara C, Cristiano E, McCombe P, Sanchez-Menoyo JL, Singhal B, Blanco Y, Hughes S, Garber J, Solaro C, McGuigan C, Taylor B, de Gans K, Habek M, Al-Asmi A, Mihaela S, Trivino TC, Al-Harbi T, Rojas JI, Gray O, Khurana D, Van Wijmeersch B, Grigoriadis N, Inshasi J, Oh J, Agüera-Morales E, Fragoso Y, Moore F, Shaw C, Baghbanian SM, Shuey N, Willekens B, Hardy TA, Decoo D, Sempere AP, Field D, Wynford-Thomas R, Cunniffe NG, Roos I, Malpas CB, Coles AJ, Kalincik T, Brown JWL, MSBase Study Grp. Early non-disabling relapses are important predictors of disability accumulation in people with relapsing-remitting multiple sclerosis. *MULTIPLE SCLEROSIS JOURNAL*. 2023. 875-883. DOI: 10.1177/13524585231151951.
IF: 5,8 Q1 D2
- Roos I, Diouf I, Sharmin S, Horakova D, Havrdova EK, Patti F, Shaygannejad V, Ozakbas S, Izquierdo G, Eichau S, Onofrj M, Lugaresi A, Alroughani R, Prat A, Girard M, Duquette P, Terzi M, Boz C, Grand'Maison F, Sola P, Ferraro D, Grammond P, Turkoglu R, Buzzard K, Skibina O, Yamou B, Altintas A, Gerlach O, van Pesch V, Blanco Y, Maimone D, Lechner-Scott J, Bergamaschi R, Karabudak R, McGuigan C, Cartechini E, Barnett M, Hughes S, Sa MJ, Solaro C, Ramo-Tello C, Hodgkinson S, Spitaleri D, Soysal A, Petersen T, Granella F, de Gans K, McCombe P, Ampapa R, Van Wijmeersch B, van der Walt A, Butzkueven H, Prevost J, Sanchez-Menoyo JL, Laureys G, Gouider R, Castillo-Trivino T, Gray O, Agüera-Morales E, Al-Asmi A, Shaw C, Deri N, Al-Harbi T, Fragoso Y, Csepany T, Sempere AP, Trevino-Frenk I, Schepel J, Moore F, Malpas C, Kalincik T. Comparative effectiveness in multiple sclerosis: A methodological comparison. *MULTIPLE SCLEROSIS JOURNAL*. 2023. 326-332. DOI: 10.1177/13524585231151394.
IF: 5,8 Q1 D2
- Olaechea A, Benabdellah K, Vergara-Buenaventura A, Gómez-Melero S, Cafferata EA, Meza-Mauricio J, Padial-Molina M, Galindo-Moreno P. Preclinical Evidence for the Use of Oral Mesenchymal Stem Cell-Derived Extracellular Vesicles in Bone Regenerative Therapy: A Systematic Review. *STEM CELLS TRANSLATIONAL MEDICINE*. 2023. 791-800. DOI: 10.1093/stcltm/szad059.
IF: 6 Q1 D3
- Diouf I, Malpas CB, Sharmin S, Roos I, Horakova D, Havrdova EK, Patti F, Shaygannejad V, Ozakbas S, Izquierdo G, Eichau S, Onofrj M, Lugaresi A, Alroughani R, Prat A, Girard M, Duquette P, Terzi M, Boz C, Grand'Maison F, Hamdy S, Sola P, Ferraro D, Grammond P, Turkoglu R, Buzzard K, Skibina O, Yamout B, Altintas A, Gerlach O, van Pesch V, Blanco Y, Maimone D, Lechner-Scott J, Bergamaschi R, Karabudak R, Iuliano G, McGuigan C, Cartechini E, Barnett M, Hughes S, Sa MJ, Solaro C, Kappos L, Ramo-Tello C, Cristiano E, Hodgkinson S, Spitaleri D, Soysal A, Petersen T, Slee M, Butler E, Granella F, de Gans K, McCombe P, Ampapa R, Van Wijmeersch B, van der Walt A, Butzkueven H, Prevost J, Sinnige LGF, Sanchez-Menoyo JL, Vucic S, Laureys G, Van Hijfte L, Khurana D, Macdonell R, Gouider R, Castillo-Trivino T, Gray O, Agüera-Morales E, Al-Asmi A, Shaw C, Deri N, Al-Harbi T, Fragoso Y, Csepany T, Sempere AP, Trevino-Frenk I, Schepel J, Moore F, Kalincik T. Variability of the response to immunotherapy among subgroups of patients with multiple sclerosis. *EUROPEAN JOURNAL OF NEUROLOGY*. 2023. 1014-1024. DOI: 10.1111/ene.15706.
IF: 5,1 Q1 D3

» **ACTIVITY:**

- N° ONGOING PROJECTS: 1
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 33

» **ADDITIONAL INFORMATION:**

- NETWORKS: 4
 1. Spanish Brain Stimulation Network (Red Española de Estimulación Cerebral)
 2. The Spanish Network of Multiple Sclerosis (REEM)
 3. PAIDI CTS-624 Neuroplasticity and oxidative stress
 4. CTS-985 Muscular regeneration
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 2
 1. INTENSIFICACIÓN ACCIÓN A (SAS) – EDUARDO AGÜERA MORALES
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ANDRES DELGADO CAMPOS
- 13 AGREEMENTS WITH COMPANIES

GC29:

INFLAMMATORY IMMUNE-MEDIATED CUTANEOUS DISEASES

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Ruano	Ruiz	Juan Alberto	R4	0000-0002-0286-4107
Vélez	García-Nieto	Antonio	R3	
Galán	Gutiérrez	Manuel	R2	
Gómez	García	Francisco	R2	
Isla	Tejera	Beatriz	R2	
Aguilar	Luque	Macarena	R1	
Allalou	Ruiz	Yasmin	R1	
Carmona	Fernández	Pedro Jesús	R1	
Gay	Mimbrera	Jesús	R1	
Gómez	Arias	Pedro Jesús	R1	
López	García	María	R1	
Rivera	Ruiz	Irene	R1	
Sanz	Cabanillas	Juan Luis	R1	
Cebrián	García	Álvaro	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Immune-mediated skin diseases	Cell Culture
Psoriasis	Cold Atmospheric Plasma
Atopic Dermatitis	Cost-efficiency analyses
Vitiligo	Systematic Reviews
Alopecia Areata	Meta-analyses
Genetic Polymorphisms	Meta-epidemiology
Biological Therapies	Single Cell Transcriptome

» HIGHLIGHTED PUBLICATIONS:

1. Facheris P, Da Rosa JC, Pagan AD, Angelov M, Del Duca E, Rabinowitz G, Arias PJG, Lausell CR, Estrada YD, Bose S, Chowdhury M, Shemer A, Pavel AB, Guttman-Yassky E. Age of onset defines two distinct profiles of atopic dermatitis in adults. ALLERGY. 2023. 2202-2214. DOI: 10.1111/all.15741.

IF: 12,4 Q1 D1

2. Armario-Hita JC, Galan-Gutierrez M, Dodero-Anillo JM, Carrascosa JM, Ruiz-Villaverde R. Updated Review on Treatment of Atopic Dermatitis. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2023. 158-167. DOI: 10.18176/jiaci.0906.

IF: 7,2 Q1 D2

3. Galan-Gutierrez M, Font-Ugalde P, Padial E, Hernandez-Montoya C, Godoy D, Armario-Hita JC, Ruiz-Villaverde R. Brodalumab: Efficacy, safety, and survival in mid-term (52 weeks) on real clinical practice in Andalusia, Spain. INTERNATIONAL JOURNAL OF DERMATOLOGY. 2023. 700-706. DOI: 10.1111/ijd.16527.

IF: 3,6 Q1 D3

4. Ruano J, Gay-Mimbrera J, Aguilar-Luque M, Gomez-García F, Parra-Peralbo E, Isla-Tejera B. Evolution of appraisal tool usage preferences in PROSPERO records: a study of non-Cochrane systematic reviews. BMC MEDICAL RESEARCH METHODOLOGY. 2023. DOI: 10.1186/s12874-023-02114-0.

IF: 4 Q2 D3

» ACTIVITY:

- N° ONGOING PROJECTS: 1
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 31

» ADDITIONAL INFORMATION:

• NETWORKS: 7

1. Cochrane Skin group
2. Cochrane Bias Method group
3. PAIDI CTS-1041 Scientific Group. Coordinator (PI) of the Group "New diagnostic and therapeutic methods in immunomediated inflammatory skin diseases" that belongs to the Andalusian Research Plan since October 2017
4. Laboratory for Investigative Dermatology, Rockefeller University, NY, USA
5. Eczema center and the Laboratory of Inflammatory Skin Diseases, Icahn School of Medicine Center at Mount Sinai New York (EEUU)
6. Dept. of Population Health Science and Policy and Icahn Institute for Genomics and Multiscale Biology at Icahn School of Medicine Center at Mount Sinai New York (EEUU)
7. Institute for Research in Operative Medicine at Witten/Herdecke University, (Germany)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1

1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO-ALVARO CEBRIAN GARCIA

• 12 AGREEMENTS WITH COMPANIES

• AWARDS: 1

1. BEATRIZ ISLA TEJERA. TTPharmacy. Funding Agency: ROCHE FARMA, S.A. Reference: PZinkinn_001

GC30:
MOLECULAR HEPATOLOGY

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» **TEAM**

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Gahete	Ortiz	Manuel David	R4
López	Cánovas	Juan Luis	R2
García	Estrada	Antonio	R1
Hermán	Sánchez	Natalia	R1
Lozano	de la Haba	Samanta	R1
Ojeda	Pérez	Betsaida	R1
Fernández	Ramirez	Víctor Jesus	T

» **SCIENTIFIC PRODUCTION**



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» **KEYWORDS:**

Fatty liver	NAFLD
MAFLD	Cirrhosis
NASH	Liver cancer
Hepatocellular carcinoma	Cholangiocarcinoma
Obesity	Diabetes
Metabolic Syndrome	RNA
Splicing	Spliceosoma
Non-sense mediated decay	NMD
RNA Exosome	tRNA
RNA biogenesis	Protein Synthesis
Endocrine Systems	Somatostatin
Ghrelin	GH
IGF	Hepatokines
Adipokines	Pre-clinical models

» HIGHLIGHTED PUBLICATIONS:

1. Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. EXPERIMENTAL AND MOLECULAR MEDICINE. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7
IF: 12,8 Q1 D1
2. Jimenez-Vacas JM, Montero-Hidalgo AJ, Gomez-Gomez E, Saez-Martinez P, Fuentes-Fayos AC, Closa A, Gonzalez-Serrano T, Martinez-Lopez A, Sanchez-Sanchez R, Lopez-Casas PP, Sarmento-Cabral A, Olmos D, Eyraes E, Castano JP, Gahete MD, Luque RM. Tumor suppressor role of RBM22 in prostate cancer acting as a dual-factor regulating alternative splicing and transcription of key oncogenic genes. TRANSLATIONAL RESEARCH. 2023. 68-79. DOI: 10.1016/j.trsl.2022.08.016.
IF: 7,8 Q1 D2
3. Pérez-Gómez JM, Montero-Hidalgo AJ, Fuentes-Fayos AC, Sarmento-Cabral A, Guzmán-Ruiz R, Malagón MM, Herrera-Martínez AD, Gahete MD, Luque RM. Exploring the role of the inflammasomes on prostate cancer: Interplay with obesity. REV ENDOCR METAB DISORD. 2023. 24(6):1165-1187. DOI: 10.1007/s11154-023-09838-w.
IF: 6,9 Q1 D1
4. Fuentes-Fayos AC, G-Garcia ME, Perez-Gomez JM, Montero-Hidalgo AJ, Martin-Colom J, Doval-Rosa C, Blanco-Acevedo C, Torres E, Toledano-Delgado A, Sanchez-Sanchez R, Peralbo-Santaella E, Ortega-Salas RM, Jimenez-Vacas JM, Tena-Sempere M, Lopez M, Castano JP, Gahete MD, Solivera J, Luque RM. Metformin and simvastatin exert additive antitumour effects in glioblastoma via senescence-state: clinical and translational evidence. EBIOMEDICINE. 2023. DOI: 10.1016/j.ebiom.2023.104484.
IF: 11,1 Q1 D1
5. Montero-Hidalgo AJ, Perez-Gomez JM, Martinez-Fuentes AJ, Gomez-Gomez E, Gahete MD, Jimenez-Vacas JM, Luque RM. Alternative splicing in bladder cancer: potential strategies for cancer diagnosis, prognosis, and treatment. WILEY INTERDISCIPLINARY REVIEWS-RNA. 2023. DOI: 10.1002/wrna.1760.
IF: 7,3 Q1 D3

» ACTIVITY:

- N° ONGOING PROJECTS: 5
- N° GRANTED PROJECTS IN 2023: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. CIBERObn - Centro de Investigación Biomédica en Red - Fisiopatología de la Obesidad y Nutrición
 2. Red de Investigación Nacional (RED2022-134397-T) - Ministerio de Ciencia, Innovación y Universidades
 3. PAIDI BIO-139 - Endocrinología Celular y Molecular.
 4. Grupo de Trabajo de Enfermedad Hepática Metabólica (SEEN - Sociedad Española de Endocrinología y Nutrición).
 5. Focus Area: Tumores endocrinos (ESE - Sociedad Europea de Endocrinología).
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 5
 1. PLAN ESTATAL DE INVESTIGACIÓN CIENTÍFICA Y TÉCNICA Y DE INNOVACIÓN - AYUDAS FPU: FORMACIÓN DE PROFESORADO UNIVERSITARIO – MINISTERIO DE UNIVERSIDADES – NATALIA HERMÁN SÁNCHEZ
 2. PLAN ESTATAL DE INVESTIGACIÓN CIENTÍFICA Y TÉCNICA Y DE INNOVACIÓN - AYUDAS FPU: FORMACIÓN DE PROFESORADO UNIVERSITARIO – MINISTERIO DE UNIVERSIDADES – ANTONIO GARCÍA ESTRADA
 3. PLAN DE RECUPERACIÓN, TRANSFORMACIÓN Y RESILENCIA – CONTRATO POSTDOCTORAL "MARGARITA SALAS" – JUAN LUIS LÓPEZ CÁNOVAS
 4. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- BETSAIDA OJEDA PÉREZ
 5. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- VÍCTOR JESÚS FERNÁNDEZ RAMÍREZ
- 1 AGREEMENT WITH COMPANIES
- AWARDS: 3
 1. MANUEL DAVID GAHETE ORTIZ. Premio "Rising Star" (reconocimiento a la trayectoria científica de jóvenes investigadores en el área de la hepatología). Funding Agency: Sociedad Española de Estudio del Hígado (AEEH).
 2. ANTONIO GARCÍA ESTRADA. ESE Young Investigator Award 2023. Funding Agency: EUROPEAN SOCIETY OF ENDOCRINOLOGY.
 3. ANTONIO GARCÍA ESTRADA. Premio a la mejor comunicación de la SESSION III. Nutrición, Endocrine and Metabolic Diseases- Antonio García Estrada. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/003

GC31:

COMPREHESIVE NURSING CARE. MULTIDISCIPLINARY PERSPECTIVE

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
López	Soto	Pablo Jesús	R4	0000-0002-1046-6686
Alanís	López	Joaquín	R3	
Arévalo	Buitrago	Pedro	R3	
Carmona	Torres	Juan Manuel	R3	
Cobo	Cuenca	Ana Isabel	R3	
Dios	Guerra	Caridad	R3	
Gonçalves	Nitschke	Rosane	R3	
Hidalgo	Lopezosa	Pedro	R3	
Laredo	Aguilera	José Alberto	R3	
Morales	Cané	Ignacio	R3	
Rodríguez	Muñoz	Pedro Manuel	R3	
Aranburu	Imazt	Alejandra	R2	
Cubero	Luna	Ana María	R2	
de la Barrera	Aranda	Elena	R2	
Jiménez	Ruz	Andrea	R2	
López	Cerda	Elena	R2	
Medina	Valverde	Mª José	R2	
Miñarro	del Moral	Rosa	R2	
Moral	Arroyo	Juan Antonio	R2	
Muñoz	Alonso	Adoración	R2	
Crepaldi		Anna	R1	
Jiménez	Pastor	José Manuel	R1	
López	Coletto	Luna	R1	
Rivas	Cruces	Claudia	R1	
Rodríguez	Cortés	Francisco José	R1	
Ruiz	Cañete	Macarena	R1	
Ruz	Cea	Patricia	R1	
Segura	Ruiz	Rocío	R1	
Valverde	León	Mª del Rocío	R1	
Rodríguez	Borrego	Mª Aurora	C	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Integral nursing care	Integral human being
Nursing care philosophy	Female nurses
Professional development of nursing professional	Healthcare in order people
Assessment of training methods in higher education	Aging-life quality
Nursing service management	Fragility
Evidence-based nursing care	Health and gender
Health and disease	Habits of life: drug addiction
Disease experience	Health communication
Clinical chronobiology	

» HIGHLIGHTED PUBLICATIONS:

1. Lopez-Soto PJ, Rodriguez-Cortes FJ, Minarro-Del Moral RM, Medina-Valverde MJ, Segura-Ruiz R, Hidalgo-Lopezosa P, Manfredini R, Rodriguez-Borrego MA. CHRONOFALLS: A multicentre nurse-led intervention in the chronoprevention of in-hospital falls in adults. BMC NURSING. 2023. DOI: 10.1186/s12912-023-01322-9.
IF: 3,2 Q1 D2
2. Aranburu-Imatz A, Jiménez-Hornero JE, Morales-Cané I, López-Soto PJ. Environmental pollution in North-Eastern Italy and its influence on chronic obstructive pulmonary disease: time series modelling and analysis using visibility graphs. AIR QUALITY ATMOSPHERE AND HEALTH. 2023. 793-804. DOI: 10.1007/s11869-023-01310-7.
IF: 5,1 Q2 D3
3. Verdu-Soriano J, de Cristino-Espinar M, Luna-Morales S, Dios-Guerra C, Casado-Diaz A, Quesada-Gomez JM, Dorado G, Berenguer-Perez M, Vilchez S, Esquena J, Rodriguez-Manas L, Lazaro-Martinez JL. EHO-85, Novel Amorphous Antioxidant Hydrogel, Containing Olea europaea Leaf Extract-Rheological Properties, and Superiority over a Standard Hydrogel in Accelerating Early Wound Healing: A Randomized Controlled Trial. PHARMACEUTICS. 2023. DOI: 10.3390/pharmaceutics15071925.
IF: 5,4 Q1 D2
4. Liebana-Presa C, Martinez-Fernandez MC, Garcia-Fernandez R, Martin-Vazquez C, Fernandez-Martinez E, Hidalgo-Lopezosa P. Self perceived health and stress in the pregnancy during the COVID-19 pandemic. FRONTIERS IN PSYCHIATRY. 2023. DOI: 10.3389/fpsyt.2023.1166882.
IF: 4,7 Q2 D3
5. Verdú-Soriano J, Casado-Díaz A, de Cristino-Espinar M, Luna-Morales S, Dios-Guerra C, Moreno-Moreno P, Dorado G, Quesada-Gómez JM, Rodríguez-Mañas L, Lázaro-Martínez JL. Hard-to-Heal Wound Healing: Superiority of Hydrogel EHO-85 (Containing Olea europaea Leaf Extract) vs. a Standard Hydrogel. A Randomized Controlled Trial. GELS. 2023. DOI: 10.3390/gels9120962.
IF: 4,6 Q1 D3

» ACTIVITY:

- N° ONGOING PROJECTS: 5
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 1
 1. PAIDI CTS-666 scientific group
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2020. Funding Agency: INSTITUTO DE SALUD CARLOS III- FRANCISCO JOSE RODRIGUEZ CORTES
 2. ACCIÓN ESTRATÉGICA EN SALUD - MOVILIDAD DE PERSONAL INVESTIGADOR CONTRATADO EN EL MARCO DE LA AES (M-AES) 2022. Funding Agency: INSTITUTO DE SALUD CARLOS III- FRANCISCO JOSE RODRIGUEZ CORTES
 3. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- LAURA MORAY PEREA

GE04:

APPLIED PSYCHOLOGY

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Luque	Salas	Bárbara	R4	0000-0001-6858-9892
Tabernero	Urbieto	Carmen	R4	
Arenas	Moreno	Alicia	R3	
Castillo	Mayén	Rosario	R3	
Cuadrado		Esther	R3	
Fernández	Calvo	Bernardino	R3	
Moyano	Pacheco	Manuel	R3	
Rubio	García	Sebastian	R3	
Farhane	Medina	Naima Z.	R2	
Gutiérrez	Domingo	Tamara	R2	
García	Roldán	Sofía de la Villa	R1	
Villaécija	Rodríguez	Joaquín	R1	
Vivas	Herrera	Sebastián	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Motivation	Diet
Self-efficacy	Cardiovascular disease
Aging	Cope with stress
Women	Emotional self-regulation
Positivity	Management training programs
Emotions	E-health

» HIGHLIGHTED PUBLICATIONS:

1. Villaecija J, Luque B, Castillo-Mayen R, Farhane-Medina NZ, Tabernero C. Influence of Family Social Support and Diabetes Self-Efficacy on the Emotional Wellbeing of Children and Adolescents with Type 1 Diabetes: A Longitudinal Study. CHILDREN-BASEL. 2023. DOI: 10.3390/children10071196.
IF: 2,4 Q2 D5
2. Luque B, Farhane-Medina NZ, Villalba M, Castillo-Mayen R, Cuadrado E, Tabernero C. Positivity and Health Locus of Control: Key Variables to Intervene on Well-Being of Cardiovascular Disease Patients. JOURNAL OF PERSONALIZED MEDICINE. 2023. DOI: 10.3390/jpm13050873.
IF: 3,508 Q1 D2
3. Arenas A, Briones E, Tabernero C. Error orientation in a decision-making simulation program: differences between promotion vs. prevention focus. FRONTIERS IN PSYCHOLOGY. 2023. DOI: 10.3389/fpsyg.2023.1057634.
IF: 3,8 Q1 D3
4. Contador I, Alzola P, Stern Y, de la Torre-Luque A, Bermejo-Pareja F, Fernandez-Calvo B. Is cognitive reserve associated with the prevention of cognitive decline after stroke? A Systematic review and meta-analysis. AGEING RESEARCH REVIEWS. 2023. DOI: 10.1016/j.arr.2022.101814.
IF: 13,1 Q1 D1
5. Kossowska, M., Kłodkowski, P., Siewierska-Chmaj, A., Guinote, A., Kessels, U., Moyano, M., & Strömbäck, J. (2023). Internet-based micro-identities as a driver of societal disintegration. Humanities and Social Sciences Communications, 10(1), 1-10. DOI: 10.1057/s41599-023-02441-z.
IF: 3,7 Q1 D1

» ACTIVITY:

- N° ONGOING PROJECTS: 2
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. PAIDI HUM-414 (<http://www.uco.es/investiga/grupos/hum-414/>)
 2. Instituto de Neurociencias de Castilla Y León "IncyL" - Unidad de Investigación Consolidada de Castilla y León
 3. PAIDI SEJ-544 ÍNDICES (<http://www.uco.es/investiga/grupos/indices/>)
 4. Grupo: UIC 249 (Unidad de Investigación Consolidada de Castilla y León). Directora: María del Carmen Tabernero Urbieto
 5. Grupo: GIR (Grupo de investigación reconocido de la Universidad de Salamanca). Directora: María del Carmen Tabernero Urbieto
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 3
 1. FORMACIÓN PROFESORADO UNIVERSITARIO "FPU" (MEC) - JOAQUÍN VILLAÉCIJA RODRÍGUEZ
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO-SOFIA DE LA VILLA GARCIA-ROLDAN
 3. FORMACIÓN PROFESORADO UNIVERSITARIO "FPU" (MEC) – SEBASTIÁN VIVAS HERRERA
- INTERNATIONAL PROJECTS: 2
 1. Alicia Arenas / Donatella Di Marco. MINDLIVEN: Mindfulness-in-Nature Based Training through Virtual Environments. Universidad de Verona/Italia. Erasmus+ Programme Higher Education – Strategic partnership Action KA2. 01/12/2020 - 31/05/2023.
 2. Manuel Moyano (Pack nº5: "Computer modelling of the formation of closed micro-identities and its attendant processes"). DigiPatch. Moving from networked to patchworked society: motivational underpinnings and societal consequences. Unión Europea: CHANSE programme, Horizon 2020.

GE05:

GENITOURINARY DISEASES

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Carrasco	Valiente	Julia	R3	0000-0002-3974-3990
Gómez	Gómez	Enrique	R3	
Blanca	Pedregosa	Ana María	R2	
Campos	Hernández	Juan Pablo	R2	
Anglada	Curado	Francisco	R1	
Chamorro	Castillo	Laura	R1	
Márquez	López	Javier	R1	
Morillo	Tejedor	Ana Cristina	R1	
Rubio	Galisteo	Juan Manuel	R1	
Ruiz	García	Jesús	R1	
Sánchez	Ostos	Manuel	R1	
SÁNCHEZ	ÁLVAREZ	ELISABET	R1	
Valero	Rosa	José	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Bladder cancer	Diagnosis
Prostata cancer	Prognosis
Kidney transplantation	Predictive
Biomarkers	Robotic laparoscopic surgery

» HIGHLIGHTED PUBLICATIONS:

1. Frantzi M, Culig Z, Heidegger I, Mokou M, Latosinska A, Roesch MC, Merseburger AS, Makridakis M, Vlahou A, Blanca-Pedregosa A, Carrasco-Valiente J, Mischak H, Gomez-Gomez E. Mass Spectrometry-Based Biomarkers to Detect Prostate Cancer: A Multicentric Study Based on Non-Invasive Urine Collection without Prior Digital Rectal Examination. *CANCERS*. 2023. DOI: 10.3390/cancers15041166.

IF: 5,2 Q2 D3

2. Blanca A, Lopez-Beltran A, Lopez-Porcheron K, Gomez-Gomez E, Cimadamore A, Bile-Silva A, Gogna R, Montironi R, Cheng L. Risk Classification of Bladder Cancer by Gene Expression and Molecular Subtype. *CANCERS*. 2023. DOI: 10.3390/cancers15072149.
IF: 5,2 Q2 D3
3. Salguero J, Chamorro L, Gómez-Gómez E, de Benito P, Robles JE, Campos JP. Kidney Survival Impact of Delayed Graft Function Depends on Kidney Donor Risk Index: A Single-Center Cohort Study. *JOURNAL OF CLINICAL MEDICINE*. 2023. DOI: 10.3390/jcm12196397.
IF: 3,9 Q2 D4
4. Jimenez-Vacas JM, Montero-Hidalgo AJ, Gomez-Gomez E, Saez-Martinez P, Fuentes-Fayos AC, Closa A, Gonzalez-Serrano T, Martinez-Lopez A, Sanchez-Sanchez R, Lopez-Casas PP, Sarmiento-Cabral A, Olmos D, Eyraas E, Castano JP, Gahete MD, Luque RM. Tumor suppressor role of RBM22 in prostate cancer acting as a dual-factor regulating alternative splicing and transcription of key oncogenic genes. *TRANSLATIONAL RESEARCH*. 2023. 68-79. DOI: 10.1016/j.trsl.2022.08.016.
IF: 7,8 Q1 D2
5. Montero-Hidalgo AJ, Perez-Gomez JM, Martinez-Fuentes AJ, Gomez-Gomez E, Gahete MD, Jimenez-Vacas JM, Luque RM. Alternative splicing in bladder cancer: potential strategies for cancer diagnosis, prognosis, and treatment. *WILEY INTERDISCIPLINARY REVIEWS-RNA*. 2023. DOI: 10.1002/wrna.1760.
IF: 7,3 Q1 D3

» **ACTIVITY:**

- N° ONGOING PROJECTS: 2
- N° CLINICAL TRIALS: 2

» **ADDITIONAL INFORMATION:**

- NETWORKS: 2
 1. Life Length – a biotechnology-based company whose activity focuses on the commercialization of the TAT telomere measurement technique.
 2. CTS-172 –Group of Urological Pathology, pertaining to the Andalusian Plan for Research, Development and Innovation (PAIDI)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 2
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ELISABETH SANCHEZ ALVAREZ
 2. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- MARTA CHACON GAMIZ
- 15 AGREEMENTS WITH COMPANIES

GE06:

PATHOPHYSIOLOGY OF RENAL AND VASCULAR DAMAGE

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Moreno	Gutiérrez	Juan Antonio	R4	0000-0002-7468-2871
Mendoza	García	Francisco Javier	R3	
Pérez	Écija	Rafael Alejandro	R3	
Beltrán	Camacho	Lucía	R2	
Durán	Torralba	María del Carmen	R2	
López	Aguilera	José	R2	
Morgado	Pascual	José Luis	R2	
Rodríguez	Almodóvar	Ana María	R2	
García	Caballero	Cristina	R1	
Sánchez	Mendoza	Luz Marina	R1	
Sanz	Zorrilla	Alicia	R1	
Vallejo	Mudarra	Mercedes	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Kidney	Intravascular Hemolysis
Hemoglobin	Rhabdomyolysis
Myoglobin	Nrf2
Cell death	Macrophages
Oxidative stress	Podocytes
Acute Kidney Injury	IgA Nephropathy

» HIGHLIGHTED PUBLICATIONS:

1. Guerrero-Hue M, Vallejo-Mudarra M, García-Caballero C, Córdoba-David GM, Palomino-Antolín A, Herencia C, Vendrell-Casana B, Rubio-Navarro A, Egido J, Blanco-Colio LM, Moreno JA. Tweak/Fn14 system is involved in rhabdomyolysis-induced acute kidney injury. *BIOMEDICINE & PHARMACOTHERAPY*. 2023. -. DOI: 10.1016/j.biopha.2023.115925.
IF: 7,5 Q1 D1
2. Rayego-Mateos S, Morgado-Pascual JL, García-Caballero C, Lazaro I, Sala-Vila A, Opazo-Rios L, Mas-Fontao S, Egido J, Ruiz-Ortega M, Moreno JA. Intravascular hemolysis triggers NAFLD characterized by a deregulation of lipid metabolism and lipophagy blockade. *JOURNAL OF PATHOLOGY*. 2023;261(2):169-183. doi: 10.1002/path.6161.
IF: 7,3 Q1 D1
3. Hamza E, Vallejo-Mudarra M, Ouled-Haddou H, Garcia-Caballero C, Guerrero-Hue M, Santier L, Rayego-Mateos S, Larabi IA, Alvarez JC, Garcon L, Massy ZA, Choukroun G, Moreno JA, Metzinger L, Meuth VML. Indoxyl sulfate impairs erythropoiesis at BFU-E stage in chronic kidney disease. *CELLULAR SIGNALLING*. 2023. -. DOI: 10.1016/j.cellsig.2022.110583.
IF: 4,8 Q2 D5
4. Sevilano AM, Caravaca-Fontan F, Garcia-Galan LC, Fernandez-Juarez G, Lopez-Revuelta K, Guzman DA, Martin-Reyes G, Quintana LF, Rodas LM, de la Nieta MDS, Rabasco C, Espinosa M, Diaz-Encarnacion M, San Miguel L, Barrios C, Rodriguez E, Garcia P, Valera A, Pena JK, Shabaka A, Velo M, Sierra M, Gonzalez F, Fernandez-Reyes MJ, Heras M, Delgado P, Gutierrez E, Moreno JA, Praga M. Effect of Immunosuppressive Treatments on Kidney Outcomes After Gross Hematuria-Related Acute Kidney Injury in Older Patients With IgA Nephropathy. *KIDNEY INTERNATIONAL REPORTS*. 2023. 1596-1604. DOI: 10.1016/j.ekir.2023.05.027.
IF: 6 Q1 D2
5. Beltran-Camacho L, Bhosale SD, Sanchez-Morillo D, Sanchez-Gomar I, Rojas-Torres M, Eslava-Alcon S, Martinez-Torija M, de Infante MAR, Nieto-Martin MD, Rodriguez-Iglesias MA, Moreno JA, Berrocoso E, Larsen MR, Moreno-Luna R, Duran-Ruiz MC. Cardiovascular-related proteomic changes in ECFCs exposed to the serum of COVID-19 patients. *INTERNATIONAL JOURNAL OF BIOLOGICAL SCIENCES*. 2023. 1664-1680. DOI: 10.7150/ijbs.78864.
IF: 9,2 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 2
- N° GRANTED PROJECTS IN 2023: 1
- N° PATENTS: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 4_
 1. CIBERCV - CIBER on Cardiovascular Diseases
 2. ERA-EDTA - Immunonephrology Working Group. European Renal Association – European Dialysis and Transplant Association
 3. GLOSEN - Spanish group for glomerulonephritis
 4. FRASEN – Spanish group of acute kidney injury
 5. VascAgeNet - COST Action CA18216. 2019-2023. - Network for Research in Vascular Ageing. European Cooperation in Science and Technology. Horizon 2020 Framework Programme of the European Union.
 6. “BenBedPhar” - COST Action CA20121. 2021-2025. Bench to bedside transition for pharmacological regulation of NRF2 in noncommunicable diseases. Horizon 2020 Framework Programme of the European Union.
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 5
 1. RAMÓN Y CAJAL (MICINN) - JUAN ANTONIO MORENO GUTIÉRREZ
 2. JUAN DE LA CIERVA FORMACIÓN (MICINN) – JOSÉ LUIS MORGADO PASCUAL
 3. JUAN DE LA CIERVA FORMACIÓN (MICINN) – LUCÍA BELTRÁN CAMACHO
 4. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- CRISTINA GARCÍA CABALLERO
 5. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MERCEDES VALLEJO MUDARRA

- 2 AGREEMENTS WITH COMPANIES

- AWARDS: 4

1. MERCEDES VALLEJO MUDARRA. Premio a la mejor comunicación de la SESSION IV. Multidisciplinary II- Mercedes Vallejo Mudarra. Funding Agency: FIBICO. FUNDACION PARA LA INVESTIGACIÓN BIOMÉDICA DE CÓRDOBA. Reference: JJII23/004
2. La severidad del daño renal asociado a hemólisis intravascular es dependiente del sexo y de la expresión de la enzima CYB5R3. Cristina García-Caballero, Mercedes Vallejo-Mudarra, Luz Marina Sánchez-Mendoza, José Luis Morgado-Pascual, Lucía Beltrán-Camacho, Carlos Pérez-Sánchez, Raquel García-Sáez, Fernando Levia Cepas, José Manuel Villalba Montoro, Juan Antonio Moreno. 53 Congreso de la Sociedad Española de Nefrología, Palma de Mallorca. 11 al 13 de noviembre 2023. Premio a mejor comunicación E-Poster.
3. Efecto beneficioso de la administración de Klotho recombinante en el fracaso renal agudo asociado a hemólisis intravascular. Mercedes Vallejo-Mudarra, Melania Guerrero-Hue, Cristina García-Caballero, José Luis Morgado-Pascual, Lucía Beltrán-Camacho, Sagrario Soriano, Fernando Levia Cepas, Jesús Egido, Juan Antonio Moreno. 53 Congreso de la Sociedad Española de Nefrología, Palma de Mallorca. 11 al 13 de noviembre 2023. Premio a mejor comunicación oral.
4. Dimorfismo sexual y posible papel protector de la enzima CYB5R3 en el fracaso renal agudo asociado a hemólisis intravascular masiva. Cristina García-Caballero, Mercedes Vallejo-Mudarra, Luz Marina Sánchez-Mendoza, José Luis Morgado-Pascual, Isabel Pozuelo-Sánchez, Lucía Beltrán-Camacho, Carlos Pérez-Sánchez, Jesús Egido de los Ríos, José Manuel Villalba Montoro, Juan Antonio Moreno. XVIII Reunión Anual de la Sociedad Madrileña de Nefrología, Aranjuez, Madrid, 3 junio 2023. Premio a la mejor comunicación oral corta.

GE07:

VISUAL QUALITY

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
González	Andrades	Miguel	R4	0000-0003-4632-1267
Cano	Ortiz	Antonio	R4	
Reques	Rodríguez	Ricardo	R4	
Alba	Molina	David	R3	
Giménez	Gomez	Rafael	R3	
Granados	Machuca	M ^a del Mar	R3	
Jiménez	Gómez	Yolanda	R3	
Villalba	Montoro	Rafael	R3	
Anaya	Alaminos	Roberto	R2	
Arias	Alcalá	Manuel	R2	
Contieri	Lambiase	Fabio	R2	
Domínguez	Pérez	Juan Manuel	R2	
Fernández	Molina	Francisco José	R2	
Giménez-Almenara	Amo	Francisco Javier	R2	
Herrador	Montiel	M ^a de los Ángeles	R2	
Ibarra	de la Rosa	Encarnación	R2	
Islam		Mohammad Mirazul	R2	
Labella	Quesada	Fernando	R2	
Martín	Martínez	Francisco	R2	
Pérez	Cordobés	M ^a José	R2	
Plugiese	Rojas	Francisco Antonio	R2	
Stoikow	Pino	Indira	R2	
Blanco	Blanco	Mario	R1	
Fernández	Choquet de Isla	José Ignacio	R1	
González	López	Ana	R1	
Ortega	Llamas	Laura	R1	
Pérez	Perdomo	Mayelín	R1	
Baños	Gil	Rosa	N	
Ordóñez	Villaizan	Ángela	N	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Ophthalmology	Biomedical engineering
Cornea	Reconstructive surgery
Retina	Drug delivery
Glaucoma	Nanomedicine
Tissue engineering	Nanoparticles
Regenerative medicine	Biomaterials

» HIGHLIGHTED PUBLICATIONS:

- Gonzalez-Gallardo C, Martinez-Atienza J, Mataix B, Munoz-Avila JI, Martinez-Rodriguez JD, Medialdea S, Ruiz-Garcia A, Lizana-Moreno A, Arias-Santiago S, Rosa-Fraile MD, Garzon I, Campos A, Cuende N, Alaminos M, Gonzalez-Andrades M, Mata R. Successful restoration of corneal surface integrity with a tissue-engineered allogeneic implant in severe keratitis patients. BIOMEDICINE & PHARMACOTHERAPY. 2023. DOI: 10.1016/j.biopha.2023.114612.
IF: 7,5 Q1 D1
- Martinez-Castillo R, Gonzalez-Gallardo C, Munoz-Avila JI, Font P, Villalba-Gonzalez M, Stoikow I, de Isla IFC, Pugliese F, Anaya-Alaminos R, Garcia-Serrano JL, Fernandez FH, Contieri F, Munoz-de-Escalona-Rojas JE, Perez-Fajardo L, Blanco-Blanco M, Jimenez-Gomez Y, Gonzalez-Andrades M. Treatment of neovascular age-related macular degeneration within 48 h from diagnosis improves long-term functional outcome. BIOMEDICINE & PHARMACOTHERAPY. 2023. DOI: 10.1016/j.biopha.2023.114368.
IF: 7,5 Q1 D1
- Anaya-Alaminos R, Rassmussen ML, Fung SSM, Potic J, Gonzalez-Andrades M. Comparative analysis of European residency programs: benchmarking and harmonizing ophthalmology training in Europe. EYE. 2023. 725-731. DOI: 10.1038/s41433-022-02040-3.
IF: 3,9 Q1 D3
- González-Andrades M, Fung SSM, Potic J, Chidambaram JD, Karimi A, Quigley C, Pontoppidan-Toms R, Scott A, Rasmussen MLR. Harmonizing ophthalmic residency surgical training across Europe: A proposed surgical curriculum. EYE. 2023. 3256-3262. DOI: 10.1038/s41433-023-02502-2.
IF: 3,9 Q1 D3
- Zhu YM, Li DN, Reyes-Ortega F, Chinnery HR, Schneider-Futschik EK. Ocular development after highly effective modulator treatment early in life. FRONTIERS IN PHARMACOLOGY. 2023. DOI: 10.3389/fphar.2023.1265138.
IF: 5,6 Q1 D2

» **ACTIVITY:**

- N° ONGOING PROJECTS: 2
- N° CLINICAL TRIALS: 7
- N° PHD THESES: 1

» **ADDITIONAL INFORMATION:**

• NETWORKS: 1

1. "OFTARED" ISCIII. Eye Diseases: Prevention, early detection and treatment of prevalent, degenerative and chronic ocular pathology.

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 8

1. PAIDI 2020 – AYUDAS A LA CONTRATACIÓN DE PERSONAL INVESTIGADOR DOCTOR POR PARTE DE LAS UNIVERSIDADES Y ENTIDADES PÚBLICAS DE INVESTIGACIÓN 2019. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- FELISA REYES ORTEGA
2. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PFIS: CONTRATOS PREDOCTORALES DE FORMACIÓN EN INVESTIGACIÓN EN SALUD 2022 (CON SS). Funding Agency: INSTITUTO DE SALUD CARLOS III- MARIO BLANCO BLANCO
3. AYUDAS JUAN DE LA CIERVA FORMACIÓN 2020. Funding Agency: AGENCIA ESTATAL DE INVESTIGACIÓN- DAVID ALBA MOLINA
4. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS PARA LA INTENSIFICACIÓN DE LA ACTIVIDAD INVESTIGADORA EN EL SNS 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- MIGUEL GONZALEZ ANDRADES
5. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ANA GONZALEZ LOPEZ
6. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- LAURA ORTEGA LLAMAS
7. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- LAURA ORTEGA LLAMAS
8. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO- YOLANDA JIMÉNEZ GÓMEZ

• 3 AGREEMENTS WITH COMPANIES

GE09:
RESEARCH IN PERITONEAL AND RETROPERITONEAL ONCOLOGICAL SURGERY

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Arjona	Sánchez	Álvaro	R3	0000-0002-3024-3009
Alhama	Carmona	José	R3	
Medina	Fernández	Javier	R3	
Michán	Doña	Carmen	R3	
Romero	Ruiz	Antonio	R3	
Rufián	Peña	Sebastian	R3	
Vázquez	Borrego	Mª Carmen	R3	
Casado	Adam	Ángela	R2	
Díaz	López	César	R2	
Ortega	Salas	Rosa	R2	
Sánchez	Hidalgo	Juan Manuel	R2	
Barbudo	Lunar	Marina	R1	
Bura		Florina Iulia	R1	
Granados	Rodriguez	Melissa	R1	
Haro	Yuste	Sergio	R1	
Martín	Rodríguez	Cristina	R1	
Martínez	López	Ana	R1	
Rocha	Pezzopane	Rafaela	R1	
Rodríguez	Ortiz	Lidia	R1	
Rufián	Andújar	Blanca	R1	
Sanchez	Mendoza	Luz Marina	R1	
Valenzuela	Molina	Francisca	R1	
Moreno	Serrano	Ana	T	
Torres	Martínez	María	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

peritoneal carcinomatosis	HIPEC
pseudomyxoma peritonei	mesothelioma
sarcoma	Colon cancer

» HIGHLIGHTED PUBLICATIONS:

1. Arjona-Sánchez A, Espinosa-Redondo E, Gutiérrez-Calvo A, Segura-Sampedro JJ, Pérez-Viejo E, Concepción-Martín V, Sánchez-García S, García-Fadrique A, Prieto-Nieto I, Barrios-Sanchez P, Torres-Melero J, Faraco MR, Prada-Villaverde A, Carrasco-Campos J, Artilles-Armas M, Villarejo-Campos P, Ortega-Pérez G, Boldo-Roda E, Sánchez-Hidalgo JM, Casado-Adam A, Rodríguez-Ortiz L, Aranda E, Cano-Osuna MT, Díaz-López C, Romero-Ruiz A, Briceño-Delgado J, Rufián-Peña S. Efficacy and Safety of Intraoperative Hyperthermic Intraperitoneal Chemotherapy for Locally Advanced Colon Cancer A Phase 3 Randomized Clinical Trial. JAMA SURGERY. 2023. 683-691. DOI: 10.1001/jamasurg.2023.0662.
IF: 16,9 Q1 D1
2. Lopez-Pedraza C, Patino-Trives AM, Cerdo T, Ortega-Castro R, Sanchez-Pareja I, Ibanez-Costa A, Munoz-Barrera L, Abalos-Aguilera MC, Ruiz-Vilchez D, Azpilcueta PS, Espinosa M, Barbarroja N, Escudero-Contreras A, Castano JP, Luque R, Ortega R, Aguirre MA, Perez-Sanchez C. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. JOURNAL OF AUTOIMMUNITY. 2023. -. DOI: 10.1016/j.jaut.2022.102990.
IF: 12,8 Q1 D1
3. Fuentes-Fayos AC, G-Garcia ME, Perez-Gomez JM, Montero-Hidalgo AJ, Martin-Colom J, Doval-Rosa C, Blanco-Acevedo C, Torres E, Toledano-Delgado A, Sanchez-Sanchez R, Peralbo-Santaella E, Ortega-Salas RM, Jimenez-Vacas JM, Tena-Sempere M, Lopez M, Castano JP, Gahete MD, Solivera J, Luque RM. Metformin and simvastatin exert additive antitumour effects in glioblastoma via senescence-state: clinical and translational evidence. EBIOMEDICINE. 2023. -. DOI: 10.1016/j.ebiom.2023.104484.
IF: 11,1 Q1 D1
4. Arjona-Sanchez A, Aziz O, Passot G, Salti G, Serrano A, Esquivel J, van der Speeten K, Sommariva A, Kazi M, Shariff U, Martinez-Regueira F, Piso P, Yonemura Y, Turaga K, Sgarbura O, Saklani AA, Tonello M, Rodriguez-Ortiz L, Vazquez-Borrego MC, Romero-Ruiz A. Laparoscopic cytoreductive surgery and hyperthermic intraperitoneal chemotherapy: Long term oncologic outcomes from the international PSOGI registry. EJSO. 2023. -. DOI: 10.1016/j.ejso.2023.107001.
IF: 3,8 Q1 D2
5. Guil-Luna S, Rivas-Crespo A, Navarrete-Sirvent C, Mantrana A, Pera A, Mena-Osuna R, Toledano-Fonseca M, García-Ortiza MV, Villar C, Sanchez-Montero MT, Krueger J, Medina-Fernandez FJ, Haba-Rodríguez JDL, Auxiliadora E, Aranda E, Rudd CE, Rodríguez-Ariza A. Clinical significance of glycogen synthase kinase 3 (GSK-3) expression and tumor budding grade in colorectal cancer: Implications for targeted therapy. BIOMEDICINE & PHARMACOTHERAPY. 2023. -. DOI: 10.1016/j.biopha.2023.115592.
IF: 7,5 Q1 D1

» ACTIVITY:

- N° ONGOING PROJECTS: 4
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 3

» ADDITIONAL INFORMATION:

- NETWORKS: 4
 1. COST Action: EuroPMP, European network for the study of pseudomyxoma peritonei.
 2. "PSOGI" The Peritoneal Surface Oncology Group International (Lap-CRS+HIPEC registry)
 3. "SEProt" – Spanish Society of Proteomic
 4. REGECOP: registro español de carcinomatosis peritoneal. Promovido por la Sociedad Española de Oncología Quirúrgica SEOQ
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 4
 1. ACCIÓN ESTRATÉGICA EN SALUD - CONTRATOS SARA BORRELL 2021. Funding Agency: INSTITUTO DE SALUD CARLOS III- Mª CARMEN VAZQUEZ BORREGO
 2. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- ANA MORENO SERRANO
 3. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- MARIA TORRES MARTINEZ
 4. AYUDAS PARA LA CONTRATACIÓN DE JÓVENES POR LOS AGENTES PÚBLICOS NO UNIVERSITARIOS DEL SISTEMA ANDALUZ DEL CONOCIMIENTO 2021. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN- FLORINA IULIA BURA NULL
- 6 AGREEMENTS WITH COMPANIES

GE10:

CLINICAL AND EPIDEMIOLOGICAL RESEARCH IN PRIMARY CARE (GICEAP)

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILITY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Romero	Rodríguez	Esperanza María	R4	0000-0001-5054-3845
Aguado	Taberne	Cristina	R3	
Aparicio	Martínez	Pilar	R3	
Arias	Blanco	M ^a del Carmen	R3	
Arias	Vega	M ^a Raquel	R3	
Blanco	Hungría	Antonio	R3	
Castro	Jiménez	Rafael Ángel	R3	
Fernández	García	José Ángel	R3	
Fonseca	Del Pozo	Francisco Javier	R3	
González	Lama	Jesús	R3	
González	Carretero	Juan Ignacio	R3	
Hidalgo	Requena	Antonio	R3	
Jiménez	García	Celia	R3	
Martín	Rioboo	Enrique	R3	
Montero	Monterroso	José Luis	R3	
Muñoz	Del Castillo	Francisco	R3	
Olaya	Caro	Inmaculada	R3	
Parras	Rejano	Juan Manuel	R3	
Pérula	De Torres	Carlos	R3	
Ramírez	Baena	Miguel	R3	
Ranchal	Sánchez	Antonio	R3	
Redondo	Sánchez	Juana	R3	
Rich	Ruiz	Manuel	R3	
Roldán	Villalobos	Ana	R3	
Ruiz	Moral	Roger	R3	
Ruiz	Moruno	Francisco Javier	R3	
Serrano	Merino	Jesús	R3	
Silva	Aycaguer	Luis Carlos	R3	
Vaquero	Abellán	Manuel	R3	
Villegas	Becerril	Enrique	R3	
Hernández	Ascanio	José	R2	
Leiva	Cepas	Fernando	R2	
Moscoso	Jara	Alicia	R2	
Muñoz	Gómez	Rafaela	R2	
Muñoz	Alcaraz	M ^a Nieves	R2	

FAMILY NAME	FIRST NAME	EURAXESS CATEGORY	ORCID
Portero	De La Cruz	Silvia	R2
Gracia	Rodríguez	Raquel	R1
López	Ruiz	Victoria	R1
Marín	González	Beatriz	R1
Monserat	Villatoro	Jaime	R1
Navarrete	Martínez	Esther	R1
Ruiz	Salcedo	Sofía	R1
Sánchez	Cañete	Eva María	R1
Padilla	Maestre	Jorge Rafael	N
Pérula	Jiménez	Celia	N
Carretero	Anibarro	Enrique	ADM
Carmona	Casado	Ana Belén	T
Montes	Redondo	Gertrudis	T

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Primary Care	Communication and health
Epidemiology	Community Health
Preventive Medicine	Public Health
Applied Research	Environment
Family and Community Medicine	

» HIGHLIGHTED PUBLICATIONS:

1. Meneses-Urrea LA, Vaquero-Abellan M, Arenas DV, Sandoval NB, Hernandez-Carrillo M, Molina-Recio G. Factors Associated with Dietary Patterns in Colombia. NUTRIENTS. 2023. DOI: 10.3390/nu15092079.
IF: 5,9 Q1 D2
2. Cebrino J, de la Cruz SP. Polypharmacy and associated factors: a gender perspective in the elderly Spanish population (2011-2020). FRONTIERS IN PHARMACOLOGY. 2023. DOI: 10.3389/fphar.2023.1189644.
IF: 5,6 Q1 D2
3. Arias-de la Rosa I, Ruiz-Ponce M, Cuesta-López L, Pérez-Sánchez C, Leiva-Cepas F, Gahete M, Navarro P, Ortega R, Cordoba J, Pérez-Pampin E, González A, Lucendo AJ, Collantes-Estévez E, López-Pedreira C, Escudero-Contreras A, Barbarroja N. Clinical features and immune mechanisms directly linked to the altered liver function in patients with rheumatoid arthritis. EUROPEAN JOURNAL OF INTERNAL MEDICINE. 2023. 49-58. DOI: 10.1016/j.ejim.2023.08.002.
IF: 8 Q1 D2

4. Vivas D, Anguita-Gámez M, Ferrandis R, Esteve-Pastor MA, Echeverri M, Igualada J, Anguita M, Egocheaga I, Nozal-Mateo B, Abad-Motos A, Figuero E, Bouzó-Molina N, Lozano T, Alvarez-Ortega C, Torres J, Descalzo MJ, Catalá JC, Martín-Rioboo E, Molines A, Rodríguez-Contreras R, Carnero-Alcázar M, Marín F. Prospective observational registry of perioperative and periprocedural management of antithrombotic therapy in “real world”: the REQXAA study. REVISTA ESPANOLA DE CARDIOLOGIA. 2023. 729-738. DOI: 10.1016/j.rec.2023.03.003.

IF: 5,9 Q1 D1

5. de la Cruz SP, Cebrino J. Uptake patterns and predictors of colorectal cancer screening among adults resident in Spain: A population-based study from 2017 to 2020. FRONTIERS IN PUBLIC HEALTH. 2023. -. DOI: 10.3389/fpubh.2023.1151225.

IF: 5,2 Q1 D2

» **ACTIVITY:**

- N° ONGOING PROJECTS: 11
- N° GRANTED PROJECTS IN 2023: 2
- N° CLINICAL TRIALS: 4
- N° PHD THESES: 5
- N° PATENTS: 1

» **ADDITIONAL INFORMATION:**

• NETWORKS: 7

1. CIBERFES: CIBER on Fragility and Healthy Aging
2. Primary Care Prevention and Health Promotion Network (Rediapp), ISCIII
3. Healthcare Research Unit (Investén-ISCIII)
4. PAIDI CTS-452
5. Global Burden of Diseases (GBD) Collaborator Network
6. RICAPP Research network on chronicity, primary care and health promotion. RD21/0016/0001
7. European General Practice Research Network (EGPRN)

• COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1

1. CONVOCATORIA DE INCORPORACIÓN DE INVESTIGADORES POSDOCTORALES A GRUPOS DE LOS CENTROS SANITARIOS Y DE INVESTIGACIÓN DEL SSPA. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO (PROGRAMA OPERATIVO 41 K FONDO SOCIAL EUROPEO). Reference: RH-0134-2020- ESPERANZA MARÍA ROMERO RODRIGUEZ

• 3 AGREEMENTS WITH COMPANIES

• INTERNATIONAL PROJECTS: 4

1. JESUS GONZALEZ LAMA. Trials@Home - Bringing patients and clinical trials home. Funding Agency: COMISIÓN EUROPEA. Reference: IMI2-2018-14-04-001
2. ESPERANZA MARÍA ROMERO RODRIGUEZ. VACCELERATE - European Corona Vaccine Trial Accelerator Platform. Funding Agency: COMISIÓN EUROPEA. Reference: SC1-CORONAVIRUS-01
3. PILAR APARICIO MARTÍNEZ. UNITE (University Network for Inclusive and digiTal Education)- Programme: Erasmus+ - Call: 2023- : Round 1 - Key action. Cooperation partnerships in Higher Education. European Comission. Reference: KA220 -HED.
4. JESUS GONZALEZ LAMA. European general practitioners'/family physicians' attitudes towards person-centered care and factors that influence its implementation in everyday practice. Funding Agency: European General Practice Research Network (EGPRN). Reference: EGPRN-2022/36

• AWARDS: 3

1. María del Mar Úcles Torrente, Manuel Vaquero Abellán, Pilar Aparicio Martínez. Mejor Póster en el I Jornadas del Colegio de Enfermería de Córdoba. Colegio de Enfermería.
2. Epifanía Díaz Girádez, Carmen Muñoz Lara, Davinia Cobos Montoya, Manuel Raigón Luque, Pilar Aparicio Martinez. Impacto de la Humanización de los cuidados durante el parto y la depresión postparto: análisis retrospectivo. Meció especial de investigación. Consejo Andaluz Colegio de Enfermería.
3. Enrique Yeguas Bolívar, Jose Manuel Alcalde Llergo, Pilar Aparicio Martínez. Social Inclusión through virtual reality (SONAR-ISense): The University Campus. 3rd Classified Best Live Demostration MetroXRINE23.

GA01:

LUNG TRANSPLANTS. THORACIC NEOPLASMS

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Salvatierra	Velázquez	Ángel	R3	0000-000204639-7344
Moreno	Casado	Paula	R3	
Álvarez	Kindelan	Antonio	R3	
Algar	Algar	Francisco Javier	R2	
Cerezo	Madueño	Francisco	R2	
Robles	Arista	Juan Carlos	R2	
Cantador	Huertos	Benito	R1	
Fernández	González	Alba María	R1	
González	García	Francisco Javier	R1	
Ruiz	López	Eloísa	R1	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Lung preservation	Proteomics
Chronic rejection	Genomics
Bronchiolitis obliterans	Lung cancer
Endothelium	Biomarkers
Inflammation	ECMO
Oxidative stress	Ex-vivo lung perfusion

» HIGHLIGHTED PUBLICATIONS:

- de la Cruz JLCC, Minambres E, Coll E, Padilla M, Antolin GS, de la Rosa G, Rosado J, Garcia FJG, Carrasco SC, Badia GS, Costa EMF, Salcedo JAG, Mora V, de la Torre C, Badenes R, Bizkarguenaga LA, Dominguez-Gil B. Outcomes of lung and liver transplantation after simultaneous recovery using abdominal normothermic regional perfusion in donors after the circulatory determination of death versus donors after brain death. AMERICAN JOURNAL OF TRANSPLANTATION. 2023. 996-1008. DOI: 10.1016/j.ajt.2023.04.016.
IF: 8,8 Q1 D1

2. de la Fuente C, Rodriguez M, Merino N, Carmona P, Machuca I, Cordoba-Fernandez M, Guzman-Puche J, Dominguez A, Lopez-Vinau T, Garcia L, Vaquero JM, Robles JC, Martinez-Martinez L, Torre-Cisneros J. Real-life use of cefiderocol for salvage therapy of severe infections due to carbapenem-resistant Gram-negative bacteria. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2023. DOI: 10.1016/j.ijantimicag.2023.106818.
IF: 10,8 Q1 D2

3. Blázquez-Encinas R, García-Vioque V, Caro-Cuenca T, Moreno-Montilla MT, Mangili F, Alors-Pérez E, Ventura S, Herrera-Martínez AD, Moreno-Casado P, Calzado MA, Salvatierra A, Gálvez-Moreno MA, Fernandez-Cuesta L, Foll M, Luque RM, Alcalá N, Pedraza-Arevalo S, Ibáñez-Costa A, Castaño JP. Altered splicing machinery in lung carcinoids unveils NOVA1, PRPF8 and SRSF10 as novel candidates to understand tumor biology and expand biomarker discovery. JOURNAL OF TRANSLATIONAL MEDICINE. 2023. DOI: 10.1186/s12967-023-04754-8.
IF: 7,4 Q1 D3

» **ADDITIONAL INFORMATION:**

- NETWORKS: 4
 1. Sociedad española de neumología y cirugía torácica – SEPAR
 2. Asociación de neumología y cirugía torácica del sur - NEUMOSUR
 3. Sociedad española de cirugía torácica – SECT
 4. PAIDI BIO-304: Inmunofarmacología y Virología Molecular
- 1 AGREEMENT WITH COMPANIES

GA03:

PNEUMOLOGY

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Jurado	Gámez	Bernabé	R4	0000-0002-1608-1795
Entrenas	Costa	Luis M	R4	
Cobos	Ceballos	María Jesús	R3	
Feu	Collado	Nuria	R3	
Marín	Romero	Samira	R3	
Pascual	Martínez	Natalia	R3	
Redel	Montero	Javier	R3	
Santos	Luna	Francisco	R3	
Vaquero	Barrios	Jose Manuel	R3	
Arenas	De Larriva	Marisol	R2	
Bioque	Rivera	Juan Carlos	R2	
Cadenas de Llano	Conde	María José	R2	
Gómez	Rebollo	Cristina	R2	
Hidalgo	Nuchera	Eduardo	R2	
Martín	De León	Roberto	R2	
Mira	Padilla	Estefanía	R2	
Villalba	Moral	Cristina	R2	
Caballero	Ballesteros	Laura	R1	
Muñoz	Corroto	Cristina	R1	
Requejo	Jiménez	Antonio	R1	
Rodríguez	Jódar	Antonio	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Lung cancer	Proteomics
Nocturnal Hypoxemia	Metabolomics
Chronic respiratory disease	Epigenetics
Respiratory therapies	Air quality and health
Telecare and telemedicine	Environmental and occupational diseases
Interventional Pulmonology	Air quality and therapeutic physical exercise
Omics	Big-data, data mining, e-learning

» HIGHLIGHTED PUBLICATIONS:

1. de la Fuente C, Rodriguez M, Merino N, Carmona P, Machuca I, Cordoba-Fernandez M, Guzman-Puche J, Dominguez A, Lopez-Vinau T, Garcia L, Vaquero JM, Robles JC, Martinez-Martinez L, Torre-Cisneros J. Real-life use of cefiderocol for salvage therapy of severe infections due to carbapenem-resistant Gram-negative bacteria. INTERNATIONAL JOURNAL OF ANTIMICROBIAL AGENTS. 2023. DOI: 10.1016/j.ijantimicag.2023.106818.

IF: 10,8 Q1 D2

2. Callejon-Leblic B, Espirilla SS, Gotera-Rivera C, Santana R, Diaz-Olivares I, Marin JM, Macario CC, Cosio BG, Fuster A, Garcia IS, de-Torres JP, Collado NF, Lopez CC, Diago CA, Plaza AR, Frayssé LAP, Martin EM, Royo MM, Vilarnau EB, Casanovas AL, Gonzalez CM, Iturri JBG, Bautista CL, Gomez-Ariza JL, Pereira-Vega A, Seijo L, Lopez-Campos JL, Peces-Barba G, Garcia-Barrera T. Metallomic Signatures of Lung Cancer and Chronic Obstructive Pulmonary Disease. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms241814250.

IF: 5,6 Q1 D3

3. Munoz-Fos A, Moreno P, Gonzalez FJ, Ruiz E, Vaquero JM, Baamonde C, Cerezo F, Algar J, Ramos-Izquierdo R, Salvatierra A, Alvarez A. Airway Complications after Lung Transplantation-A Contemporary Series of 400 Bronchial Anastomoses from a Single Center. JOURNAL OF CLINICAL MEDICINE. 2023. DOI: 10.3390/jcm12093061.

IF: 3,9 Q2 D4

4. Pascual J, Mazuecos A, Sanchez-Antolin G, Sole A, Ventura-Aguir P, Crespo M, Farrero M, Fernandez-Rivera C, Garrido IP, Gea F, Gonzalez-Monte E, Gonzalez-Rodriguez A, Hernandez-Gallego R, Jimenez C, Lopez-Jimenez V, Otero A, Pascual S, Rodriguez-Laiz GP, Ruiz JC, Sancho A, Santos F, Serrano T, Tabernero G, Zarraga S, Delgado JF. Best practices during COVID-19 pandemic in solid organ transplant programs in Spain. TRANSPLANTATION REVIEWS. 2023. DOI: 10.1016/j.trre.2023.100749.

IF: 4 Q2 D4

» ACTIVITY:

- Nº ONGOING PROJECTS: 1
- Nº CLINICAL TRIALS: 3

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. Sociedad Española de Neumología y Cirugía torácica – SEPAR
 2. Asociación de Neumología y Cirugía Torácica del sur – NEUMOSUR
 3. Asociación Española de Endoscopia Respiratoria y Neumología Intervencionista AERS
 4. European Respiratory Society - ERS
 5. PAIDI CTS-992: Incorporación de nuevos métodos diagnósticos y control de terapias respiratorias.
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO-ANTONIO RODRIGUEZ JODAR
- 3 AGREEMENTS WITH COMPANIES

GA05:

STUDY OF GROWTH. ENDOCRINOLOGY AND CHILD NUTRITION

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Ariza	Jiménez	Ana Belén	R4	0000-0002-0585-0886
Jiménez	Reina	Luis	R4	
Cañete	Vázquez	María Dolores	R3	
García	Aldana	David	R3	
García	Martínez	Elena	R3	
Gonzalez de Caldas	Marchal	Rafael	R3	
Martos	Estepa	Rosario	R3	
Parraga	Quiles	M ^a José	R3	
Ruiz	González	M ^a Dolores	R3	
Salas	Rodríguez	Monica	R3	
Tofe	Valera	Inés	R3	
Torres	Borrego	Javier	R3	
Valle	Jiménez	Miguel	R3	
Vázquez	Rueda	Fernando	R3	
Gómez	Guzmán	Elena	R1	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Child obesity	Gene expression
Metabolic syndrome	Proteomics
Diet	Intrauterine-growth-retardation (IUGR)
Endothelium	Growth hormone (GH)
Inflammation	Food allergy
Cardiovascular biomarkers	

» HIGHLIGHTED PUBLICATIONS:

1. Tofe-Valera I, Perez-Navero JL, Caballero-Villarraso J, Canete MD, Villa-Jimenez R, De la Torre-Aguilar MJ. Vitamin D deficiency with high parathyroid hormone levels is related to late onset SEPSIS among preterm infants. BMC PREGNANCY AND CHILDBIRTH. 2023. DOI: 10.1186/s12884-022-05334-2.
IF: 3,1 Q2 D4
2. Valle-Martos R, Jimenez-Reina L, Canete R, Martos R, Valle M, Canete MD. Changes in liver enzymes are associated with changes in insulin resistance, inflammatory biomarkers and leptin in prepubertal children with obesity. Ital J Pediatr. 2023 Mar 9;49(1):29.2023 Mar 9;49(1):29. DOI: 10.1186/s13052-023-01434-7.
IF: 3,6 Q1 D2
3. Dominguez-Riscart J, Ariza-Jimenez AB, Baez-Castillo C, Mateo-Gavira I. Factors associated with knowledge and vaccination intention for human papillomavirus on trans girls by their main caregiver: A cross-sectional study. FRONTIERS IN IMMUNOLOGY. 2023. DOI: 10.3389/fimmu.2023.1097449.
IF: 7,3 Q1 D3
4. Valverde-Molina J, Fernandez-Nieto M, Torres-Borrego J, Blasco JL, de Mir-Messa I, Blanco-Aparicio M, Nieto A, Mulet JF, Moure AL, Sanchez-Herrero MG, Sanchez-Garcia S. Transition of Adolescents With Severe Asthma From Pediatric to Adult Care in Spain: The STAR Consensus. JOURNAL OF INVESTIGATIONAL ALLERGOLOGY AND CLINICAL IMMUNOLOGY. 2023. 179-189. DOI: 10.18176/jiaci.0780.
IF: 7,2 Q1 D2
5. Bustos-Aibar M, Aguilera CM, Alcalda-Fdez J, Ruiz-Ojeda FJ, Plaza-Diaz J, Plaza-Florido A, Tofe I, Gil-Campos M, Gacto MJ, Anguita-Ruiz A. Shared gene expression signatures between visceral adipose and skeletal muscle tissues are associated with cardiometabolic traits in children with obesity. COMPUTERS IN BIOLOGY AND MEDICINE. 2023. -. DOI: 10.1016/j.compbio.2023.107085.
IF: 7,7 Q1 D1

» ACTIVITY:

- N° ONGOING PROJECTS: 2
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 8
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 2
 1. CIBERobn: CIBER on Obesity and Nutrition
 2. PAIDI CTS-329
- 2 AGREEMENTS WITH COMPANIES
- INTERNATIONAL PROJECTS: 1
 1. DAVID GARCIA-ALDANA. Estudio Protocolo UMBRELLA SIOP-RTSG 2016 – Investigación integrada y guías para diagnóstico y terapia estandarizados de tumores de riñón en niños, adolescentes y adultos jóvenes. Código del promotor (German Clinical Trial Register Number): DRKS00011208. UTN: U1111-1196-3034. EUDRACT 2016-004180-39

GA08:

RADIODIAGNOSIS AND BREAST CANCER

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Álvarez	Benito	Marina	R4	0000-0002-0273-3393
Vicente	Rueda	Josefa	R3	
Barranco	Acosta	Sara	R2	
Benito	Ysamat	Alberto	R2	
Blanco	Negrero	Marta	R2	
Bravo	Rey	Isabel María	R2	
Bravo	Rodríguez	Francisco de Asís	R2	
Cara	García	María	R2	
Contreras	De Miguel	Elvira	R2	
Cortés	García	José Ignacio	R2	
Delgado	Acosta	Fernando	R2	
Elias	Cabot	Esperanza	R2	
Escribano	Fernández	José	R2	
Espejo	Herrero	Juan José	R2	
Espejo	Pérez	Simona	R2	
Fernández	López	Isabel María	R2	
Fernández	Ruiz	Benito	R2	
Fernández	Valverde	Francisco	R2	
García	Jurado	Pedro Blas	R2	
García	Ortega	Mª José	R2	
García-Revilla	García	José	R2	
Gordillo	Arnau	José Enrique	R2	
Izquierdo	Palomares	Lucía Nuria	R2	
Jiménez	Gómez	Elvira	R2	
Lombardo	Galera	Mª Sagrario	R2	
López	Ruiz	Daniel	R2	
Martínez	Morillo-Velarde	Belén	R2	
Mesa	Quesada	Juan	R2	
Muñoz	Carrasco	Rafaela	R2	
Muñoz	Sánchez	Raquel	R2	
Oteros	Fernández	Rafael	R2	
Pedrosa	Garriguet	Margarita	R2	
Pérez	Montilla	Mª Eugenia	R2	
Pulido	Carmona	Cristina	R2	
Ramos	Gómez	Manuel	R2	
Raya	Povedano	José	R2	
Romero	Martín	Sara	R2	

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Rudski	Ricondo	Luciana	R2	
Sanabria	Gay	Ana Belén	R2	
Segui	Azpilicueta	Pedro	R2	
Tienda	Flores	Mª José	R2	
Amate	Rivas	Cristina	T	
Cerro	Luna	Ana Isabel	T	
Gallego	Casanueva	Julia	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Stem cells	Therapeutic radiological scans
Arterial ischemia of the lower limbs	Pathochrony
Therapeutic angiogenesis	Radiological assessment of response to drugs
Neoplasms	Diagnostic radiological scans
Demyelinating diseases	

» HIGHLIGHTED PUBLICATIONS:

- Cozzi A, Di Leo G, Houssami N, Gilbert FJ, Helbich TH, Álvarez Benito M, Balleyguier C, Bazzocchi M, Bult P, Calabrese M, Camps Herrero J, Cartia F, Cassano E, Clauser P, de Lima Docema MF, Depretto C, Dominelli V, Forrai G, Girometti R, Harms SE, Hilborne S, Ienzi R, Lobbes MBI, Losio C, Mann RM, Montemezzi S, Obdeijn IM, Ozcan UA, Pediconi F, Pinker K, Preibsch H, Raya Povedano JL, Rossi Saccarelli C, Sacchetto D, Scaperrotta GP, Schlooz M, Szabó BK, Taylor DB, Ulus ÖS, Van Goethem M, Veltman J, Weigel S, Wenkel E, Zuiani C, Sardanelli F. Screening and diagnostic breast MRI: how do they impact surgical treatment? Insights from the MIPA study. *Eur Radiol.* 2023 Sep;33(9):6213-6225. doi: 10.1007/s00330-023-09600-5. Epub 2023 May 3. PMID: 37138190; PMCID: PMC10415233.
IF: 5,9 Q1 D2
- Lopez-Pedrerá C, Oteros R, Ibáñez-Costa A, Luque-Tévar M, Muñoz-Barrera L, Barbarroja N, Chicano-Gálvez E, Marta-Enguita J, Orbe J, Velasco F, Perez-Sanchez C. The thrombus proteome in stroke reveals a key role of the innate immune system and new insights associated with its etiology, severity, and prognosis. *JOURNAL OF THROMBOSIS AND HAEMOSTASIS.* 2023. 2894-2907. DOI: 10.1016/j.jtha.2023.04.015.
IF: 10,4 Q1 D1
- Medina-Rodríguez M, Moniche F, de Albóniga-Chindurza A, Ortega-Quintanilla J, Ainz-Gómez L, Pardo-Galiana B, Cabezas-Rodríguez JA, Aguilar-Pérez M, Zamora A, Delgado-Acosta F, Jiménez-Gómez E, Bravo Rey I, Oteros Fernández R, Freijo Guerrero MDM, González Díaz E, Escudero-Martínez I, Morales Caba L, Vielba-Gomez I, Mosteiro S, Castellanos Rodrigo MDM, Amaya Pascasio L, Hidalgo C, Fernandez Prudencio L, Ramirez Moreno JM, Díaz Pérez J, Sanz-Fernandez G, Baena-Palomino P, Gamero-García MÁ, Jiménez Jorge S, Rosso Fernández C, Montaner J, González García A, Zapata-Arriaza E. Safety and efficacy of tirofiban in acute ischemic stroke due to tandem lesions undergoing mechanical thrombectomy: A multicenter randomized clinical trial (ATILA) protocol. *Eur Stroke J.* 2023 Mar;8(1):380-386. doi: 10.1177/23969873221146383. Epub 2022 Dec 28. PMID: 37021200; PMCID: PMC10069213.
IF: 6,1 Q1 D2

4. Moniche F, Cabezas-Rodriguez JA, Valverde R, Escudero-Martinez I, Lebrato-Hernandez L, Pardo-Galiana B, Ainz L, Medina-Rodriguez M, de la Torre J, Escamilla-Gomez V, Ortega-Quintanilla J, Zapata-Arriaza E, de Alboniga-Chindurza A, Mancha F, Gamero MA, Perez S, Espinosa-Rosso R, Forero-Diaz L, Moya M, Pinero P, Calderon-Cabrera C, Nogueras S, Jimenez R, Martin V, Delgado F, Ochoa-Sepulveda JJ, Quijano B, Mata R, Santos-Gonzalez M, Carmona-Sanchez G, Herrera C, Gonzalez A, Montaner J. Safety and efficacy of intra-arterial bone marrow mononuclear cell transplantation in patients with acute ischaemic stroke in Spain (IBIS trial): a phase 2, randomised, open-label, standard-of-care controlled, multicentre trial. *LANCET NEUROLOGY*. 2023. 137-146. DOI: 10.1016/S1474-4422(22)00526-9.

IF: 48 Q1 D1

5. Lopez-Pedreria C, Patiño-Trives AM, Cerdó T, Ortega-Castro R, Sanchez-Pareja I, Ibañez-Costa A, Muñoz-Barrera L, Ábalos-Aguilera MC, Ruiz-Vilchez D, Seguí Azpilcueta P, Espinosa M, Barbarroja N, Escudero-Contreras A, Castaño JP, Luque RM, Ortega R, Aguirre MA, Perez-Sanchez C. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. *J Autoimmun*. 2023 Feb;135:102990. doi: 10.1016/j.jaut.2022.102990. Epub 2023 Jan 6. PMID: 36621176.

IF: 12,8 Q1 D1

» **CLINICAL GUIDES:**

1. Protocol for colorectal cancer liver metastases. Subcommittee on CRC.

» **ACTIVITY:**

- N° ONGOING PROJECTS: 4
- N° GRANTED PROJECTS IN 2023: 1
- N° CLINICAL TRIALS: 3

» **ADDITIONAL INFORMATION:**

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
- 1. INVEST_SAE22_037 - Programa Investigo SAE 2022 - Julia Gallego Casanueva - CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO – Junta de Andalucía - 07/02/2023 a 30/06/2024
- 9 AGREEMENT WITH COMPANIES

GA09:

CARDIOVASCULAR PATHOLOGY

SCIENTIFIC PROGRAM 5: CHRONIC AND INFLAMMATORY DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Muñoz	Carvajal	Ignacio	R4	0000-0003-3843-8609
Blazquez	Ruiz	María Del Valle	R3	
Casares	Mediavilla	Jaime Guillermo	R3	
Chacón	Quevedo	Antonio	R3	
De la Fuente	Martos	Carmen	R3	
Elías	Fuentes	Agustin	R3	
Hervás	Sotomayor	Daniela	R3	
Jimenez	Castilla	Agustina	R3	
Moya	González	Javier	R3	
Pernia	Oreña	Isabel	R3	
Sartor	Sartor	Lucio	R3	
Alados	Arboledas	Pedro José	R2	
Merino	Cejas	Carlos Manuel	R2	
Zurita	Martínez	Federico	R2	
Conejero	Jurado	María Teresa	R1	
Abril	Ramírez	Cristina	R1	
Alcaide	Mayayo	Inmaculada	R1	
Alonso	Muñoz	Gema	R1	
Batista	Castañeda	Sara Amalia	R1	
Bilbao	Carrasco	Lucía	R1	
Cabrera	Arenas	Inmaculada	R1	
Caliz	Fuentes	Javier	R1	
Corral	Del Águila	Antonio	R1	
Domínguez	Del Castillo	José Joaquín	R1	
González-Caldevilla	Fernández	Alejandro	R1	
Illanes	Rosales	Andrés	R1	
Jiménez	Sánchez	Mercedes	R1	
Jurado	Morata	Aurea	R1	
López	Romero	Rosalía	R1	
Mejura	Chávez	Paula Natalia	R1	
Torres	Delgado	Eva María	R1	
Riballo	Cortes	Raquel	N	
Ferres	Serrano	Juan José	T	
López	Jurado	Diego	T	
Sereno	Rodríguez	Alejandro	T	
Carmona	Trigo	María del Carmen	ADM	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Cardiovascular	Cardiac Surgery
Pathology	Vascular Surgery

» HIGHLIGHTED PUBLICATIONS:

1. Barge-Caballero E, Gonzalez-Vilchez F, Almenar-Bonet L, Carmena MDGC, Gonzalez-Costello J, Gomez-Bueno M, Castel-Lavilla MA, Lambert-Rodriguez JL, Martinez-Selles M, Mirabet-Perez S, De la Fuente-Galan LD, Hervas-Sotomayor D, Rangel-Sousa D, Garrido-Bravo IP, Blasco-Peiro T, Juan-Aracil GR, Muniz J, Crespo-Leiro MG. Temporal trends in the use and outcomes of temporary mechanical circulatory support as a bridge to cardiac transplantation in Spain. Final report of the ASIS-TC study. JOURNAL OF HEART AND LUNG TRANSPLANTATION. 2023. 488-502. DOI: 10.1016/j.healun.2022.10.020.
IF: 8,9 Q1 D1
2. Menendez JJ, Sanchez-Galindo AC, Balcells J, Tejero-Hernandez MA, Ferrer-Barba A, Ibiza-Palacios E, Medrano-Lopez C, Gran F, Frias-Perez MA, Garcia-Vieites M, Cano-Sanchez A, Polo L, Gil-Jaurena JM, Abella RF, Merino-Cejas C, Martinez-Bendayan I, Serrano F, Garcia-Guereta L. Short- and long-term survival of children treated with ventricular assist devices in Spain, based on 15 years' experience. EUROPEAN JOURNAL OF CARDIO-THORACIC SURGERY. 2023. -. DOI: 10.1093/ejcts/ezad050.
IF: 3,4 Q1 D2
3. Alvarez-Heredia P, Dominguez-del-Castillo JJ, Reina-Alfonso I, Gutierrez-Gonzalez C, Hassounah F, Batista-Duharte A, Trujillo-Aguilera A, Lopez-Romero R, Munoz I, Solana R, Pera A. A Straightforward Cytometry-Based Protocol for the Comprehensive Analysis of the Inflammatory Valve Infiltrate in Aortic Stenosis. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. -. DOI: 10.3390/ijms24032194.
IF: 5,6 Q1 D3
4. Hernandez-Vaquero D, Rodriguez-Caulo E, Vigil-Escalera C, Blanco-Herrera O, Berastegui E, Arias-Dachary J, Souaf S, Parody G, Laguna G, Adsuar A, Castella M, Valderrama JF, Pulitani I, Canovas S, Ferreiro A, Garcia-Valentin A, Carnero M, Pareja P, Corrales JA, Blazquez JA, Macias D, Fletcher-Sanfeliu D, Martinez D, Martin E, Martin M, Margarit J, Hernandez-Estefania R, Monguio E, Otero J, Silva J. Life expectancy after surgical aortic valve replacement for low-gradient aortic stenosis with preserved ejection fraction. REVISTA ESPANOLA DE CARDIOLOGIA. 2023. 32-39. DOI: 10.1016/j.recesp.2022.04.025.
IF: 3,2 Q2 D4

» ACTIVITY:

- Nº ONGOING PROJECTS: 2
- Nº CLINICAL TRIALS: 7

» ADDITIONAL INFORMATION:

- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
- 1. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ANDRES ILLANES ROSALES
- 2 AGREEMENTS WITH COMPANIES

GA10:

NUCLEAR MEDICINE

SCIENTIFIC PROGRAM 4: CANCER (ONCOLOGY AND ONCOHEMATOLOGY)

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Vallejo	Casas	Juan Antonio	R3	0000-0002-0315-0157
Moreno	Ortega	Estefanía	R3	
Albalá	González	Mª Dolores	R2	
Benítez	Velasco	Ana	R1	
Guiote	Moreno	Mª Victoria	R1	
López	Cano	Álvaro	R1	
Maza	Muret	Francisco Roberto	R1	
Rodríguez	Cáceres	Ester	R1	
Santos	Bueno	Antonio María	R1	
Tejerina	Tejerina	Sergio	R1	
Tercero	Garrido	Desirée	R1	
Vallejo	Lesmes	Ana	R1	
Zurera	Pareja	Rocío	R1	
Labraca	García	Juan	N	
Gómez	Jurado	Carlos	T	
Martín	Ruiz	Antonio	T	
Moriana	Porras	Mª del Carmen	T	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Nuclear Medicine	SPECT/CT
PET/CT	Oncology

» HIGHLIGHTED PUBLICATIONS:

1. Oprea-Lager DE, Gontier E, García-Cañamaque L, Gauthé M, Olivier P, Mitjavila M, Tamayo P, Robin P, Vicente AMG, Bouyeure AC, Bailliez A, Rodríguez-Fernández A, Ben Mahmoud S, Vallejo-Casas JA, Maksud P, Merlin C, Blanc-Durand P, Drouet C, Tissot H, Vierasu I, Borghet TV, Boos E, Chossat F, Hodolic M, Rousseau C. [18F]DCFPyL PET/CT versus [18F] fluoromethylcholine PET/CT in Biochemical Recurrence of Prostate Cancer (PYTHON): a prospective, open label, cross-over, comparative study. EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING. 2023. 3439-3451. DOI: 10.1007/s00259-023-06301-5.

IF: 9,1 Q1 D1

2. Raya-Cano E, Molina-Luque R, Vaquero-Abellán M, Molina-Recio G, Jiménez-Mérida R, Romero-Saldaña M. Metabolic syndrome and transaminases: systematic review and meta-analysis. DIABETOLOGY & METABOLIC SYNDROME. 2023. -. DOI: 10.1186/s13098-023-01200-z.

IF: 4,8 Q2 D3

3. Castillo-Secilla D, Galvez JM, Carrillo-Perez F, Prieto-Prieto JC, Valenzuela O, Herrera LJ, Rojas I. Comprehensive Pan-cancer Gene Signature Assessment through the Implementation of a Cascade Machine Learning System. CURRENT BIOINFORMATICS. 2023. 40-54. DOI: 10.2174/1574893617666220421100512.

IF: 4 Q2 D3

» ADDITIONAL INFORMATION:

- 3 AGREEMENTS WITH COMPANIES

GA11:

LEARNING AND ARTIFICIAL NEURAL NETWORKS

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Hervás	Martínez	César	R4	0000-0001-5549-2848
Gutiérrez	Peña	Pedro Antonio	R4	
Fernández	Caballero	Juan Carlos	R3	
Rodero	Cosano	M ^a Luisa	R3	
Salinas	Pérez	José Alberto	R3	
Sánchez	Monedero	Javier	R3	
Torres	Jiménez	Mercedes	R3	
Guijo	Rubio	David	R2	
Durán	Rosal	Antonio M	R2	
Vargas	Yun	Victor	R2	
Ayllón	Gavilán	Rafael	R1	
Bérchez	Moreno	Francisco	R1	
Gómez	Orellana	Antonio	R1	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Ordinal classification	Convolutional Neural Networks
Artificial neural networks	Scores for liver transplantation
Processing of biomedical images	Explainable artificial intelligence models
Time series segmentation	Regression models
Ordinal regression	Evolutionary computation

» HIGHLIGHTED PUBLICATIONS:

1. Rodriguez-Peralvarez ML, Gomez-Orellana AM, Majumdar A, Bailey M, McCaughan GW, Gow P, Guerrero M, Taylor R, Guijo-Rubio D, Hervas-Martinez C, Tsochatzis EA. Development and validation of the Gender-Equity Model for Liver Allocation (GEMA) to prioritise candidates for liver transplantation: a cohort study. LANCET GASTROENTEROLOGY & HEPATOLOGY. 2023. 242-252. DOI: 10.1016/S2468-1253(22)00354-5.
IF: 35,7 Q1 D1
2. Diaz-Lozano M, Guijo-Rubio D, Gutierrez PA, Hervas-Martinez C. Cluster analysis and forecasting of viruses incidence growth curves: Application to SARS-CoV-2. EXPERT SYSTEMS WITH APPLICATIONS. 2023. DOI: 10.1016/j.eswa.2023.120103.
IF: 8,5 Q1 D1
3. Vargas VM, Gutierrez PA, Barbero-Gomez J, Hervas-Martinez C. Soft labelling based on triangular distributions for ordinal classification. INFORMATION FUSION. 2023. 258-267. DOI: 10.1016/j.inffus.2023.01.003.
IF: 18,6 Q1 D1
4. Vargas VM, Gutierrez PA, Barbero-Gomez J, Hervas-Martinez C. Activation Functions for Convolutional Neural Networks: Proposals and Experimental Study. IEEE TRANSACTIONS ON NEURAL NETWORKS AND LEARNING SYSTEMS. 2023. 1478-1488. DOI: 10.1109/TNNLS.2021.3105444.
IF: 10,4 Q1 D1
5. Vargas VM, Gutierrez PA, Rosati R, Romeo L, Frontoni E, Hervas-Martinez C. Deep learning based hierarchical classifier for weapon stock aesthetic quality control assessment. COMPUTERS IN INDUSTRY. 2023. DOI: 10.1016/j.compind.2022.103786.
IF: 10 Q1 D1

» ACTIVITY:

- N° ONGOING PROJECTS: 1
- N° PHD THESES: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 1
 1. PAIDI TIC-148
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 4
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACIÓN Y TRABAJO AUTÓNOMO-FRANCISCO BÉRCHEZ MORENO
 2. Consejería de Transformación Económica, Industria, Conocimiento y Universidades de la Junta de Andalucía – Antonio Manuel Gómez Orellana (Ref. PREDOC-00489).
 3. Juan de la Cierva, financiado por la Agencia Estatal de Investigación (España) MCIU/AEI/10.13039/501100011033 y la Unión Europea NextGenerationEU/PRTR – David Guijo Rubio (Ref. JDC2022-048378-I).
 4. Programa Beatriz Galindo, Ministerio de Ciencia, Innovación y Universidades - Javier Sánchez Monedero.
- AWARDS: 1
 1. Víctor Manuel Vargas Yun; PREMIO EXTRAORDINARIO DE DOCTORADO; UNIVERSIDAD DE CÓRDOBA

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Sarramea	Crespo	Fernando	R3	0000-0003-0457-2340
Gutiérrez	Rojas	Luis	R3	
Luque	Luque	Rogelio	R3	
Alcalá	Partera	José Ángel	R2	
Jaén	Moreno	M ^a José	R2	
Moreno	Campos	Antonio Jesús	R2	
Prados	Ojeda	Juan Luis	R2	
Alcántara	García	Montserrat	R1	
Arribas	Lozano	Teresa	R1	
Blanco	Quesada	Francisca	R1	
Camacho	Rodríguez	Cristina	R1	
Canalejo	Rodríguez	Ana Isabel	R1	
Carrión	Expósito	Laura	R1	
Castellano	Palma	Ana María	R1	
Chauca	Chauca	Geli Marie	R1	
Del Pozo	Seseña	Gloria Isabel	R1	
Espejo	Obejo	M ^a Teresa	R1	
Gómez	Moreno	Cristina	R1	
Laguna	Muñoz	David	R1	
Mellado	Martínez	M ^a José	R1	
Montiel	López	Francisco Javier	R1	
Ortiz	Alfaro	M ^a José	R1	
Osuna	Carmona	Maribel	R1	
Padilla	Obrero	Leonor	R1	
Polonio	De Dios	Inmaculada	R1	
Prada	Carrasco	Carmen	R1	
Redondo	Ecija	Justa	R1	
Rivera	Hidalgo	M ^a Luisa	R1	
Ruiz	Rull	Cristina Esther	R1	
Sánchez	Gallardo	Sonia	R1	
Sánchez	Rodríguez	Araceli	R1	
Valdivia	Romero	Francisca	R1	
Marco	Feced	M ^a Amparo	N	
Serrano	Gómez	Inmaculada	N	
Torrecillas	Limonchi	M ^a Inmaculada	N	

» SCIENTIFIC PRODUCTION



PUBLICATIONS

» KEYWORDS:

Severe mental disorder	Mortality
Schizophrenia	Readiness to change
Bipolar disorder	Chronic obstructive pulmonary disease
Tobacco cessation	Screening

» HIGHLIGHTED PUBLICATIONS:

1. Jaen-Moreno MJ, Rico-Villademoros F, Ruiz-Rull C, Laguna-Munoz D, del Pozo GI, Sarramea F. A Systematic Review on the Association between Schizophrenia and Bipolar Disorder with Chronic Obstructive Pulmonary Disease. COPD-JOURNAL OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE. 2023. 31-43. DOI: 10.1080/15412555.2022.2154646.

IF: 2,2 Q4

» ACTIVITY:

- N° ONGOING PROJECTS: 1
- N° CLINICAL TRIALS: 2

» ADDITIONAL INFORMATION:

- NETWORKS: 3
 1. CIBERSAM (Grupo 05)
 2. PAIDI CTS 550
 3. GETBA (Grupo para el Estudio del Trastorno bipolar en Andalucía)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO- CRISTINA CAMACHO RODRIGUEZ
- 2 AGREEMENTS WITH COMPANIES

GA13:

PREVENTIVE MEDICINE AND PUBLIC HEALTH

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Salcedo	Leal	M ^a Inmaculada	R3	0000-0002-0864-6856
Barranco	Quintana	José Luis	R3	
Farouk	Allam	Mohamed	R3	
Onieva	García	María de los Ángeles	R2	
Fernández	Antolí	María Pilar	R1	
González	Morales	Laura	R1	
Guillén	Climent	Silvia	R1	
López	Cabrera	Estefanía	R1	
Lorusso		Nicola	R1	
Montalvo	Pérez	Julia	R1	
Monserrat	Villatoro	Jaime	R1	
Moñiz	Díez	Ana María	R1	
Ortiz	González-Serna	Rocío	R1	
Ropero	Guerrero	Gregoria	R1	
Rubio	Osuna	Francisco	R1	
Ruiz	Montero	Rafael	R1	
Serrano	Ortiz	Álvaro	R1	
Ropero	Guerrero	Gregoria	R1	

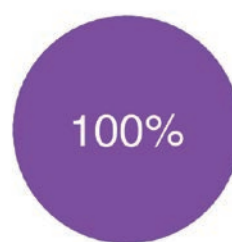
» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Public Health	Vaccine uptake
Healthcare associated infections	Adherence
Vaccination	Environmental Biosafety

» HIGHLIGHTED PUBLICATIONS:

1. Castilla J, Cenoz MG, Abad R, Sanchez-Cambronero L, Lorusso N, Izquierdo C, Llabres SC, Roig J, Malvar A, Carril FG, Boone ALD, Martin JP, Recio MJR, Galmes A, Caballero A, Rojas AG, Juanas F, Nieto M, Raymundo LJ, Ochoa EM, Rivas AI, Castrillejo D, Perez DM, Martinez A, Borrás E, Gomez AS, Pastor E, Nartallo V, Arteagoitia JM, Alvarez-Fernandez B, Pina RG, Arribas SF, Vanrell J, Hernandez SG, Mendoza RM, Mendez M, Lopez-Tercero MM, Fernandez-Rodriguez A, Blanco A, de Albornoz FJC, Olivares JR, Ruiz-Montero R, Limia A, Navarro-Alonso JA, Vazquez JA, Barricarte A. Effectiveness of a Meningococcal Group B Vaccine (4CMenB) in Children. NEW ENGLAND JOURNAL OF MEDICINE. 2023. 427-438. DOI: 10.1056/NEJMoa2206433.
IF: 158,5 Q1 D1
2. Fernández-Martínez NF, Rivera-Izquierdo M, Ortiz-González-Serna R, Martínez-Ruiz V, Lardelli-Claret P, Aginagalde-Llorente AH, Valero-Ubierna MD, Vergara-Díaz MA, Lorusso N. Healthcare-associated infections by multidrug-resistant bacteria in Andalusia, Spain, 2014 to 2021. EUROSURVEILLANCE. 2023. DOI: 10.2807/1560-7917.ES.2023.28.39.2200805.
IF: 19 Q1 D1
3. Rivera-Izquierdo M, Galicia-Garcia MD, Lainez-Ramos-Bossini AJ, Redruello-Guerrero P, Fernandez-Martinez NF. Risk factors associated with early mortality after recovery from severe listeriosis: a multicentre 17-year longitudinal study. INFECTION. 2023. 181-191. DOI: 10.1007/s15010-022-01872-1.
IF: 7,5 Q1 D2
4. Cantero M, Jimenez E, Parra LM, Salcedo-Leal I, Orti-Lucas RM, Asensio A, EPINE Study Grp. Trends of antimicrobial use through selected antimicrobial indicators in Spanish hospitals, 2012 to 2021. JOURNAL OF HOSPITAL INFECTION. 2023. 19-26. DOI: 10.1016/j.jhin.2023.05.015.
IF: 6,9 Q1 D2
5. Martinez DAS, Picazo JPC, Porter PDE, Ruiz-Montero R, Llorente AHA, Garcia-Camacho E, Navarro J, del Campo AC. Resident physician duty hours, resting times and European Working Time Directive compliance in Spain: a cross-sectional study. HUMAN RESOURCES FOR HEALTH. 2023. -. DOI: 10.1186/s12960-023-00857-x.
IF: 4,5 Q1 D1

» ACTIVITY:

- N° CLINICAL TRIALS: 1

» ADDITIONAL INFORMATION:

- NETWORKS: 3
 1. Sociedad Andaluza de Medicina Preventiva y Salud Pública (SAMPSP).
 2. Consejería de Salud y Familias de la Junta de Andalucía. Dirección General de Salud Pública.
 3. Sociedad Española de Medicina Preventiva y Salud Pública e higiene (SEMPSPH).
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
 1. PROGRAMA INVESTIGO 2022-1. Funding Agency: MINISTERIO DE TRABAJO Y ECONOMÍA SOCIAL- ANA MARÍA MOÑIZ DIEZ
- 1 AGREEMENT WITH COMPANIES
- INTERNATIONAL PROJECTS: 1
 1. MARÍA INMACULADA SALCEDO LEAL. REVERSE - pREvention and management tools for rEDucing antibiotic Resistance in high prevalence Settings. Funding Agency: COMISIÓN EUROPEA. Reference: BHC34-2020-01
- AWARDS: 2
 1. Premio José María Mayoral de vigilancia en Salud Pública 2023. SOCIEDAD ESPAÑOLA DE EPIDEMIOLOGÍA
 2. II Premios nacionales de investigación en atención primaria, atención primaria rural, urgencias, emergencias y otras administraciones. Ilustre Colegio Oficial de Médicos de Córdoba

GA14:

IMMUNOGENOMICS AND MOLECULAR PATHOGENESIS

SCIENTIFIC PROGRAM 3: INFECTIOUS AND IMMUNOLOGICAL DISEASES AND ORGAN TRANSPLANTATION

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Garrido	Pavón	Juan José	R4	0000-0001-6592-2231
Montoya	González	María	R4	
Argüello	Rodríguez	Hector	R3	
García	García	Tránsito	R3	
Moreno	López	Ángela	R3	
Rodríguez	Ortega	Manuel José	R3	
Zaldivar	López	Sara	R3	
Jiménez	Marín	Ángeles	R2	
Morera	Sanz	Luis	R2	
Entrenas	García	Carmen	R1	
Fernández	Rodríguez	Raúl	R1	
Martínez	Ruiz	Sergio	R1	
Ortiz	Sanjuán	Juan Manuel	R1	
Suárez	Cárdenas	José Manuel	R1	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

Host-Microbiome-Pathogen Interplay	Intestinal Immunity
Inflammatory Response	Immunometabolism
SARS-CoV-2 Accessory Proteins	MicroARNs and Immunity
Extracellular vesicles / Exosomes	Microbiota
Enterobacterial infections	Organoids

» HIGHLIGHTED PUBLICATIONS:

1. Zaldivar-Lopez S, Herrera-Urbe J, Bautista R, Jimenez A, Moreno A, Claros MG, Garrido JJ. Salmonella Typhimurium induces genome-wide expression and phosphorylation changes that modulate immune response, intracellular survival and vesicle transport in infected neutrophils. DEVELOPMENTAL AND COMPARATIVE IMMUNOLOGY. 2023. -. DOI: 10.1016/j.dci.2022.104597.
IF: 2,9 Q1 D1
2. Lopez-Ayllon BD, de Lucas-Rius A, Mendoza-Garcia L, Garcia-Garcia T, Fernandez-Rodriguez R, Suarez-Cardenas JM, Santos FM, Corrales F, Redondo N, Pedrucci F, Zaldivar-Lopez S, Jimenez-Marin A, Garrido JJ, Montoya M. SARS-CoV-2 accessory proteins involvement in inflammatory and profibrotic processes through IL11 signaling. FRONTIERS IN IMMUNOLOGY. 2023. -. DOI: 10.3389/fimmu.2023.1220306.
IF: 7,3 Q1 D3
3. Sargas C, Ayala R, Larrayoz MJ, Chillon MC, Rodriguez-Arboli E, Bilbao C, de la Torre EP, Martinez-Cuadron D, Rodriguez-Veiga R, Boluda B, Gil C, Bernal T, Bergua J, Algarra L, Tormo M, Martinez-Sanchez P, Soria E, Serrano J, Alonso-Dominguez JM, Garcia R, Amigo ML, Herrera-Puente P, Sayas MJ, Lavilla-Rubira E, Martinez-Lopez J, Calasanz MJ, Garcia-Sanz R, Perez-Simon JA, Casares MTG, Sanchez-Garcia J, Barragan E, Montesinos P. Comparison of the 2022 and 2017 European LeukemiaNet risk classifications in a real-life cohort of the PETHEMA group. BLOOD CANCER JOURNAL. 2023. -. DOI: 10.1038/s41408-023-00835-5.
IF: 12,8 Q1 D1
4. Sargas C, Ayala R, Larrayoz MJ, Chillon MC, Carrillo-Cruz E, Bilbao-Sieyro C, de la Torre EP, Martinez-Cuadron D, Rodriguez-Veiga R, Boluda B, Gil C, Bernal T, Bergua JM, Algarra L, Tormo M, Martinez-Sanchez P, Soria E, Serrano J, Alonso-Dominguez JM, Garcia-Boyero R, Amigo ML, Herrera-Puente P, Sayas MJ, Lavilla-Rubira E, Martinez-Lopez J, Calasanz MJ, Garcia-Sanz R, Perez-Simon JA, Gomez-Casares MT, Sanchez-Garcia J, Barragan E, Montesinos P. Molecular Landscape and Validation of New Genomic Classification in 2668 Adult AML Patients: Real Life Data from the PETHEMA Registry. CANCERS. 2023. -. DOI: 10.3390/cancers15020438.
IF: 5,2 Q2 D3
5. Aparicio-Perez C, de la Torre EP, Sanchez-Garcia J, Martin-Calvo C, Martinez-Losada C, Casano-Sanchez J, Serrano-Lopez J, Serrano J. Evolving Risk Classifications in AML in a Real-Life Scenario: After Changes upon Changes, Is It More and More Adverse?. CANCERS. 2023. -. DOI: 10.3390/cancers15051425.
IF: 5,2 Q2 D3

» ADDITIONAL INFORMATION:

• NETWORKS: 1_

1. Red de Investigación en Sanidad Animal. Convocatoria de Redes Temáticas de Investigación del Ministerio de Economía, Industria y Competitividad.

GA15:

FOODS FOR HEALTH

SCIENTIFIC PROGRAM 2: NUTRITION AND ENDOCRINE AND METABOLIC DISEASES

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Moreno	Rojas	Rafael	R3	0000-0003-3134-7392
Camara	Martos	Fernando	R3	
De Haro	Bailón	Antonio	R3	
Moreno	Rojas	Jose Manuel	R3	
Obregón	Cano	Sara	R3	
Pereira	Caro	M ^a Gema	R3	
Hernández	Reyes	Alberto	R2	
Moreno	Ortega	Alicia	R2	

» SCIENTIFIC PRODUCTION



» KEYWORDS:

Polyphenols	In vitro digestion
Carotenoids	Design of new foods
Bioavailability	Functional foods
Bioaccessibility	Antinutritive compounds
Biological activity	Plant breeding
Glucosinolates	Fatty acids
Fibre	Brassica
Turnip tops	Mustards
Near infrared reflectance spectroscopy	Borage
Gamma linolenic acid	Mineral
Gastronomy	

» HIGHLIGHTED PUBLICATIONS:

1. Grenha, A., Guerreiro, F., Lourenço, J.P., Lopes, J.A., Cámara-Martos, F. (2023). Microencapsulation of selenium by spray-drying as a tool to improve bioaccessibility in food matrix, *Food Chemistry*, 402, 134463. <https://doi.org/10.1016/j.foodchem.2022.134463>.
IF: 8,5 Q1 D1
2. Martínez – Castro, J., De Haro – Bailón, A., Obregón – Cano, S., García – Magdaleno, I.M., Moreno – Ortega, A., & Cámara – Martos, F. (2023). Bioaccessibility of glucosinolates, isothiocyanates and inorganic micronutrients in cruciferous vegetables through INFOGEST static in vitro digestion model. *Food Research International*, 166, 112598. <https://doi.org/10.1016/j.foodres.2023.112598>.
IF: 7 Q1 D1
3. Moreno-Ortega A, Pereira-Caro G, Ludwig IA, Motilva MJ, Moreno-Rojas JM. Bioavailability of Organosulfur Compounds after the Ingestion of Black Garlic by Healthy Humans. *ANTIOXIDANTS*. 2023. -. DOI: 10.3390/antiox12040925.
IF: 7 Q1 D1
4. González-Mas N, Cuenca-Medina M, García-Mozo H, Muñoz-Redondo JM, Moreno-Rojas JM, Padilla-Alvarez F, Rodríguez-Gómez IM, Quesada-Moraga E. Endophytic *Beauveria bassiana* modifies flowering phenology, floral volatile profile and pollinator behaviour in melon. *ENTOMOLOGIA GENERALIS*. 2023. 961-969. DOI: 10.1127/entomologia/2023/1991.
IF: 6,9 Q1 D1
5. Pereira-Caro G, Almutairi TM, Caceres-Jimenez S, Moreno-Rojas JM, Malkova D, Garcia AL, Crozier A. Bioavailability of orange juice (poly)phenols: β -glucan-rich oat bran decreases urinary excretion of flavanone phase II metabolites and enhances excretion of microbiota-derived phenolic catabolites. *FREE RADICAL BIOLOGY AND MEDICINE*. 2023. 34-43. DOI: 10.1016/j.freeradbiomed.2023.02.002.
IF: 7,4 Q1 D2

» ACTIVITY:

- N° ONGOING PROJECTS: 5

» ADDITIONAL INFORMATION:

- NETWORKS: 3

1. Grupo PAIDI AGR-241: Tecnología poscosecha e industria agroalimentaria. Director: José Manuel Moreno Rojas
2. Grupo PAIDI AGR 013. Calidad Alimentaria y Nutrición. Director: Manuel A. Amaro López
3. Grupo AGR 118. Mejora y agronomía plantas oleaginosas. Director: Juan Domínguez Giménez

- 3 AGREEMENTS WITH COMPANIES

- INTERNATIONAL PROJECTS: 1

1. Ana María Torres; Breeding European Legumes for increased sustainability; HORIZON-CL6-2022-BIODIV-02 AWARDS

GA16:

LIFESTYLES, INNOVATION AND HEALTH

SCIENTIFIC PROGRAM 1: ACTIVE AGEING AND FRAILTY

» TEAM

FAMILY NAME		FIRST NAME	EURAXESS CATEGORY	ORCID
Molina	Recio	Guillermo	R3	0000-0002-0005-4901
Martínez	Pérez	Hector	R3	
Olivares	Bueno	Joaquín	R3	
Palomares	Muñoz	Jose Manuel	R3	
García	Rodríguez	María	R2	
León	García	Fernando	R2	
Luque	Alcaraz	Olga María	R2	
Menese	Monroy	Alfonso	R2	
Molina	Luque	Rafael	R2	
Romero	Saldaña	Manuel	R2	
Vargas	Martínez	Ana Magdalena	R2	
Villena	Esponera	Mª Pilar	R2	
Aguilera	López	María Dolores	R1	
Arias	Latorre	María Teresa	R1	
Cuellár	Padilla	Joaquín	R1	
González	Caballero	Antonio	R1	
López	González	Julio Roberto	R1	
Martínez	Sánchez	Lago Rafael	R1	
Membrillo	Del Pozo	Alberto	R1	
Vega-Leal	Pla	Marta	R1	
Zafrilla	Sánchez	Sandra	R1	
Casares	Rodríguez	Irene	T	

» SCIENTIFIC PRODUCTION



PUBLICATIONS



PUBLICATIONS
IN FIRST DECILE



PUBLICATIONS
IN FIRST QUARTILE

» KEYWORDS:

mHealth	International cooperation
eHealth	Prevention
Cardiovascular health	Occupational health
Nutrition	Predictive models
Health promotion	Non-invasive techniques
Critical care	Internet of things
Algorithm and hardware optimization	Artificial Intelligence

» HIGHLIGHTED PUBLICATIONS:

1. Molina-Luque R, Molina-Recio G, de-Pedro-Jiménez D, Fernández CA, García-Rodríguez M, Romero-Saldaña M. The Impact of Metabolic Syndrome Risk Factors on Lung Function Impairment: Cross-Sectional Study. JMIR PUBLIC HEALTH AND SURVEILLANCE. 2023. DOI: 10.2196/43737.
IF: 8,5 Q1 D1
2. Guzmán-García JM, Romero-Saldaña M, Molina-Recio G, Fonseca-del Pozo FJ, Raya-Cano E, Molina-Luque R. Diagnostic accuracy of anthropometric indices for metabolically healthy obesity in child and adolescent population. PEDIATRIC RESEARCH. 2023. 1824-1831. DOI: 10.1038/s41390-023-02693-0.
IF: 3,6 Q1 D2
3. Meneses-Urrea LA, Vaquero-Abellan M, Arenas DV, Sandoval NB, Hernandez-Carrillo M, Molina-Recio G. Factors Associated with Dietary Patterns in Colombia. NUTRIENTS. 2023. DOI: 10.3390/nu15092079.
IF: 5,9 Q1 D2
4. Naranjo-Rojas A, Perula-de Torres LÁ, Cruz-Mosquera FE, Molina-Recio G. Usability of a mobile application for the clinical follow-up of patients with chronic obstructive pulmonary disease and home oxygen therapy. Int J Med Inform. 2023 Jul;175:105089. DOI: 10.1016/j.ijmedinf.2023.105089.
IF: 4,9 Q1 D2
5. Alcaide-Leyva JM, Romero-Saldana M, Garcia-Rodriguez M, Molina-Luque R, Jimenez-Merida R, Molina-Recio G. Development of a Predictive Model of Cardiovascular Risk in a Male Population from the Peruvian Amazon. JOURNAL OF CLINICAL MEDICINE. 2023. DOI: 10.3390/jcm12093199.
IF: 3,9 Q2 D4

» ACTIVITY:

- N° ONGOING PROJECTS: 1
- N° PHD THESES: 4

» ADDITIONAL INFORMATION:

- NETWORKS: 5
 1. Red de Investigación en Enfermería de Salud Ocupacional - "REDENSO"
 2. Research groups pertaining to the Andalusian Plan for Research, Development and Innovation (PAIDI):
 - a. HUM-298
 - b. AGR-13
 - c. TEP-226 (PRINIA)
 - d. TIC-252 (GIIA)
- COMPETITIVE FUNDING OBTAINED FOR CONTRACTS: 1
 1. PROGRAMA INVESTIGO 2022. Funding Agency: CONSEJERÍA DE EMPLEO, FORMACION Y TRABAJO AUTÓNOMO-IRENE CASARES RODRIGUEZ

PLATFORMS AND
NETWORKS

9

IMIBIC researchers are involved in a wide range of strategic initiatives coordinated by the National Institute of Health Carlos III (ISCIII). These include the Thematic Networks for Cooperative Research in Health (*Redes Temáticas de Investigación Cooperativa en Salud*: RETICs) and the Networked Biomedical Research Centers (*Centros de Investigación Biomédica en Red*: CIBERs), among others. IMIBIC is also part of two European research infrastructures (EATRIS & ECRIN) and several other national and international networks.

Of the 48 groups integrated within the IMIBIC, sixteen are involved in 16 different RETICs, fifteen are involved in 8 CIBERs (including the newly created CIBERinfec) and there are 34 groups involved in the Andalusian Plan for Research, Development & Innovation (PAIDI Programme).

CIBER



RETICS






Spanish
Clinical
Research
Network
ISCIII





EUROPEAN CLINICAL RESEARCH
INFRASTRUCTURE NETWORK




Red de investigación
en Sanidad Animal




Transnational Genomic Network



Sociedad Española
de **Neumología**
y **Cirugía Torácica**
SEPAR




SOCIEDAD
ESPAÑOLA
DE CIRUGÍA
TORÁCICA



Grupo de Estudio del
Trastorno Bipolar en Andalucía



sampspgs



Sociedad Española
Medicina Preventiva,
Salud Pública y Gestión Sanitaria



Leading European Reprology



Peritoneal Surface Oncology
PSOGI
Group International



SEProt
Sociedad Española
de Proteómica



GRUPO ESPAÑOL DE TRABAJO
EN ENFERMEDAD DE CROHN Y
COLITIS ULCEROSA



COMBACTE
NET



COMBACTE
CARE




investigación en
cáncer de mama



Grupo de Tratamiento de los Tumores Digestivos



Grupo Español de
Investigación en
Cáncer de Ovario



lung cancer
research



GRUPO ESPAÑOL DE INVESTIGACIÓN EN SARCOMAS



INVESTIGAR - APRENDER - DIVULGAR - CURAR



Grupo Español de Tumores
Neuroendocrinos y Endocrinos



EUROPEAN
NEUROENDOCRINE
TUMOR SOCIETY



European Society
of Endocrinology
The voice for endocrinology



METAnetwork



SOCIEDAD ESPAÑOLA
DE MEDICINA INTERNA



Sociedad Española
de Arteriosclerosis




Sociedad Española de
Endocrinología y Nutrición



Sociedad Andaluza de
Endocrinología, Diabetes y Nutrición



EUROPEAN COOPERATION
IN SCIENCE & TECHNOLOGY




GRUPO ESPAÑOL DE SÍNDROMES MIELODISPLÁSICOS



Cochrane
Skin

CIBER PROGRAM

Our researchers lead or participate in the following CIBER nodes:

1 CIBER ON OBESITY AND NUTRITION (CIBEROBN)

Dr. José López Miranda

Dr. Manuel Tena Sempere

Dra. María Mercedes Gil Campos

Dra. M^a Mar Malagón Poyato

Dr. Justo P. Castaño Fuentes

Dr. Raúl M. Luque Huertas

2 CIBER ON LIVER AND DIGESTIVE DISEASES (CIBEREHD)

Dr. Manuel de la Mata García

Dr. Francisco Javier Briceño Delgado

3 CIBER ON RARE DISEASES (CIBERER)

Dr. Eduardo López Laso

4 CIBER ON FRAGILITY AND HEALTHY AGING (CIBERFES)

Dr. Feliciano Priego Capote

Dr. Antonio Casado Díaz

Dr. Manuel Rich Ruiz

5 CIBER ON CANCER (CIBERONC)

Dr. Enrique Aranda Aguilar

6 CIBER ON MENTAL HEALTH (CIBERSAM)

Dr. Fernando Sarraimea Crespo

7 CIBER ON CARDIOVASCULAR DISEASES (CIBERCV)

Dr. Juan Antonio Moreno Gutiérrez

8 CIBER ON INFECTIOUS DISEASES (CIBERINFEC)

Dr. Antonio Rivero Román

Dr. Julián de la Torre Cisneros

RETICS

ISCIII Networks for Cooperative Research in Health that IMIBIC is involved in:

1	AIDS Research Network (RIS)
	Dr. Antonio Rivero Román
2	The Spanish Renal Research Network (REDinREN)
	Dr. Alejandro Martín Malo
	Dr. Mariano Rodríguez Portillo
3	Spanish Network for Research in Infectious Diseases (REIPI)
	Dr. Julián de la Torre Cisneros
	Dr. Rafael Solana Lara
	Dr. Luis Martínez Martínez
4	Primary Care Prevention and Health Promotion Network (RedIAPP)
	Dr. Esperanza Romero Rodríguez
5	Spanish Network for Asthma, Adverse and Allergic Reactions (ARADYAL)
	Dra. Carmen Moreno Aguilar
6	The Research Network for Inflammation and Rheumatic Diseases (RIER)
	Dr. Eduardo Collantes Estévez
	Dra. Rosario López Pedrera
7	THE SPANISH NETWORK OF MULTIPLE SCLEROSIS (REEM)
	Dr. Eduardo Agüera Morales
	Dr. Isaac Túnez Fiñana
8	HEALTHCARE RESEARCH UNIT (INVESTÉN-ISCIII)
	Dr. Manuel Rich Ruiz
9	EYE DISEASES: PREVENTION, EARLY DETECTION AND TREATMENT OF PREVALENT, DEGENERATIVE AND CHRONIC OCULAR PATHOLOGY (OFTARED ISCIII)
	Dr. Miguel González Andrades
10	INTERNATIONAL NETWORK OF OCCUPATIONAL HEALTH NURSING (ENSO NETWORK)
	Dr. Guillermo Molina Recio
11	REDHYPOX
	Dr. Eduardo Muñoz Blanco
12	ANDALUSIAN NETWORK OF CAR THERAPY (RANTECAR)
	Dra. Inmaculada Concepción Herrera Arroyo
13	SPANISH PEDIATRIC CLINICAL TRIALS NETWORK (RECLIP)
	Dra. M ^a Mercedes Gil Campos
14	SPANISH NETWORK OF MULTIPLE SCLEROSIS (REEM)
	Dr. Eduardo Agüera Morales
15	PRECISION NUTRITION AND PHYSICAL EXERCISE AS MODULATORS OF THE EPIGENOME IN DIET-RELATED PATHOLOGIES (NUTRIEPIGEN)
	Dr. José López Miranda
16	RESEARCH NETWORK ON ADIPOSE PLASTICITY AND RELATED PATHOLOGIES (ADIPOPLAST)
	Dra. M ^a del Mar Malagón Poyato

THE ANDALUSIAN PLAN FOR RESEARCH, DEVELOPMENT AND INNOVATION (PAIDI)

Many IMIBIC researchers belong to or lead groups that are part of the Andalusian Plan for Research, Development and Innovation (PAIDI).

PAIDI GROUP	IMIBIC RESEARCHERS
AGR-013	Dr. Guillermo Molina Recio
AGR-231	Dr. Juan José Garrido Pavón
AGR-241	Dr. Rafael Moreno Rojas
BIO-139	Dr. Justo P. Castaño Fuentes
BIO-139	Dra. María Del Mar Malagón Poyato
BIO-139	Dr. Raúl Miguel Luque Huertas
BIO-187	Dr. Antonio Romero Ruiz
BIO-216	Dr. José Antonio Bárcena Ruiz
BIO-301	Dr. Rafael Rodríguez Ariza
BIO-304	Dr. Eduardo Muñoz Blanco
BIO-304	Dr. Ángel Salvatierra Velázquez
BIO-310	Dr. Manuel Tena Sempere
CTS 550	Dr. Fernando Sarramea Crespo
CTS-1004	Dr. Eduardo Collantes Estevez
CTS-1041	Dr. Juan Alberto Ruano Ruiz
CTS-172	Dra. Julia Carrasco Valiente
CTS-179	Dr. Escolástico Aguilera Tejero
CTS-208	Dr. Rafael Solana Lara
CTS-212	Dr. Pablo Pérez Martínez
CTS-234	Dr. Enrique Aranda Aguilar
CTS-260	Dr. Juan Mariano Rodríguez Portillo
CTS-273	Dr. Manuel de la Mata García
CTS-273	Dr. Francisco Javier Briceño Delgado
CTS-413	Dr. José Manuel Quesada Gómez
CTS-525	Dr. José López Miranda
CTS-620	Dr. Joaquín Sánchez García
CTS-624	Dr. Eduardo Agüera Morales
CTS-639	Dra. María Mercedes Gil Campos
CTS-647	Dr. Julián Carlos de la Torre Cisneros
CTS-666	Dr. Pablo Jesús Lopez Soto
CTS-985	Dr. José Peña Amaro
CTS-992	Dr. Bernabé Jurado Gámez
FQM-227	Dr. Feliciano Priego Capote
HUM-298	Dr. Antonio Jesús Rodríguez Hidalgo
HUM-414	Dra. Bárbara Luque Salas
HUM-924	Dr. Juan Antonio Moriana
TEP-226	Dra. Laura García Hernández
TIC-122	Dr. Sebastián Ventura Soto
TIC-148	Dr. César Hervás Martínez
TIC-161	Dr. Rafael Medina Carnicer
TIC-252	Dr. José Manuel Palomares Muñoz

OTHER

IMIBIC is a member of the following national and international networks, platforms and infrastructures:

- ITEMAS ISCIII: Medical Technology Innovation Platform
- SCReN: Clinical Research and Clinical Trials Unit Platform
- EATRIS: European Infrastructure for Translational Medicine Platform
- ECRIN: European Clinical Research Infrastructure Network
- EUROPMP: European network on Pseudomyxoma Peritonei
- VascAgeNet: Network For Research In Vascular Ageing
- TRANSBIONET: Spanish Bioinformatics Network for Clinical Research
- RISA: Animal Health Research Network
- SEPAR: Spanish Society of Pneumology and Thoracic Surgery
- NEUMOSUR: Southern Association for Pulmonology and Thoracic Surgery
- SECT: Spanish Society of Thoracic Surgery
- GETBA: Group for the Study of Bipolar Disorder in Andalusia
- SAMPSP: Andalusian Society of Preventive Medicine and Public Health
- SEMPSPH: Spanish Society of Preventive Medicine and Public Health and Hygiene
- ERA-EDTA: Immunonephrology Working Group. European Renal Association – European Dialysis and Transplant Association
- PSOGI: The Peritoneal Surface Oncology Group International (Lap-CRS+HIPEC registry)
- SEProt: Spanish Society of Proteomics
- GETECCU: Spanish Working Group On Crohn's Disease And Ulcerative Colitis
- COMBACTE-NET: Combatting Bacterial Resistance in Europe – networks
- COMBACTE-CARE: Combatting Bacterial Resistance in Europe – carbapenem-resistance
- APS ACTION. Anti-Phospholipid Syndrome Alliance For Clinical Trials and International Networking
- GEICAM: Spanish Breast Cancer Research Group
- TTD: Digestive Tumour Treatment Group
- GEICO: Spanish Research Group on Ovarian Cancer
- GECP: Spanish Lung Cancer Group
- GEIS: Spanish Sarcoma Research Group
- SOGUG: Spanish Oncology Genito-Urinary Group
- GETNE: Spanish Group of Neuroendocrine and Endocrine Tumours
- ENETS: European Neuroendocrine Tumor Society
- ESE: European Society of Endocrinology: Pituitary and Neuroendocrinology Focus Area
- IARC, WHO: Rare Cancer Genomics
- SEEN: Spanish Society of Endocrinology and Nutrition: Knowledge of Neuroendocrinology Area
- SAEDYN: Andalusian Society of Endocrinology, Diabetes and Nutrition: Knowledge of Neuroendocrinology Area
- NutriEpiGen: Precision Nutrition and Physical Exercise as Modulators of the Epigenome in Diet-related Pathologies
- COST Action: European Cooperation in Science and Technology
- EUTOX: European Uremic Toxin
- GESMD: Spanish Group of Myelodysplastic Syndromes
- COCHRANE Skin group

The background is a complex, abstract composition of organic, flowing shapes. It features a rich palette of colors including deep reds, magentas, blues, greens, and yellows, all set against a dark, almost black, base. The textures appear layered and somewhat ethereal, with some areas showing fine, vein-like details. The overall effect is one of dynamic energy and organic complexity.

TRAINING

10

Training is considered a fundamental institutional tool for achieving and improving the scientific objectives of the Institute. Each year, it draws up an extensive programme of events and training activities to promote and deliver quality scientific training to researchers at the Institute, tailored to the different stages of their scientific careers. The programme includes the organisation of an annual program of seminars given by well-known national and international authorities on the latest cutting-edge scientific topics, courses covering concepts related to our current lines of research, as well as practical applications of the latest technologies. Along with these activities, the Institute holds two key training activities: the annual Young Investigators Meeting, aimed at fostering interaction and knowledge exchange among our youngest researchers, and the Maimonides Commemorative Lecture, which includes a lecture given by a leading expert in Biomedicine, and the presentation of awards recognising the work of IMIBIC researchers with leading national and international scientists.

IMIBIC is similarly committed to the generation of talent and runs two postgraduate programmes in collaboration with the University of Córdoba: the Master's degree in Translational Biomedical Research and the PhD programme in Biomedicine. These programmes not only contribute to the professional qualification of students in the field of Biomedical Sciences and to the promotion of teaching, but also attract new scientific talent to the Institute.

» **TRAINING PROGRAM DIRECTOR:**

- Juan Manuel Castellano Rodríguez, PhD.

» **TRAINING OFFICER:**

- David Luna Gómez



10.1 TRAINING PROGRAMS

PHD IN BIOMEDICINE

IMIBIC leads the PhD Programme in Biomedicine at the University of Córdoba. This programme, interdepartmental and multidisciplinary in scope, offers high-quality, advanced training and the development of human resources for teaching and research. In addition to promoting professional qualifications in the field of Biomedical Sciences, it also attracts new scientific talent to the Institute

In 2023, this PhD program was coordinated by Marco A. Calzado Canale

Website: <https://www.uco.es/estudios/idep/doctorado-programas-biomedicina>

MASTER'S DEGREES

IMIBIC leads the Master's degree in Translational Biomedical Research at the University of Córdoba. This programme has a dual focus: to train students specialising in this area, as well as personnel specialised in the techniques and methodologies of translational biomedical research, enabling them to carry out technical work in support of research in the field of biomedicine and health.

- Academic Director: Prof. Raúl M. Luque Huertas, PhD.
- Academic Co-Director: Prof. Antonio Jesús Martínez Fuentes. PhD.

Website: <https://www.uco.es/estudios/idep/investigacion-biomedica-traslacional>

COURSES AND WORKSHOPS

Numerous courses, seminars and other training activities in different research areas were held at the IMIBIC during 2023. These can be found in the annexes at the end of this report.

10.2 TRAINING ACTIVITIES

IMIBIC RESEARCH SEMINARS

Regular seminars and research events provide an opportunity to meet renowned national and international speakers covering a wide range of topics in biomedicine. IMIBIC research seminars promote networking and strengthen the knowledge of the Institute's research community. The Institute organises annual seminar series aimed at promoting interaction, sharing ideas, and strengthening links between IMIBIC scientists and recognised scientists from other research institutions. In 2023, a total of 17 external seminars were held.

Furthermore, a fortnightly cycle of intramural seminars, first launched in 2015, also gives young (preferentially postdoctoral) researchers from our Institute an opportunity to present work in progress. In 2023, a total of 5 intramural seminars were held.

10.3 INSTITUTIONAL EVENTS

14TH IMIBIC YOUNG INVESTIGATOR MEETINGS

IMIBIC Young Investigator Meetings provide an ideal environment for young scientists to enhance their skills and knowledge as well as an interface to foster translational research from basic experimental science to clinical medicine that will improve health and quality of life. The aim of these meetings is to promote inter-disciplinary research and, above all, high-quality training by sharing the results obtained by young researchers at IMIBIC and related institutions, as well as other groups at the University of Cordoba.

More specifically, the aims of IMIBIC Young Investigator Meetings are:

- To provide a platform to discuss the latest knowledge and methods in translational medical research.
- To promote interaction and the exchange of ideas between pre- and postdoctoral scientists and to strengthen links between research groups.
- To facilitate interdisciplinary actions and communication that bring together basic and clinical researchers.
- To encourage and provide high-quality scientific training for young researchers.
- To establish annual IMIBIC Meetings as a young, vibrant forum of reference for the research community and our young researchers in particular.

The 14th Meeting was held in the IMIBIC building on 16-17 October 2023. The programme included sessions representative of IMIBIC Scientific Programmes, as follows:



14th IMIBIC YOUNG INVESTIGATORS MEETING

PROGRAMME

Day 1 (16th OCT)

08:30 – 09:00

Registration and Poster display

09:00 – 09:30

**Opening ceremony
(IMIBIC Assembly Hall)**

09:30 – 10:45

**Session I. Cancer I
(IMIBIC Assembly Hall)**

**Chairs: Dr. Henning Kirst & Dr.
Yolanda Jiménez**

- **Ia. 09:30 – 09:45**
Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer. **Ana Mantrana Soldado**
- **Ib. 09:45 – 10:00**
Targeting glycogen synthase kinase 3 as an effective therapeutic strategy against tumor budding and immune evasion in human colorectal cancer. **Carmen Navarrete Sirvent**
- **Ic. 10:00 – 10:15**
B-Raf oncogene regulation by dual-specificity tyrosine-regulated kinase 2. **Miguel Torres Ramos**
- **Id. 10:15 – 10:30**
The splicing machinery represents a targetable vulnerability in bladder cancer. **Antonio Jesús Montero Hidalgo**

→ **Ie. 10:30 – 10:45**

Memory Universal CAR T cells: A new strategy against B-cell malignancies. **Kristina Pavlovic Pavlovic**

10:45 – 11:45

Coffee Break (IMIBIC Cafeteria)

11:45 – 12:45

**Session II. Multidisciplinary I
(IMIBIC Assembly Hall)**

**Chairs: Dr. M^a Carmen Vázquez
& Dr. Fernando Leiva**

→ **IIa. 11:45 – 12:00**

Circadian rhythm disruption in cardiovascular and trauma severe patients admitted to ICU: Influence of environmental conditions. **Luna López Coletto**

→ **IIb. 12:00 – 12:15**

VCE-004.8, a novel PP2A/B55 α activator, promoted angiogenesis and arteriogenesis in critical limb ischemia. **María Eugenia Prados González**

→ **IIc. 12:15 – 12:30**

Worsening of Heart Failure with Reduced Ejection Fraction: Impact of the number of previous hospital admissions. **Jorge Perea Armijo**

→ **IId. 12:30 – 12:45**

VCE-009.1, a novel formulation of natural products with positive allosteric modulators for CB1R. **Francisco José Ponce Díaz**

12:45 – 13:45

**Poster session I (IMIBIC
Meeting & Multipurpose Room)**

**Chairs: Dr. Mario Frías, Dr.
Marisol Avendaño & Dr. Iván
Arias**

13:45 – 15:45

Lunch (IMIBIC Cafeteria)



15:45 – 17:00

**Session III. Nutrition, Endocrine and metabolic diseases
(IMIBIC Assembly Hall)**

Chairs: Dr. Lourdes Ladehesa & Dr. María Isabel Martínez

- **IIIa. 15:45 – 16:00**
Analysis of metabolites from the intestinal microbiota and their role as modulators of coronary heart disease as a function of the sex of the patient. **Helena García Fernández**
- **IIIb. 16:00 – 16:15**
Characterization of a novel molecular mechanism inhibiting the secretory capacity of arcuate Kiss1 neurons in conditions of metabolic stress. **Miguel Ruiz Cruz**
- **IIIc. 16:15 – 16:30**
Mediterranean diet preserves kidney function in coronary heart disease patients with type 2 diabetes and obesity: An Analysis of the CORDIOPREV Randomized Controlled Trial. **Alicia Podadera Herreros**
- **IIId. 16:30 – 16:45**
PCSK9 levels and their correlation with the genetic variants present in heterozygous familial hypercholesterolemia. **Alberto Díaz Cáceres**
- **IIIe. 16:45 – 17:00**
Characterisation of the somatostatin system in chronic liver disease: potential therapeutic role of neuropeptide Y receptor GPR107. **Antonio García Estrada**

17:00 – 18:15

**Session IV. Multidisciplinary II
(IMIBIC Assembly Hall)**

Chairs: Dr. Belén Pastor & Dr. André Sarmiento

- **IVa. 17:00 – 17:15**
Supervised versus home-based programs in kidney transplant recipients: a non-randomized single-

center prospective trial. **Anna Crepaldi**

- **IVb. 17:15 – 17:30**
Beneficial effect of recombinant Klotho administration in acute kidney injury associated with intravascular hemolysis. **Mercedes Vallejo Mudarra**
- **IVc. 17:30 – 17:45**
Magnesium supplementation reduces the development of renal and cardiac fibrosis present in chronic kidney disease: In vivo and in vitro studies. **Teresa Obrero Sojo**
- **IVd. 17:45 – 18:00**
Characteristics and outcomes of transcatheter mitral valve edge to edge repair according to mitral etiology. **Luis Carlos Maestre Luque**
- **IVe. 18:00 – 18:15**
High levels of FGF23 induce experimental hypertension and vascular remodeling. **Raquel María García Sáez**

Day 2 (17th OCT)

08:00 – 08:30

Registration and Poster display

08:30 – 09:45

**Session V. Cancer II
(IMIBIC Assembly Hall)**

Chairs: Dr. Cristian Rodelo Haad & Dr. Silvia León

- **Va. 08:30 – 08:45**
High-Throughput Sequencing reveals recurrent mutations in RNUs in pancreatic tumors. **Clara González Pérez**
- **Vb. 08:45 – 09:00**
Prospective feasibility study of localization of lung nodules for sublobar VATS resections by using a novel Computed Tomography (CT) –



WWW.IMIBIC.ORG

guided radiopharmaceutical labelling system. **Alba María Fernández González**

- **Vc. 09:00 – 09:15**
Liquid biopsy-based epigenetic biomarkers for prognosis and monitoring of metastatic pancreatic cancer. **Pablo Francisco Cano Ramírez**
- **Vd. 09:15 – 09:30**
Clinical, transcriptomic, and functional characterization of telomerase/shelterin system in endocrine intracranial tumors. **Ana S. de la Rosa Herencia**
- **Ve. 09:30 – 09:45**
Deciphering the mechanisms of somatostatin analogue resistance in pheochromocytomas and paragangliomas. **Víctor García Vioque**

09:45 – 10:30

Coffee Break (IMIBIC Cafeteria)

10:30 – 11:30

Poster sesión II (IMIBIC Meeting & Multipurpose Room)

Chairs: Dr. Mario Frías, Dr. Marisol Avendaño & Dr. Iván Arias

11:30 – 12:45

Session VI. Infectious and immunological diseases (IMIBIC Assembly Hall)

Chairs: Dr. Ignacio Gómez & Dr. Antonio Romero

- **VIa. 11:30 – 11:45**
SARS-CoV-2 accessory proteins induce mitochondrial dysfunction and impair cellular metabolism. **Raúl Fernández Rodríguez.**
- **VIb. 11:45 – 12:00**
Clinical factors and the role of bacterial load in long-term eradication of intestinal colonization by KPC-producing *Klebsiella pneumoniae* in an endemic nosocomial setting:

results from a prospective observational study (KLEBCOM). **Alejandra Méndez Natera**

- **VIc. 12:00 – 12:15**
Prevalence and Factors Associated with Multimorbidity in Patients with Rheumatoid Arthritis. Data from the Cordobesian Rheumatoid Arthritis Registry. **Santiago Dans Caballero.**
- **VIId. 12:15 – 12:30**
Early postoperative complications of lung transplantation. **Patricia Victoria Childers Canduela.**
- **VIe. 12:30 – 12:45**
Genomic epidemiology study of hospital-acquired, community-acquired and healthcare-related KPC-producing *Klebsiella pneumoniae* infections at Reina Sofia University Hospital reveals clonal dissemination of ST512/KPC-3 high-risk clone over a 10-year period (KLEBMAN study). **Víctor Gálvez Soto.**

12:45 – 14:00

Plenary Lecture: "Towards tailored antitumor T-cell therapies". Dr. Alena Gros Vidal (Vall d'Hebron Research Institute).

14:00 – 14:30

Awards and Closing ceremony.



IMIBIC



UNIVERSIDAD D CORDORA



This edition consisted of 8 sessions (2 on cancer, 2 on Multidisciplinary, 1 on Nutrition, Endocrine and metabolic diseases, 1 on Infectious and immunological diseases and 2 poster sessions) and two presentation formats: lectures and poster talks. A total of 107 papers were received and the number of registered attendees was 177.

12TH MAIMONIDES COMMEMORATIVE LECTURE AND IMIBIC AWARDS

The aim of this initiative is to recognise the biomedical research carried out by IMIBIC staff and to highlight the importance of the results obtained at the Institute.

The 2023 “Enrique Aguilar Benítez de Lugo” award for the most relevant experimental publication led by IMIBIC was granted to the consolidated research group “GC10 Hormonal Regulation of Energy Balance, Puberty and Reproduction” (doi: 10.1038/s41467-022-32347-4), while the 2023 “Enrique Aguilar Benítez de Lugo” award for the best scientific publication of the year led by IMIBIC was granted to the consolidated research group “GC09 Nutrigenomics. Metabolic Syndrome” (doi: 10.1016/S0140-6736(22)00122-2).

The award for the best clinical research work went to Consolidated Group GC03 “Infectious Diseases” (doi: 10.1093/cid/ciab574).

Each year, an outstanding biomedical scientist is invited to present the “Maimónides Lecture”, which focusses on the latest knowledge in basic, applied, and/or translational biomedical science of excellence. In 2023, the guest speaker was Dr. Eduard Vieta, head of psychiatry and psychology at the Hospital Clinic (Barcelona) and professor of psychiatry at the University of Barcelona.

10.4 RESULTS OF TRAINING ACTIVITIES

DOCTORAL THESES

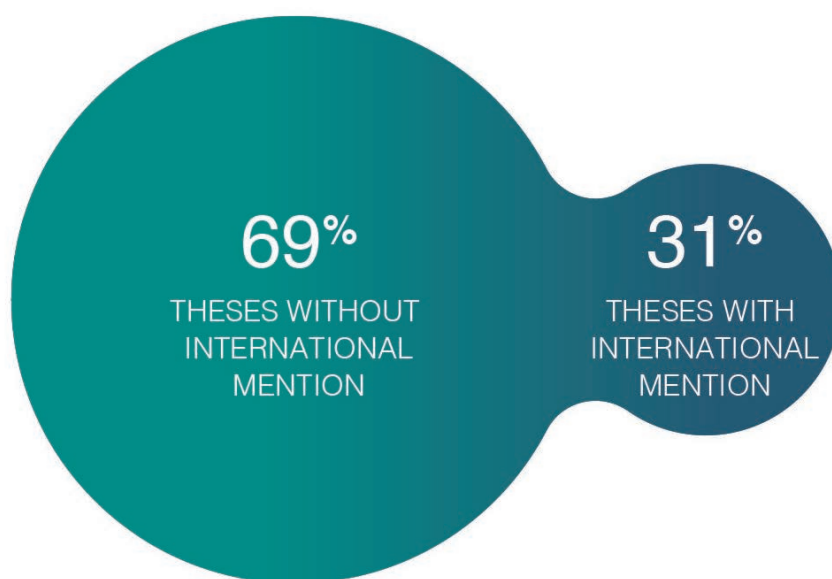
THESES PRESENTED - ACADEMIC YEAR 2022/2023

IMIBIC Group	PhD student	Thesis Title
GE10 Clinical and Epidemiological Research in Primary Care (GICEAP)	Muñoz Alcaraz, María de las Nieves	Efficacy and efficiency of a new therapeutic approach based on activity-oriented proprioceptive antiedema therapy (TAPA) for edema reduction and improved occupational performance in the rehabilitation of breast cancer-related arm lymphedema in women: a controlled, randomized clinical trial.
GC28 Neuroplasticity and Oxidative Stress	Gómez Melero, Sara	Development of therapeutic antibodies against the human CCR6 receptor
GC06 New Therapies in Cancer	Ortiz Morales, María José	Antiangiogenic therapy in metastatic colorectal cancer: identification of biomarkers
GC09 Nutrigenomics. Metabolic Syndrome	Santos Marcos, José Antonio	Differences between the gut microbiota of men and women and their relationship to the prevalence of developing metabolic diseases
GC03 Infectious Diseases; GC24 Clinical and Molecular Microbiology	Cano Yuste, Ángela María	Risks of infection and mortality among patients colonized with KPC-producing <i>Klebsiella pneumoniae</i> : Validation of scores and proposal for management
GE08 Comprehensive Nursing Care. Multidisciplinary Perspective	López Cerdá, Elena	ENRED@TE. Social support in south of Spain. intervention study
GC03 Infectious Diseases; GC24 Clinical and Molecular Microbiology	Páez Vega, Aurora María	Clinical trial to stop valganciclovir prophylaxis in CMV-seropositive renal transplant patients who maintain CD8+ CMV-specific cellular immunity after receiving thymoglobulin
GC15 Cardiovascular Diseases	González Manzanares, Rafael	Late anthracycline induced cardiotoxicity in survivors of childhood acute lymphoblastic leukemia
GE08 Comprehensive Nursing Care. Multidisciplinary Perspective	Cubero Luna, Ana María	Obstetric and neonatal outcomes of trial of labor after prior cesarean section
GC28 Neuroplasticity and Oxidative Stress	Alfonso Pérez, Gerardo	Bioinformatic approaches for identification of epigenetic profiles in neuropathology processes
GC11 Metabolism and Adipocyte Differentiation- Metabolic Syndrome	Navarro Ruiz, María del Carmen	Identification of biomarkers of adipose tissue dysfunction in insulin resistance conditions
GC12 Clinical and Epidemiological Research in Primary Care (GICEAP)	Jiménez Mérida, María del Rocío	Effectiveness of workplace health promotion on workers' health: systematic review and meta-analysis

IMIBIC Group	PhD student	Thesis Title
GC04 Inflammation and Cancer	Correa Sáez, Alejandro	Regulation of post-translational modifications with pharmacological intervention: autoimmune diseases and cancer
GC09 Nutrigenomics. Metabolic Syndrome	Martín Piedra, Laura	Medium-term evolution of metabolic risk phenotypes in cardiovascular patients after dietary intervention: mediterranean diet or low-fat diet (cordioprev study)
GA05 Study of Growth. Endocrinology and Child Nutrition	Valle Martos, Rosario	Uric acid and liver function markers relevance in metabolic syndrome, endothelial dysfunction and inflammation, in response to the treatment of childhood obesity
GC15 Cardiovascular Diseases	Martín Dorado, Ernesto	Benefit of canagliflozin in patients with type 2 diabetes after hospitalization for acute heart failure
GC02 Liver and digestive diseases	Guerrero Misas, Marta	Impact of mTOR pathway inhibition in liver transplant candidates with hepatocellular carcinoma
GC09 Nutrigenomics. Metabolic Syndrome	Romero Cabrera, Juan Luis	Assessment of cardiovascular risk in patients with disruption of circadian rhythm on secondary prevention and following a dietary intervention (mediterranean diet or low-fat diet)
GC09 Nutrigenomics. Metabolic Syndrome	Millán Orge, Marta	Prediction of cardiovascular disease in coronary patients by a clinical event recurrence score and the influence of diet. Cordioprev study
GC09 Nutrigenomics. Metabolic Syndrome	Pérez Cardelo, María Magdalena	Dietary strategies in the management of type 2 diabetes in patients with coronary heart disease: from the cordioprev study
GC07 Nephrology. Cell Damage in Chronic Inflammation	Sánchez-Agosta Martínez, Marina	New diagnostic and therapeutic approaches in extracapilar glomerulonephritis
GC05 Systemic and chronic inflammatory autoimmune diseases of the locomotor system and connective tissue	Pérez Sánchez, Laura	Characterisation of the atherothrombotic risk in patients with antiphospholipid syndrome by transcriptomic analyses
GC15 Cardiovascular Diseases	Rodríguez Diego, Sara	The role of two-dimensional speckle-tracking echocardiography in non-invasive diagnosis of asymptomatic acute cellular rejection in heart transplant recipients
GC09 Nutrigenomics. Metabolic Syndrome	Romero Cabrera, Juan Luis	Assessment of cardiovascular risk in patients with disruption of circadian rhythm on secondary prevention and following a dietary intervention (mediterranean diet or low-fat diet)
CTS-637 Forensic and legal medicine	Vallejo Valdivieso, Patricio Alfredo	Psychosocial aspects of male inmates of the Center for Adolescents in conflict with the Law who suffered child abuse. Guayaquil 2017 – 2019
GC23 Metabolism in childhood	Rodríguez Benítez, María Victoria	Invasive and non-invasive methods to study inflammatory parameters in premature newborns with necrotizing enterocolitis
GC10 Hormonal Regulation of Energy Balance, Puberty and Reproduction	Perdices López, Cecilia María	Micrnas and grk2 as modulators of kiss1/gpr54 system: physiopathological role in pubertal alterations and obesity induced hypogonadism
GE10 Clinical and Epidemiological Research in Primary Care (GICEAP)	Pastor López, Ángeles	Care for the elderly at social risk, experiences of a complex social and health reality.

IMIBIC Group	PhD student	Thesis Title
GE10 Clinical and Epidemiological Research in Primary Care (GICEAP)	Muñoz Gómez, Rafaela	Validation of the STOP-Bang questionnaire for the diagnosis of sleep apnea-hypopnea syndrome in the population aged 40 years or older.
GC13 Calcium metabolism. Vascular calcification	López Baltanás, Rodrigo	Influence of magnesium supplementation on oxidative stress, inflammation and vascular dysfunction associated to chronic kidney disease: in vivo and in vitro studies
GC05 Systemic and chronic inflammatory autoimmune diseases of the locomotor system and connective tissue	Gómez García, Ignacio	Characterization of the extra-musculoskeletal manifestations and their influence on the phenotype of spondyloarthritis
GC10 Hormonal Regulation of Energy Balance, Puberty and Reproduction	Curcio, Felice	Risk assessment of pressure injuries and prevention in newborns admitted to intensive care
GC05 Systemic and chronic inflammatory autoimmune diseases of the locomotor system and connective tissue	Alcaraz Clariana, Sandra	Clinical applications of lumbar paraspinal mechanical properties and lumbopelvic kinematics in subjects with mechanical and inflammatory low back pain

THESES PRESENTED: 2022/2023 ACADEMIC YEAR



RESEARCH STAYS

IMIBIC is committed to promoting stays for the training of its PhD students at national and international reference centres in biomedical research, providing opportunities to experience research in foreign settings, facilitating the integration of graduates into the scientific community, and creating networks. In fact, the Institute's "Plan Propio" includes actions to promote these stays.

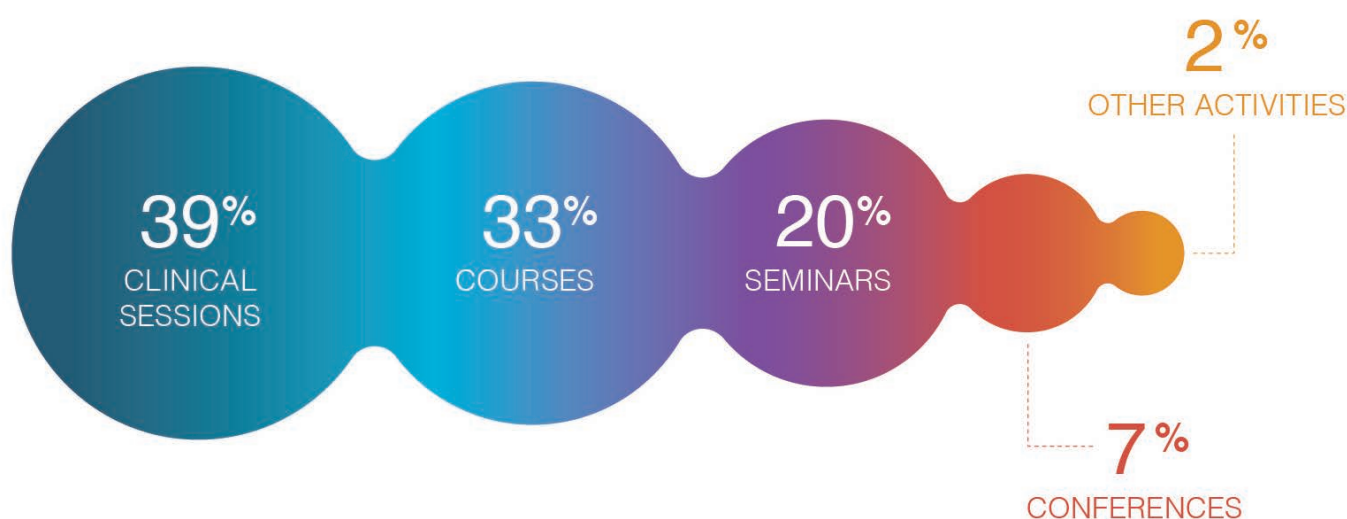
Twenty-four researchers from the IMIBIC completed a research stay at a national or international centre in 2023. Eight of these were students of the PhD programme in Biomedicine, who will therefore be able to opt for the "International Doctorate" mention.

External visitors are also invited to carry out their research at our Institute. A total of seven visiting scientists stayed at IMIBIC during 2023.

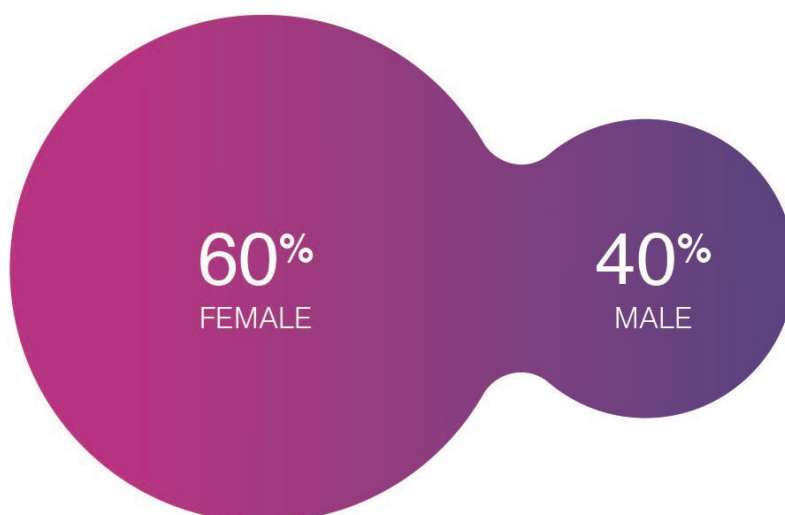
TRAINING ATTENDANCE IN 2023

The total number of participants in all training activities held at IMIBIC in 2023, including courses, conferences, seminars and other activities, was 852. Participants were predominantly women.

TRAINING ACTIVITIES BY TYPE:



PARTICIPATION IN TRAINING ACTIVITIES:





**INNOVATION AND
TECHNOLOGY
TRANSFER**

11

The main objective of the Innovation and Technology Transfer Plan is to strengthen IMIBIC's existing capabilities in order to create a favourable ecosystem to support innovation and translation to the Spanish National Health System. The more specific aims are to promote and increase effective transfer with an impact on the National Health System and society, to encourage transfers to the productive sector, to promote public-private collaboration, and to guarantee the sustainability and quality of the Innovation and Transfer unit and Technological Innovation unit. Both units work in close collaboration to transform the ideas of the IMIBIC inventors into minimum viable products, scaling these ideas in the innovation TRLs.

The indicators implemented by the IMIBIC Innovation and Transfer Unit are as follows:

- Knowledge transfer towards the productive sector.
- Development of new healthcare products.
- Patent registration and licensing.
- Implementation of new clinical processes.
- Creation of spin-offs and start-ups.
- Clinical Practice Guidelines.

These indicators were integrated into the Innovation and Technology Transfer Plan (2021-2025) as an example of full alignment with European, national and regional policies.

As a result of the actions carried out in 2023, 12 patents or intellectual property registrations were requested. 6 prototypes/developments have been carried out with the support of the Technological Innovation Unit. In addition, we have collaborated with the Technological Innovation Unit to promote the services offered by both units and to establish synergies with the research groups and the different Clinical Management Units of the Hospital. These services include the development of CRDs, design and development of devices, development of software applications, etc...

In accordance with the Innovation and Technology Transfer Plan, contacts continue to be made with companies to establish collaborations or service agreements with companies for the development of innovations or validation of their technologies, having contacted more than 28 companies. In this sense, it is worth mentioning the application for 3 projects in collaboration with companies, 2 of which have been awarded in the call of the State Research Agency (public-private modality). Although the total funding raised by the consortia was 3.5 million euros, around 500 thousand euros will be managed by the Institute. Likewise, in the Carlos III Health Institute (ISCIII)-CDTI call for proposals, IMIBIC is participating in a consortium of almost 680,000 €, of which approximately 145,000 € will be managed by IMIBIC.

With respect to the creation of companies, the Innovation and Technology Transfer Unit has provided regulatory, business and market advice to researchers interested in the possible creation of a spin-off company. It is expected that in the future it will be possible to set up companies.

The funding obtained through the ISCIII in its call for Strategic Action in Health in 2023 for the implementation of innovation projects has been €203,700. The funds will be used, on the one hand, to develop a personalized diagnostic and prognostic tool with potential therapeutic impact in malignant brain tumors and, on the other hand, for the validation of a decision model in alopecia areata that will integrate biomarkers and health outcomes in real life.

During the year 2023, the first Biotechnological Hackathon of Andalusia was held in coordination with the Escuela Politécnica Superior de Córdoba (EPSC), which was possible thanks to the co-funding obtained by the IMDEEC call. Given the success obtained with the initiative, we applied again in the ESAL 2023 call, which was granted, allowing, therefore, the organization of the second edition of the Biotechnological Hackathon of Andalusia in the year 2024.

In December 2023, the second internal call for "IMIBIC Innovation Awards 2023" was launched for an amount of €30,000, which is expected to be well received by the research staff.

In 2023, the *Córdoba BIOTECH* Incubator was officially launched. Within the scope of the Incubator, the researchers and entrepreneurs incubated in BIOTECH acquired new skills to transform their business ideas into successful projects. At the same time, these conferences have allowed our researcher/entrepreneur staff to acquire knowledge about team management, economic and regulatory management, sales, the importance of industrial and intellectual property protection, communication and leadership... Finally, an aid program was also developed to offer services to incubatees to advance business development strategies.

In November 2023, the Entrepreneurship, Business Development and Attraction Fair took place where around 50 start-ups from the health and biotechnology fields and our research and innovation groups were able to present their lines of business, services and innovations in order to explore possible avenues of collaboration. In addition, the companies located in the *Córdoba BIOTECH* Incubator, funding agencies and pharmaceutical industries attended the event.

The Innovation Unit once again obtained funding from the call for Innovation Platforms in Medical and Health Technologies of the ISCIII, thanks to which it has been able to continue with the resources previously obtained, allowing it to maintain the level of quality of the services offered by the Unit.

The IMIBIC Innovation Unit also successfully passed the audit that evaluates the Quality Management System, in accordance with the UNE 166.002:2021 standard, implemented for years at IMBIC, obtaining the renewal of its certification.

EVOLUTION OF RESULTS

	2016	2017	2018	2019	2020	2021	2022	2023
PATENTS	9	16	13	11	5	17	5	9
Utility Model				2	6	1	1	
Intellectual property registry				1	3	1	4	2
PCTs	6	6	3	9	2	5	3	1
LICENCES		2	2		1	3	5	
COMPANIES							1	

Finally, 22 confidentiality agreements and 14 collaboration/service agreements were signed with companies in 2023.





BIOMEDICAL
RESEARCH
SUPPORT UNITS

12

12.1 ISOTOPE AND PRECLINICAL IMAGING UNIT



STAFF

Eduardo Muñoz Blanco, PhD

Supervisor

Miguel Ángel Rodríguez Martín

Technician

BRIEF DESCRIPTION

The Preclinical Imaging Service (SIP) is a highly advanced facility which provides non-invasive, in vivo imaging of the structure and function of body organs and tissues in preclinical animal models.

The equipment is located in the IMIBIC animal facility, which has modern premises of approximately 800 m² and capacity for housing and experimental management of >3,500 rodents. It is ideally situated to provide interdisciplinary support in cardiovascular biology, oncology, neuroscience and physiology, among others.

The main purpose of this department is to supply high-quality imaging support to the rest of the research groups in IMIBIC.

EQUIPMENT AND FACILITIES

» ISOTOPE UNIT

The unit has two laboratories dedicated to working with both γ and β radioactive isotopes. One is located on floor -2 and the other on the third floor.

The unit has been authorized by the Nuclear Safety Council since December 2014 to work with the following isotopes:

ISOTOPES	MAXIMUM ACTIVITY (MBQ)
Carbon (C-14)	370
Tritium (H-3)	370
Phosphorus (P-32)	370
Phosphorus (P-33)	370
Sulfur (S-35)	370
Chrome (Cr-51)	370
Iodine (I-125)	370

» EQUIPMENT

- Gamma Counters. 3 units:
 - Make: Wizard
 - Model: 2470-0100 Beta counter
- UN Beta Counter. 1 unit:
 - Make: Tricard
 - Model: 2810 TR
- Microbeta Counter. 1 unit:
 - Make: Microbeta2
 - Model: 2450-0020
- Harvester cell
- A sample preparer
 - Make: Janus
- Two refrigerated ultracentrifuges with capacity for 200 samples.
- Three gas cabinets exclusively for working with radioactive isotopes, two with a lead and one with a methacrylate guillotine.
- Two radiation detectors:
 - Make: Lamse
 - Model: RM10013-RDM

» PRECLINICAL IMAGING UNIT

• **PET / MR 3T** is the only combined magnetic resonance and PET equipment available nationwide. The PET equipment is based on highly sensitive, continuous LYSO crystal technology with 2 rings with 8 detectors that can provide 80 mm (transaxial) X 148 mm (axial) fields of view, up to 285 mm (axial) by moving the bed, with MRI-compatible silicon photomultipliers, sensitivity of 5%, up to 9% (NEMA standard) and sub-millimetre resolution (≤ 0.7 mm); The MRI equipment is 3 Tesla and 18 cm magnet with cryogen free technology, without the need for a cooling line, with magnet homogeneity of ± 0.1 ppm (DSV 5 cm) and ± 0.05 ppm (DSV 3.5 cm), necessary to work with diffusion sequences and localized spectroscopy with a gradient system capable of providing 450 mT / m.

The PET / MR displays an automatic positioning system for the animal in both the PET and MRI modalities, and a touch screen with integrated camera to facilitate positioning and monitoring.

This equipment was installed in June 2018 and will be available for use after an appropriate set-up procedure which will be done in the near future.

• **μ CT (SkyScan 1176 model)** is an X-ray tomography system (90 kV source) allowing 3D spatial resolution of less than 10 μ m, and a respiratory gating system for prospective or retrospective extraction of respiratory movements during emission of the image. The system features a 12-bit, distortion-corrected 11-megapixel refrigerated X-ray chamber (4000x2670) with fibre-optic coupled scintillator.

Full-body scanning capability of rats and mice: scan diameter of 68mm or 35mm, scanning length up to 200mm by multiple automatic connected scanners. This μ CT equipment can carry out longitudinal tests with less than 10mG radiation exposure, as well as coregistration of PET or MRI images.

MAIN SERVICES

- Training in the handling of β and γ counters.
- Labelling of proteins with I-125.
- Identification of protein levels in serum, plasma and other biofluids using the RIA technique.
- In situ hybridization (ISH) with P-33 labelled probes.
- Radioactive techniques for analysis of cell death and proliferation.
- Consultation regarding the different isotopic techniques that are employed in the laboratory.
- Optimization of protocols.
- To advise on experimental design, selection of equipment and supervision of procedures.
- To advise during data acquisition and imaging procedures using MRI, microCT and PET.

» SPECIFIC APPLICATIONS:

- **MRI Applications:**
 - Structural analysis of soft tissues and body composition (compartmentalization).
 - Analysis of structures by diffusion (diffusion-weighted imaging).
 - Analysis of metabolic composition by spectroscopy.
 - Analysis of brain activity using fMRI.
- **MicroCT Applications:**
 - Structural analysis.
- **PET Applications:**
 - Analysis of metabolic activity (normal and tumour tissue).

The infrastructure necessary to house PET-MR and MicroCT preclinical imaging systems within the Animal Experimentation Unit was designed in collaboration with the Radiological Protection Service of the University of Córdoba and the Diagnostic Radiology and Nuclear Medicine Unit of the hospital. This work was carried out in order to define the optimal equipment and workflows prior to bidding for the equipment.

KEY FACTS

NUMBER OF IMIBIC USERS: 1

NUMBER OF EXTERNAL USERS: 0

NUMBER OF PUBLICATIONS: 1

NUMBER OF ONGOING PROJECTS: 1

COURSES AND TRAINING SESSIONS: 2

NUMBER OF MEETINGS WITH IMIBIC GROUPS: 4

PARTICIPATION IN INTERLABORATORY COMPARISON STUDIES: 1 (BIONAND PRECLINICAL IMAGING DEPT.)

FEATURED ARTICLES

1. Antitumor effect of a small-molecule inhibitor of KRASG12D in xenograft models of mucinous appendicular neoplasms. EXPERIMENTAL HEMATOLOGY & ONCOLOGY. DOI: 10.1186/s40164-023-00465-4

PROJECTS

1. GE09. Antonio Romero: "Caracterización molecular del pseudomixoma preitoneal y desarrollo de biomarcadores y terapias diana".

COURSES AND WORKSHOPS

1. Bruker webinar: Shaping the Future of Batteries
2. Bruker webinar: From Manufacturing to Recycling: Benefits and Use Cases of XRF Along the Battery Value Chain

12.2 ANIMAL EXPERIMENTATION UNIT



STAFF

Nahúm Ayala Soldado

Director of SAEX

Anabel Pozo Salas

Clinical diagnostic laboratory technician –

Estefanía Escudero Jabonero

Technician in pathological anatomy and cytology –

Ana Rama Moral

Clinical biological laboratory technician –

Marta Rodríguez Vázquez

Clinical biological laboratory technician - INVESTIGO

BRIEF DESCRIPTION

The IMIBIC Animal Experimentation facilities are part of the SAEX of the University of Cordoba. The aim of this service is to provide the biomedical community, other public research centres and private companies with the animals, facilities, equipment, materials and specialized personnel necessary to carry out research projects and/or teaching tasks that require the use of animal models. The fundamental objective of the animalarium service is to guarantee the maintenance and well-being of the animals, as well as to offer different techniques for their study, given the range of equipment available in our unit. This IMIBIC service is intended for the breeding, housing and use of laboratory animals (rats and mice), as well as for pig experimentation. Its facilities and personnel comply with current Spanish and European legislation (Directive 2010/63/EU, European Commission Recommendation 2007/526/EC, Spanish Royal Decree 53/2013 and Order ECC/566/2015 of the Spanish Ministry of Economy and Competitiveness).

The IMIBIC animal experimentation unit facilities, coordinated by the Animal Experimentation Service of the University of Córdoba, were opened in 2017.

EQUIPMENT AND FACILITIES

The unit comprises:

- 7 rooms for housing rodents, one of them with a replacement cabinet.
- 1 healing / metabolism room: This room has a respirometry system (with capacity for 10 animals), two racks for metabolic cages and optogenetic and quantitative analysis equipment.
- 4 multi-purpose rooms for experimental procedures with animals: two rooms for use on rats (the preclinical imaging computers are located in one of them) and two for use on mice. The rooms are equipped with 2 gas extraction cabinets, analytical scales and other basic laboratory material.
- Operating Room: Suitable for surgery on rodents and larger animals (rodents and pigs), equipped with 1 3D laparoscopy tower, 7 TV video monitors, 1 large animal anaesthesia machines, 6 surgery tables, 2 rodent anaesthesia systems with 4 seats, 6 gas towers, 1 surgical microscope for large animals, 1 high-end ultrasound, 2 magnifying glasses, 1 microscope, equipment for body composition MRI and a 1 C-arm.
- Quarantine Zone: 5 ventilated racks for rats / mice, 2 replacement cabinets and 1 triple gate SAS system.
- 1 large animal (pig) room: 6 transport cages and 1 isolation cage.
- Laboratory 1: has micro-CT/PET/MR for rodents, as well as a gamma library, a ventilated cabinet for 6 animals and an anaesthesia machine.

KEY FACTS

NUMBER OF IMIBIC USERS: 77

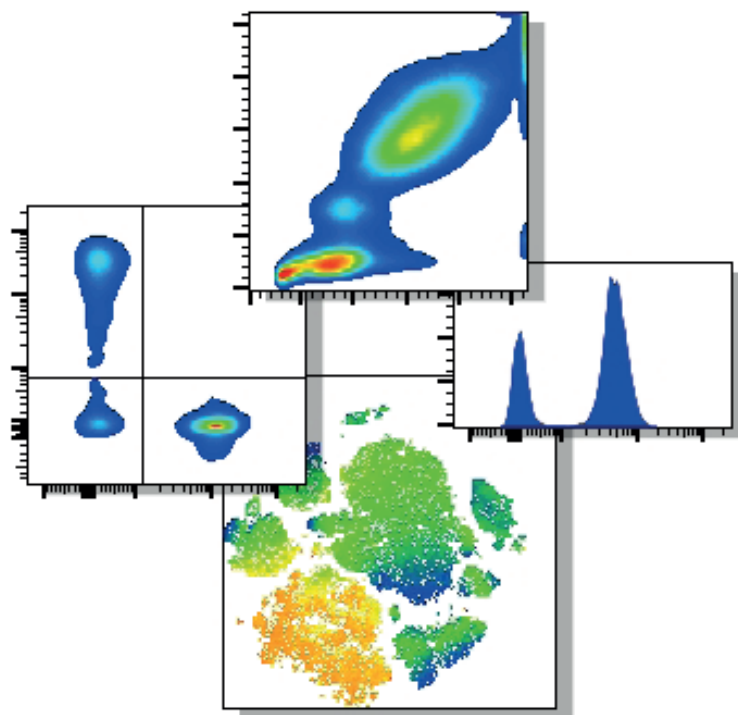
PROJECTS

1. 09/08/2019/140 "Desafiando la hipótesis KNDy mediante edición genómica con CRISPR-Cas9: Evaluación del papel de la neuroquímica B y la dinorfina en las neuronas kiss1 en el control de la fertilidad"/Manuel Tena Sempere/GC-10
2. 09/08/2019/141 "Investigación traslacional sobre el hipogonadismo incluido por obesidad: bases fisiopatológicas e implicaciones para la mejora diagnóstica y terapéutica"/Manuel Tena Sempere/GC-10
3. 10/09/2020/109 "Análisis del papel de las taquiquininas en el control de la ovulación: caracterización de las funciones del sistema sustancia-P/Receptor de taquiquininas tipo I (Tac1/Tacr1)" /Manuel Tena Sempere/GC-10.
4. 04/06/2020/074" Implicaciones fisiopatológicas y valor diagnóstico de miRNAscandidatos involucrados en el desarrollo temprano de obesidad y enfermedad metabólica. Estudio CHILDEM"/ Juan Roa Rivas/GC10
5. 22/02/2021/019 "Mecanismo sensores del estado metabólico y nutricional en neuronalKiss1- Implicaciones en el control de la pubertad y sus alteraciones en condiciones de la obesidad de inicio temprano" / Manuel Tena Sempere / GC10.
6. 22/02/2021/018 "Análisis del uso terapéutico del tungstato sódico para el tratamiento del síndrome poliquístico (SOP) empleando modelos preclínicos" / Manuel Tena Sempere / GC10
7. 02/08/2023/025 "Caracterización del Papel Fisiopatológico de miRNAs Circulantes Desregulados en el Hipogonadismo Inducido por Obesidad, como tipo II, con procedimientos clasificados como leves, moderado y sin recuperación "/ M^a Soledad Avendaño Herrera/ GC10"
8. 08/09/2020/104 "Proyecto desarrollo y validación de nuevos nanofármacos para el tratamiento de la enfermedad metabólica asociada a obesidad e hipogonadismo "/ Manuel Tena Sempere/ GC10
9. 20/04/2023/15 "Papel de la detección de grasa en el comportamiento alimentario y en el fenotipo metabólico alterado del síndrome de Prader-Willi" / Juan Manuel Castellano Rodríguez / GC10
10. 20/06/2023/46 "Obesidad inducida por el consumo de alimentos palatables: papel de las poblaciones neuronales hipotalámica y extra-hipotalámica" / Manuel Tena Sempere/ GC10
11. 21/03/2022/050 " Papel de los microARNs hipotalámicos en las alteraciones metabólicas y reproductoras asociadas al síndrome de Prader-Willi "/ Juan Manuel Castellano Rodríguez / GC10"
12. 29/03/2022/053 " Disección de las bases cerebrales de las alteraciones puberales inducidas por la obesidad: Una mirada a Kiss "/ Manuel Tena Sempere/ GC10
13. 1/06/2020/070 " Efectos de los cannabinoides en la enfermedad de Huntington" / Carmen María Navarrete Rueda/GC-04
14. 1/06/2020/071 "Estudio del efecto de fármacos en el modelo de traumatismo cerebral inducido"/Carmen María Navarrete Rueda/GC-04.
15. 1/06/2020/072 "Estudio del efecto de fármacos por vía tópica en el tratamiento de úlcera cutánea en ratón diabético" / Belén Palomares Cañero / GC04
16. 1/06/2020/073 "Estudio de eficacia de diferentes compuestos en un modelo murino de obesidad y síndrome metabólico"/ Belén Palomares Cañero / GC04
17. 31/03/2022/057 "Estudio del efecto de fármacos en modelo de isquemia extremidades inferiores" /Adela García Martín / GC04
18. 31/05/2021/088 "Estudio del efecto de fármacos en modelos de dermatitis atópica "/ Carmen María Navarrete Rueda/ GC-04
19. 07/04/2021/044 "Efecto de los cannabinoides en la esclerodermia"/ Adela García Martín / GC04
20. 12/12/2019/196 "Desarrollo de un modelo de ratón de Pseudomixoma peritoneal con xenoinplante humano"/ Álvaro Arjona Sánchez/GE09.

21. 15/03/2022/040 "Estimulación inmunogénica basada en terapia con células T autólogas combinada con inhibidores PDL1 y MEK en los subtipos moleculares de cáncer colorrectal" / Silvia Guil Luna / GC06
22. 23/09/2022/115 "Identificación de biomarcadores diagnósticos, pronósticos y terapéuticos en tumores neuroendocrinos y cáncer de páncreas" / Alejandro Ibáñez Costa / GC08
23. 08/03/2022/033 "Nuevos mecanismos moleculares en cáncer y en su interacción patológica con la obesidad" / Manuel David Gahete Ortiz / GC30
24. 08/02/2022/010 "Papel del FGF23 en la inducción de daño vascular asociado a la anemia con y sin enfermedad renal crónica" / Fátima Guerrero Pavón / GC07
25. 08/03/2021/031 "Efecto del suplemento probiótico sobre la función renal, la calcificación vascular y las alteraciones del metabolismo mineral en la enfermedad renal crónica. Estudios clínicos y experimentales" / Fátima Guerrero Pavón / GC07
26. 20/10/2022/133 "Estudio de los mecanismos implicados en el deterioro cognitivo asociado a la enfermedad renal crónica" / María Encarnación Rodríguez Ortiz / GC13"
27. 19/04/2023/13 "Nuevos biomarcadores y dianas moleculares en la interacción fisiopatológica entre alteraciones del metabolismo y diversos tipos de cáncer endocrino-metabólicos" / Raúl Miguel Luque Huertas / GC27"

12.3 FLOW CYTOMETRY AND ADVANCED OPTICAL MICROSCOPY UNIT

12.3.1 FLOW CYTOMETRY



STAFF

Esther Peralbo Santaella, PhD

Head of Unit and Flow Cytometry Technical Specialist- Competitive contract from Programme for Linking Technicians to Common Research Support Structures; Funding Agency: Andalusian Health Service, Junta de Andalucía; Reference: S.A. 0008/22.

María García Cruz

Laboratory technician. Contract from INVESTIGO Programme; Funding Agency: Regional Ministry of Employment, Business and Self-Employment, Junta de Andalucía. 2022.

BRIEF DESCRIPTION

The mission of the Unit is to offer access to high performance equipment that covers a broad spectrum of applications in the field of Flow Cytometry to IMIBIC and hospital setting researchers, and to other public institutions and private sector, as well as to provide technical expertise and training. The Unit also provides scientific-technical advice on experimental design, sample preparation, Cytometry data analysis and interpretation of results.

EQUIPMENT AND FACILITIES

Analysers:

- » **BD LSRFortessa SORP:** 5 lasers (355, 405, 488, 561 and 640 nm) and capable of analysing up to 18 fluorescence parameters + FSC/SSC. Filter for violet SSC.
- » **BD FACSCanto II:** 3 lasers (405 nm, 488 nm and 633 nm) and capable of analysing 8 fluorescence parameters + FSC/SSC. Multi-tube Carousel Loader (up to 40 tubes). Filter for violet SSC.
- » **BD FACSCalibur:** 1 laser (488 nm). Capable of analysing 3 fluorescence parameters + FSC/SSC.

Cell sorter:

- » **BD FACSAria III:** 3 lasers (407, 488 and 633 nm) and capable of analysing 13 parameters simultaneously (11 fluorescence parameters + FSC/SSC). Four-way and single-cell sorting capabilities. Collection of sorted cells: into tubes, onto plates or slides. Temperature control. Aerosol Management Option (AMO).

Others:

- » **PC workstation with BD FlowJo v.10** flow cytometry analysis software (dongle license).

MAIN SERVICES

- Self-use (Operator-unassisted) of flow cytometry analysers (only for IMIBIC users properly trained by us to use the equipment).
- Operator-assisted use of the analysers on demand.
- Cell sorting: only provided as an operator-assisted service.
- Flow Cytometry data analysis on demand. The unit also offers registered users access to PC workstation with BD FlowJo data analysis software.
- Advice on experimental and multicolor panel design, sample preparation methods, interpretation and presentation of data, and writing of the “material and methods” section of Flow Cytometry.
- Developing/implementing Flow Cytometry assays/applications responding to the user needs.

KEY FACTS

In 2023, the number of Unit staff was increased with the addition of a new laboratory technician.

NUMBER OF IMIBIC USERS: **28 (11 RESEARCH GROUPS)**

NUMBER OF EXTERNAL USERS: **3 (2 EXTERNAL CENTRES)**

NUMBER OF SUPPORTED INTERNAL PROJECTS: **23**

COURSES AND TRAINING SESSIONS: **3**

QUALITY CERTIFICATES: **ISO 9001:2015 standard for the Quality Management System**

FEATURED ARTICLES

Co-authorship:

Fuentes-Fayos, Antonio C et al. “Metformin and simvastatin exert additive antitumour effects in glioblastoma via senescence-state: clinical and translational evidence.” *EBioMedicine* vol. 90 (2023): 104484. doi:10.1016/j.ebiom.2023.104484.

Articles acknowledging the technical support of the Unit:

1. Álvarez-Heredia, Pablo et al. “A Straightforward Cytometry-Based Protocol for the Comprehensive Analysis of the Inflammatory Valve Infiltrate in Aortic Stenosis.” *International journal of molecular sciences* vol. 24,3 2194. 22 Jan. 2023, doi:10.3390/ijms24032194
2. Álvarez-Heredia, Pablo et al. “Accelerated T-Cell Immunosenescence in Cytomegalovirus-Seropositive Individuals After Severe Acute Respiratory Syndrome Coronavirus 2 Infection.” *The Journal of infectious diseases* vol. 228,5 (2023): 576-585. doi:10.1093/infdis/jiad119.
3. Mena-Osuna, Rafael et al. “Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer.” *The Journal of pathology* vol. 260,3 (2023): 261-275. doi:10.1002/path.6080.
4. Fernández-Moreno, Raquel et al. “Memory SARS-CoV-2 T-cell response in convalescent COVID-19 patients with undetectable specific IgG antibodies: a comparative study.” *Frontiers in immunology* vol. 14 1142918. 26 Apr. 2023, doi:10.3389/fimmu.2023.1142918.
5. Guil-Luna, Silvia et al. “Clinical significance of glycogen synthase kinase 3 (GSK-3) expression and tumor budding grade in colorectal cancer: Implications for targeted therapy.” *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie* vol. 167 (2023): 115592. doi:10.1016/j.biopha.2023.115592.
6. Lagal, Daniel J et al. “Loss of PRDX6 Aborts Proliferative and Migratory Signaling in Hepatocarcinoma Cell Lines.” *Antioxidants (Basel, Switzerland)* vol. 12,6 1153. 25 May. 2023, doi:10.3390/antiox12061153.

PROJECTS

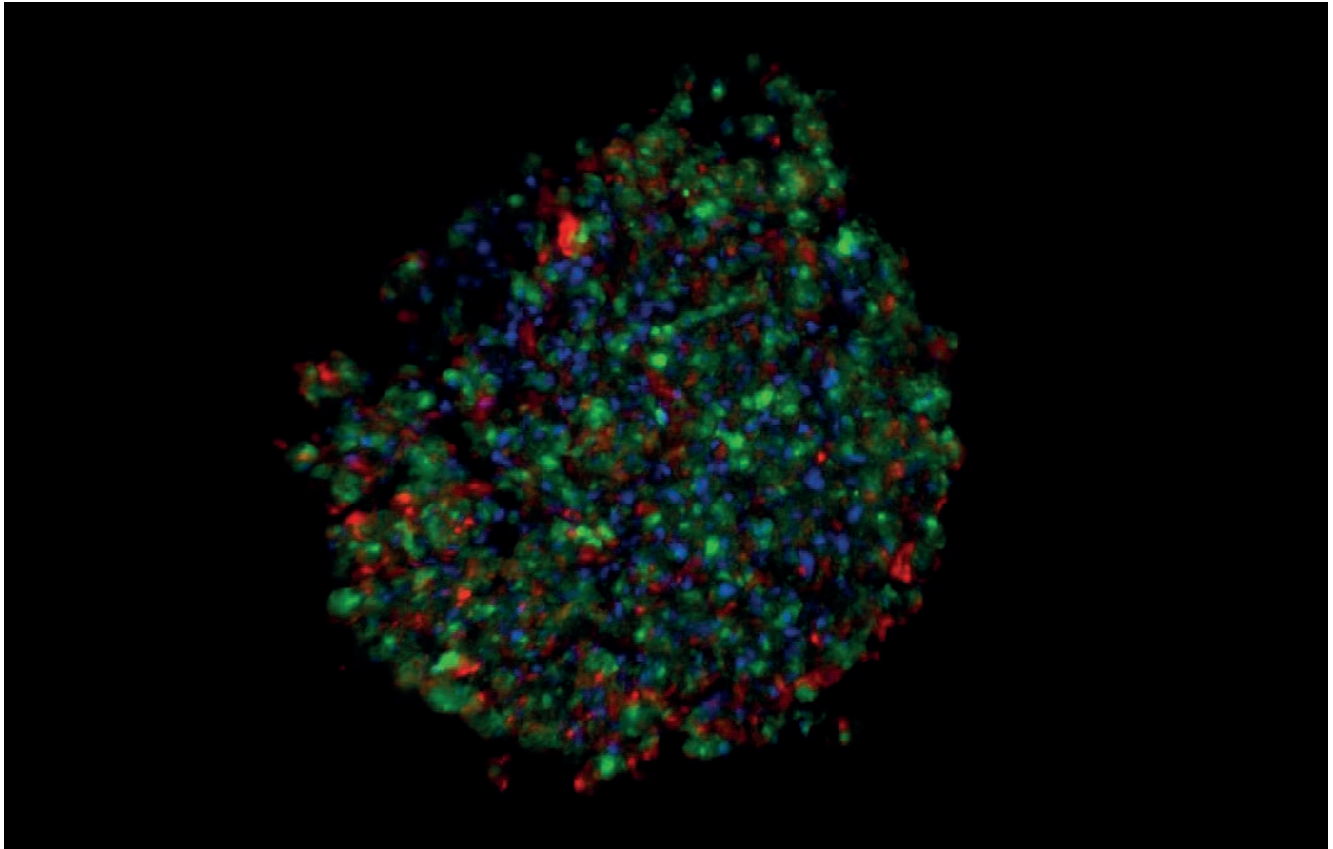
1. Identificación de biomarcadores de riesgo asociados a la respuesta inmunológica frente a la infección por SARS-CoV-2. IP: Alejandra Pera Rojas, Juan Molina Alcaide. Funding Agency: Consejería de Salud y Familias JA; Reference: PECOVID-0053-2020. (GC01)
2. Aortic stenosis immunopathology (ASim). IP: Alejandra Pera Rojas. Funding Agency: ISCiii; Reference: PI19/00075. (GC01)

3. FluVag-Tregs – Immunosenescence and immune responses to influenza vaccination. Use of antisense oligonucleotides targeting regulatory T cells to improve vaccine efficacy. IP: Alexander Batista Duharte. Funding Agency: ISCiii; Reference: CP22/00111. (GC01)
4. Análisis integrado mediante tecnologías ómicas e inteligencia artificial para la identificación e implementación de herramientas de medicina personalizada en las espondiloartritis (Estudio PREMEDSPA). IP: Eduardo Collantes Estévez. Funding Agency: ISCiii; Reference: PMP21/00119. (GC05)
5. Nitric oxide and metabolic reprogramming in colorectal cancer: identification of novel therapeutic targets. IP: Antonio Rodríguez Ariza. Funding Agency: AGENCIA ESTATAL DE INVESTIGACIÓN; Reference: PID2019-105256RB-I00. (GC06)
6. Nitric oxide-driven metabolic rewiring as a therapeutic target in colorectal cancer. IP: Antonio Rodríguez Ariza. Funding Agency: CONSEJERÍA DE UNIVERSIDAD, INVESTIGACIÓN E INNOVACIÓN; Reference: P20_00967. (GC06)
7. La actividad funcional de las células “natural killer” y la citotoxicidad mediada por células dependientes de anticuerpo para la predicción de la respuesta al tratamiento anti-EGFR en cáncer colorrectal. IP: Enrique Aranda Aguilar. Funding Agency: ISCiii; Reference: PI20/00997. GC06
8. Riesgo cardiovascular y depuración de toxinas urémicas: nuevas estrategias terapéuticas basadas en nanotecnología. IP: Fátima Guerrero Pavón. Funding Agency: CONSEJERÍA DE SALUD Y CONSUMO; Reference: PI-0130-2022. (GC07)
9. Perfil de citoquinas linfocitarias y desarrollo de anticuerpos anti-HLA en pacientes trasplantados de órganos sólidos con uremia. IP: María Luisa Agüera Morales. Funding Agency: SOCIEDAD ESPAÑOLA DE NEFROLOGÍA; Reference: SEN21/01. (GC07)
10. Neoantígenos derivados del splicing como dianas de la inmunoterapia en cáncer de páncreas (SplicImmuno). IP: Justo P. Castaño/Alejandro Ibáñez Costa. Funding Agency: AESPANC; Reference: AESPANC-2022-01. (GC08)
11. Análisis molecular de la resistencia a análogos de somatostatina en feocromocitomas y paragangliomas. IP: Alejandro Ibáñez Costa. Funding Agency: Becas Junior GETNE; Reference: GJ2208. (GC08)
12. Investigación traslacional sobre el hipogonadismo inducido por obesidad: Bases fisiopatológicas e implicaciones para la mejora diagnóstica y terapéutica. IP: Manuel Tena Sempere. Funding Agency: Junta de Andalucía; Reference: P18-RT-4093. (GC10)
13. Mecanismos sensores del estado metabólico y nutricional en neuronas Kiss1: implicaciones en el control de la pubertad y sus alteraciones en condiciones de obesidad. IP: Manuel Tena Sempere. Funding Agency: Agencia Estatal de Investigación; Reference: PID2020-118660GB-I00. (GC10)
14. Desarrollo preclínico de CAR-T anti CD19 universales con subpoblaciones predeterminadas de memoria y efectoras y expresión inducible del CAR. IP: Inmaculada Concepción Herrera Arroyo. Funding Agency: ISCiii; Reference: PI18/01610. (GC14)
15. Estudio de la movilización de células precursoras endoteliales y de la capacidad regenerativa en pacientes tratados con sitagliptina y calcifediol. IP: Antonio Casado Díaz. Funding Agency: FUNDACIÓN ESPAÑOLA DE INVESTIGACIÓN ÓSEA Y DEL METABOLISMO MINERAL; Reference: FEIOMM2022_001. (GC17)
16. Evaluación de la intervención nutricional personalizada junto con la aplicación de exosomas derivados de MSC en la capacidad regenerativa y cicatrización de úlceras cutáneas en diabéticos. IP: Antonio Casado Díaz, Alfonso Calañas Continente. Funding Agency: ISCiii; Reference: PI21/01935. (GC17)
17. Caracterización de exosomas derivados de MSC y su efecto combinado con 25 Hidroxivitamina D3 e inhibidores de la DPP4 sobre la cicatrización en diabéticos de úlceras cutáneas. IP: Antonio Casado Díaz, José Manuel Quesada Gómez. Funding Agency: ISCiii; Reference: PI18/01659. (GC17)
18. Identificación de nuevas dianas diagnósticas, pronósticas y/o terapéuticas en tumores hipofisarios asociadas a la (des) regulación de los mecanismos de expresión génica y estabilidad genómica. IP: Raúl M Luque Huertas. Funding Agency: Junta de Andalucía; Reference: P20_00442. (GC27)
19. Daño pulmonar en el Trastorno Mental Grave: factores de riesgo, evolución, y repercusión clínica, cognitiva y funcional. IP: Fernando Sarramea Crespo. Funding Agency: ISCiii; Reference: PI20/01657. (GA12)
20. Reparación de sitios abásicos inducidos por agentes metilantes de ADN en células vegetales y humanas: papel de una ruta independiente de AP endonucleasas. IP: Teresa Roldán Arjona. Funding Agency: AGENCIA ESTATAL DE INVESTIGACIÓN; Reference: PID2019-109967GB-I00. (GC22)
21. Funciones epigenéticas y reparadoras de la escisión de bases del ADN. IP: Teresa Roldán Arjona. Funding Agency: AGENCIA ESTATAL DE INVESTIGACIÓN; Reference: PID2022-140458NB-I00. (GC22)
22. Characterization and validation of new therapeutic, diagnostic and prognostic targets in Pseudomyxoma Peritonei. IP: Álvaro Arjona y Antonio Romero. Funding Agency: ISCiii; Reference: PI22/01213. (GE09)
23. Validation of new therapeutic targets for a rare malignant disease: The Pseudomyxoma Peritonei. IP: Álvaro Arjona. Funding Agency: Asociación Española Contra el Cáncer; Reference: PRYES223170ARJO. (GE09)

COURSES AND WORKSHOPS

1. Course: “Fundamentos y Aplicaciones Biomédicas de la Citometría de flujo. 3ª Ed.”. Training activity accredited by the Andalusian Agency for Healthcare Quality-ACSA (1,32 credits), and linked to Biomedicine PhD Program Training Plan at the University of Cordoba. 6th, 7th and 8th November.
2. Workshop: “Diseño de Paneles Multicolor en Citometría de Flujo”; Becton Dickinson (BD). 7th March.
3. Seminar: “Seminario avanzado en el manejo del software de análisis para Citometría de Flujo BD FlowJo™ - High Dimensional”; Becton Dickinson (BD). 17th April.

12.3.2 ADVANCED OPTICAL MICROSCOPY UNIT



STAFF

Gema García Jurado, PhD

Head of Unit. Microscopy Technical Specialist– Contract, ISCIII Biobanks and Biomodels Platform. PT20/00079.

Alvaro Carrasco Carmona, PhD

Senior Microscopy Technical Specialist – Contract, Investigo Programme (2021-C23.I01.P03.S0020-0000004).

BRIEF DESCRIPTION

The Advanced Optical Microscopy Unit of IMIBIC offers IMIBIC researchers and to both public and used in biomedical research.

The aim of the service is to provide comprehensive support to researchers as well as to provide scientific and technical advice and support on experimental design, sample preparation, image processing-analysis and data interpretation.

EQUIPMENT AND FACILITIES

» **EQUIPPED WITH:**

- » **Zeiss LSM 710 Spectral Confocal Laser Scanning Microscope:** inverted motorized stand. 7 laser lines: 405, 458, 488, 514, 543, 594 and 633 nm. Scanning module with 3 spectral R/FL detection channels (PMTs) and 1 transmitted-light channel (PMT). Integrated large incubation chamber.
- » **Leica THUNDER Imager 3D assay:** Motorized inverted microscope and software with THUNDER Computational Clearing. 4 Filter cubes for DAPI, FITC, Rhod and Cy5. Illumination: epifluorescence, brightfield and phase contrast.
- » **Zeiss PALM MicroBean. Laser Microdissection:** one excitation laser line (355nm) fully motorized, with high precision cutting and catapulting, and “cap check” system. Transmitted light techniques (bright field, phase contrast), 4 filter cubes for DAPI, FITC, Red and Cy5.
- » **Zeiss Axio Vert.A1** inverted **fluorescence** microscope. Illumination: brightfield and epifluorescence. Filter cubes for DAPI, FITC and Cy3. Digital monochrome CCD camera.
- » **Leica DM2000 LED** Upright microscope with LED **transmitted light** illumination. Digital camera color HD.
- » **NikonEclipse Ti-S** inverted microscope with Illumination: brightfield and contrast phase. Digital camera color.
- » **Image Analysis Workstation:** AIVIA CellBio, FIJI, LAS X, Zen Blue, QuPath, CellPose.

» APPLICATIONS

The main applications carried out at the Area include:

- Laser Scanning Confocal Microscopy
- Automated Wide-Field Microscopy
- High content screening
- Live 3D imaging
- On-line computational clearing
- Laser cutting
- Spectral imaging and linear unmixing
- Image processing and analysis

MAIN SERVICES

- Self-use (Operator-unassisted) of microscopy equipment.
- Operator-assisted use of the instruments.
- Processing and analysis of Image.
- Advice and support on experimental design, sample preparation methods, image interpretation and results presentation.
- Developing/implementing microscopy assays/applications, and image analysis tools responding to the user needs.

KEY FACTS

NUMBER OF IMIBIC USERS: **80 (19 RESEARCH GROUPS)**

NUMBER OF EXTERNAL USERS: **2 (UNIVERSITY OF CORDOBA)**

NUMBER OF INTERNAL PROJECTS SUPPORTED: **42**

COURSES AND TRAINING SESSIONS: **30**

NEW INTERNAL SERVICES: **6**

FEATURED ARTICLES

A total of 15 scientific articles using data generated from the Unit were published during 2023. Articles with co-authorship and those for which the Unit support has been acknowledged are detailed below:

1. Mena-Osuna R, Mantrana A, Guil-Luna S, Sánchez-Montero MT, Navarrete-Sirvent C, Morales-Ruiz T, Rivas-Crespo A, Toledano-Fonseca M, García-Ortíz MV, **García-Jurado G**, Gómez-España MA, González-Fernández R, Villar C, Medina-Fernández FJ, Villalba JM, Aranda E, Rodríguez-Ariza A. **Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer.** J Pathol. 2023 Apr 5. doi: 10.1002/path.6080. Epub ahead of print. PMID: 37017456.
2. Guil-Luna S, Rivas-Crespo A, Navarrete-Sirvent C, Mantrana A, Pera A, Mena-Osuna R, Toledano-Fonseca M, García-Ortíz MV, Villar C, Sánchez-Montero MT, Krueger J, Medina-Fernández FJ, De La Haba-Rodríguez J, Gómez-España A, Aranda E, Rudd CE, Rodríguez-Ariza A. **Clinical significance of glycogen synthase kinase 3 (GSK-3) expression and tumor budding grade in colorectal cancer: Implications for targeted therapy.** Biomed Pharmacother. 2023 Sep 28;167:115592. doi: 10.1016/j.biopha.2023.115592. Epub ahead of print. PMID: 37778272.
3. Vergara N, de Mier MVP, Rodelo-Haad C, Revilla-González G, Membrives C, Díaz-Tocados JM, Martínez-Moreno JM, Torralbo AI, Herencia C, Rodríguez-Ortiz ME, López-Baltanás R, Richards WG, Felsenfeld A, Almadén Y, Martín-Malo A, Ureña J, Santamaría R, Soriano S, Rodríguez M, Muñoz-Castañeda JR. **The direct effect of fibroblast growth factor 23 on vascular smooth muscle cell phenotype and function.** Nephrol Dial Transplant. 2023 Feb 13;38(2):322-343. doi: 10.1093/ndt/gfac220. PMID: 35867864; PMCID: PMC9923714.
4. Jiménez-Izquierdo R, Morrugares R, Suanes-Cobos L, Correa-Sáez A, Garrido-Rodríguez M, Cerero-Tejero L, Khan OM, de la Luna S, Sancho R, Calzado MA. **FBXW7 tumor suppressor regulation by dualspecificity tyrosine-regulated kinase 2.** Cell Death Dis. 2023 Mar 18;14(3):202. doi: 10.1038/s41419-023-05724-0. PMID: 36934104; PMCID: PMC10024693.
5. López-Alcalá J, Soler-Vázquez MC, Tercero-Alcázar C, Sánchez-Ceinos J, Guzmán-Ruiz R, Malagón MM, Gordon A. **Rab18 Drift in Lipid Droplet and Endoplasmic Reticulum Interactions of Adipocytes under Obesogenic Conditions.** Int J Mol Sci. 2023 Dec 6;24(24):17177. doi: 10.3390/ijms242417177. PMID: 38139006; PMCID: PMC10743551.
6. Lagal DJ, López-Grueso MJ, Pedrajas JR, Leto TL, Bárcena JA, Requejo-Aguilar R, Padilla CA. **Loss of PRDX6 Aborts Proliferative and Migratory Signaling in Hepatocarcinoma Cell Lines.** Antioxidants (Basel). 2023 May 25;12(6):1153. doi: 10.3390/antiox12061153. PMID: 37371884; PMCID: PMC10294896.
7. López-Cánovas JL, Hermán-Sánchez N, Del Río-Moreno M, Fuentes-Fayos AC, Lara-López A, Sánchez-Frias ME, Amado V, Ciria R, Briceño J, de la Mata M, Castaño JP, Rodríguez-Perálvarez M, Luque RM, Gahete MD. **PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing.** Exp Mol Med. 2023 Jan;55(1):132-142. doi: 10.1038/s12276-022-00917-7. Epub 2023 Jan 6. PMID: 36609600; PMCID: PMC9898568.

PROJECTS

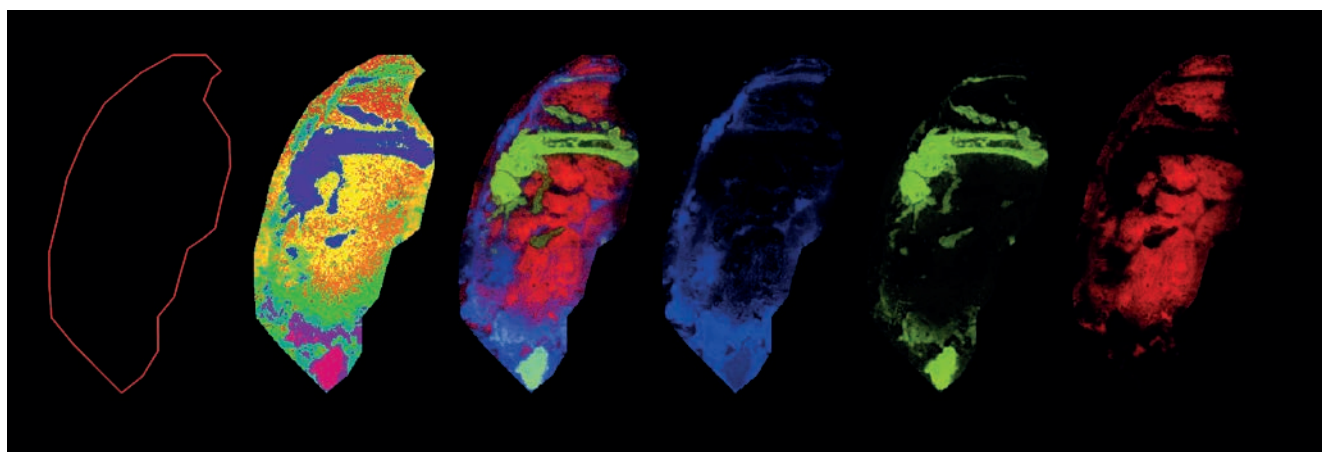
1. PI18/01736. Liberación de células tumorales circulantes tras la ablación local del hepatocarcinoma. Manuel de la Mata García. GC02
2. PI-0219-2022. Proyectos I+D+i CSyC 2022: La biopsia líquida como herramienta para predecir la respuesta del paciente de hepatocarcinoma a la inmunoterapia. Manuel de la Mata García. GC02
3. CNS2022-135922. Diseño de andamios 3D para la liberación de controlada de fármacos hipoximéticos y su aplicación el tratamiento de la enfermedad vascular periférica y otras enfermedades cardíacas. Adela García Martín. GC04
4. PY20_00470. Nuevas Fronteras en Imagen Molecular: Integración de Radiogenómica y Metabolómica en la Mejora Diagnóstica del Cáncer de Pulmón. Marco Antonio Calzado Canale. GC04
5. PID2021-124314OB-I00. Nuevas Funciones de la Quinasa DYRK2 sobre el control de la Proliferación y el Ciclo Celular. Modulación de la Ruta de MAPK/ERK y Sistema Ubiquitina Proteosoma. Marco Antonio Calzado Canale. GC04
6. PI20/00079. Pathological mechanisms involved in liver disease associated with chronic inflammatory arthritis. Nuria Barbarroja Puerto. GC05
7. PI23/00489. Aberrant S-nitrosylation at the intersection of metabolism and autophagy in colorectal cancer: therapeutic opportunities. Antonio Rodríguez Ariza. GC06
8. PID2019-105256RB-I00. Nitric oxide and metabolic reprogramming in colorectal cancer: identification of novel therapeutic targets. Antonio Rodríguez Ariza. GC06
9. P20-00967. Nitric oxide-driven metabolic rewiring as a therapeutic target in colorectal cancer. Antonio Rodríguez Ariza. GC06
10. PI2000997. La actividad funcional de las células "natural killer" y la citotoxicidad mediada por células dependientes de anticuerpo para la predicción de la respuesta al tratamiento anti-EGFR en cáncer colorrectal. Antonio Rodríguez Ariza. GC06
11. PI-0130-2022. Proyectos I+D+i CSyC 2022: RIESGO CARDIOVASCULAR Y DEPURACIÓN DE TOXINAS URÉMICAS: NUEVAS ESTRATEGIAS TERAPÉUTICAS BASADAS EN NANOTECNOLOGÍA. Fátima Guerrero Pavón. GC07
12. AESPANC-2022-01. Neoantígenos derivados del splicing como dianas de la inmunoterapia en cáncer de páncreas (SplicImmuno). Justo P. Castaño, Alejandro Ibáñez Costa. GC08
13. GJ2208. Análisis molecular de la resistencia a análogos de somatostatina en feocromocitomas y paragangliomas. Alejandro Ibáñez Costa. GC08
14. PID2019-105201RB-I00. Descifrando la heterogeneidad de los tumores neuroendocrinos mediante una aproximación spliceosómica y de biología del ARN: potencial valor diagnóstico y terapéutico. Justo P. Castaño. GC08
15. DTS20/00117. Desarrollo y validación de nuevos nanofármacos para el tratamiento de la enfermedad metabólica asociada a obesidad e hipogonadismo. Manuel Tena Sempere. GC10
16. PI19/00257. Implicaciones fisiopatológicas y valor diagnóstico de miRNAs candidatos involucrados en el desarrollo temprano de obesidad y enfermedad metabólica. Estudio CHILDEM. Juan Roa Rivas. GC10
17. PI21/01770. Caracterización del Papel Fisiopatológico de miRNAs Circulantes Desregulados en el Hipogonadismo Inducido por Obesidad. María Soledad Avendaño Herrador. GC10
18. STAYHLTH-01-05_01. eprObes - Preventing lifetime obesity by early risk-factor identification, prognosis and intervention. Manuel Tena Sempere. GC10
19. BSE-PSG-2021-02. CRISPR/Cas9 technology for conditional (cell-specific) genome editing in somatic cells. David García Galiano. GC10
20. PID2019-108403RB-I00. Caracterización del matrisoma del tejido adiposo y papel de la remodelación de la matriz extracelular en la resistencia a insulina asociada a obesidad. Maria del Mar Malagón Poyato. GC11
21. ProyExcel_00704. BÚSQUEDA DE NUEVAS APLICACIONES EN NANOMEDICINA PERSONALIZADA BASADAS EN LOS MECANISMOS DE COMUNICACIÓN INTERCELULAR DEL TEJIDO ADIPOSO EN OBESIDAD. Ana Gordon Bermúdez-Coronel. GC11
22. PI-0071-2021. Suplementos de Magnesio como tratamiento de la progresión de la fibrosis renal y cardíaca. Juan Mariano Rodríguez Portillo. GC13
23. PI-0169-2020. Estudio del papel de FGF23 como inductor de hipertensión arterial y disfunción vascular en pacientes con enfermedad renal crónica. Juan Rafael Muñoz Castañeda. GC13
24. PI20/00660. Basic and clinical studies related to the role of magnesium on renal and cardiac fibrosis progression. Juan Mariano Rodríguez Portillo. GC13
25. PI21/00654. Estudio del papel de FGF23 como inductor de hipertensión arterial y disfunción vascular en pacientes con enfermedad renal crónica. Juan Rafael Muñoz Castañeda. GC13
26. ICI22/00090. DISMINUIR LA ABSORCIÓN INTESTINAL DE FÓSFORO COMO ESTRATEGIA PARA ENLENTECER LA PROGRESIÓN DE LA ENFERMEDAD RENAL CRÓNICA EN PACIENTES DE ATENCIÓN PRIMARIA. Juan Mariano Rodríguez Portillo. GC13
27. PI21/00269. Nutritional and pharmacological modulation of mTOR signaling pathway in the context of renal disease - the role of SGLT2 inhibitors. Escolástico Aguilera Tejero. GC13
28. FEIOMM2022_001. Estudio de la movilización de células precursoras endoteliales y de la capacidad regenerativa en pacientes tratados con sitagliptina y calcifediol. Antonio Casado Díaz. GC17
29. PI21/01935. Evaluación de la intervención nutricional personalizada junto con la aplicación de exosomas derivados de MSC en la capacidad regenerativa y cicatrización de úlceras cutáneas en diabéticos. Antonio Casado Díaz, Alfonso Calañas Continente. GC17
30. PI18/01659. Caracterización de exosomas derivados de MSC y su efecto combinado con 25 Hidroxivitamina D3 e inhibidores de la DPP4 sobre la cicatrización en diabéticos de úlceras cutáneas. Antonio Casado Díaz, José Manuel Quesada Gómez. GC17

31. **MICIN PID2022-140458NB-I00.** Funciones epigenéticas y reparadoras de la escisión de bases del ADN. Teresa Roldán Arjona. GC22
32. MSCA-Cofund GA: 847468. Repair of temozolomide-induced DNA damage in tumour cells:role in glioblastoma resistance to chemotherapy. M^a Isabel Martínez Macías. GC22
33. PI-0094-2020. Papel del sistema GOAT/Ghrelin en la interacción fisiopatológica entre la obesidad y el cáncer de próstata: identificación de nuevas herramientas de diagnóstico, pronóstico y dianas terapéuticas personalizadas. André Moraes Sarmiento Borges Cabral. GC27
34. PI20/01301. Altered splicing process in chronic liver disease progression and hepatocarcinogenesis: a novel source for diagnostic, prognostic and therapeutic. Manuel David Gahete Ortiz. GC30
35. PI20/00375. Novel mechanisms and therapeutic targets involved in the progression of hemoglobin associated renal damage. Juan Antonio Moreno Gutiérrez. GE06
36. 116200130052. FEDER: Caracterización de nuevos mecanismos y posibles dianas terapéuticas implicadas en la progresión del daño renal en patologías asociadas a acumulación de hemoglobina. Jose Luis Morgado Pascual. GE06
37. PIGE-0052-2020-FEDER. Caracterización de nuevos mecanismos y posibles dianas terapéuticas implicadas en la progresión del daño renal en patologías asociadas a acumulación de hemoglobina. Jose Luis Morgado Pascual. GE06
38. PI21/01829. Development of Adipose Tissue-Based Therapies for Treatment of Corneal Endothelial Dysfunction. Miguel González Andrades. GE07
39. ICI19/00006. ENSAYO CLÍNICO FASE I-II MULTICÉNTRICO PARA EVALUAR SEGURIDAD Y EFICACIA DE UN MEDICAMENTO DE TERAPIA AVANZADA BASADO EN UNA CÓRNEA ARTIFICIAL DE PÉPTIDOS SIMILARES AL COLÁGENO CON CÉLULAS EPITELIALES PARA EL TRATAMIENTO DE ENFERMEDADES CORNEALES SEVERAS. Miguel González Andrades. GE07
40. 116190130194. Generación y evaluación in vivo de matrices bioartificiales descelularizadas y gamma irradiadas a partir de xenoinjertos porcinos para su aplicación en terapias avanzadas en córnea y cartílago. Miguel González Andrades. GE07
41. PI19/01603. Caracterización molecular del Pseudomixoma Peritoneal y desarrollo de biomarcadores y terapias diana en un modelo de ratón con xenoinjerto humano. Álvaro Arjona Sánchez. GE09
42. PI22/01213. Characterization and validation of new therapeutic, diagnostic and prognostic targets in Pseudomyxoma Peritonei. Álvaro Arjona Sánchez. GE09

COURSES AND WORKSHOPS

30 specific training for research groups in the use of microscopy equipment, technical applications and image analysis related to Unit equipment.

12.4 IMBIC MASS SPECTROMETRY AND MOLECULAR IMAGING UNIT (IMSMI)



STAFF

Eduardo Chicano Gálvez, PhD

Core Facility Coordinator.

Mass Spectrometry Specialist: LC-MS, MS Imaging. Bioinformatics and data analysis.

- Recipient of a competitive contract under the “Programme for Linking Technicians to Common Research Support Structures” call for proposals; Funding Agency: ANDALUSIAN HEALTH SERVICE; Reference: RF2-0003-2020.

Ángela Peralbo Molina, PhD

Mass Spectrometry Specialist (Lipidomics and metabolomics)

- Recipient of a competitive contract under the “Programme for Linking Technicians to Common Research Support Structures” call for proposals; Funding Agency: ANDALUSIAN HEALTH SERVICE; Reference: RF2-0013-2022

Cristina María López Vázquez, PhD

Mass Spectrometry Junior Specialist

- Recipient of a contract under the “Investigo Programme call”; Funding Agency: Ministry of Work and Social Economy; Reference: 2021-C23.I01.P03.S0020-0000004.

BRIEF DESCRIPTION

IMIBIC's Mass Spectrometry and Molecular Imaging Unit (IMSMI) provides highly specialised support in the latest mass spectrometry techniques available to researchers and users who require it. This Unit specialises in offering services in three of the major omics, such as Proteomics, Lipidomics and Metabolomics. It is also highly specialised in Molecular Imaging (MS Imaging).

The IMSMI Unit provides researchers with state-of-the-art technologies in the field and offers its services to IMIBIC research groups, as well as to the University of Cordoba, Reina Sofia University Hospital, other universities, hospitals, and private sector companies.

This Unit has four main lines of work:

- i) Clinical Proteomics line consisting of high-performance liquid chromatography (Evosep-One) coupled with mass spectrometry (LC-MS/MS). It provides researchers and users with access to label-free quantitative clinical proteomic analysis in liquids (DDA, DIA-PASEF and PRM-PASEF). Studies that can be developed range from small pilot experiments and small populations to large experiments with hundreds of samples requiring superior speed and quality.
- ii) Lipidomics line consisting of ultra-high performance liquid chromatography coupled with mass spectrometry (LC-MS/MS). It provides a service for the identification and quantification of lipid species in samples in a targeted or untargeted manner at high resolution.
- iii) Metabolomics line consisting of ultra-high performance liquid chromatography coupled with mass spectrometry (LC-MS/MS). It offers a service for the identification and quantification of metabolites in samples in a targeted or untargeted manner at high resolution.
- iv) Molecular Imaging (MS Imaging), which provides researchers and users with spatial information about metabolites, lipids, proteins/peptides directly from tissues and biopsy specimens.

The IMSMI Unit provides individualised support tailored to user needs, including project planning/experimental design, sample preparation, mass spectrometry analysis and basic and advanced data analysis, with the latest developments available in its area of expertise.

EQUIPMENT AND FACILITIES

- Q-TOF mass spectrometer, MALDI-TOF, TIMSTOF-Flex (Bruker) (Last update:2022)
- Q-TOF mass spectrometer, TIMSTOF-Pro (Bruker) (Last update: 2021)
- EVOSEP-ONE (Evosep) (Last update: 2021)
- ELUTE UHPLC (Bruker) (Last update: 2021)
- Sprayer: HTX M5 (HTX Technologies) (Last update: 2021)
- Main programs (and programming languages) used for data analysis: Spectronaut TransProteomicsPipeline, MS-Fragger for protein identification; Skyline, DIANN, MS-Fragger for protein quantification and spectral library generation; Tissue View, MSiReader, Spectralanalysis, Cardinal, SCILS for Maldi Imaging MS. R, Python programming languages for general analysis purposes. MetaboScape and TASQ for metabolomics (lipidomics workflow) (Last update: 2018 - 2023)
- BPS: ProteoScape™ Parallel Search Engine in Real-time (Bruker) (Last update: 2023)
- Spectronaut: DIA analysis for protein identification and quantification (SN18, Last update: 2023)
- Basic laboratory equipment for sample preparation (Last update: 2014)

MAIN SERVICES

- Identification and characterization of proteins by LC-MS/MS: DDA-PASEF
- Quantitative Proteomics:
 - DIA-PASEF
 - DDA-PASEF
 - PRM-PASEF
 - Clinical Proteomics analysis using Evosep-One
- Lipidomics and Metabolomics: Identification, characterization and/or quantification of small molecules in a wide range of samples.
- MALDI Imaging mass spectrometry (Proteomics/Lipidomics/Metabolomics)
- Project supervision and collaboration
- Training in the software used for data analysis

KEY FACTS

NUMBER OF IMIBIC USERS: 8
NUMBER OF EXTERNAL USERS: 17
NUMBER OF PUBLICATIONS: 5
NUMBER OF MEETINGS WITH USERS GROUPS: 134
NUMBER OF TECHNICAL INTERVENTIONS IN THE UNIT: 2072
PARTICIPATION IN INTERLABORATORY COMPARISON STUDIES: 1
QUALITY CERTIFICATES: 1

FEATURED ARTICLES

1. Development of a Prediction Model for Short-Term Remission of Patients with Crohn's Disease Treated with Anti-TNF Drugs. Rosario Medina-Medina et al. Int. J. Mol. Sci. 2023, 24(10), 8695; <https://doi.org/10.3390/ijms24108695>
2. Development of a Prediction Model for Short-Term Remission of Patients with Crohn's Disease Treated with Anti-TNF Drugs. Rosario Medina-Medina, Eva Iglesias-Flores, Jose M. Benítez, Sandra Marín-Pedrosa, Isabel Salguero-Rodríguez, Clara I. Linares, Sandra González-Rubio, Pilar Soto-Escribano, Beatriz Gros, Manuel L. Rodríguez-Perálvarez, José L. Cabriada, María Chaparro, Javier P. Gisbert, Eduardo Chicano-Gálvez, Ignacio Ortea, Gustavo Ferrín, Valle García-Sánchez and Patricia Aguilar-Melero. Int. J. Mol. Sci. 2023, 24(20), 8695. May 12, 2023. <https://doi.org/10.3390/ijms24108695>
3. The thrombus proteome in stroke reveals a key role of the innate immune system and new insights associated with its aetiology, severity and prognosis. Chary Lopez-Pedraza, Rafael Oteros, Alejandro Ibáñez-Costa, María Luque-Tévar, Laura Muñoz-Barrera, Nuria Barroja, Eduardo Chicano-Gálvez, Juan Marta-Enguita, Josune-Orbe, Francisco Velasco, Carlos Perez-Sánchez. Journal of thrombosis and haemostasis. April 24, 2023 DOI:<https://doi.org/10.1016/j.jtha.2023.04.015>
4. Spatial and Temporal Protein Modules Signatures Associated with Alzheimer Disease in 3xTg-AD Mice Are Restored by Early Ubiquinol Supplementation. Emilio Llanos-González, Francisco J. Sancho-Bielsa, Javier Frontiñán-Rubio, Yoana Rabanal-Ruiz, Sonia García-Carpintero, Eduardo Chicano, Isabel Úbeda-Banon, Alicia Flores-Cuadrado, Lydia Giménez-Llort, Francisco Javier Alcaín, Juan Ramón Peinado and Mario Durán-Prado. Antioxidants 2023, 12(3), 747; <https://doi.org/10.3390/antiox12030747>
5. Data Processing and Analysis in Mass Spectrometry-Based Metabolomics. Ángela Peralbo-Molina, Pol Solà-Santos, Alexandre Perera-Lluna, Eduardo Chicano-Gálvez. Methods Mol Biol. 2023;2571:207-239. doi: 10.1007/978-1-0716-2699-3_20

PROJECTS

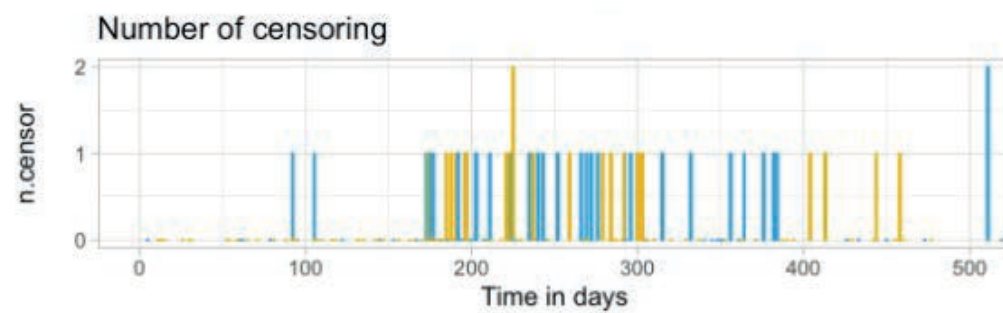
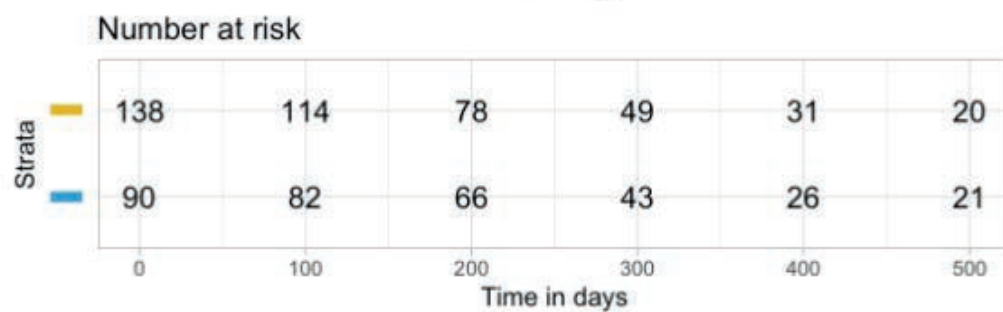
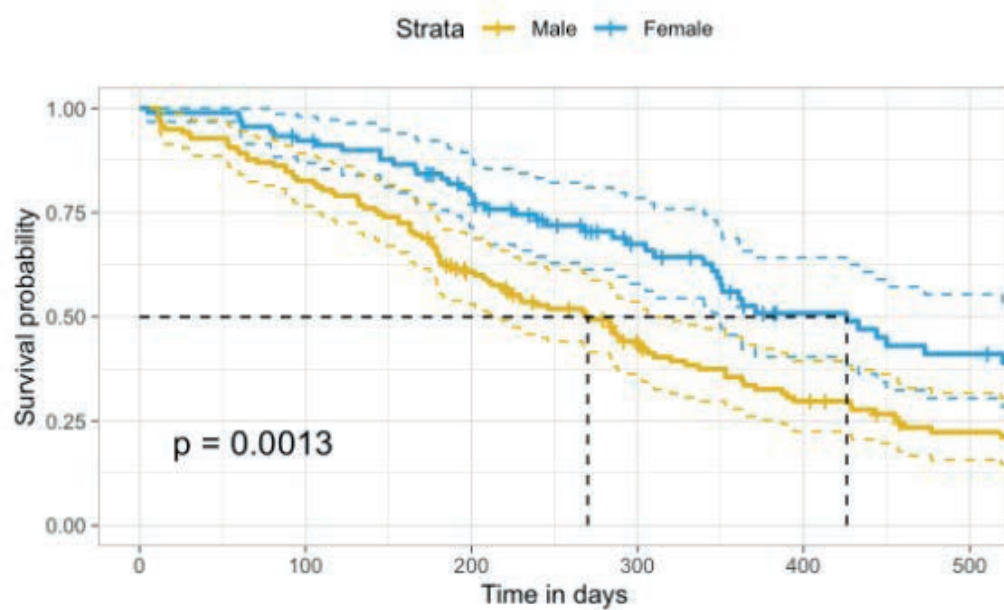
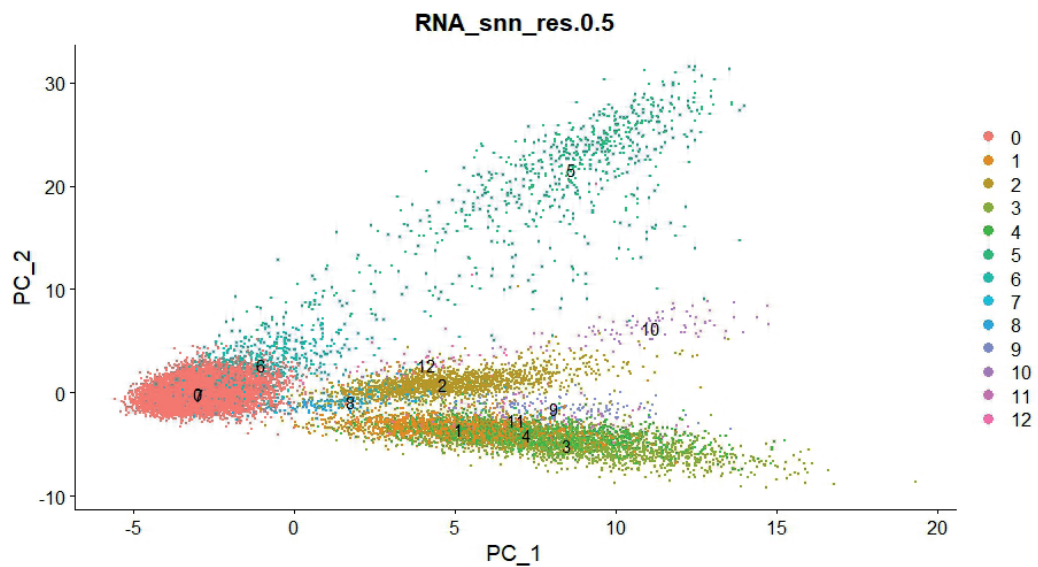
1. Characterization of the expression of proteins involved in the detoxification of water contaminated with heavy metals. Biochemistry and Molecular Biology Dept. University of Cordoba
2. Proteomic analysis of saliva exosomes for the detection of early biomarkers of Alzheimer's, Parkinson's, and other associated diseases. Nursery Dept. University of Cordoba
3. Development of a new high-resolution lateral MS-Imaging methodology for characterizing the arcuate tract in mice. Single-cell resolution MS-Imaging. GC10. Hormonal Regulation of Energy Balance, Puberty and Reproduction. IMIBIC
4. Development of protein panel analyses for designing a new medical product for sepsis cases in intensive care units. Advanced diagnosis of sepsis progression in patients under intensive care. Epidisease S.L.
5. Proteomic analysis of cell culture exosomes to elucidate molecular mechanisms associated with hypoxia. GC17. Physiopathology of Endocrine Vitamin D System Biotechnology and Aging. IMIBIC
6. Redox proteomic analysis in patients with mucinous cancer, *Pseudomyxoma peritonei*. GE09. Research in peritoneal and retroperitoneal oncological surgery.
7. Proteomic characterization of adipocytes and its adipo/lipogenesis. IDIBGI.
8. Proteomic analysis of lymphocytes reprogrammed using CAR-T technique. INIBICA
9. Lipid profiling analysis of 60 patients from two different types of samples (blood and fibroblasts) using LC-MS/MS, focusing mainly on sphingolipids (monohexosylceramide, lactosylceramide, ceramides), glucocerebroside, cholesterol, and oxysterols. IBIS
10. MS-Imaging analysis of bioindicator organisms for environmental contamination. Biochemistry and Molecular Biology Dept. University of Cordoba
11. Proteomic analysis for the detection of early diagnostic biomarkers in keratoconus disease. Project in collaboration with the private company CorneaProject S.L. (CPP22-009889).
12. Structural elucidation of nucleotide isomers. Genetics Dept. University of Córdoba
13. Proteomic study of membrane samples derived from tumor cells to compare protein expression differences in various cancer subtypes. UGR
14. Proteomic analysis of cell cultures infected with the Ebola virus. Elucidation of viral action mechanisms. UGR
15. Development of a new high-throughput proteomic analysis methodology from tissue sections prepared by laser microdissection (LCM) in collaboration with the Advanced Microscopy Unit IMIBIC. GC04. Inflammation and Cancer IMIBIC
16. Proteomic analysis of extracellular vesicles in commercially important plants for their potential use as pharmaceutical transport vehicles. UCM
17. Multi-omic analysis of plasma from patients with Multiple Sclerosis, Chronic Kidney Disease, and potential associated effects in both diseases. HNP-Toledo
18. MS-Imaging analysis of the effect of acoustic stress on marine organisms. Laboratory of Applied Bioacoustics (LAB), Barcelona
19. MS-Imaging analysis of microbial populations and their interactions in environments contaminated with heavy metals. UCA

20. MS-Imaging analysis of lung tumors and their behavior under different antiangiogenic treatments. USAL
21. Characterization of Pseudomyxoma peritonei using MS-Imaging techniques. GE09. Research in peritoneal and retroperitoneal oncological surgery.
22. Proteomic analysis of the cardiac tissue matrisome with various tissue damage caused by infarction and cellular regeneration. UMA-IBIMA
23. Advanced proteomic analysis of blood-derived subproducts, microvesicles, exosomes, platelets, and megakaryocytes differentiated into platelets. UGR

COURSES AND WORKSHOPS

1. Master's degree in Translational Biomedical Research. Subject Proteomics. University of Cordoba
2. Master's degree in Biomedicine. University of Cádiz
3. Open seminars via social networks (twitterchats)
4. Individualised advanced training for research staff: Proteomics/Metabolomics/MS Imaging.
5. Mentoring of pre-doctoral students and students in professional training.
6. Post-doctoral short-term internships for advanced mass spectrometry analysis
7. International and National congress assistances and scientific publications.

12.5 BIOINFORMATICS UNIT



STAFF

Sebastián Ventura Soto, PhD

Head of Unit, Team Leader of the “Knowledge Discovery and Intelligent Systems” (KDIS) research group - Professor of Computer Sciences and Artificial Intelligence at the University of Córdoba.

Adrián Santiago Ortiz

Bioinformatician – FIBICO contract, through the IMPaCT programme (IMP/00019). Contract from the Carlos III Institute of Health in the 2019 Strategic Action in Health (AES-2019) call.

Alberto Vela Castro

Biostatistician - FIBICO contract, through the Programme I Investigate.

BRIEF DESCRIPTION

The mission of the Bioinformatics and Biostatistics Unit is to provide engineering and computing resources to satisfy both the bioinformatics analysis requirements and the different technological needs that result from research and clinical practice, with an emphasis on the promotion and implementation of state-of-the-art technologies.

The aim of the bioinformatics and biostatistics area is to support researchers with scientific advice for the experimental design, ad-hoc genomic data analysis, and data visualisation. The unit is currently setting up robust workflows for the various and most common types of genomic data analysis, highlighting the quality control on the several steps to achieve the best results. Also, the Unit plans to be continuously updating to improve the current services and to broaden them in the future based on demand.

Statistical inference is a key aspect of the unit's support services, involving predictions and generalizations about populations based on sample data. This includes designing experiments, hypothesis testing, confidence intervals, and regression analysis to ensure statistically valid findings. Additionally, the unit leverages machine learning techniques to analyze complex data, predict outcomes, and identify hidden patterns. Survival analysis, another critical expertise, involves modeling time-to-event data using techniques like Kaplan-Meier estimators and Cox proportional hazards models, aiding in developing prognostic models and making informed clinical decisions. By focusing on these methodologies, the unit ensures researchers access cutting-edge technologies for comprehensive data analysis.

EQUIPMENT AND FACILITIES

The equipment of the unit has greatly improved since the Institute acquired a powerful HPC system, which will have an impact on future services and uses of the unit. The unit is currently equipped with the following computing resources:

- BullX R428-E3 node:
 - 4x Intel Xeon E5-4610v2 8c,
 - 32-core,
 - 256 GB RAM
- HPC system:
 - 8 x Intel Xeon Platinum 8260 (24-core – 48 threads each),
 - 3072 GB RAM DDR4-2933 per server,
 - 4x GPUs NVIDIA V100S (32 GB each),
 - 8x SSD SATA (1,92 TB each)
 - 48 TB HDD | 12 TB HDD Raid System

MAIN SERVICES

» BIOINFORMATICS

- Raw data pre-processing and cleaning to subsequent analysis.
- Analysis and integration of omic data. Bioinformatic assistant to studies focus on genomic, transcriptomic (RNA-seq and single cell), proteomic, methylation...
- Differential expression analysis between experimental groups or conditions.
- Metagenomic studies and microbiome analysis using 16s rRNA amplicon sequencing.
- Develop algorithms and in-house scripts to solve user requirements such as filtering and integration of large databases, databases transformation...
- Consultancy to apply projects.
- Analysis of biological significant using methods such as Over-Representation Analysis (ORA), Gene Ontology analysis (GO-terms), pathways (Kegg database) and Gene-Set Enrichment Analysis (GSEA).
- Filogenetic analysis.
- Bacterial genome annotation.

» BIOSTATISTICS

- Review of methodology and research protocols: define hypothesis and objectives, variable selection, define statistical analysis...
- Consultancy about techniques and statistical methodologies.
- Sample size calculation.
- Exploratory data analysis and descriptive statistics.
- Inferential statistical analysis (univariate and multivariate).
- Evaluation of diagnostic tests: sensitivity, specificity, predicted values, ROC curves...
- Analysis of surveillance data.
- Longitudinal data analysis.
- Omic data and high-dimensional data analysis
- Other statistical techniques (bayesian analysis, meta-analysis...).

KEY FACTS

The Bioinformatics and Biostatistics Unit was reactivated by the addition of two members. Since June, Adrián Santiago has been responsible for the bioinformatics area. On the other hand, Alberto Vela has been responsible for the biostatistical area since September.

It has continued to promote the use of computational biology, OMIC data analysis and statistical analysis among the different research groups, which has resulted in an increase in the number of services offered during 2023.

Some indicators for the year:

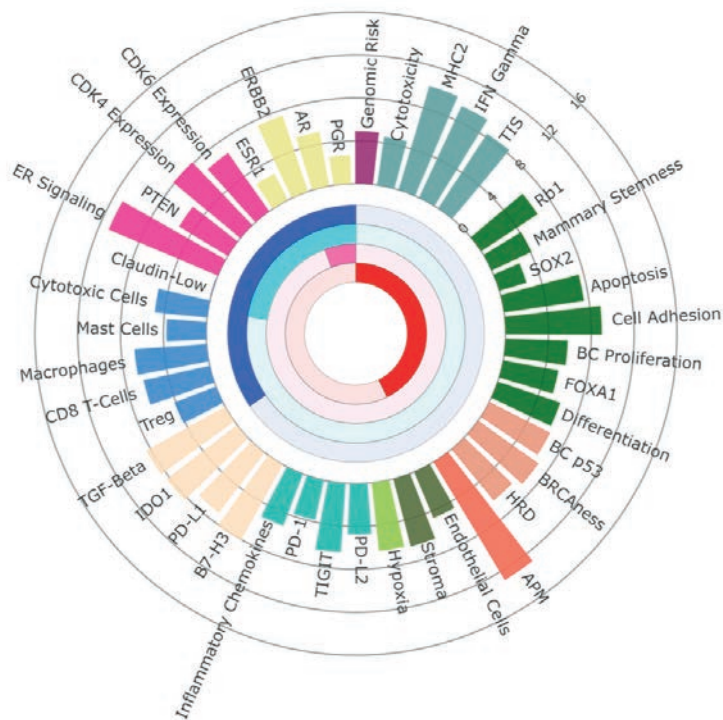
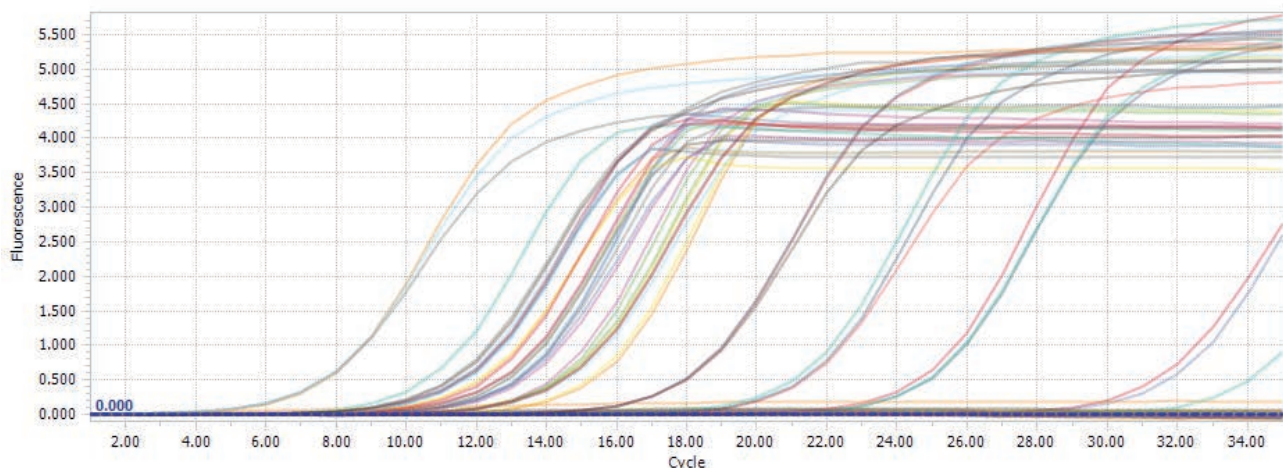
- NUMBER OF IMIBIC USERS (groups): 10
- NUMBER OF EXTERNAL USERS: 2
- NUMBER OF SUPPORTED INTERNAL PROJECTS: 11
- NUMBER OF MEETINGS WITH IMIBIC GROUPS: 42
- NUMBER OF MEETINGS WITH EXTERNAL GROUPS: 1

PROJECTS

During 2023, the unit was involved in the following project;

- Precision Medicine Infrastructure associated with Science and Technology (IMPACT) of the Strategic Action in Health (2017-2020)
 - PI: Alfonso Valencia Herrera
 - File: IMP/00019
- ÚNICAS. Implementation of a Pediatric Network for Personalised Medicine in rare pediatric diseases. A Pilot Project.
 - PI: Eduardo López Laso
 - File: PMP22/00008
- Characterization and validation of new therapeutic, diagnostic and prognostic targets in Pseudomyxoma Peritonei
 - PI: Álvaro Arjona Sánchez
 - File: PI22/01213
- Aortic stenosis immunopathology (ASim)
 - PI: Alejandra Pera Rojas
 - File: PI19/00075
- Ensayo clínico de eficacia y seguridad de la combinación de profilaxis de duración reducida seguida de profilaxis inmunoguiada en receptores de trasplante pulmonar (estudio Cytocor)
 - PI: Julian Carlos de la Torre Cisneros
 - File: PI18/00099
- Estrategias de control y estudio fármaco-genético para el tratamiento personalizado del hígado graso asociado a disfunción metabólica en pacientes con prediabetes: Estudio PROMETEO-HG
 - PI: Jose López Miranda
 - File: IC120/00069

12.6 GENOMICS UNIT



STAFF

Álvaro Jiménez Arranz

Head of Genomics Unit. Senior Genomics & Clinical Genomics Specialist - Recipient of a competitive contract from the 2015 Call for “Ayudas para la Vinculación de Técnicos de Apoyo a ECAIs” (SSPA).

Beatriz Domingo Escudero

Senior Genomics Technical Specialist - Contract financed with FIBICO-IMIBIC’s own funds.

Pilar Rubín González de Canales

Genomics Laboratory Technician - Recipient of a competitive contract from the 2020 Call for “Ayudas para Personal Técnico de Apoyo” (MICINN).

Maria Sedano Gámiz

Genomics Technical Specialist - Recipient of a contract from 2021 Call for “Programa Investigato” (MITES).

BRIEF DESCRIPTION

The aim of the Genomics Unit is to provide researchers with cutting-edge equipment as well as with scientific and technical advice for the development of various analytical techniques used in the comprehensive study of DNA and RNA. This allows researchers to obtain high-quality results for the development of outstanding translational biomedical research.

The Unit has a Quality Management System in accordance with the ISO 9001:2015 Quality Standard and offers its services to researchers both at IMIBIC and other public and private institutions. The Genomics Unit collaborates closely with other Research Support Services, such as Bioinformatics, Cytometry, Microscopy and Mass Spectrometry (IMSMI).

EQUIPMENT AND FACILITIES

The resources currently available in the Genomics Unit are:

• Illumina MiSeq

MiSeq is an Illumina platform sequencing technology based on SBS (sequencing by synthesis), which is the most widely adopted NGS (next-generation sequencing) technology in the world on account of its speed, accuracy, and quality. This sequencer can generate up to 15 Gb/run and can perform 2x300bp paired-end reads, leading to greater accuracy, especially in problematic areas such as the ones involving homopolymers. The MiSeq system allows researchers to perform DNA-Seq, RNA-Seq, Methyl-Seq and ChIP-Seq analysis, which have a wide range of applications.

• nCounter DX / NanoString technology

The NanoString nCounter system uses molecular barcodes linked to specific probes that can detect and count hundreds of targets in a single reaction without amplification, so that users can study a large number of mRNAs, miRNAs, and DNA molecules simultaneously with sensitivity and 'gold standard' reproducibility. Its applications include gene expression analysis, gene fusion, copy-number variation (CNV) and simultaneous analysis of mRNAs and miRNAs.

These applications, together with its Dx/CE-IVD certification for healthcare-quality analysis, make NCounter a tool with high potential for clinical use. One example is the CE-marked test for in vitro diagnostics (CE-IVD) and approved by the FDA for breast cancer, Prosigna-PAM50, based on the molecular analysis of gene expression of 50 genes. This test allows the tumor to be classified into one of 4 intrinsic subtypes, related to the prognosis of the disease and the choice of treatment.

• Single-cell technology

This year, the Unit has incorporated 2 new platforms aimed at single-cell studies that will allow, among other possibilities, to analyze and compare gene expression and epigenetic profiles between different cell populations:

- » Dolomite Bio Nadia
- » Fluidigm C1

• Digital PCR (dPCR): QX200 Digital Droplet PCR System

The digital PCR offers a more precise and sensitive alternative to conventional qPCR for absolute quantification and detection of rare alleles without the need for standards or endogenous controls due to droplet partitioning.

• Quantitative PCR (qPCR)

The Unit has 4 qPCR platforms aimed at genotyping and gene expression studies, including the two new instruments that have been incorporated this year (QuantStudio 5 and QuantStudio 7 Flex):

- » LightCycler 96 (96-well platform)
- » QuantStudio 5 (96-well platform)
- » QuantStudio 7 Flex (96-well, 384-well and Taqman Array Cards platform)
- » Biomark HD-Juno (High-throughput nanofluidics platform)

With regard to IMIBIC research staff, the Unit offers the possibility of using the qPCR platforms under a "self-service" system (without a technical operator).

• Other

The Unit has additional equipment designed for quantification, quality analysis and size determination of nucleic acid fragments:

- » DeNovix DS-11 (Spectrophotometer)
- » Quantus (Fluorometer)
- » 2200 TapeStation (Microelectrophoresis)

A grant for the funding of a new NGS sequencer (NextSeq 2000) has been awarded to the Unit. This system will make it possible to tackle current and future projects requiring greater sequencing capacity than is currently available in the Unit.

MAIN SERVICES

- Technical support and scientific and methodological advice on the choice and optimization of genomic techniques
- Design support for NGS or NCounter targeted panels
- Technical and scientific support in the use of qPCR platforms and probe design
- Nucleic acid quality controls (spectrophotometry, fluorometry and microelectrophoresis)
- Analysis of targeted gene expression panels (up to 800 genes) using NCounter System
- PAM50-signature Analysis (Prosigna™) for breast cancer prognosis
- Analysis of custom panels for detection of targeted fusion genes by NCounter System
- Screening of up to 800 miRNAs in tissue, peripheral blood cells and serum/plasma by NCounter System
- Screening of up to 800 lncRNAs by NCounter System
- Gene expression and genotyping studies using real-time PCR
- Absolute quantification by Droplet Digital PCR System (viral load analysis...)
- Liquid biopsy (cfDNA): Rare mutation detection by ddPCR and analysis of SNVs, Indels, CNVs and fusions by NGS
- Analysis of SNVs, Indels and CNVs in peripheral blood cells and tissue by NGS or Ncounter System

- Characterization of bacterial populations by 16S rRNA and shotgun sequencing
- Targeted sequencing for the characterization of Mycobacteria and SARS-CoV-2 (epidemiological monitoring protocol)
- RNA-Seq
- ChIP-Seq
- DNA methylation analysis by NGS
- NGS library preparation
- NGS (Next Generation Sequencing) by Illumina Miseq
- Training and support in the use of data analysis software related to the Unit's technology

KEY FACTS

In 2023, the Genomics Unit continued the trend of a steady increase in the number of projects and users since its creation in 2015; 23.112 research and clinical diagnostic samples were analysed in 2023 with the Unit's technologies and 151 users were supported. These users belonged to 27 of the 48 IMIBIC groups, 3 Departments of the University of Córdoba (Genetics Department-Faculty of Sciences, Pathological Anatomy Department-Faculty of Veterinary Science and Cellular Biology, Physiology and Immunology Department-Faculty of Sciences) and 4 Departments of Reina Sofia University Hospital (Pathological Anatomy, Oncology, Hematology and Clinical Biochemistry). In addition, several external centers have requested our services, such as CIMA-Center for Applied Medical Research-Navarra, ULL-University of La Laguna-Tenerife, UCLM-University of Castilla-La Mancha, UCM-Complutense University of Madrid, COBIOMIC Bioscience, TTD-Group for the Treatment of Digestive Tumors, and GEICAM-Spanish Breast Cancer Research Group.

The previously implemented protocols and services have been improved in accordance with the principles of good laboratory practice (GLP) to guarantee the quality, reproducibility and reliability of the results. The new single-cell and qPCR platforms incorporated to the Unit have been put into operation and new cfDNA-based services have been developed, such as the analysis of methylation by ddPCR and the analysis of SNVs, Indels, CNVs and fusions by NGS.

The Genomics Unit of IMIBIC is accredited since 2021 as "Clinical Genetics Unit" and participates in a multidisciplinary team, together with several departments of the Reina Sofia University Hospital (HURS), aimed at the implementation of genomic diagnostic protocols in the Andalusian Public Health Service. The Unit carries out services developed together with the Departments of Pathological Anatomy, Oncology and Hematology of the HURS, such as the PAM50-breast cancer prognostic gene signature (Prosigna™), and is part of the Research Committee in Molecular Clinical Oncology, focused on the evaluation of NGS as a diagnostic, prognostic and therapeutic tool for oncology patients.

The Unit participates in the Pharmacogenetics Working Group of the SCReN (Spanish Clinical Research Network) of the National Institute of Health Carlos III, in the Pethema Foundation program for the implementation of NGS as a diagnostic tool for Myeloid Leukemia, and collaborates with the TTD (Group for the Treatment of Digestive Tumors) and GEICAM (Spanish Breast Cancer Research Group) groups. In addition, the Unit is part of several laboratory networks, such as the EATRIS network (European Infrastructure for Translational Medicine), Innolabs and the Novartis laboratory network for clinical trials.

In 2023, The Genomics Unit has been re-certified in according to the ISO 9001:2015 standards for its quality management system and has received a grant from the 2022 Call of the "Programa Estatal de Investigación y Equipamiento Científico-Técnico" (MICINN) for the financing of a new NGS sequencer.

NUMBER OF IMIBIC USERS: **151 (27 IMIBIC GROUPS)**

NUMBER OF EXTERNAL USERS: **14 (8 EXTERNAL CENTRES)**

NUMBER OF PUBLICATIONS: **21**

NUMBER OF ONGOING PROJECTS: **N/A**

COURSES AND TRAINING SESSIONS: **9**

FEATURED ARTICLES

A total of 21 scientific articles were published in 2023 using the services and equipment of the Genomics Unit, including the following:

1. Characterization of the inflammatory proteome of synovial fluid from patients with psoriatic arthritis: Potential treatment targets Barbarroja N, López-Montilla MD, Cuesta-López L, Pérez-Sánchez C, Ruiz-Ponce M, López-Medina C, Ladehesa-Pineda ML, López-Pedrerá C, Escudero-Contreras A, Collantes-Estévez E, Arias-de la Rosa I. *Front Immunol.* 2023 Mar 22;14:1133435. doi: 10.3389/fimmu.2023.1133435. PMID: 37033920; PMCID: PMC10073963 (GC05).
2. Splicing machinery is profoundly altered in systemic lupus erythematosus and antiphospholipid syndrome and directly linked to key clinical features. Lopez-Pedrerá C, Patiño-Trives AM, Cerdó T, Ortega-Castro R, Sanchez-Pareja I, Ibañez-Costa A, Muñoz-Barrera L, Ábalos-Aguilera MC, Ruiz-Vilchez D, Seguí Azpilcueta P, Espinosa M, Barbarroja N, Escudero-Contreras A, Castaño JP, Luque RM, Ortega R, Aguirre MA, Perez-Sanchez C. *J Autoimmun.* 2023 Feb;135:102990. doi: 10.1016/j.jaut.2022.102990. Epub 2023 Jan 6. PMID: 36621176 (GC05).
3. Diagnosing and monitoring pancreatic cancer through cell-free DNA methylation: progress and prospects. García-Ortiz MV, Cano-Ramírez P, Toledano-Fonseca M, Aranda E, Rodríguez-Ariza A. *Biomark Res.* 2023 Oct 5;11(1):88. doi: 10.1186/s40364-023-00528-y. PMID: 37798621; PMCID: PMC10552233 (GC06).
4. Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer. Mena-Osuna R, Mantrana A, Guil-Luna S, Sánchez-Montero MT, Navarrete-Sirvent C, Morales-Ruiz T, Rivas-Crespo A, Toledano-Fonseca M, García-Ortiz MV, García-Jurado G, Gómez-España MA, González-Fernández R, Villar C, Medina-Fernández FJ, Villalba JM, Aranda E, Rodríguez-Ariza A. *J Pathol.* 2023 Apr 5. doi: 10.1002/path.6080. Epub ahead of print. PMID: 37017456 (GC06).

5. Circulating NPTX2 methylation as a non-invasive biomarker for prognosis and monitoring of metastatic pancreatic cancer. García-Ortiz MV, Cano-Ramírez P, Toledano-Fonseca M, Cano MT, Inga-Saavedra E, Rodríguez-Alonso RM, Guil-Luna S, Gómez-España MA, Rodríguez-Ariza A, Aranda E. Clin Epigenetics. 2023 Jul 22;15(1):118. doi: 10.1186/s13148-023-01535-4. PMID: 37481552; PMCID: PMC10362605 (GC06).
6. Uremic Toxins Induce THP-1 Monocyte Endothelial Adhesion and Migration through Specific miRNA Expression. Carmona A, Guerrero F, Muñoz-Castañeda JR, Jimenez MJ, Rodriguez M, Soriano S, Martin-Malo A. Int J Mol Sci. 2023 Aug 18;24(16):12938. doi: 10.3390/ijms241612938. PMID: 37629118; PMCID: PMC10455080 (GC07).
7. Rapamycin downregulates α -klotho in the kidneys of female rats with normal and reduced renal function. Espartero A, Vidal A, Lopez I, Raya AI, Rodriguez M, Aguilera-Tejero E, Pineda C. PLoS One. 2023 Nov 28;18(11):e0294791. doi: 10.1371/journal.pone.0294791. PMID: 38015969; PMCID: PMC10684065 (GC13).
8. Evolving Risk Classifications in AML in a Real-Life Scenario: After Changes upon Changes, Is It More and More Adverse? Aparicio-Pérez C, Prados de la Torre E, Sanchez-García J, Martín-Calvo C, Martínez-Losada C, Casaño-Sanchez J, Serrano-López J, Serrano J. Cancers (Basel). 2023 Feb 23;15(5):1425. doi: 10.3390/cancers15051425. PMID: 36900222; PMCID: PMC10001051 (GC16).
9. Molecular Landscape and Validation of New Genomic Classification in 2668 Adult AML Patients: Real Life Data from the PETHEMA Registry. Sargas C, Ayala R, Larráyz MJ, Chillón MC, Carrillo-Cruz E, Bilbao-Sieyro C, Prados de la Torre E, Martínez-Cuadrón D, Rodríguez-Veiga R, Boluda B, Gil C, Bernal T, Bergua JM, Algarra L, Tormo M, Martínez-Sánchez P, Soria E, Serrano J, Alonso-Domínguez JM, García-Boyeró R, Amigo ML, Herrera-Puente P, Sayas MJ, Lavilla-Rubira E, Martínez-López J, Calasanz MJ, García-Sanz R, Pérez-Simón JA, Gómez-Casares MT, Sánchez-García J, Barragán E, Montesinos P, On Behalf Of Pethema Group. Cancers (Basel). 2023 Jan 10;15(2):438. doi: 10.3390/cancers15020438. PMID: 36672386; PMCID: PMC9856266 (GC16).
10. Altered splicing machinery in lung carcinoids unveils NOVA1, PRPF8 and SRSF10 as novel candidates to understand tumor biology and expand biomarker discovery. Blázquez-Encinas R, García-Vioque V, Caro-Cuenca T, Moreno-Montilla MT, Mangili F, Alors-Pérez E, Ventura S, Herrera-Martínez AD, Moreno-Casado P, Calzado MA, Salvatierra Á, Gálvez-Moreno MA, Fernandez-Cuesta L, Foll M, Luque RM, Alcalá N, Pedraza-Arevalo S, Ibáñez-Costa A, Castaño JP. J Transl Med. 2023 Dec 4;21(1):879. doi: 10.1186/s12967-023-04754-8. PMID: 38049848; PMCID: PMC10696873 (GC27).
11. Tumor suppressor role of RBM22 in prostate cancer acting as a dual-factor regulating alternative splicing and transcription of key oncogenic genes. Jiménez-Vacas JM, Montero-Hidalgo AJ, Gómez-Gómez E, Sáez-Martínez P, Fuentes-Fayos AC, Closa A, González-Serrano T, Martínez-López A, Sánchez-Sánchez R, López-Casas PP, Sarmiento-Cabral A, Olmos D, Eyra E, Castaño JP, Gahete MD, Luque RM. Transl Res. 2023 Mar;253:68-79. doi: 10.1016/j.trsl.2022.08.016. Epub 2022 Sep 9. PMID: 36089245 (GC27).

COURSES AND WORKSHOPS

- Specific training for research groups in experimental design, technical applications and data analysis related to Unit equipment:
 - » Training in data analysis using R-based software, NSolver: Groups GC01 and GC06
 - » Training in the Nanostring custom panel design: Groups GC06 and GE05
 - » Training in ddPCR data analysis using QuantaSoft analysis software: Groups GC06 and GE09
 - » Training in NGS data analysis using BaseSpace Sequence Hub: Groups GC06, GC08 and GC24
 - » Training in qPCR data analysis using LC96, QS5, QS7 Flex and Biomark HD analysis software: Groups GC02, GC05, GC06, GC07, GC10, GC11, GC13, GC16, GC26, GC27, GC29, GC30, GC31 and GE09
- Four application workshops were given:
 - » “QuantStudio 5 y 7: aplicaciones para PCR a tiempo real”
 - » “Soluciones en genómica de célula única: Sistemas C1 y Nadia”
 - » “Single cell spatial transcriptomics with Xenium - the platform for now and future”
 - » “Buenas prácticas de pipeteo, verificación y calibración de pipetas”

12.7 CLINICAL RESEARCH UNIT



STAFF

Juan de la Haba Rodríguez, PhD
Clinical Research Coordinator

Samuel Hidalgo Ríos, MD
Clinical Pharmacologist

José Carlos Garrido Gracia, PhD

María Ruiz García
Javier Barba Ramírez
Rodrigo Rayo Castillo
Lourdes Alcaide Ruggiero
Clinical Trial Managers

Juan María Marín Fernández
María Dolores Díaz Ruano
Miguel Puentes Aguado
Miguel Ángel Gutiérrez-Ravé Pereda
Nurses

Rubén Sánchez Nieves
Elena Parrado González
Inmaculada Gálvez Membrives
Nursing Assistants

BRIEF DESCRIPTION

The IMIBIC Clinical Research Unit promotes clinical research at the IMIBIC and Reina Sofia University Hospital and also aims to establish collaborations with other research centres

The Unit focuses on the development of clinical trials including design, feasibility, regulatory affairs, launch, management, monitoring, pharmacovigilance, data management, statistics and delivery of clinical assistance. All operations are GCP compliant.

The IMIBIC Clinical Research Unit consists of two facilities: The Provincial Hospital Clinical Research Unit and the General Hospital Clinical Research Unit. Both are adapted to perform phase I-IV clinical trials on patients.

The unit has a Clinical Research Plan which is included in the 2021-2025 Strategic Plan. This plan includes a set of indicators which enable the unit to monitor it in quantitative terms. This monitoring is evidenced by the Clinical Research Committee, which meets every six months.

Finally, it is important to highlight that the IMIBIC Clinical Research Unit is part of the SCREN Platform (**S**panish **C**linical **R**esearch **N**etwork ISCIII).

EQUIPMENT AND FACILITIES

- 10 doctor's consulting rooms and a storeroom
- 2 hospital wards, each containing: a crash trolley with semi-automatic defibrillator and emergency medication, intravenous fluids, an insulin pump, healing trolleys, oxygen outlets in all positions and audiovisual system
- 14 armchairs and rooms with 3 single beds, all with ongoing monitoring
- Paediatric area
- 12-lead ECGs
- Measuring boards and scales
- Blood pressure monitor in each office
- Customized bathrooms
- Individual lockers for patients
- 2 living rooms for patients
- 2 waiting rooms for patients and family
- 1 multi-purpose room
- 2 laboratories for sample processing and centrifuges
- Freezers (-80°C and -20°C)
- 2 storerooms for materials
- High-definition ultrasound scanner
- 2 offices for study coordinators
- 2 offices for the CRA
- 1 meeting room
- 1 training room
- 5 archives

MAIN SERVICES

- Methodological support
- Launch and regulatory affairs
- Study development
- Monitoring
- Pharmacovigilance
- Delivery of clinical assistance
- Feasibility and start-up support processes for pharmaceutical companies, CROs, and Investigators

KEY FACTS

- NUMBER OF NEW PHASE I AND II CLINICAL TRIALS: **48**
- NUMBER OF NEW INDEPENDENT CLINICAL STUDIES (CLINICAL TRIALS, OBSERVATIONAL STUDIES AND CLINICAL INVESTIGATIONS WITH MEDICAL DEVICES) PROMOTED BY IMIBIC INVESTIGATORS: **2**
- NUMBER OF CLINICAL TRIALS (MANAGEMENT AND/OR MONITORING BY CLINICAL RESEARCH UNIT): **35**
- ANNUAL INVOICING FOR CLINICAL STUDIES (CLINICAL TRIALS, OBSERVATIONAL STUDIES AND CLINICAL RESEARCH WITH MEDICAL DEVICES) PROMOTED BY THE PHARMACEUTICAL INDUSTRY AND TOTAL VOLUME OF FINANCIAL REPORTS SIGNED DURING THE YEAR: **4.975 m€ (invoicing) and 6.955 m€ (total volume of financial reports signed)**
- PHARMA OR CRO CLINICAL TRIALS PROPOSALS RECEIVED BY CLINICAL RESEARCH UNIT AND REDIRECTED TO INVESTIGATORS: **162**
- CRO CONTRACTS FOR EXTERNAL SPONSORS: **4**

FEATURED ARTICLES

1. Trigo-Rodríguez M, Cárcel S, Navas A, et al. Role of IP-10 to Predict Clinical Progression and Response to IL-6 Blockade With Sarilumab in Early COVID-19 Pneumonia. A Subanalysis of the SARICOR Clinical Trial. Open Forum Infect Dis. 2023;10(4):ofad133. Published 2023 Mar 11. doi:10.1093/ofid/ofad133

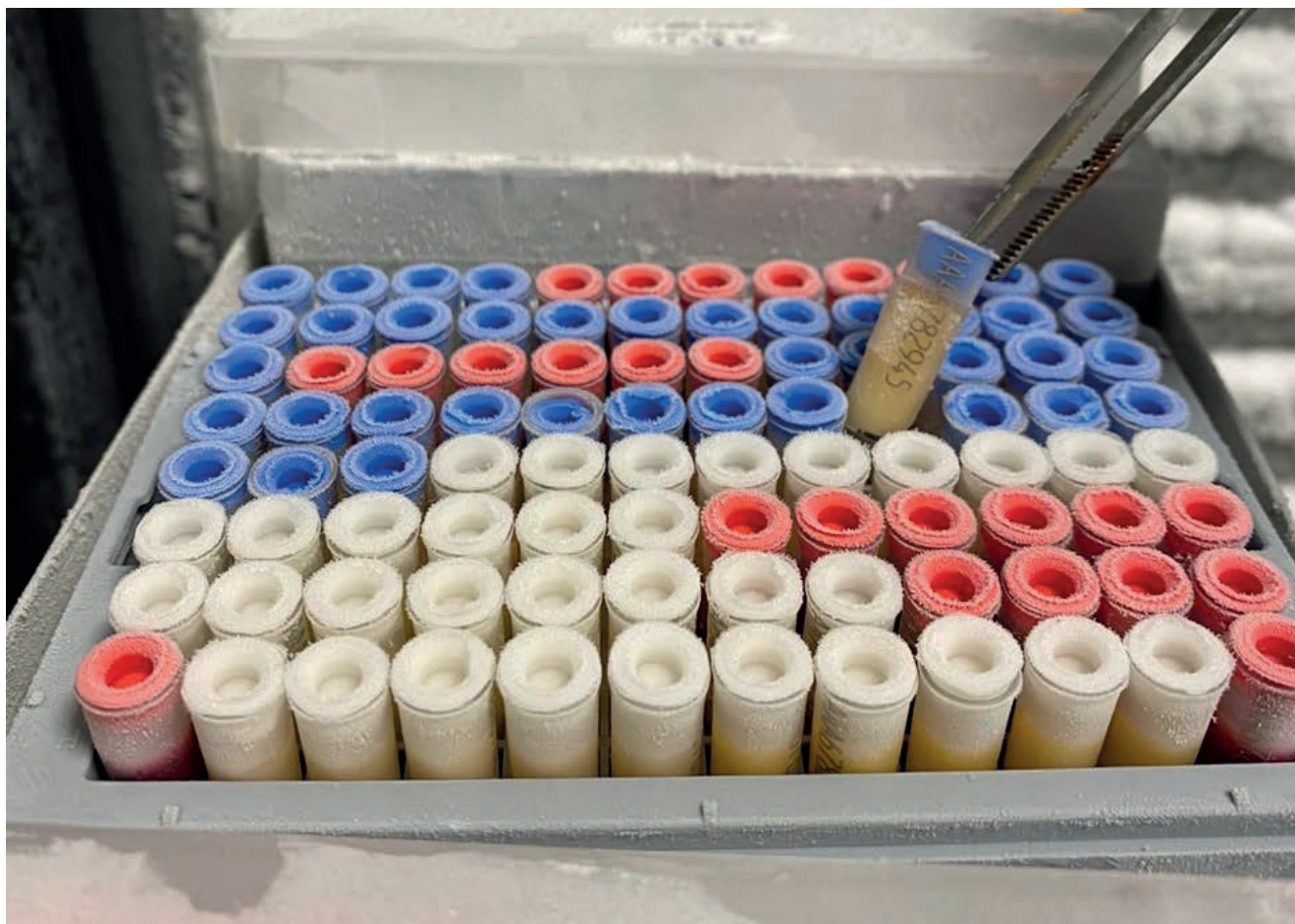
KEY CLINICAL TRIALS (MANAGEMENT AND MONITORING BY CLINICAL RESEARCH UNIT)

1. Estrategias de control y estudio fármaco-genético para el tratamiento personalizado del hígado graso asociado a disfunción metabólica en pacientes con prediabetes (PROMETEO-HG). N° de EudraCT: 2021-000152-19. 5 participating sites, 369 subjects recruited. Sponsor: CIBER. Clinical Research Unit as sub-contractor. Study included in SCReN Platform.
2. Ensayo clínico de eficacia y seguridad de la combinación de profilaxis de duración reducida seguida de profilaxis inmunoguiada en receptores de trasplante pulmonar. Estudio CYTOCOR. N° EudraCT: 2018-003300-39. 7 participating sites, 149 subjects included. Sponsor: FIBICO. Study included in SCReN Platform.
3. A Prospective, randomized, single blind, multicenter Phase III study on organ preservation with Custodiol-N solution compared with Custodiol solution in liver transplantation. Eudra-CT Number: 2019-001872-12. 7 participating sites, 143 subjects recruited. Sponsor: Dr. Franz Köhler Chemie GmbH. Clinical Research Unit as sub-contractor.
4. REMAP-CAP: Randomized, Embedded, Multifactorial Adaptive Platform trial for Community-Acquired Pneumonia. N° EudraCT: 2015-002340-14. 5 participating sites, 84 subjects included. Sponsor: University of Utrech. Clinical Research Unit as sub-contractor.
5. Phase I-II clinical trial to evaluate the safety and tolerability of a new optimized anti CD19 CAR-T (AWARI) in patients with relapsed or refractory B lineage neoplasms. In Start-up process. Sponsor: FIBICO. Study included in SCReN Platform

COURSES AND WORKSHOPS

1. Basic Contents on Clinical Trials: Service of Preventive Medicine, Hospital Universitario Reina Sofía – 2-FEB-2023
2. Welcome meeting Investigator staff – 12-JUN-2023
3. Master in Translational Biomedical Research: clinical trials module: University of Córdoba – 17-NOV-2023
4. Good Clinical Research Documentation Practices (IMIBIC) -12-DEC-2023.
5. Good Clinical Research Documentation Practices (SCReN) - 21-DEC-2023.

12.8. BIOBANK UNIT



STAFF

Rosa M^a Ortega Salas, PhD

Scientific Manager

Fernando López López

Technician

José Carlos Cáceres

Technician

Rocío Muñoz Rodríguez

Technician

Marta Chacón Gámiz (from April 2023)

Technician

BRIEF DESCRIPTION

The Biobank Unit is a research support platform whose role is to serve as a link between doctors, researchers and patients donating biological samples for biomedical research in order to ensure compliance with all the legal and ethical guarantees in force.

The IMIBIC Biobank is part of the Andalusian Public Health System Biobank (SSPA), an initiative of the Department of Equality, Health and Social Policy of the Regional Government. It is part of the thematic network of Hospital Biobanks belonging to the National Institute of Health Carlos III (ISCIII), and a subprogram of the Thematic Networks for Cooperative Research in Health (RETICS).

EQUIPMENT AND FACILITIES

The Unit has its own laboratory resources for sample transformation (safety booths, PCR cabinet, cryostat microtome, floating bath, centrifuge, histo bath, automated tissue processor for embedding in paraffin, paraffin wax dispenser, etc.) and other equipment such as:

- TissueSAFE: fully automated preparation of tissue samples under vacuum.
- Tissue Arrayer: assembles different tissue samples in a single 3D matrix for subsequent histological analysis.
- Quiacube: Automatic, compact system for analysis of DNA, RNA, plasmids and proteins from different samples.

For sample storage, there are currently three types of freezer: one for temperatures of 4°C, two for temperatures of -20°C, and seven for -80°C. There is also a room to store paraffin blocks at room temperature.

MAIN SERVICES

The service portfolio is divided into four main areas:

- Custody: storing samples at different temperatures.
- Processing: transforming multiple types of biological sample in accordance with the procedures and technical criteria generally used by researchers in their projects.
- Provision of human samples and data on human health and disease research, selected according to the specific clinical and diagnostic criteria of researchers.
- Technical, scientific and ethical consultancy concerning the collection, storage, and management of human samples in biomedical research.

In 2021, the quality management system of the Cordoba Biobank node of the Andalusian Public Health System (SSPA) Biobank system was certified in accordance with ISO 9001:2015, which is the international standard regulating quality management systems. The scope of the quality management system implemented in the provincial nodes of the Biobank covers the provision, custody and processing of blood products or derivatives, tissues, substances or biological samples of human origin, and human embryonic and adult stem cell lines for use in research and teaching. In 2022, the certificate was renewed.

KEY FACTS

NUMBER OF IMIBIC USERS: **19**

NUMBER OF EXTERNAL USERS: **9**

FEATURED ARTICLES

1. Orthohepevirus C infection as an emerging cause of acute hepatitis in Spain: First report in Europe. PMID: 35167911. DOI: 10.1016/j.jhep.2022.01.028. J Hepatol. 2022 Aug;77(2):326-331
2. Optimization of the molecular diagnosis of the acute hepatitis E virus infection . PMID: 36965117. DOI: 10.1111/1751-7915.14247. Microb Biotechnol. 2023 Jun;16(6):1325-1332.
3. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. PMID: 36609600 DOI: 10.1038/s12276-022-00917-7. Exp Mol Med. 2023 Jan;55(1):132-142.

PROJECTS

- Subvención para las Unidades de las Plataformas ISCIII de apoyo a la I+D+I en Biomedicina y Ciencias de la Salud de la Acción Estratégica en Salud 2017-2020. Código expediente PT20/00079. Subsidy for Units of ISCIII Support Platforms supporting R + D + i in Biomedicine and Health Sciences, Strategic Health Action 2017-2020. File code PT20/00079.
- Ayudas públicas a proyectos de colaboración público-privada, del Programa Estatal para Impulsar la Investigación Científico- Técnica y su Transferencia, del Plan Estatal de Investigación Científica, Técnica y de Innovación 2021-2023, en el marco del Plan de Recuperación, Transformación y Resiliencia, y la convocatoria de tramitación anticipada correspondiente al año 2021. File code CPP2021-008897.

COURSES AND WORKSHOPS

- Taller “Aspectos éticos y legales en la gestión y utilización de muestras biológicas humanas en proyectos de investigación”. 2ª edición. 18 y 19 Septiembre de 2023.

ISCIIB PLATFORM BIOBANKS AND BIOMODELS



IMIBIC currently belongs to the ISCIII Biobanks and Biomodels Platform, supporting R + D+ i in Biomedicine and Health Sciences, Strategic Health Action 2017-2020. File code PT20/00079.

The ISCIII Biobanks and Biomodels Platform is an initiative of the Carlos III Health Institute. The Coordination team has organised the Platform's structure into four scientific-technological HUBS, which include: Biobanks, Organoids, Animal Models and 3D Printing. This structure makes it possible to manage and supply biological samples and associated clinical data. In the interest of promoting and incrementing scientific-technological resources in biomedical research, the PISCIIIIBB's services include organoids, animal models and 3D printing. (<https://www.isciii-biobanks-biomodels.es/en/>).

The ISCIII Biobanks and Biomodels Platform has joined the European Biobanking Infrastructure (BBMRI-ERIC) as an observing member, acting as the national node in BBMRI-ERIC, one of the most relevant research platforms in the European Union.



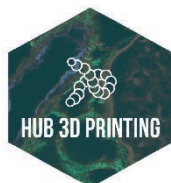
The BIOBANKS HUB'S purpose to improve the competitiveness of spanish biomedical and health research, providing researchers with centralised access to collections and data associated with the samples.



ORGANOID HUB offers the highest level and quality and cutting-edge services in the guidance, validation and production of organoids from adult stem cells and pluripotent stem cells.

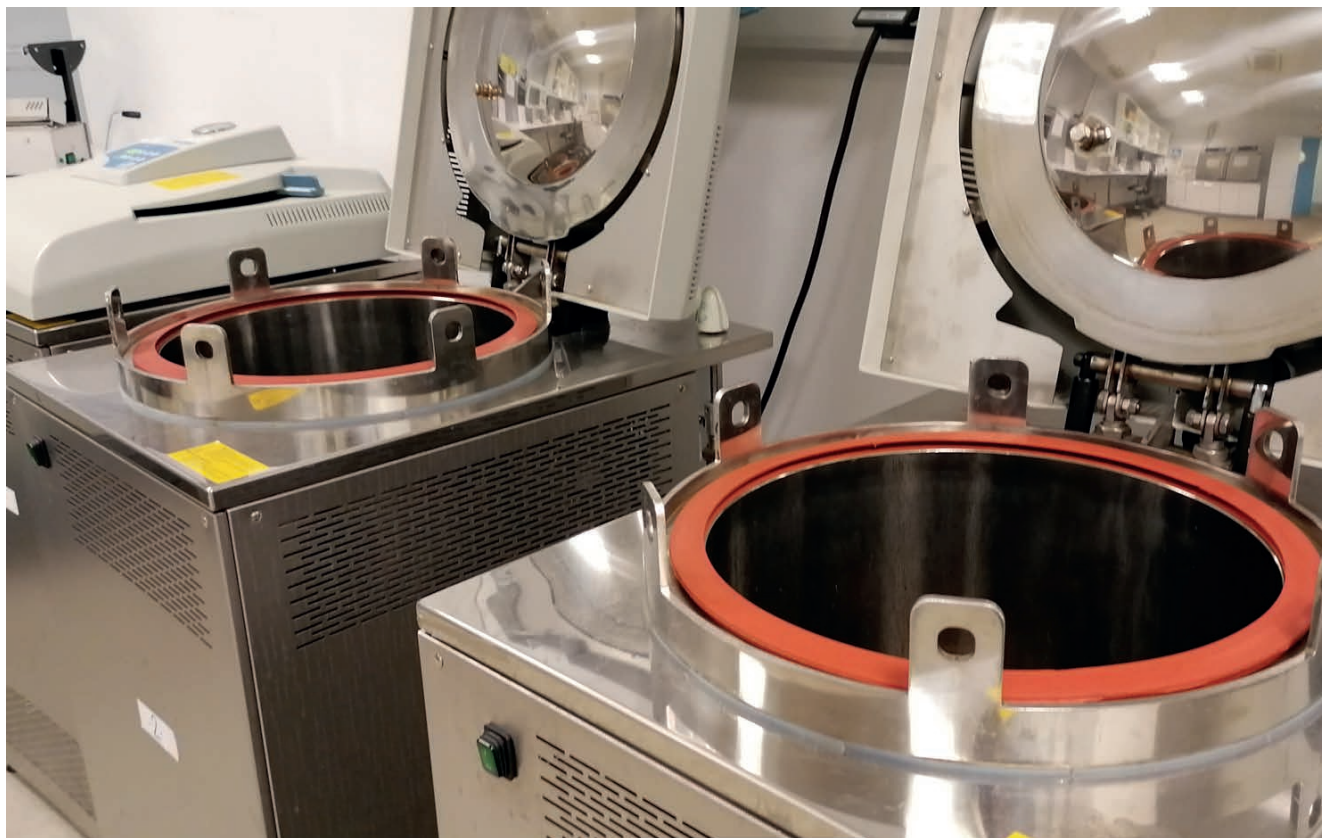


The ANIMAL MODEL HUB offers the highest quality and cutting-edge services in the advising and execution of animal experimentation models which encompass a wide number species as well as numerous experimental techniques.



The 3D (BIO)PRINTING HUB offer the highest level of cutting-edge quality and consulting services and delivery of 3D bioprinting and printing services as well as numerous experimental techniques.

12.9 GENERAL PROCEDURES UNIT



STAFF

Esther Rivero Cortés

Senior Lab Manager - Head of Unit

Sandra González Prieto

Histology Technician, INVESTIGO21_028

María García Cruz

Lab Technician, INVESTIGO_SAE21

BRIEF DESCRIPTION

The Central Unit for General Procedures plays a crucial role in managing the laboratories at the Maimonides Institute for Biomedical Research of Córdoba (IMIBIC). This service encompasses the organization, technical support, and oversight of technical, research, and administrative activities within the research laboratories.

Its responsibilities include the administration and maintenance of shared facilities, rooms, and scientific equipment, ensuring that experimental laboratory procedures proceed without interruptions and meet quality standards and good laboratory practices. Moreover, it promotes the efficient and sustainable use of shared specialized scientific equipment.

In addition, the Unit provides specialized technical services in Histology, supporting researchers in this specific area.

EQUIPMENT AND FACILITIES

CENTRIFUGE ROOM

- Beckman Optima XPN100 Ultracentrifuge
- Beckman Optima L90K Ultracentrifuge
- Beckman Avanti J-26XP Centrifuge
- Kubota 2800 Refrigerated Centrifuge
- Eppendorf 5810-R Refrigerated Centrifuge
- Eppendorf 5424 Centrifuge
- Thermo Nanodrop ND 1000
- Stratagene MX3005P qRT-PCR
- Liebherr Combi for preservation at 4°C and -20°C
- Burdinola BST 1500 Fume Hood

- Düperthal Safety Cabinet
- Selecta S381 Oven
- Other auxiliary equipment

MULTIPLE EQUIPMENT ROOM

- Bio-Rad Universal Hood II for Bio-Rad's Molecular Imager Gel Doc and ChemiDoc Systems
- Merck Millipore Advantage A10 Water Purification System
- Milli-Q Merck Millipore Q-POD Water Dispenser
- Selecta S-100D Shaking Incubator
- Liebherr Combi for Preservation at 4°C and -20°C
- Exacta Safety Cabinet
- Telstar Micro V Laminar Flow Hood
- Other Auxiliary Equipment

STERILIZATION ROOM

- Selecta Presoclave-II Autoclave
- Selecta Presoclave-II Autoclave
- Selecta Presoclave-II Autoclave
- Selecta Autester ST-DRY-PV-B-23 Class B Autoclave
- Memmert UN110 Oven
- Memmert UN110 Oven
- Selecta Bag Sealer
- Selecta Omni GLH 02 Homogenizer
- Selecta Omni GLH 02 Homogenizer
- Crison GLP 21 pH Meter
- Denver Instrument TP-214 Precision Balance
- Selecta Ultrasons Ultrasonic Bath
- Omni Sonic RUPTOR 400 Sonicator
- Milli-Q Merck Millipore Q-POD Water Dispenser
- Liebherr Combi for Preservation at 4°C and -20°C
- Burdinola BST 1500 Fume Hood
- Other Auxiliary Equipment

HISTOLOGY LABORATORY

- Leica TP1020 Automatic Tissue Processor
- Leica Arcadia H and C Paraffin Embedding Station
- Memmert UN110 Oven
- Leica RM2255 Motorized Paraffin Microtome
- Leica CM 1860UV Cryostat for Frozen Sample Sectioning
- Leica ST 5010 XL Automatic Stainer
- Lauda Histological Floatation Bath
- Leica EGF Thermal Tweezers
- Sartorius Balance
- Burdinola BST 1500 Fume Hood
- Liebherr Combi for Preservation at 4°C and -20°C
- Exacta Safety Cabinet
- Other Auxiliary Equipment

TEMPORARY FREEZER STORAGE

- Deep freezer (-80°C) Thermo Scientific UFX60086V
- Deep freezer (-80°C) Eppendorf Cryocube F570-86
- Deep freezer (-80°C) Thermo Scientific UXF60086V
- Deep freezer (-80°C) Infrico ULT70086
- Deep freezer (-80°C) Effimed UFV-800

MAIN SERVICES

- Histology Service, which includes tissue processing, paraffin embedding, sectioning of paraffin-embedded and frozen samples, histological staining, and slide preparation for microscopy. The Histology Laboratory of the Unit is equipped with specialized equipment that enables the automation of most processes included in our services, ensuring highly reproducible results.
- Management, technical support and supervision of the proper use of scientific equipment in the rooms and facilities of IMIBIC, as well as common auxiliary equipment (fume hoods, autoclaves, centrifuges, etc.).
- Implementation and promotion of Good Laboratory Practices at IMIBIC.
- Management of usage logs and the reservation system for scientific equipment shared by the Research Groups.
- Preparation of documentation (technical instructions, protocols, reports, SOPs, equipment lists, etc.) for the quality management system.

- Organization of autoclaving for the research groups' laboratory materials in the sterilization room.
- Supervision of proper management and disposal of laboratory waste in compliance with regulations. Coordination with the External Prevention Service in case of questions or suggestions. Providing support in training for laboratory waste management.
- Implementation and monitoring of the Trébol Environmental Best Practices Program at IMIBIC, in compliance with the University of Córdoba.
- Management of cold storage to ensure proper use of available space in case of failure of the research groups' -80°C freezers.
- Mentorship and training of new laboratory technicians.
- Provision of any other support and management of general procedures that may arise.

KEY FACTS

NUMBER OF IMIBIC USERS: **All technical and research staff of the center**

NUMBER OF PUBLICATIONS: **2**

NUMBER OF ONGOING PROJECTS: **7**

COURSES AND TRAINING SESSIONS: **10**

NUMBER OF MEETINGS WITH IMIBIC GROUPS: **1**

FEATURED ARTICLES

1. Ibáñez-Costa A, Letón R, **Rivero-Cortés E**, Álvarez-Escolá C, Rodríguez Poyo-Guerrero P, Gavilán-Villarejo I, Marazuela M, Gálvez-Moreno MA, Soto-Moreno A, Robledo M, Luque RM, Castaño JP. A. Genetic, epigenetic and/or transcriptional profiling of 14q genes, MAX and MEG3 in pituitary neuroendocrine tumors. *Journal of Neuroendocrinology* 2022. 34(1): 22. FI: 3.2 (Q3)
2. Sampedro-Nuñez M, Herrera-Martínez AD, Ibáñez-Costa A, **Rivero-Cortés E**, Venegas E, Robledo M, Martínez-Hernández R, García-Martínez A, Gil J, Jordà M, López-Fernández J, Gavilán I, Maraver S, Marqués-Pamies M, Cámara R, Fajardo-Montañana C, Valassi E, Dios E, Aulinas A, Biagetti B, Álvarez Escola C, Araujo-Castro M, Blanco C, Paz M, Villar-Taibo R, Álvarez CV, Gaztambide S, Webb SM, Castaño L, Bernabéu I, Picó A, Gálvez MÁ, Soto-Moreno A, Puig-Domingo M, Castaño JP, Marazuela M, Luque RM; Integrative Clinical, Hormonal and Molecular Data associate with Invasiveness in Acromegaly: REMAH Study. *Eur J Endocrinol* 2024. 190(6):421-433. FI: 5.8 (Q1)

PROJECTS

1. DU.03.MR.22.03 - C17.I04 CNS2022-135922 Andamios 3D para fármacos hipoximiméticos (GC04).
2. PI23/00489 S-nitrosilación aberrante en la intersección del metabolismo y la autofagia en el cáncer colorrectal: oportunidades terapéuticas (GC06).
3. CPP2021-008338 Estudio de una nueva estrategia terapéuticas para tratar el SOP- síndrome de ovario poliquístico (GC10).
4. DTS20/00117 Desarrollo y validación de nuevos nanofármacos para el tratamiento de la enfermedad metabólica asociada a obesidad e hipogonadismo. Estudio GGRKO-hipogonadismo (GC10).
5. Estudio integral de los mecanismos asociados a la reversión inducida por dieta de la obesidad y diabetes (GC27).
6. PID2019-105564RB-I00 Interacción fisiopatológica entre obesidad y la glándula prostática: influencia del tejido adiposo sobre las maquinarias de control de la expresión génica y estabilidad genómica (GC27).
7. PI20/00375 Novel mechanisms and therapeutic targets involved in the progression of hemoglobin associated renal damage (GE06).

COURSES AND WORKSHOPS

1. Course on Waste Management at IMIBIC, on the Moodle platform.
2. IMIBIC Trébol Programme.
3. Outreach activity for the International day of women and girls in Science, at CEIP Colón and CEIP López Diéguez.
4. Training Capsule: Good Laboratory Practices.
5. Organization of the technical training 'Laminar Flow Cabinets, Biosafety Cabinets, and Fume Hoods' conducted by Zwei Ingeniería.
6. Outreach activity by the Technical Units: A Coffee with UCAIB 2023.
7. 4 training sessions for the use of histology equipment.

12.10 TECHNOLOGICAL INNOVATION UNIT



STAFF

Cristina Montilla Aguilera

Health Engineer technician

Miguel de Alba Aparicio

Software engineering technician

Ignacio Isla Cros

Software technician

Ana Lara Jiménez

Industrial Design engineering technician

BRIEF DESCRIPTION

Technological Innovation. One of our basic functions is to apply the use of the new Information and Communication Technologies to the different research groups, so that they can be applied to their projects according to need, without the research team having to spend additional time learning them. Likewise, advisory and consultancy services are available to provide the most appropriate technological solutions.

Our main objective is to design and develop scientific-technological and industrial projects for research and clinical staff, with prototypes of medical devices.

Our laboratory is well equipped for the design and construction of 3D design prototypes, with 3D printing, electronic systems and development of software solutions. This is a major boost for innovation development and technology transfer related to the rapid prototyping of systems in the field of medicine.

EQUIPMENT AND FACILITIES

- FDM 3D printers (2 units): Ultimaker S5 equipped with Air Manager S5 and Material Station.
- 3D printers SLA (2 units): Formlabs Form 3 and Form 3B+ with Form Wash, Form Finish Kit, Resin Tank and Build Platform.
- 3D design software - Solidworks 2023.
- CNC machine with protective cover: Stepcraft 840.
- Test stations for electronic devices and PCBs.
- Hanmatek SD1 and Proskit welding posts.
- Oscilloscope: Hantek Dso5202p, 2 channels 200Mhz, 1GSa / s.
- Laboratory power supply (2 units): Velleman LABPS23023. Power supply: RPS 24V 5th.
- Digital multimeter: Lomvum T28B.
- Apple Mac Mini for iOS app development.
- Desktop milling machine monoFab SRM-20.
- Laser cutting machine with camera LS900.
- Interactive table Tactable TSP-55.
- 3D Holographic display HoloFan 3DH Rd-100 PRO.
- CNC Machine BYAKKO LD 3000 6090.
- 3D Scanner Einscan Pro HD with Design Pack.
- Robot Kit Mecanum 4WD.
- Kit Dremel Model 4000.
- Function generators Promax.
- Binocular loupe Euromex.
- Welding post with flexible arms.

MAIN SERVICES

- 3D modeling and printing with FDM and SLA technology.
- Design and manufacturing of devices, electronic equipment, and electromechanical systems in general.
- Segmentation of DICOM files for surgical planning.
- Electronic circuit prototyping and PCB schematic design.
- Low-level programming: microcontrollers, configurable hardware devices, etc.
- Web and mobile application development.
- Creation of Data Collection Notebooks (CRDs).
- Design and implementation of algorithms.
- Database construction

KEY FACTS

NUMBER OF IMIBIC USERS: **46**

NUMBER OF EXTERNAL USERS: **191**

NUMBER OF ONGOING PROJECTS: **6**

COURSES AND TRAINING SESSIONS: **9**

PRIZES OR GRANTED RECEIVED: **1**

REGISTERED PATENTS: **2**

NUMBER OF MEETINGS WITH IMIBIC GROUPS: **16**

NUMBER OF MEETINGS WITH EXTERNAL GROUPS: **28**

PROJECTS

1. AYUDAS A LA I+D+I, EN EL ÁMBITO DEL PLAN ANDALUZ DE INVESTIGACIÓN, DESARROLLO E INNOVACIÓN (PAIDI 2020)/ Creación y Desarrollo de la Unidad de Ingeniería Biomédica e Innovación Tecnológica de Córdoba (CIBiT) asociada al Instituto Maimónides de Investigación Biomédica de Córdoba (IMIBIC)/ GRANTS FOR R + D + I, WITHIN THE SCOPE OF THE ANDALUSIAN RESEARCH PLAN / Creation and development of the Biomedical Engineering and Technological Innovation Unit of Córdoba (CIBiT) linked to the Maimonides Institute for Biomedical Investigation of Córdoba (IMIBIC) /Miguel González Andrades
2. Radiology app. Development of an app for tele-training in radiological medical imaging/ Marina Álvarez/ UGC Radiología.
3. Website and app for testing children to check whether growth is in accordance with biological age (DAUCO).
4. Website to calculate gender-equity model for liver allocation (GEMA)/Manuel Rodríguez Perálvarez/UGC Digestive.
5. Bibliography search tool EACO/Juan Ruano/UGC Dermatología
6. Grants for Hackathon (ESAL 2023)/ Grants call of guidelines developed by non-profit entities which encourage the social economic development of the municipality in 2023.

7. Management tool for HURS mental health unit GLADIS/Fernando Sarramea/UGC Mental health.
8. Web application for monitoring and correcting eating habits. Active user tracking will be facilitated with a series of weekly activities and an integrated support chat. Participation will be reinforced with scored activities, games, videos, user rankings and potential prizes (E2-DUCASS).
9. Development of anti-decubitus system for foot and ankle of bed-ridden patients – ANTELAS Project. Fernando Mayordomo, Physical Medicine.
10. “IVIC”, Drug administration intravenous device. Pablo López, GC31 Comprehensive Nursing Care, multidisciplinary perspective.
11. Design and 3D printing of casing of “Smartcloth”, a digital tablecloth for diabetic patients. Guillermo Molina, GA16 Lifestyles, Innovation and Health PI21/01602.
12. 3D Printing of a DNA model for “The European Researches Night”. María Teresa Roldán Arjona, GC22 Epigenetics.
13. Design and 3D printing of a mould for testing. Miguel González, GE07 Visual Quality.
14. Design and 3D printing of a plate for luminescent trips. Antonio Rivero, GC26 Clinical virology and zoonosis.
15. Design and 3D printing of a comb for multi-channel pipette. Antonio Rivero, GC26 Clinical virology and zoonosis.
16. Research, Development, and Testing with Diabetic Patients of Socks with Electrical Stimulation to Improve Blood Circulation. Fernando Mayordomo, UGC Rehabilitation.
17. Personalized Tissue-Engineered Veins (P-TEV) as the first cure for patients with chronic venous insufficiency. VERIGRAFT IBERIA S.L
18. Incorporation of Proteomic and Radiomic Tools to Improve the Detection and Stratification of Clinically Significant Prostate Cancer. Enrique Gómez Gómez, UGC Urology.
19. Real-life effectiveness of BIC/FTC/TAF in naïve patients with CD4+ less than 200 cells/mL or AIDS events. Antonio Rivero, GC26 Clinical Virology and Zoonoses.
20. Utilization of the GEMA Model Based on Artificial Intelligence to Correct Gender Disparities in Access to Liver Transplantation. Manuel Rodríguez Perálvarez, UGC Digestive.
21. Comparative Study of Happiness and Autonomy Levels in Patients Diagnosed with Bipolar Disorder versus the General Population. Jesús García Jiménez, San Cecilio University Hospital, Loja Community Mental Health Unit.
22. Optimization of Antibiotic Treatment Duration in Abdominal Sepsis Based on the Kinetics of Transcriptomic and Clinical Biomarkers (GENOTIME-COHORT Study). Julián Carlos de la Torre Cisneros, Angela Cano, GC03 Infectious Diseases.

COURSES AND WORKSHOPS

1. Training: how to use the acquired 3D Scanner Einscan Pro HD with Design Pack
2. Training: how to use the acquired 3D bioprinting Regemat by the Microscopy Unit.
3. Webinar “Biomaterials for 3D Bioprinting: Existing and Future”.
4. Class taught at Biotechnological Hackathon 2023 aimed at engineering students.
5. Forum “100 Start ups Health”.
6. Class taught at “Coffee with UCAIBS” aimed at research staff.
7. Training: Specialist in Biomedical Design.
8. Forum “I Biotech Exhibition”.
9. Forum “ISCII Sessions of supporting I+D+I in Biomedicine and Health sciences”.

12.11 3D BIOPRINTING UNIT

STAFF

Gema García Jurado, PhD

Head of Unit. – Contract, ISCIII Biobanks and Biomodels Platform. PT20/00079.

Alvaro Carrasco Carmona, PhD

Senior Technical Specialist – Contract, Investigo Program (2021-C23.I01.P03.S0020-0000004).

BRIEF DESCRIPTION

3D bioprinting is a revolutionary technology that combines tissue engineering with additive manufacturing to create three-dimensional biological structures.

Our 3D bioprinting unit is dedicated to advancing research, innovation and clinical application of this cutting-edge technology.

Our main objectives are:

- To facilitate advances in regenerative and personalised medicine.
- To develop innovative biomedical solutions for diverse clinical applications.
- To collaborate with academic institutions, hospitals, and companies to translate research into viable products and therapies.

EQUIPMENT AND FACILITIES

» REG4LIFE BIOPRINTER (REGEMAT 3D)

- Biomaterials extrusion from -20 to 100°C
- Thermoplastic extrusion up to 250°C
- Biomaterials light-curing by Ultraviolet light 365nm and 405nm
- Syringes with 0.15 mm, 0.58 mm and 1.20 mm output diameters
- Real resolution in the X e Y axis (spindel movement) = 150 µm (0.15mm); Resolution in Z = 400 nm (0.4 microns).
Theoretical resolution in the X and Y axis = 1.875 microns – 1875 nm
- Extrusion, bicomponent, coaxial, refrigerated, heated and high temperature syringes available
- Glass plate, Petri dish and multiwell as printing surfaces
- Automatic X, Y and Z calibration

» APPLICATIONS

- Tissue and Organ Engineering: Tissue regeneration, Functional organs.
- Personalised medicine: Patient-specific tissue models.
- Drug Development: Tissue models for testing, Toxicity testing.
- Research in Biology and Medicine: Studies on disease, regeneration and development.
- Prosthetics and Medical Devices: Customised prostheses, Medical implants.
- Cosmetics: Product testing.

MAIN SERVICES

Providing scientific and technical support throughout the entire bioprinting process, including both pre and post-bioprinting phases:

- Pre-bioprinting: Developing and implementing bioprinting assays and applications according to the user needs.
- Bioprinting: establishing the bioprinting parameters.
- Post-bioprinting: characterisation and biological evaluation of the bioprinted scaffold (cell viability, cell metabolisms and differentiation).

KEY FACTS

The 3D bioprinting Unit belongs to the 3D (BIO) Printing HUB to the ISCIII Biobanks and Biomodels Platform, supporting R & D+ i in Biomedicine and Health Sciences, Strategic Health Action 2017-2020. File code PT20/00079.

The 3D BIOPRINTING HUB of the ISCIII Biobanks and Biomodels Platform contains 15 units spread all around our country in order to offer the highest level of cutting-edge quality and consulting services and delivery of 3D bioprinting and printing services as well as numerous experimental techniques.

NUMBER OF IMIBIC USERS: **2**

NUMBER OF EXTERNAL USERS: **1 (UNIVERSITY OF CORDOBA)**

COURSES AND TRAINING SESSIONS: **1**

NEW INTERNAL SERVICES: **3**

PROJECTS

1. "Pruebas de validación biológica de hidrogeles funcionales basados en nanocelulosa". IX PLAN PROPIO GALILEO, MODALIDAD IIB. Investigador: Eduardo Espinosa Victor. Química Inorgánica e Ingeniería Química, Universidad de Córdoba.

COURSES AND WORKSHOPS

1. Participation at the workshop "Biomateriales para la Bioimpresión 3D: Actualidad y futuro", Speaker Gema Garcia-Jurado, Title: "Servicios de Bioimpresión 3D: Oportunidades de desarrollo". 17/05/2023. Universidad de Córdoba.

The background of the page is a vibrant, abstract composition. It features a mix of organic, flowing shapes in shades of teal, green, and yellow, set against a deep black background. There are also some smaller, more defined shapes in red and orange, particularly on the left side. The overall effect is one of dynamic energy and complexity.

COMMUNICATION
& RRI

13



- Number of events: **73**
- Number of news items in mass media: **>500**
- Number of website visits: **311,028**
- Number of visits to IMIBIC:
 1. Institutional: **12**
 2. Educational: **52**
- Number of people visiting IMIBIC: **2249**
- Interaction data on social media: **>1,000,000**

IMIBIC - RRI ACTIONS IN 2023

Scientific dissemination activities aimed at secondary school students: most of these scientific dissemination activities, adapted to the age/level of the participating students, the characteristics of the school and type of activity, were of the following types:

- **School Visits Programme 2023.** These visits are aimed, for the most part, at upper-level secondary school students (Bachillerato and ESO). During 2023, IMIBIC hosted 36 visits as part of this programme, with a total of 1292 students and 94 teachers. Various educational centres from our city took part in these visits, among them: CES Lope de Vega, IES Blas Infante, Colegio Fundación Zalima, IES Fuensanta, IES Fidiana and IES Villarrubia.
- **Presentation of IMIBIC as part of the School Visits Programme of the University Hospital Reina Sofía de Córdoba (HURS).** We have been involved in this activity for 12 consecutive years. The Institute participated in 16 organised visits, which were attended by 456 high school students and 25 teachers from various schools in Córdoba and the province.

Scientific dissemination activities for other social groups: The activities in this section, adapted to the characteristics, age and interests of the participating social groups, included:

- **Programme of visits to IMIBIC for students of Higher Level Training Cycles. (CFGS):** These visits are mainly aimed at students in the higher level training cycles of the Health family. In 2023, IMIBIC hosted 9 visits as part of this programme, with a total of 254 students and 25 teachers. Several educational centres in our city took part in these visits, such as, IES Juan de Aréjula, IES Antonio M^a Calero, IES Sancti Petri and IES Fuensanta.
- **Programme of visits to IMIBIC for students from the University of Cordoba:** These visits are aimed at students from the Advanced Polytechnic School of Córdoba and the Faculty of Education Sciences and Psychology of the University of Cordoba. During 2023, IMIBIC hosted visits as part of this programme, with a total of 130 students and 4 lecturers.

Projects and events related to Responsible Research and Innovation (RRI) carried out or held during 2023 included, among others:

- **The E-ducass project:** this project was funded by the ISCIII as part of the Strategic Action in Health. The project is aligned with health literacy and focuses on novel solutions for vulnerable populations with health inequalities.
- **European Researchers Night:** In 2023, this event was aimed at patients belonging to different associations. This event adopted the format of a “colloquium” with the participation of a scientific moderator and two speakers: a clinical researcher and a basic researcher specialized in innovation. The aim of this event was for patients to learn in a very dynamic way about the work of these health professionals and its impact on healthcare.
- **I Race for Health Research:** On June 18, 2023, IMIBIC organized the First Race for Health Research in collaboration with all the hospitals of Cordoba and with the support of the University of Cordoba. The main objective of this sporting proposal was to give visibility to biomedical research in our province. A total of 1,000 people took part in the race.
- **“Conoce a tu Enfermera” Campaign:** IMIBIC collaborated in this campaign of the Official College of Nurses of Cordoba, with the aim of giving visibility to the figure and role of nurses in the health research carried out at IMIBIC.
- **“Retrata la Ciencia” Campaign:** In commemoration of the International Day of Women and Girls in Science, celebrated every February 11, the initiative “Retrata la Ciencia – Investigadoras Sin Filtro” was launched. This action consisted of a photographic exhibition of IMIBIC female researchers in the corporate social networks to highlight the work of women researchers in our institute.
- **“Nutriconsejos”:** This is a project in social networks consisting of the periodic dissemination of tips on healthy eating habits that users can apply in their routine to improve their health. In this way, useful information is provided on a relevant topic for a society that is increasingly aware of the importance of nutritional education.
- **“¿Sabías qué...?”:** Activity in social networks whose objective was to transmit notions related to biomedical research, exposing the definition of the most common terms in scientific dissemination. In this way, the most commonly used biomedical terminology is made known among users.

Within the framework of the RRI actions, also worth highlighting is the participation of key non-scientific actors in some of the internal committees, including the Equality, Training, Innovation and Clinical Research Committees, as well as the grants for Open Access publications as part of IMIBIC's Own Plan (*Plan Propio*).

The background is a complex, abstract composition. It features a prominent diagonal band of vibrant colors—red, orange, yellow, green, and blue—running from the top left towards the center. Below this band, there are large, dark, irregular shapes that resemble cells or organic structures, some with bright, multi-colored outlines. The bottom half of the image is dominated by a dense field of small, dark, circular spots on a reddish-pink background, giving it a textured, almost microscopic appearance.

GOALS FOR 2024

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THE INSTITUTIONAL GOALS FOR THE YEAR 2024, APPROVED BY THE GOVERNING COUNCIL OF THE INSTITUTE, ARE AS FOLLOWS:

- To carry out actions to ensure the generational replacement of principal investigators with a clinical profile.
- To carry out strategies that allow for a closer approach to society
- To establish strategies to promote clinical research (industry meetings, close monitoring of Clinical Management Units' needs, etc.).
- Attracting new researchers (Ramón y Cajal, Emergia, International researchers...).
- Establishing strategies to increase success in competitive calls for proposals.



ANNEXES

15

15.1 PUBLICATIONS

PUBLICATIONS	IMIBIC GROUP
Alvarez-Heredia P, Dominguez-del-Castillo JJ, Reina-Alfonso I, Gutierrez-Gonzalez C, Hassouneh F, Batista-Duarte A, Trujillo-Aguilera A, Lopez-Romero R, Munoz I, Solana R, Pera A. A Straightforward Cytometry-Based Protocol for the Comprehensive Analysis of the Inflammatory Valve Infiltrate in Aortic Stenosis. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms24032194. IF: 5,6 Q1 D3	GC01
Guil-Luna S, Rivas-Crespo A, Navarrete-Sirvent C, Mantrana A, Pera A, Mena-Osuna R, Toledano-Fonseca M, García-Ortiza MV, Villar C, Sanchez-Montero MT, Krueger J, Medina-Fernandez FJ, Haba-Rodríguez JDL, Auxiliadora E, Aranda E, Rudd CE, Rodríguez-Ariza A. Clinical significance of glycogen synthase kinase 3 (GSK-3) expression and tumor budding grade in colorectal cancer: Implications for targeted therapy. BIOMEDICINE & PHARMACOTHERAPY. 2023. DOI: 10.1016/j.biopha.2023.115592. IF: 7,5 Q1 D1	GC01
Mena-Osuna R, Mantrana A, Guil-Luna S, Sanchez-Montero MT, Navarrete-Sirvent C, Morales-Ruiz T, Rivas-Crespo A, Toledano-Fonseca M, Garcia-Ortiz MV, Garcia-Jurado G, Gomez-Espana MA, Gonzalez-Fernandez R, Villar C, Medina-Fernandez FJ, Villalba JM, Aranda E, Rodriguez-Ariza A. Metabolic shift underlies tumor progression and immune evasion in S-nitrosoglutathione reductase-deficient cancer. JOURNAL OF PATHOLOGY. 2023. 261-275. DOI: 10.1002/path.6080. IF: 7,3 Q1 D1	GC01
Trigo-Rodriguez M, Carcel S, Navas A, Espindola-Gomez R, Garrido-Gracia JC, Moreno MAE, Leon-Lopez R, Perez-Crespo PMM, Alonso EA, Vinuesa D, Romero-Palacios A, Perez-Camacho I, Gutierrez-Gutierrez B, Martinez-Marcos FJ, Fernandez-Roldan C, Leon E, Cano AA, Corzo-Delgado JE, Perez-Nadales E, Riazco C, de la Fuente C, Jurado A, Torre-Cisneros J, Merchante N. Role of IP-10 to Predict Clinical Progression and Response to IL-6 Blockade With Sarilumab in Early COVID-19 Pneumonia. A Subanalysis of the SARICOR Clinical Trial. OPEN FORUM INFECTIOUS DISEASES. 2023. DOI: 10.1093/ofid/ofad133. IF: 4,2 Q2 D5	GC01
Aguilera AT, Serrano RB, Navas A, Molina JA, Romero PA, Roger AJ. Longitudinal study of patients with discrepant results in CLIFT and a solid-phase dsDNA antibody assay: does a gold standard dsDNA assay exist?. LUPUS SCIENCE & MEDICINE. 2023. DOI: 10.1136/lupus-2023-000984. IF: 3,9 Q2 D5	GC01
del Rio PR, Caimmi D, Nieto PR, Vidal C, Moreno C, Gonzalez-Fernandez MT, Tomas-Perez M, Beristain A, Bosse I, Trinh HB, Casale TB, Demoly P, Calderon MA, CHOICE Survey Team. CHOICE international survey: Clusters of allergen immunotherapy prescription from French and Spanish cohorts. WORLD ALLERGY ORGANIZATION JOURNAL. 2023. DOI: 10.1016/j.waojou.2023.100791. IF: 5,1 Q2 D4	GC01
Caimmi D, del Rio PR, Rico P, Vidal C, Moreno C, Casale TB, Demoly P, Calderon MA. Criteria used by health professionals on the selection of allergen immunotherapy in real clinical practice: Methodology br. WORLD ALLERGY ORGANIZATION JOURNAL. 2023. DOI: 10.1016/j.waojou.2023.100749. IF: 5,1 Q2 D4	GC01
Carreira-Santos S, López-Sejas N, González-Sánchez M, Sanchez-Hernandez E, Pera A, Hassouneh F, Durán E, Solana R, Casado JG, Tarazona R. Enhanced expression of natural cytotoxicity receptors on cytokine-induced memory-like natural killer cells correlates with effector function. FRONTIERS IN IMMUNOLOGY. 2023. DOI: 10.3389/fimmu.2023.1256404. IF: 7,3 Q1 D3	GC01
Vega-Castro A, Castro L, Carballada F, Alfaya T, Marquès L, Ruíz-León B. Hymenoptera Allergy Diagnosis through Their Presence on Human Food. TOXINS. 2023. DOI: 10.3390/toxins15120680. IF: 4,2 Q1 D3	GC01
Martinez-Martinez L, Irure-Ventura J, Jurado A, Roy G, Montes MA, Barrios Y, Rodriguez-Bayona B, Vergara E, Prada A, Rojo R, Vargas ML. Laboratory and clinical practices in antinuclear antibody detection and related antigens: recommendations from a Spanish multicentre survey. IMMUNOLOGIC RESEARCH. 2023. 749-759. DOI: 10.1007/s12026-023-09389-x. IF: 4,4 Q2 D5	GC01

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Almeida JS, Casanova JM, Santos-Rosa M, Tarazona R, Solana R, Rodrigues-Santos P. Natural Killer T-like Cells: Immunobiology and Role in Disease. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms24032743. IF: 5,6 Q1 D3	GC01
Nunez-Borque E, Betancor D, Pastor-Vargas C, Fernandez-Bravo S, Martin-Blazquez A, Casado-Navarro N, Lopez-Dominguez D, Gomez-Lopez A, del Rio PR, Tramon P, Beitia JM, Moreno-Aguilar C, Gonzalez-de-Olano D, Goikoetxea MJ, Ibanez-Sandin MD, Laguna JJ, Cuesta-Herranz J, Esteban V. Personalized diagnostic approach and indirect quantification of extravasation in human anaphylaxis. ALLERGY. 2023. 202-213. DOI: 10.1111/all.15443. IF: 12,4 Q1 D1	GC01
Rojo R, Alén JC, Prada A, Valor S, Roy G, López-Hoyos M, Cervera R, Mateos PS, Roger AJ. Recommendations for the use of anti-dsDNA autoantibodies in the diagnosis and follow-up of systemic lupus erythematosus - A proposal from an expert panel. AUTOIMMUNITY REVIEWS. 2023. DOI: 10.1016/j.autrev.2023.103479. IF: 13,6 Q1 D1	GC01
Zamora-Olaya JM, Aparicio-Serrano A, Torres VA, González AP, Montero JL, Baena PB, Frias MS, Bru RC, Delgado JB, De la Mata M, Rodríguez-Perálvarez M. Changes in the Liver Transplant Waiting List after Expanding to the 'Up-to-Seven' Criteria for Hepatocellular Carcinoma. JOURNAL OF PERSONALIZED MEDICINE. 2023. DOI: 10.3390/jpm13121670. IF: 3,4 Q2 D4	GC02
Rodríguez-Peralvarez ML, Gomez-Orellana AM, Majumdar A, Bailey M, McCaughan GW, Gow P, Guerrero M, Taylor R, Guijo-Rubio D, Hervás-Martínez C, Tsochatzis EA. Development and validation of the Gender-Equity Model for Liver Allocation (GEMA) to prioritise candidates for liver transplantation: a cohort study. LANCET GASTROENTEROLOGY & HEPATOLOGY. 2023. 242-252. DOI: 10.1016/S2468-1253(22)00354-5. IF: 35,7 Q1 D1	GC02
Medina-Medina R, Iglesias-Flores E, Benitez JM, Marin-Pedrosa S, Salgueiro-Rodriguez I, Linares CI, Gonzalez-Rubio S, Soto-Escribano P, Gros B, Rodriguez-Peralvarez ML, Cabriada JL, Chaparro M, Gisbert JP, Chicano-Galvez E, Ortea I, Ferrin G, Garcia-Sanchez V, Aguilar-Melero P. Development of a Prediction Model for Short-Term Remission of Patients with Crohn's Disease Treated with Anti-TNF Drugs. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms24108695. IF: 5,6 Q1 D3	GC02
Espejo-Cruz ML, Gonzalez-Rubio S, Espejo JJ, Zamora-Olaya JM, Alejandro-Altamirano RM, Prieto-Torre M, Linares CI, Guerrero-Misas M, Barrera-Baena P, Poyato-Gonzalez A, Sanchez-Frias M, Ayllon MD, Rodriguez-Peralvarez ML, de la Mata M, Ferrin G. Enumeration and Characterization of Circulating Tumor Cells in Patients with Hepatocellular Carcinoma Undergoing Transarterial Chemoembolization. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 2023. DOI: 10.3390/ijms24032558. IF: 5,6 Q1 D3	GC02
Gros B, Perez AG, Pleguezuelo M, Ruiz FJS, de la Mata M, Rodriguez-Peralvarez M. Helicobacter Species and Hepato-Biliary Tract Malignancies: A Systematic Review and Meta-Analysis. CANCERS. 2023. DOI: 10.3390/cancers15030595. IF: 5,2 Q2 D3	GC02
Gros B, Soto P, Causse M, Marin S, Iglesias E, Benitez JM. Impact of Clostridioides difficile infection in patients admitted with ulcerative colitis. SCANDINAVIAN JOURNAL OF GASTROENTEROLOGY. 2023. 232-239. DOI: 10.1080/00365521.2022.2121175. IF: 1,9 Q4 D	GC02
Lopez-Canovas JL, Herman-Sanchez N, del Rio-Moreno M, Fuentes-Fayos AC, Lara-Lopez A, Sanchez-Frias ME, Amado V, Ciria R, Briceno J, de la Mata M, Castano JP, Rodriguez-Peralvarez M, Luque RM, Gahete MD. PRPF8 increases the aggressiveness of hepatocellular carcinoma by regulating FAK/AKT pathway via fibronectin 1 splicing. EXPERIMENTAL AND MOLECULAR MEDICINE. 2023. 132-142. DOI: 10.1038/s12276-022-00917-7. IF: 12,8 Q1 D1	GC02

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Montano-Loza AJ, Rodriguez-Peralvarez ML, Pageaux GP, Sanchez-Fueyo A, Feng S. Liver transplantation immunology: Immunosuppression, rejection, and immunomodulation. JOURNAL OF HEPATOLOGY. 2023. 1199-1215. DOI: 10.1016/j.jhep.2023.01.030. IF: 25,7 Q1 D1	GC02
Acosta MBD, Fernandez-Clotet A, Mesonero F, Garcia-Alonso FJ, Casanova MJ, Fernandez-de la Varga M, Canete F, de Castro L, Gutierrez A, Sicilia B, Cano V, Merino O, de Francisco R, Gonzalez-Partida I, Suris G, Torrealba L, Ferreira-Iglesias R, Castro B, Marquez L, Sobrino A, Elorza A, Calvet X, Varela P, Vicente R, Bujanda L, Lario L, Mancenido N, Garcia-Sepulcre MF, Iglesias E, Rodriguez C, Piqueras M, Rosique JAF, Lucendo AJ, Benitez O, Garcia M, Olivares D, Gonzalez-Munoz C, Lopez-Cauce B, Alvarado VJM, Spicakova K, Brotons A, Bermejo F, Almela P, Ispizua N, Gilabert P, Tardillo C, Munoz F, Navarro P, Dominguez REM, Sendra P, Hinojosa E, Sainz E, Martin-Arranz MD, Carpio D, Ricart E, Caballol B, Nunez L, Barrio J, Gisbert JP, Iborra M, Calafat M, Hernandez V, Perez R, Cabriada JL, Domenech E, Rodriguez-Lago I. Long-Term Outcomes of Biological Therapy in Crohn's Disease Complicated With Internal Fistulizing Disease: BIOSCOPE Study From GETECCU. AMERICAN JOURNAL OF GASTROENTEROLOGY. 2023. 1036-1046. DOI: 10.14309/ajg.0000000000002152. IF: 9,8 Q1 D2	GC02
Lagal DJ, Lopez-Grueso MJ, Pedrajas JR, Leto TL, Barcena JA, Requejo-Aguilar R, Padilla CA. Loss of PRDX6 Aborts Proliferative and Migratory Signaling in Hepatocarcinoma Cell Lines. ANTIOXIDANTS. 2023. DOI: 10.3390/antiox12061153. IF: 7 Q1 D1	GC02
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Cano-Garcia L, Redondo-Rodriguez R, Manrique-Arija S, Dominguez-Quesada C, Vacas JC, Armenteros-Ortiz P, Ruiz-Vilchez D, Martin-Martin JM, Garcia-Studer A, Ortiz-Marquez F, Mena-Vazquez N, Fernandez-Nebro A. Prevalence of Malnutrition and Associated Factors in Older Patients with Rheumatoid Arthritis: A Cross-Sectional Study. <i>NUTRIENTS</i> . 2023. DOI: 10.3390/nu15163500. IF: 5,9 Q1 D2	Rheumatology

PUBLICATIONS	IMIBIC GROUP
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Ruiz E, Moreno P, Gonzalez FJ, Fernandez AM, Cantador B, Parraga JL, Salvatierra A, Alvarez A. Influence of De Novo Malignancies on Long-Term Survival after Lung Transplantation. CANCERS. 2023. DOI: 10.3390/cancers15154011. IF: 5,2 Q2 D3	Thoracic Surgery Unit
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Dominguez-Rodriguez A, Hernandez-Vaquero D, Suero-Mendez C, Burillo-Putze G, Gil V, Calvo-Rodriguez R, Pinera-Salmeron P, Llorens P, Martin-Sanchez FJ, Abreu-Gonzalez P, Miro O. Midazolam versus morphine in acute cardiogenic pulmonary edema patients with and without atrial fibrillation: findings from the MIMO trial. EUROPEAN JOURNAL OF EMERGENCY MEDICINE. 2023. 78-84. DOI: 10.1097/MEJ.0000000000001005. IF: 4,4 Q1 D2	Urgencias

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Llorens P, Miro O, Benito MV, Fernandez C, Jacob J, Burillo-Putze G, Alquezar A, Aguilo S, Ballard MP, Baena SB, Cho JUH, Romero MSJ, Palma MER, Madrigal AA, Romero MR, Lopez MIL, Gonzalez RG, Fernandez MC, Franco BM, Ferrer EAP, Guillen VG, Martin SG, Sindin GS, Zapico AP, Marquez PP, Espinosa B, del Castillo JG. Plasma sodium concentration in older patients as an indicator of severity in emergencies: Results from the Emergency Department and Elder Needs-16 study. EMERGENCIAS. 2023. 279-287. DOI: No consta. IF: 5,5 Q1 D2	Urgencies
Castillero AM, Morales LG, Gomez EG, Hernandez JPC. Management of Penis Fracture: Clinical Cases Treated in Our Center and Comparison with Literature. ARCHIVOS ESPANOL DE UROLOGIA. 2023. 363-368. DOI: 10.56434/j.arch.esp.urol.20237605.43. IF: 0,5 Q4 D	Urgencies
Castillo LC, Morales LG, Lopez DR, Segura JS, Rosa JV, Curado FJA, Quesada JM, Pedregosa AB, Valiente JC, Gomez EG. The role of multiparametric magnetic resonance in active surveillance of a low-risk prostate cancer cohort from clinical practice. PROSTATE. 2023. 765-772. DOI: 10.1002/pros.24515. IF: 2,8 Q2 D5	Urgencies
Puigvert-Martinez AM, Prieto-Castro R, Artigas-Feliu R, Illan-Mateo P, Cruz-Culebra N, Gonzalez-Ayala G, PANDORA Project Regional Comm. Management of erectile dysfunction and premature ejaculation: The perspective of Spanish urologists. Results of the PANDORA Project (Part II). REVISTA INTERNACIONAL DE ANDROLOGIA. 2023. DOI: 10.1016/j.androl.2023.100353. IF: 0,8 Q4 D	Urgencies

15.2 CLINICAL TRIALS

THESES DEFENDED IN 2023

PhD STUDENT	TITLE OF THE THESIS	IMIBIC GROUP
Cano Yuste, Ángela María	Risks of infection and mortality among patients colonized with KPC-producing <i>Klebsiella pneumoniae</i> : Validation of scores and proposal for management	GC03
Páez Vega , Aurora María	Clinical trial to stop valganciclovir prophylaxis in CMV-seropositive renal transplant patients who maintain CD8+ CMV-specific cellular immunity after receiving thymoglobulin	GC03
JIMÉNEZ IZQUIERDO, RAFAEL MANUEL	New mechanisms of control of the tumor suppressor protein FBXW7 mediated by DYRK2 kinase.	GC04
Alcaraz Clariana, Sandra	CLINICAL APPLICATIONS OF LUMBAR PARASPINAL MECHANICAL PROPERTIES AND LUMBOPELVIC KINEMATICS IN SUBJECTS WITH MECHANICAL AND INFLAMMATORY LOW BACK PAIN	GC05
Gómez García, Ignacio	CHARACTERIZATION OF THE EXTRA-MUSCULOSKELETAL MANIFESTATIONS AND THEIR INFLUENCE ON THE PHENOTYPE OF SPONDYLOARTHRITIS	GC05
Pérez Sánchez, Laura	CHARACTERISATION OF THE ATHEROTHROMBOTIC RISK IN PATIENTS WITH ANTIPHOSPHOLIPID SYNDROME BY TRANSCRIPTOMIC ANALYSES	GC05
Sánchez-Agesta Martínez, Marina	NEW DIAGNOSTIC AND THERAPEUTIC APPROACHES IN EXTRACAPILAR GLOMERULONEPHRITIS	GC07
Martín Piedra , Laura	MEDIUM-TERM EVOLUTION OF METABOLIC RISK PHENOTYPES IN CARDIOVASCULAR PATIENTS AFTER DIETARY INTERVENTION: MEDITERRANEAN DIET OR LOW-FAT DIET (CORDIOPREV STUDY)	GC09
Millán Orge, Marta	PREDICTION OF CARDIOVASCULAR DISEASE IN CORONARY PATIENTS BY A CLINICAL EVENT RECURRENCE SCORE AND THE INFLUENCE OF DIET. CORDIOPREV STUDY	GC09
Pérez Cardelo, María Magdalena	DIETARY STRATEGIES IN THE MANAGEMENT OF TYPE 2 DIABETES IN PATIENTS WITH CORONARY HEART DISEASE: FROM THE CORDIOPREV STUDY	GC09
Romero Cabrera, Juan Luis	ASSESSMENT OF CARDIOVASCULAR RISK IN PATIENTS WITH DISRUPTION OF CIRCADIAN RHYTHM ON SECONDARY PREVENTION AND FOLLOWING A DIETARY INTERVENTION (MEDITERRANEAN DIET OR LOW-FAT DIET)	GC09
Romero Cabrera, Juan Luis	ASSESSMENT OF CARDIOVASCULAR RISK IN PATIENTS WITH DISRUPTION OF CIRCADIAN RHYTHM ON SECONDARY PREVENTION AND FOLLOWING A DIETARY INTERVENTION (MEDITERRANEAN DIET OR LOW-FAT DIET)	GC09
Perdices López, Cecilia María	MICRORNAS AND GRK2 AS MODULATORS OF KISS1/ GPR54 SYSTEM: PHYSIOPATHOLOGICAL ROLE IN PUBERTAL ALTERATIONS AND OBESITY INDUCED HYPOGONADISM	GC10

PhD STUDENT	TITLE OF THE THESIS	IMIBIC GROUP
Ruíz Cruz, Miguel	“Novel regulatory mechanisms of Kiss1 neurons during reproductive axis development and in conditions of metabolic stress: Analysis of the roles of microRNAs and elements of the secretory pathway”	GC10
Tercero Alcázar, Carmen	Extracellular matrix and fibrosis in adipose tissue in obesity and insulin resistance.	GC11
López Baltanás, Rodrigo	INFLUENCE OF MAGNESIUM SUPPLEMENTATION ON OXIDATIVE STRESS, INFLAMMATION AND VASCULAR DYSFUNCTION ASSOCIATED TO CHRONIC KIDNEY DISEASE: IN VIVO AND IN VITRO STUDIES	GC13
Martín Dorado, Ernesto	Benefit of canagliflozin in patients with type 2 diabetes after hospitalization for acute heart failure	GC15
Rodríguez Diego, Sara	THE ROLE OF TWO-DIMENSIONAL SPECKLE-TRACKING ECHOCARDIOGRAPHY IN NON-INVASIVE DIAGNOSIS OF ASYMPTOMATIC ACUTE CELLULAR REJECTION IN HEART TRANSPLANT RECIPIENTS	GC15
Rodríguez Benítez, María Victoria	INVASIVE AND NON-INVASIVE METHODS TO STUDY INFLAMMATORY PARAMETERS IN PREMATURE NEWBORNS WITH NRCROTIZING ENTEROCOLITIS	GC23
Aranburu Imatz, Alejandra	Epidemiology of care for chronically ill patients aged 50 years and older, cared for at the “Azienda ULSS1 Dolomiti” (Veneto-Italy) in the Pre-COVID 2017/2019 COVID 2020 period.	GC31
Curcio, Felice	RISK ASSESSMENT OF PRESSURE INJURIES AND PREVENTION IN NEWBORNS ADMITTED TO INTENSIVE CARE	GE10
Luque Álcázar, Olga María	NURSING RESPONSIBILITY IN ENVIRONMENTAL SUSTAINABILITY	GE10
Muñoz Gómez, Rafaela	Validation of the STOP-Bang questionnaire for the diagnosis of sleep apnea-hypopnea syndrome in the population aged 40 years or older.	GE10
Pastor López, Ángeles	Care for the elderly at social risk, experiences of a complex social and health reality.	GE10
Valle Martos, Rosario	URIC ACID AND LIVER FUNCTION MARKERS RELEVANCE IN METABOLIC SYNDROME, ENDOTHELIAL DYSFUNCTION AND INFLAMMATION, IN RESPONSE TO THE TREATMENT OF CHILDHOOD OBESITY	GA05

The highlighted theses have been awarded an international mention.

