
2022
SCIENTIFIC REPORT
INCLIVA | VLC
Biomedical Research Institute

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Avd. Menéndez Pelayo, 4 Accesorio – 46010 Valencia

Managing direction:
Mr. Vicente de Juan Martín

Coordination and writing:
Scientific Management Department
Fundación Investigación Hospital Clínico Universitario de Valencia
INCLIVA Biomedical Research Institute

Design: Marta Ballester Collado
Layout: Ideas Estratégicas de Marketing y Comunicación S.L.

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introduction

INCLIVA | VLC
Biomedical Research Institute

We are pleased to once again present the INCLIVA Annual Scientific Report, which summarizes the extensive scientific activity and achievements in 2022 of the research groups of the *Hospital Clínico Universitario de València* and the INCLIVA-affiliated groups of scientific excellence of the University of Valencia Faculty of Medicine and Dentistry and the Carlos Simón Foundation.

In 2022, the joint effort of our staff has brought us further in establishing INCLIVA as one of the predominant Biomedical Research Institutes in the country, internationally acclaimed and with a prolific research output.

This boost in INCLIVA's research activity can be observed in the formal recognition of a new emerging group in the priority research line in metabolism (Medical Chemistry Research Group for Drug Development) and a new consolidated group within the priority research line in oncology (Research Group in Molecular Microbiology and Microbial Pathogenesis), as well as in the creation of five associated clinical groups: Associated Clinical Group in Urology, Associated Clinical Group in Digestive Medicine, Associated Clinical Group in Traumatology and Orthopedics, Associated Clinical Group in Neurology and Associated Clinical Group in Pharmacy.

INCLIVA has continued to strengthen its reputation for high-quality, competitive projects, confirming the upward trend of recent years by securing almost five million euros in funding for 44 new national and regional projects. In terms of the Carlos III Health Institute-funded call for personnel, INCLIVA staff have received overall two Joan Rodés scholarships, two Río Hortega scholarships, two Miguel Servet scholarships, and one Sara Borrell scholarship. Furthermore, a national pre-doctoral scholarship from the Ministry of Science and Innovation and the Ministry of Universities and three grants from the Department of Innovation, Universities, Science and Digital Society of the Department of Health of the Generalitat Valenciana have been awarded.

Among our achievements on an international level, the Ministry of Economic Affairs and Digital Transformation has provided funding to the sum of over five million euros for the INTEGRA-CLOUD project, which will implement real time integration of health data for the Malvarrosa Department of Clinical Health in the Valencia province.

Our researchers have been highly successful in competitive calls from the European Commission, accumulating funding of almost nine million euros for projects in the fields of big data and artificial intelligence, oncology, nephrology, hypertension, digital innovation and for the Mediterranean Researchers' Night. One of these projects, AIDA (An Artificially Intelligent Diagnostic Assistant for gastric inflammation) is coordinated by INCLIVA over a four-year term and has secured over seven million euros in total funding.

1 introduction

Another key achievement of 2022 is our participation in international networks such as the Big Data Value Association (BDVA/DAIRO), the European infrastructure for translational medicine (EATRIS), the European high-capacity screening network (EU-OPENSCREEN) and the Worldwide innovative networking (WIN) in personalized cancer medicine.

Regarding scientific output, our research staff published 786 articles in 2022, with a cumulative impact factor of over 8,500 points. The quality of our research output should also be highlighted: around 80% of the published articles are in the first and second quartiles, 20% in the first decile and 29% have an impact factor above 7. Furthermore, 52% of scientific output involved international collaboration. A total of 51 doctoral theses were also defended in 2022, 11 of which received European mention.

Turning to clinical trials, our Drug Research Ethics Committee (CEIm) at the *Hospital Clínico Universitario de Valencia*, the first in the Valencian Community and among the first nationally to receive this certification, has been a review board of reference in 91 clinical studies since the new legislation was approved in 2016. During 2022 INCLIVA has initiated 105 new clinical studies and has participated in 687 active studies.

The Innovation Unit has been further consolidated both in INCLIVA and within the business community. Together with the Maxillofacial Surgery Unit of the *Hospital Clínico Universitario de Valencia*, this unit has supported the creation of the Advanced Diagnostics Unit, which uses 3D printing and medical imaging to improve patient care and reduce the side effects of complex surgeries. In addition, it has promoted innovative projects with companies and technology centres and has actively collaborated with four INCLIVA spin-offs.

Finally, in 2022 we also published the Interim Report of the II INCLIVA Equality Plan (2020–2024), which includes a General Employee Training Plan, reflecting the institute's commitment to equality policies.



Mr. Andrés Cervantes Ruipérez
INCLIVA Scientific Director

origin & structure

INCLIVA SCIENTIFIC REPORT 2022

2. INCLIVA origin and structure
2.1 History
2.2 Organizational structure
2.2.1. Government structure
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2.2.1.4 Scientific Director
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Innovation Commission
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2.3 Core facilities

INCLIVA origin and structure

2.1. History

The *Hospital Clínico Universitario of Valencia* Research Foundation was constituted in the year 2000 as the first Valencian research foundation affiliated to a public hospital. Ten years later, various centers of excellence in biomedical research from the University of Valencia and Carlos Simón Foundation joined the Foundation through the establishment of specific agreements, and thus INCLIVA Biomedical Research Institute was created.

INCLIVA's main aims are to manage the biomedical research carried out by the *Hospital Clínico Universitario de Valencia* and its Health Department, and to encourage teaching and scientific activities, thus improving patient treatment and knowledge sharing.

In 2011 INCLIVA was accredited as a Biomedical Research Institute by the Ministry of Science and Innovation (*Ministerio de Ciencia e Innovación*) thus obtaining preferential treatment from the Carlos III Health Institute (*Instituto de Salud Carlos III*), in recognition of its excellence in research.

In 2021 INCLIVA received the official notification of renewal of its accreditation as Biomedical Research Institute for the next five years.



INCLIVA origin and structure

2.2. Organizational structure

2.2.1. Government structure

The highest government body in the Foundation, the Board of Trustees is headed by the Regional Minister for Health of the Valencian Government. This body appoints a Board of Governors – headed by the Chief Executive Officer of the Health Department –, the Managing Director and the Scientific Director. These are guided by two Research Committees: the External Scientific Committee and the Internal Scientific Committee.

2.2.1.1 Board of Trustees

President, Mr. Miguel Mínguez, Honorable Counselor of the High Sanitary Inspection of the *Conselleria de Sanidad Universal y Salud Pública* (Autonomous Public Health Deptartment) of the Valencian Government

Vice-president, Mr. Álvaro Bonet, Chief Executive Officer of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department

Board members

- Mrs. María Vicenta Mestre, Distinguished Dean of the University of Valencia
- Mr. Francisco Javier Chorro, Distinguished Dean of the Faculty of Medicine of the University of Valencia
- Mrs. Emilia Adán García. President of the Social Council of the University of Valencia
- Mr. Juan López-Trigo Pichó, Cañada Blanch Foundation
- Mr. Rafael Alcón Traver, President of Bancaja Foundation
- Mr. José Bernardo Noblejas Pérez, Valencia Chamber of Commerce, Industry and Navigation
- Mrs. Concha Andrés Sanchis, Autonomous Secretary of Efficiency and Health Technology of the *Conselleria de Sanidad Universal y Salud Pública* (Autonomous Public Health Department) of the Valencian Government
- General Director of Research and High Sanitary Inspection of the *Conselleria de Sanidad Universal y Salud Pública* (Autonomous Public Health Department) of the Valencian Government
- Mrs. Núria Vizcarro Boix, Valencian Council of Culture
- Mr. Carlos Simón, Scientific Director of the Carlos Simón Foundation
- Mr. Rubén Ventura, Fero Foundation
- Mrs. Bárbara Congost Mirón, FEDER (Spanish Federation of Rare Diseases) representative

Board members under own name

- Mr. Carlos Pascual de Miguel
- Mr. Joaquín Ortega Serrano
- Mr. Tomás Trénor Puig
- Mrs. Ana Lluch Hernández
- Mrs. Àngela Nieto Toledano

2.2.1.2 Board of Governors

President, Mr. Álvaro Bonet Pla, Chief Executive Officer of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department

Vice-president, Mr. Francisco Javier Chorro, Distinguished Dean of the Faculty of Medicine of University of Valencia

Vocals

- Mr. Andrés Cervantes Ruipérez, INCLIVA Scientific Director
- Mr. Vicente de Juan Martín, Managing Director
- Mrs. Ana Sanmartín Almenar, Primary Care Director of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department
- Mr. Jorge Navarro Pérez, Medical Director of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department
- Director of Research and High Sanitary Inspection of the *Conselleria de Sanidad Universal y Salud Pública* (Autonomous Public Health Department) of the Valencian Government

- Mr. Pascual Medina Besó, Coordinator of Central Medical Research Unit of the Faculty of Medicine of University of Valencia
- Mr. Manuel Alós, Head of the Pharmacy Service of *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department
- Mrs. Marisa Luisa Calabuig, President of Ethic Committee for Investigation with medicinal products
- Mr. Federico Pallardó, Professor of the Department of Physiology of the University of Valencia
- Mr. Carlos Simón, Scientific Director of the Carlos Simón Foundation
- Mrs. Maite Sáenz, Secretary General

2.2.1.3 Managing Director

Mr. Vicente de Juan Martín, INCLIVA IIS Economic Director from 2016 to 2022, this year he has been appointed managing director of the institution by the Board of Trustees, at the proposal of the Governing Board. His functions are included in article 20 of the Statutes dated 3 May 2022. He is an ex officio member of the Governing Board and advisory member of the Board of Trustees. He is the designated representative of the Foundation in the absence of the President and Vice Presidents, and directs the Foundation's economic policy, following the decisions of the governing bodies of the Foundation. He formulates the entity's Action Plan and Annual Accounts for approval by the Board of Trustees, holding the position of chief of staff.

2.2.1.4 Scientific Director

Professor Andrés Cervantes Ruipérez is Full Professor of Medicine at the University of Valencia, Head of the Oncology Service of the *Hospital Clínico Universitario of Valencia* and Director of the Cancer Area at the INCLIVA Biomedical Research Institute.

His training as a resident medical intern took place at the *Hospital Clínico Universitario of Valencia.* After completing this residency, he obtained a predoctoral fellowship at the Free University Hospital in Amsterdam, where he obtained his Doctorate in the laboratory of cellular pharmacology, with work on multidrug resistance.

His areas of interest and research are gastrointestinal and gynecological cancer, as well as phase I trials and new drugs development.

As a clinical researcher in rectal cancer, he has published several papers on the quality of multidisciplinary work as well as on evaluating the quality of mesorectal surgery, how to optimize initial therapy choices and especially, how to treat cancer of the upper third of the rectum.

He is the President of the European Society of Medical Oncology (ESMO) since July 2019.

2.2.1.5 External Scientific Committee

President, Mr. Javier Díez. Professor of Medicine, University of Navarra. Director of the Cardiovascular Sciences Area, Center for Applied Medical Research (CIMA). University of Navarra

Vocals

- Mr. Antonio Vidal-Puig. Professor of Molecular Nutrition and Metabolism, University of Cambridge. Honorary consultant in metabolic medicine. Metabolic research laboratories. Addenbrooke´s Hospital, Cambridge, United Kingdom
- Mr. Josep Tabernero Caturla. Head of the Medical Oncology Service. Vall d'Hebrón Hospital.
- Mr. Juan Carlos Lacal Sanjuán. Research Professor at the CSIC. Institute of Biomedical Research, Madrid
- Mr. Manuel Tena Sempere. Professor of University. Department of Cell Biology, Physiology and Immunology. University of Cordoba
- Mr. M Roser Torra Balcells. Nephrologist, Fundació Puigvert. Research line in the study of Hereditary Kidney Diseases
- Mrs. Laura Saucek. Group leader at VHIO (Oncology Institute of the Vall d'Hebron Hospital). Head of Modeling of Anti-tumor Therapies in mice. Founder executive director (CEO) at Peptomycs SL
- Mrs. Pura Muñoz Cánoves. Professor of Medicine, Department of Experimental and Health Sciences at Pompeu Fabra University. ICREA Research Professor

INCLIVA origin and structure

2.2.1.6 Internal Scientific Committee

- Mr. Andrés Cervantes Ruipérez, INCLIVA Scientific Director
- Mrs. Ana Sanmartín Almenar, Primary Care Director of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico–Malvarrosa Health Department
- Mr. Jorge Navarro Pérez, Medical Director of the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico–Malvarrosa Health Department
- Mr. Julio Núñez, Associate Professor of the Department of Medicine of the University of Valencia, attached to the Scientific Direction
- Mr. Vicente Bodí, Full Professor of the Department of Medicine of the University of Valencia
- Mr. Josep Redón, INCLIVA Emeritus Researcher
- Mr. Federico Pallardó, Full Professor of the Department of Physiology of the University of Valencia
- Mrs. María Jesús Sanz Ferrando, Full Professor of the Department of Pharmacology at the University of Valencia
- Mrs. Ana Lluch Hernández, Emeritus Professor of the Department of Medicine of the University of Valencia
- Mrs. María del Mar Tormo García, Oncologist at the *Hospital Clínico Universitario of Valencia* and of the Valencia Clínico – Malvarrosa Health Department Hematology Service

RESEARCH COMMISSION

President: Mr. Luis Sabater Ortí, Section Head of the General Surgery

Vocals:

- Mrs. Marta Peiró Signes, Scientific Subdirector at INCLIVA
- Mr. Julio Núñez Villota, Cardiology Associate Physician
- Mr. Jaime Signes-Costa, Neumology Service Head
- Mrs. Rosa Zaragozá Colom, researcher at INCLIVA
- Mr. Vicente José Bodí Peris, Professor of the Department of Medicine of the University of Valencia
- Mrs. Mª José Terol Castera, Hematology and Hemotherapy Associated Physician
- Mrs. Gema Miñana Escrivá, Cardiology Associate Physician
- Mr. Felip Vilella Mitjana, researcher at INCLIVA
- Mrs. Isabel Gabaldón Sánchez, Valencia Clínico-Malvarrosa Health Department
- Mr. David Moro Valdezate, General Sugery Associate Physician
- Mrs. Laura Piqueras Ruiz, researcher at INCLIVA
- Mrs. Patricia Roselló, Pediatrics Associated Physician
- Mr. Sergio Martínez Hervás, Endocrinology and Nutrition Associated Physician
- Mrs. Herminia González Navarro, researcher at INCLIVA
- Mrs. Pilar Eroles Asensio, researcher at INCLIVA
- Mrs. Mª Cruz González Villaescusa, Neumology Associate Physician
- Mrs. Carmina Montoliu Félix, researcher at INCLIVA
- Mr. José Real Collado, Head of the Endocrinology and Nutrition Service
- Mr. Raúl Gómez Gallego, researcher at INCLIVA
- Mr. F. Javier Chaves Martínez, researcher at INCLIVA
- Mr. Daniel Monleón Salvadó, researcher at INCLIVA
- Mrs. Desamparados Roda Pérez, Oncology Associate Physician
- Mr. Carlos Tornero Tornero, Head of the Anesthesia/ Reanimation Service
- Mrs. Nuria Cabedo Escrig, researcher at INCLIVA
- Mrs. Pilar Rentero Garrido, coordinator of Precision Medicine Unit
- Mrs. Ana Belén Paes, researcher at INCLIVA
- Mr. José Luis Górriz Teruel, Head of the Nephrology Service
- Mr. Antonio Martínez Sabater, general supervisor at the *Hospital Clínico Universitario de Valencia*
- Mr. César Ríos Navarro, researcher at INCLIVA
- Mrs. Lorena Peiró Chova, researcher at Biobank

Commission Management Unit: Mrs. Sofía Galant

INNOVATION COMMISSION

President: Mr. Andrés Cervantes Ruipérez, INCLIVA Scientific Director

Commission Management: Mrs. Rita Pastor, Head of UAI

- Mr. Vicente de Juan Martín, Managing Director
- Mr. Jorge Navarro Pérez, Medical Director of the *Hospital Clínico Universitario de Valencia* and of the Valencia Clínico – Malvarrosa Health Department
- Mrs. Marta Peiró Signes, Scientific Subdirector at INCLIVA
- Mrs. Maite Sáenz González, Secretary General at INCLIVA
- Mr. Josep Redón, INCLIVA Emeritus Researcher
- Mr. Miguel Puche Torres, Clinical researcher with experience in the field of innovation
- Mr. Jose Luis García, Basic researcher with experience in the field of innovation
- Mr. Rubén Artero Allepuz, Basic researcher with experience in the field of innovation
- Mrs. Consuelo Borrás Blasco, Basic researcher with experience in the field of innovation
- Mr. Felip Vilella Mitjana, Basic researcher with experience in the field of innovation
- Mrs. Carolina Mir Sánchez, Clinical researcher with experience in the field of innovation
- Mrs. Maite Sánchez, Clinical researcher with experience in the field of innovation

2.2.1.7. Ethics Committee for Investigation with Medicinal Products

President: Mrs. Mª Luisa Calabuig Muñoz, Specialist of the Hematology Department

Vice-president: Mr. Esteban Morcillo Sánchez, Clinical pharmacologist

Technical Secretary: Mr. Manuel Alós Almiñana, Head of the Pharmacy Department

Vocals:

- Mr. Diego V. Cano Blanquer, Hospital Pharmacist
- Mr. José Luis Trillo Mata, Primary Care Pharmacist
- Mr. David Juan López Ortega, Law Degree
- Mrs. Carmen Celda Ortega, Nurse
- Mr. Luis González Luján, Primary Attention doctor
- Mr. Joaquín Ortega Serrano, Head of the General Surgery Service
- Mrs. Patricia Roselló Millet, Specialist of the Pediatrics Department
- Mrs. Mª Jesús Puchades Montesa, Specialist of the Nephrology Department
- Mr. José Alejandro Pérez Fidalgo, Specialist of the Oncology Department
- Mrs. Tania Fleitas Kanonnikoff, Specialist of the Oncology Department
- Mr. Antonio Peláez Hernández, Allergy Specialist
- Mr. Francisco Dasí Fernández, Stabilized Miguel Servet Researcher
- Mr. Ángel Martínez Brotons, Assistant Physician of Cardiostimulation of Cardiology Department
- Mrs. Carolina Mir Sánchez, Primary Care Team Family Physician
- Mr. Manuel Corell Raga, Health Council of the CS of the Argentine Republic, Salvador Pau I Xile
- Mr. Rafael Barajas Cenobio, Responsible for Quality and Data Protection INCLIVA

Administrative Secretary: Mrs. Sofía Galant,
Mr. Carlos Ballesteros

Administrative: Mrs. Maialen Llopis

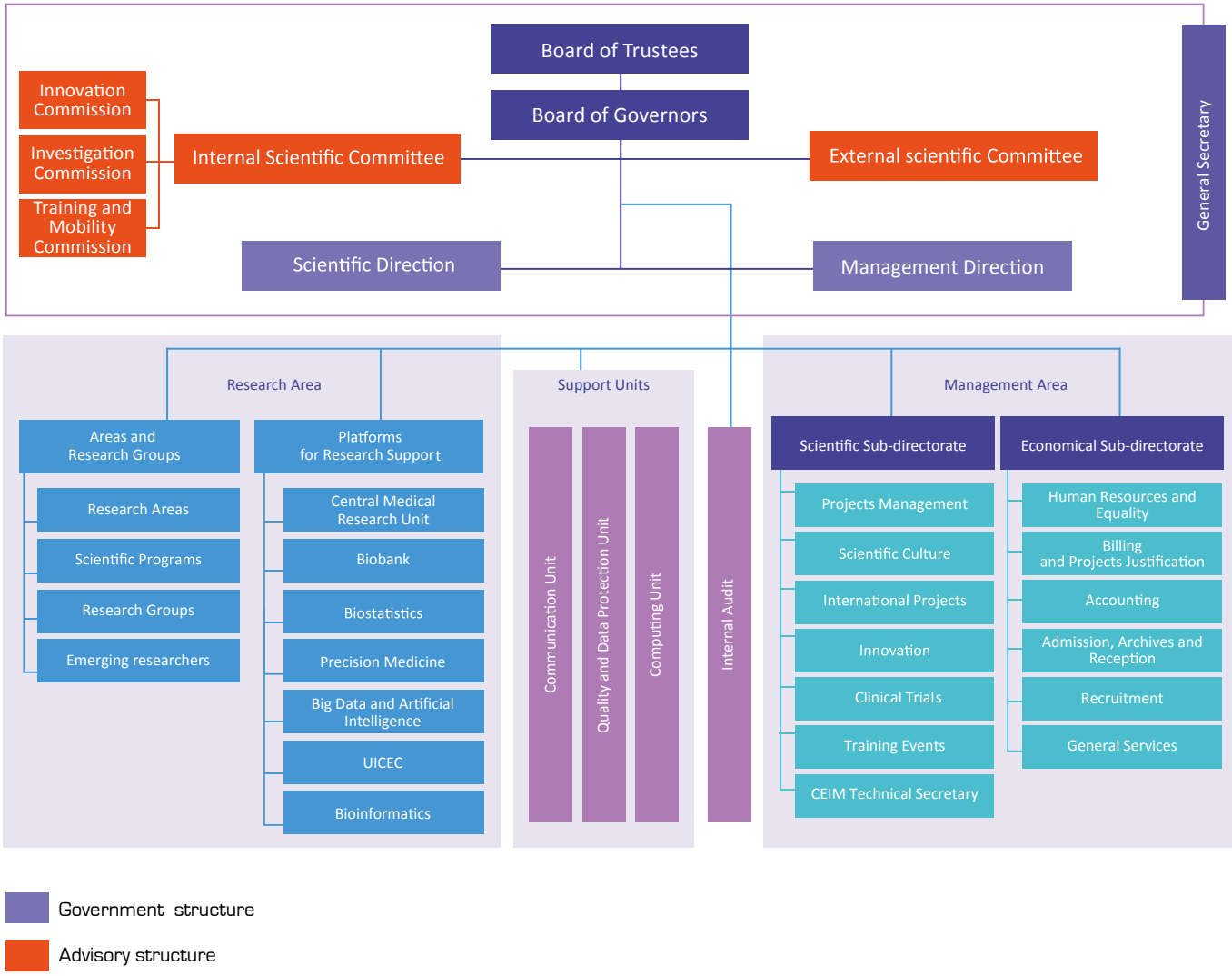
2 INCLIVA origin and structure

2.2.2. Management structure

The organizational chart, approved at the Board of Trustees, is comprised of two sub-directorates, economical and scientific.

The first sub-directorate is in charge of the administrative area, which deals with the financial and administrative matters as well as with human resource management.

The second sub-directorate is in the charge of scientific activity management and innovation. It is responsible for integral scientific management that includes controlling and monitoring clinical trials and research projects, organizing courses, conferences and seminars, and several tasks related to general administration. Furthermore, it acts as an administrative support to the different affiliated scientific committees and to the Medical Research Central Unit. It comprises the innovation area in charge of quality and planning, innovation management, international programs and scientific and innovative culture promotion (UCCI).



INCLIVA origin and structure

ADMINISTRATIVE AREA:

- Managing Director: Vicente de Juan
- Budget Control and Economic Management: Consuelo López
- Human Resources and Equality Unit: Ruth Cano, Anabel Gil, Lucía Toledo
- Invoicing and Project Justify: Vera Marín, Lorena Munuera
- Accounting: Mª José Rosalén, Mª Pilar Boix
- Records Unit: Alicia Belenguer
- Purchasing Unit: Isabel Gomis, Karen Iglesias
- General Services Unit: Cristina García
- Receptionists: Inmaculada Montalt, Alicia Gumiel

SCIENTIFIC MANAGEMENT AREA:

- Scientific Subdirector and Project Management: Marta Peiró
- Scientific Culture Unit: Mercedes Navarro, Natividad Paz
- International Projects Unit: Ana Ferrer, Ana Duarte, Eugenia Flores
- Innovation Management Unit: Marta de Olmo, Carlos Guerrero, Rita Pastor
- Clinical Trials Management Unit: Alexandra Pons, Mª Carmen Román
- Clinical Trials Platform: Ana Portolés, Mercedes Peris, Mireya Ferrandis, Carlos Peris, Patricia Caunedo
- Training and Events Unit: Cristina García, Mercedes Navarro, Natividad Paz, Clara Soriano
- CEIm Administrative Management: Sofía Galant, Maialen Llopis, Carlos Ballesteros
- Data Quality and Protection: Rafael Barajas, María Domínguez
- Scientific Production Unit: Patricia Mañas
- Communication: Alexandra Muñoz, Arantxa Martín

COMPUTING UNIT:

- Head of Information Systems and High Performance Computing: Miguel Herreros
- Software engineer and IT system administrator: Enrique Herreras
- Computer technicians: Joan Josep Bruno Ramírez, Ángel Antonio Hernández, Antonio Macías, Francisco Sánchez, Germán Sánchez

SECRETARY GENERAL

- Head: Maite Saenz
- Technician: Lorena Munuera, Irene Collado

2.3. Core facilities

RESEARCH SUPPORT PLATFORMS

- Animal Housing and Experimental Operating Theaters Unit
- Biomedical imaging and metabolomics Section
- Flow Cytometry and Cell Culture Section
- Multigenic Analysis Unit
- Microscopy Unit
- Personal Autonomy, Dependence and Severe Mental Disorders Assessment Unit

INCLIVA PLATFORMS

- Biobank
- Bioinformatics Unit
- Biostatistics Unit
- Big Data and Artificial Intelligence
- Body Composition Unit
- Cytogenetics Laboratory
- Precision Medicine Unit



global analysis

INCLIVA SCIENTIFIC REPORT 2022

3. Global analysis
3.1 Scientific production global analysis
3.2 Financial resources
3.3 Cooperative research networks
3.4 Knowledge transfer activities
3.4.1 Knowledge transfer to the National Health System
3.4.2. Innovation and Knowledge transfer
3.4.2.1 Intellectual Assets
3.4.2.2 Competitive innovation
3.4.2.3 Entrepreneurship
3.5 Gender perspective

3.1 Scientific production global analysis

As in previous year, INCLIVA continued in 2022 with the upward trend in the quality of scientific production. The number of publications this year is 786, with a cumulative impact factor of 8.511,685 which translates into an average impact factor 10.829.

The following figures depict the number and quality of the published manuscripts expressed in terms of total and average impact factor.

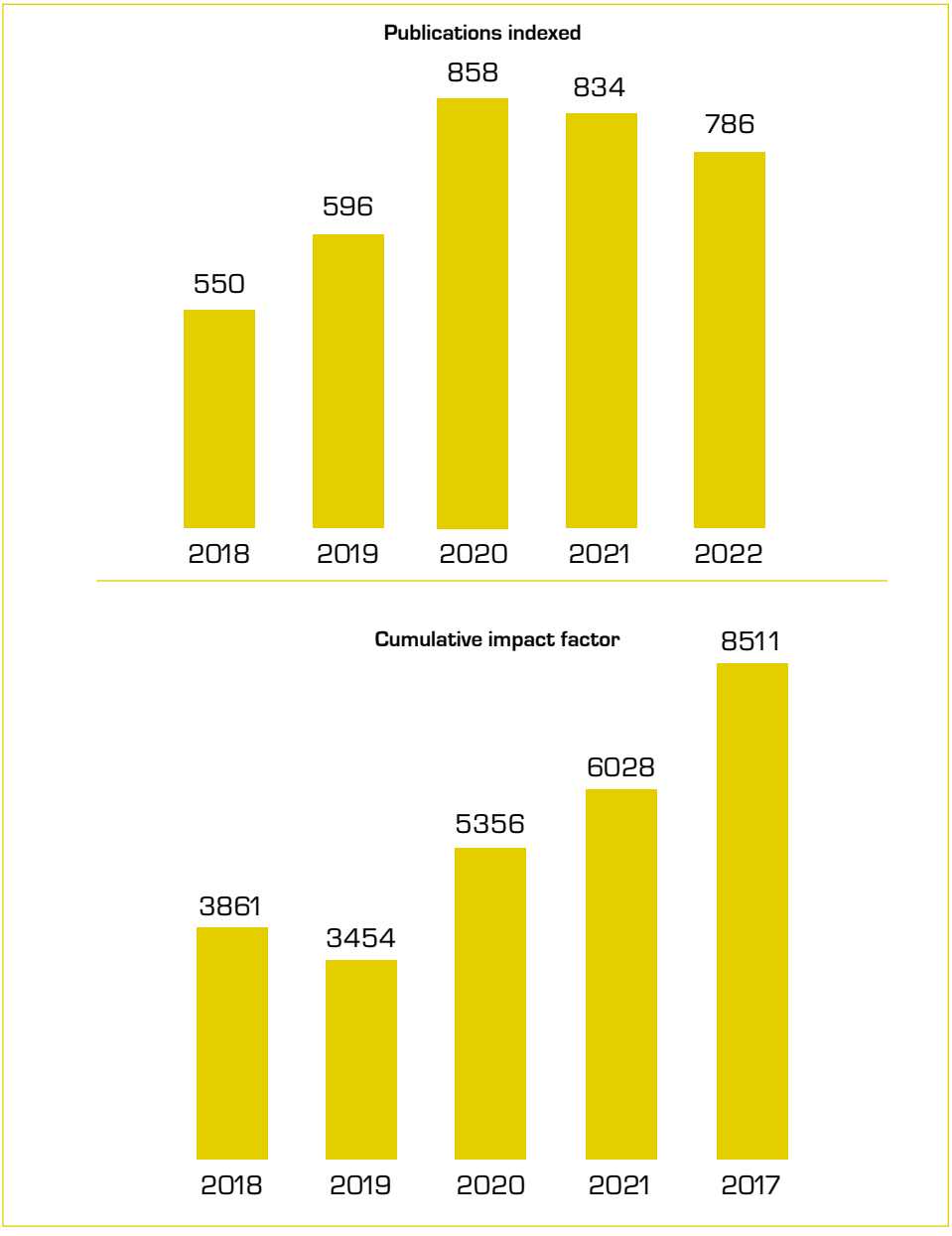
786
Publications

8.511,685
Cumulative Impact Factor

10,829
Average Impact Factor

233
Publications with IF >7

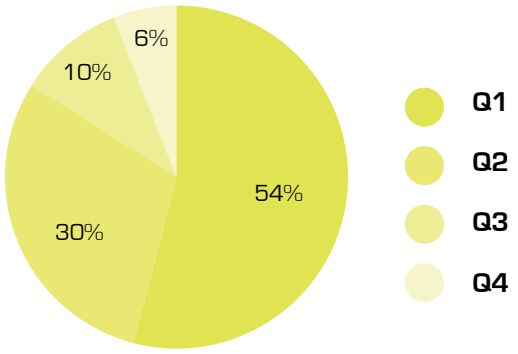
156
First decline publications



3 global analysis

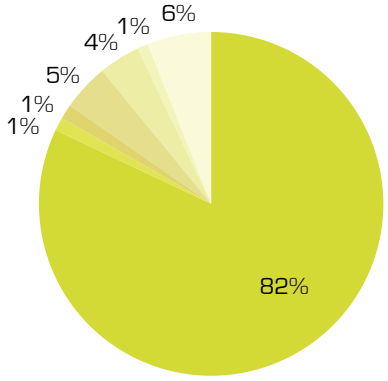
The distribution by quartiles within their thematic categories is shown below. In 2022, about 80% of the papers that were published in indexed journals belong to the first and second quartiles of their corresponding thematic categories:

Quartile distribution



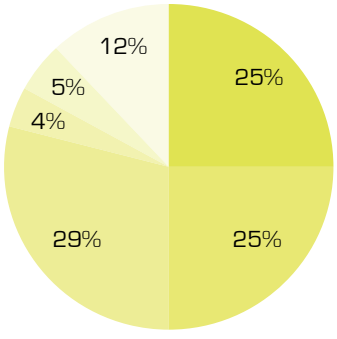
The number and percentage of scientific publications according to category are:

Category	Value
Articles	654
Case reports	10
Corrections	11
Editorials	35
Letters	31
Practice Guidline	8
Reviews	48

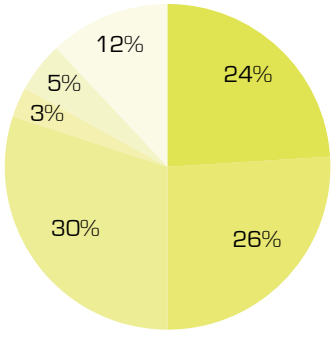


The percentage of originals in first decile and first quartile publications in 2022 are:

Original articles Q1



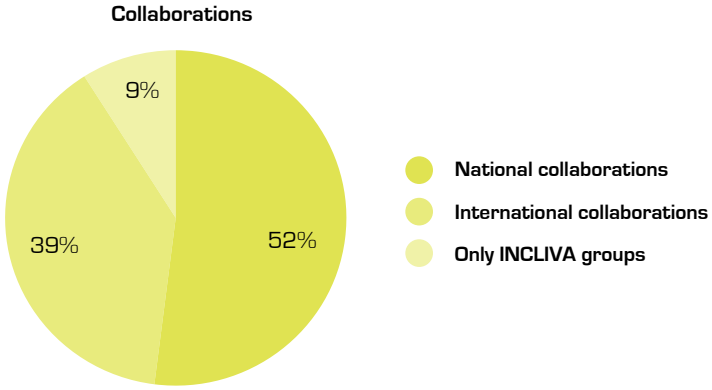
Original articles D1



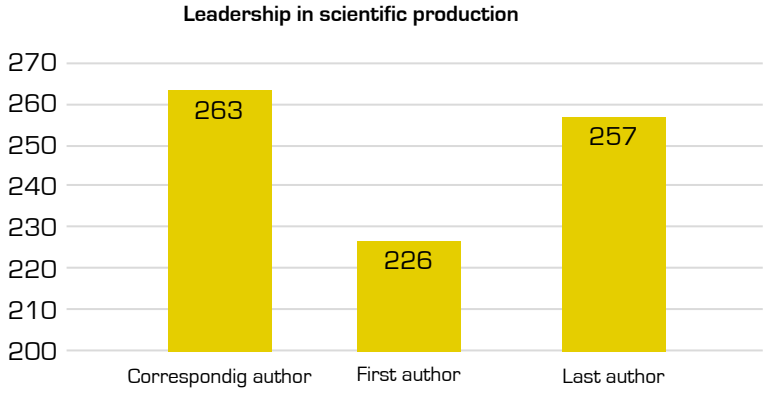
Cardiovascular Oncology Metabolism Reproductive Associated Clinical Groups Hospital divisions

global analysis

One of the main success factors for a biomedical research institution has to do with its potential to establish high level scientific collaborations. The percentage of national and international collaborations which led to scientific output in 2022 is listed below.



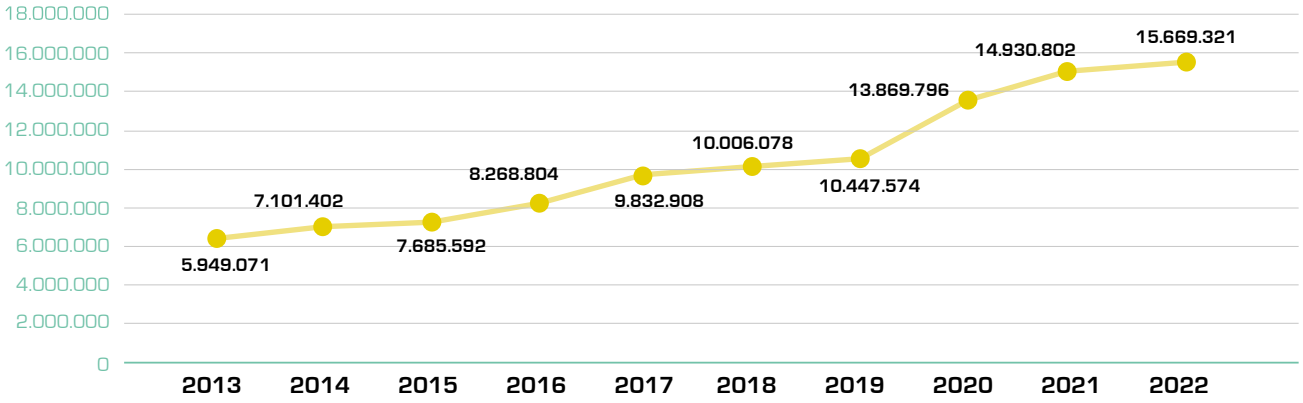
Another key performance indicator is the leadership role in scientific publications. The chart below shows the number of published articles in which INCLIVA researchers sign as corresponding author, first and last author.



3 global analysis

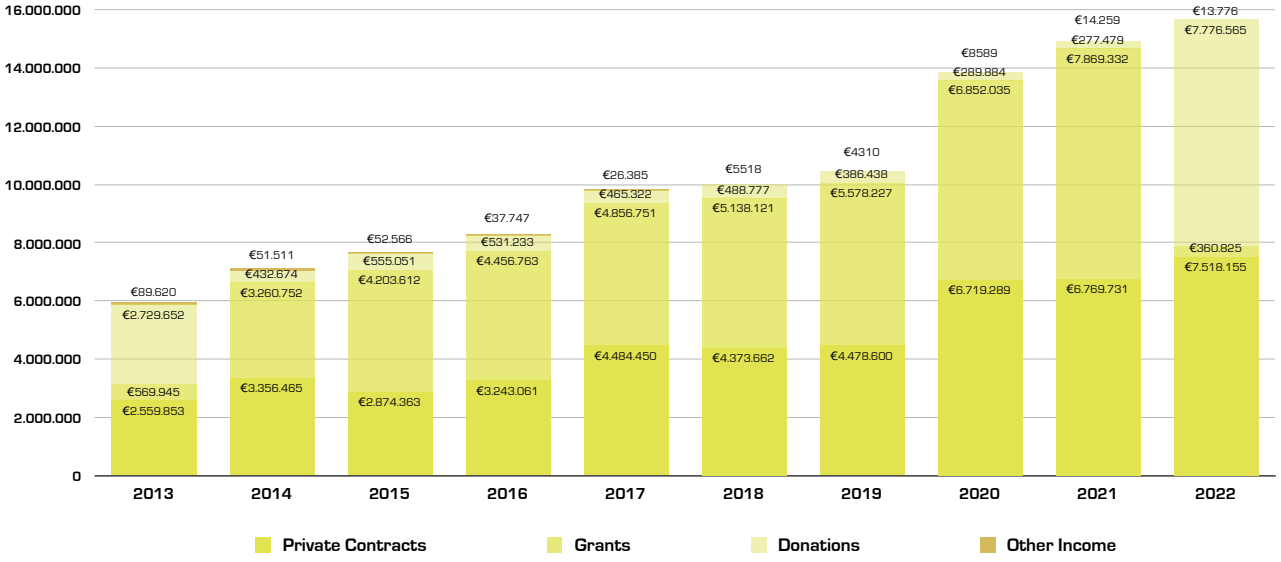
3.2. Financial resources

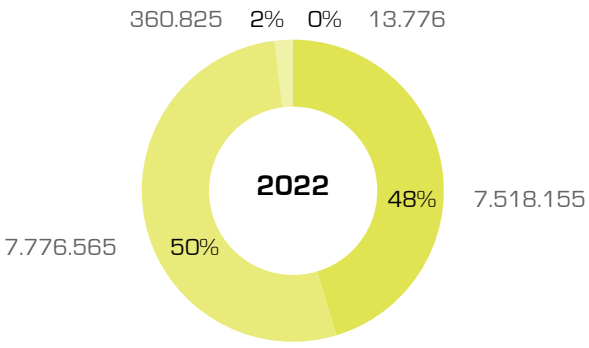
INCLIVA's funding during 2022 totaled €15.669.321. The funds raised from competitive sources were still higher than the average of recent years.



Funding source in the indicated period is shown below.

The remaining income corresponds to private sources of funding, clinical trial revenues and grants among others. The graph below shows this distribution of the year 2022.





global analysis

The analysis of the income obtained by the Foundation in its last fiscal year (2022) is shown in the table.

INCOME	AMOUNT	OVERHEADS	TOTAL
TURNOVER	6.174.197,83	1.343.956,79	7.518.154,62
DONATIONS	346.781,22	14.044,07	360.825,29
GRANTS	5.882.663,77	663.785,70	6.546.449,47
CAPITAL GRANTS	1.230.115,68		1.230.115,68
FINANCIAL	0,00		0,00
EXTRAORDINARY	13.776,42		13.776,42
TOTAL INCOME	**13.647.534,92**	**2.021.786,56**	**15.669.321,48**

Also used as a source of information the Annual Accounts of 2022 approved by the Board of Trustees of the Foundation and audited by the General Intervention of the Generalitat Valenciana (through the audit firm DULA Auditores) the information of the expenses executed is provided, with the explanation of the use of the corresponding indirect costs.

EXPENSES	TOTAL
CASH FUNDING	148.495,41
SUPPLIES	1.343.354,75
OTHER FUNCIONAL EXPENSES (ACTIVITY)	2.493.007,70
STAFF COSTS	7.807.898,46
OTHER FUNCIONAL EXPENSES (STRUCTURAL)	441.151,94
EXTRAORDINARY EXPENSES	182.319,30
INVENTORY ITEM DONATION EXPENSES	49.489,58
AMORTIZATION OF FIXED ASSETS	1.488.855,74
TOTAL EXPENSES	**13.954.572,88**

3 global analysis

Finally, this is the balance sheet of the foundation in official format, extracted from the Annual Accounts of 2022:

ASSETS				FISCAL YEAR 2022	FISCAL YEAR 2021
A)			NON-CURRENT ASSETS	**16.887.219,94**	**16.571.327,92**
	I.		Intangible assets	2.358.857,93	2.453.753,52
		2.	Concessions	2.353.336,42	2.443.818,38
		3.	Patents, licences, trademarks and similar rights	5.521,51	6.057,50
		5.	Computer Software	0,00	3.877,64
	III.		Investment property	5.989.060,62	6.946.953,82
		2.	Technical facilities and other tangible fixed assets	5.972.680,62	6.946.953,82
		3.	Fixed assets in progress and advances	16.380,00	
	VI.		Deferred tax assets	8.539.301,39	7.170.620,58
		1.	Other government loans	1.592.291,02	3.298.442,07
		2.	Other government loans group and associated companies	362.455,10	944.443,16
		3.	Other loans from private entities	418.377,38	547.826,75
		4.	Other loans from private entities group and associated companies	100.000,00	238.706,62
		5.	Other European Union loans	6.066.177,89	2.141.201,98
B)			**CURRENT ASSETS**	**37.436.524,47**	**26.406.646,77**
	III.		Trade and other receivables	4.817.935,36	5.341.276,58
		1.	Trade and other receivables	4.659.582,58	5.197.271,07
		2.	Trade and other receivables group and associated companies	158.352,78	144.005,51
	IV.		Current Investments in group companies and associates	14.785.902,39	7.121.236,16
		1.	Other government loans	10.004.515,78	4.352.505,41
		2.	Other government loans group and associated companies	4.781.386,61	2.768.730,75
	VI.		Prepayments for current assets	16.416,00	2.416,00
		5.	Other financial assets	16.416,00	2.416,00
	VII.		Short-term periodicities	63.207,45	
	VIII.		Cash and cash equivalents	17.753.063,27	13.941.718,03
		1.	Cash	17.753.063,27	13.941.718,03
TOTAL ASSETS (A + B)				**54.323.744,41**	**42.977.974,69**

EQUITY AND LIABILITIES				FISCAL YEAR 2022	FISCAL YEAR 2021
A)			EQUITY	**19.562.182,56**	**18.989.637,34**
	A-1)		Capital and reserves without valuation adjustments	13.828.334,80	12.113.586,20
	I.		Endowments	617.482,67	617.482,67
	II		Reserves	11.496.103,53	8.954.504,50
		2.	Other reserves		
	IV.		Profit/(loss) for the period	1.714.748,60	2.541.599,03
	A-3)		Grants, donations or gifts and legacies received	5.733.847,76	6.876.051,14
B)			**NON-CURRENT LIABILITIES**	**11.311.436,15**	**6.151.112,04**
	II.		Non-current payables	11.311.436,15	6.151.112,04
		5.	Other financial liabilities	10.848.981,05	5.006.668,88
		6.	Other short-term debts with group companies and associates	462.455,10	1.144.443,16
C)			**CURRENT LIABILITIES**	**23.450.125,70**	**17.837.225,31**
	II		Current provisions	493.084,63	403.165,16
		1.	Other provisions	98.030,75	98.030,75
		2.	Other provisions with group companies and associates	395.053,88	305.134,41
	III.		Current payables	16.652.347,16	11.170.599,37
		5.	Other financial liabilities	13.741.966,43	9.761.987,65
		6.	Other short-term debts with group companies and associates	2.910.380,73	1.408.611,72
	V.		Beneficiaries-Creditors	3.256.523,90	1.330.461,39
	VI.		Trade creditors and other accounts payable	3.048.170,01	4.865.913,38
		1.	Suppliers	109.704,82	169.342,41
		3.	Other payables	284.253,88	145.589,02
		4.	Personnel (salaries payable)	-11,29	-0,80
		5.	Current tax liabilities	74,32	0,00
		6.	Public entities, other	2.451.877,54	4.550.982,75
		7.	Advances from customers	202.270,74	67.086,01
TOTAL EQUITY AND LIABILITIES (A + B + C)				**54.323.744,41**	**42.977.974,69**

3.3 Cooperative research networks

The Carlos III Health Institute (*Instituto de Salud Carlos III*) develops – through the General Subdirection of Networks and Centers for the Cooperative Research – the creation of stable research network structures such as CIBER (Network of Centres for Biomedical Research). INCLIVA participates in this research structure through its associated groups.

The following table shows the participation in scientific networks according to the prioritized research area, the center and its principal investigator.

CIBER

Research Area	INCLIVA PI	Scientific Network		Reference
Cardiovascular	Mr. José Tomás Real Collado	CIBERdem	ciberdem	CB07/08/0018
	Mrs. Empar Lurbe i Ferrer	CIBERobn	ciberobn	CB06/03/0039
	Mr. Francisco Javier Chorro Gascó	CIBERcv	cibercv	CB16/11/00486
	Mr. Juan Sanchis Forés	CIBERcv		CB16/11/00420
Metabolism and Organ Damage	Mr. Esteban Morcillo Sánchez	CIBERes	ciberes	CB06/06/0027
	Mr. Federico V. Pallardó Calatayud	CIBERer	ciberer	CB06/07/0073
	Mr. Juan Nacher Roselló	CIBERsam	cibersam	CB07/09/006
	Mr. Rafael Tabarés Seisdedos	CIBERsam		CB07/09/0021
	Mr. José Viña Ribes	CIBERfes	ciberfes	CB16/10/00435
Oncology	Mr. Andrés Cervantes Ruipérez	CIBERonc	ciberonc	CB16/12/00473
	Mrs. Rosa Noguera Salvá	CIBERonc		CB16/12/00484

3.4 Knowledge transfer activities

INCLIVA Biomedical Research Institute is fully committed to transfer the knowledge created both to the National Health System and to the industrial sector in order to fulfil its organizational mission.

3.4.1 Knowledge transfer to the National Health System

Clinical guidelines and consensus documents are one of the best indicators of knowledge transfer from research to clinical practice. The following table shows the guidelines published in indexed journals in which authors affiliated with INCLIVA have participated.

Clinical guidelines	IF
8	198,789

1. Bergeron A, Mikulska M, De Greef J, Bondeelle L, Franquet T, Herrmann J, Lange C, Spriet I, Akova M, Donnelly J, Maertens J, Maschmeyer G, Rovira M, Goletti D, de la Camara R. Mycobacterial infections in adults with haematological malignancies and haematopoietic stem cell transplants: guidelines from the 8th European Conference on Infections in Leukaemia. Lancet Infectious Diseases. 2022 Dec;22(12):e359-e369. doi: 10.1016/S1473-3099(22)00227-4. PMID: 35636446. IF: 71,421

2. Lordick F, Carneiro F, Cascinu S, Fleitas T, Haustermans K, Piessen G, Vogel A, Smyth E. Gastric cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up. Annals of Oncology. 2022 Oct;33(10):1005-1020. doi: 10.1016/j.annonc.2022.07.004. PMID: 35914639. IF: 51,769

3. Obermannova R, Alsina M, Cervantes A, Leong T, Lordick F, Nilsson M, van Grieken N, Vogel A, Smyth E. Oesophageal cancer: ESMO Clinical Practice Guideline for diagnosis, treatment and follow-up. Annals of Oncology. 2022 Oct;33(10):992-1004. doi: 10.1016/j.annonc.2022.07.003. PMID: 35914638. IF: 51,769

4. SEC Working Group for the 2021 ESC guidelines for the diagnosis and treatment of acute and chronic heart failure and SEC Guidelines Committee. Comments on the 2021 ESC guidelines for the diagnosis and treatment of acute and chronic heart failure. Revista Espanola de Cardiologia (English Ed.). 2022 Jun;75(6):458-465. doi: 10.1016/j.rec.2021.11.023. PMID: 35190290. IF: 6,975

5. Arrarte V, Campuzano R, Duque J, Aldama G, Barrios V, Bonanad C, Conde A, Olmo R, Gamez J, Guzman-Martinez G, Rey C, Vivas D, Avanzas P, Congost G, Boraita A, Bueno H, Calvo D, Delgado V, Dos L, Ferreira-Gonza-lez I, Doblas J, Figal D, Sambola A, Tejedor A, Ferreiro J, Alfonso F. Comments on the 2021 ESC guidelines on cardiovascular disease prevention in clinical practice. Revista Española de Cardiologia. 2022 May;75(5):364-369. doi: 10.1016/j.rec.2021.10.023. PMID: 35165071. IF: 6,975

6. Barretina Ginesta MP, Quindos M, Alarcon JD, Esteban C, Gaba L, Gomez C, Perez Fidalgo JA, Romero I, Santaballa A, Rubio Perez MJ. SEOM-GEICO clinical guidelines on endometrial cancer (2021). Clinical & Translational Oncology. 2022 Apr;24(4):625-634. doi: 10.1007/s12094-022-02799-7. PMID: 35312947. IF: 3,34

7. Capdevila J, Gomez MA, Guillot M, Paez D, Pericay C, Safont MJ, Tarazona N, Vera R, Vidal J, Sastre J. SEOM-GEMCAD-TTD clinical guidelines for localized rectal cancer (2021). Clinical & Translational Oncology. 2022 Apr;24(4):646-657. doi: 10.1007/s12094-022-02816-9. PMID: 35303269. IF: 3,34

8. Mingot Castellano M, Pascual Izquierdo C, Gonzalez A, Viejo Llorente A, Valcarcel Ferreiras D, Sebastian E, Garcia Candel F, Sarmiento Palao H, Gomez Segui I, de la Rubia J, Cid J, Martinez Nieto J, Hernandez Mateo L, Goterris Viciedo R, Fidalgo T, Salinas R, Del Rio-Garma J, Grupo Espanol de Aferesis (GEA). Recommendations for the diagnosis and treatment of patients with thrombotic

thrombocytopenic purpura. Medicina Clinica. 2022 Jun 24;158(12):630.e1-630.e14. doi: 10.1016/j.medcli.2021.03.040. PMID: 34266669. IF: 3,2

Consensus documents	IF
9	115,762

1. Vaz-Luis I, Masiero M, Cavaletti G, Cervantes A, Chlebowski R, Curigliano G, Felip E, Ferreira A, Ganz P, Hegarty J, Jeon J, Johansen C, Joly F, Jordan K, Koczwara B, Lagergren P, Lambertini M, Lenihan D, Linardou H, Loprinzi C, Partridge A, Rauh S, Steindorf K, van der Graaf W, van de Poll-Franse L, Pentheroudakis G, Peters S, Pravettoni G. ESMO Expert Consensus Statements on Cancer Survivorship: promoting high-quality survivorship care and research in Europe. Annals of Oncology. 2022 Nov;33(11):1119-1133. doi: 10.1016/j.annonc.2022.07.1941. PMID: 35963481. IF. 51,769

2. de Simone G, Mancusi C, Hanssen H, Genovesi S, Lurbe E, Parati G, Sendzikaite S, Valerio G, Di Bonito P, Di Salvo G, Ferrini M, Leeson P, Moons P, Weismann C, Williams B. Hypertension in children and adolescents a consensus document from ESC Council on Hypertension, European Association of Preventive Cardiology, European Association of Cardiovascular Imaging, Association of Cardiovascular Nursing & Allied Professions, ESC Council for Cardiology Practice and Association for European Paediatric and Congenital Cardiology. European Heart Journal. 2022 Sep 14;43(35):3290-3301. doi: 10.1093/eurheartj/ehac328. PMID: 35896123. IF: 35,855

3. Mediano O, Gonzalez Mangado N, Montserrat J, Alonso-Alvarez M, Almendros I, Alonso-Fernandez A, Barbe F, Borsini E, Caballero-Eraso C, Cano-Pumarega I, de Carlos Villafranca F, Carmona-Bernal C, Carrillo Alduenda J, Chiner E, Cordero Guevara J, de Manuel L, Duran-Cantolla J, Farre R, Franceschini C, Gaig C, Garcia Ramos P, Garcia-Rio F, Garmendia O, Gomez Garcia T, Gonzalez Pondal S, Hoyo Rodrigo M, Lecube A, Antonio Madrid J, Maniegas Lozano L, Martinez Carrasco J, Masa J, Masdeu Margalef M, Mayos Perez M, Mirabet Lis E, Monasterio C, Navarro Soriano N, Olea de la Fuente E, Plaza G, Puertas Cuesta F, Rabec C, Resano P, Rigau D, Roncero A, Ruiz C, Salord N, Saltijeral A, Sampol Rubio G, Sanchez Quiroga M, Sans Capdevila O, Teixeira C, Tinahones Madueno F, Maria Togeiro S, Troncoso Acevedo M, Vargas Ramirez L, Winck J, Zabala Urionaguena N, Egea C. International consensus document on obstructive sleep apnea. Archivos de Bronconeumologia. 2022 Jan;58(1):T52-T68. doi: 10.1016/j.arbres.2021.03.027. PMID: 35245183. IF: 6,333

4. Mediano O, Gonzalez Mangado N, Montserrat J, Alonso-Alvarez M, Almendros I, Alonso-Fernandez A, Barbe F, Borsini E, Caballero-Eraso C, Cano-Pumarega I, de Carlos Villafranca F, Carmona-Bernal C, Carrillo Alduenda J, Chiner E, Cordero Guevara J, de Manuel L, Duran-Cantolla J, Farre R, Franceschini C, Gaig C, Garcia Ramos P, Garcia-Rio F, Garmendia O, Gomez Garcia T, Gonzalez Pondal S, Hoyo Rodrigo M, Lecube A, Madrid J, Maniegas Lozano L, Martinez Carrasco J, Masa J, Masdeu Margalef M, Mayos Perez M, Mirabet Lis E, Monasterio C, Navarro Soriano N, Olea de la Fuente E, Plaza G, Puertas Cuesta F, Rabec C, Resano P, Rigau D, Roncero A, Ruiz C, Salord N, Saltijeral A, Sampol Rubio G, Sanchez Quiroga M, Sans Capdevila O, Teixeira C, Tinahones Madueno F, Maria Togeiro S, Troncos Acevedo M, Vargas Ramirez L, Winck J, Zabala Urionaguena N, Egea C, el Spanish Sleep Network. International Consensus Document on obstructive sleep apnea. Archivos de Bronconeumologia. 2022 Jan;58(1):52-68. doi: 10.1016/j.arbres.2021.03.017. PMID: 33875282. IF: 6,333

5. Gorgojo-Martinez JJ, Mezquita-Raya P, Carretero-Gomez J, Castro A, Cebrian-Cuenca A, De Torres-Sanchez A, Garcia-de-Lucas MD, Nunez J, Obaya JC, Soler MJ, Gorriz JL, Rubio-Herrera MA. Clinical recommendations to manage gastrointestinal adverse events in patients treated with Glp-1 receptor agonists: a multidisciplinary expert consensus. Journal of Clinical Medicine. 2022 Dec 24;12(1):145. doi: 10.3390/jcm12010145. PMID: 36614945. IF: 4,964

6. Barrios V, Beato P, Brotons C, Campuzano R, Merino-Torres J, Mostaza J, Plana N, Rubio J, Comellas M. Comprehensive management of risk factors in peripheral vascular disease. Expert consensus. Revista Clinica Espanola. 2022 Feb;222(2):82-90. doi: 10.1016/j.rceng.2020.11.011. PMID: 34217671. IF: 3,064

7. Pinana J, Vazquez L, Martino R, de la Camara R, Sureda A, Rodriguez-Veiga R, Garrido A, Sierra J, Ribera J, Torrent A, Mateos M, de la Rubia J, Tormo M, Diez-Campelo M, Garcia-Gutierrez V, Alvarez-Larran A, Sancho J, MartinGarcia-Sancho A, Yanez L, Simon J, Barba P, Abrisqueta P, Alvarez-Twose I, Bonanad S, Lecumberri R, Ruiz-Camps I, Navarro D, Hernandez-Rivas J, Cedillo A, Garcia-Sanz R, Bosch F. Spanish Society of Hematology and Hemotherapy expert consensus opinion for SARS-CoV-2 vaccination in onco-hematological patients. Leukemia & Lymphoma. 2022 Mar;63(3):538-550. doi: 10.1080/10428194.2021.1992619. PMID: 34668835. IF: 2,996

8. Cilleruelo Ramos Á, Figueroa Almánzar S, López Castro R, Martínez Hernández NJ, Mezquita Pérez L, Moreno Casado P, Zabaleta Jiménez J. Spanish Society of Thoracic Surgery (SECT) consensus document. Long-term follow-up for operated patients with lung cancer. Cirugia Espanola. 2022 Jun;100(6):320-328. doi: 10.1016/j.cireng.2022.05.024. PMID: 35643357. IF: 2,242

9. Ejarque Domenech I, Marin Reina P, Garcia-Minaur Rica S, Chirivella Gonzalez I, Martinez Martinez M, Garcia Rodriguez A, Alvarez de Andres S, Telleria Orriols J. Referral criteria to clinical genetics from primary care: consensus document. Atencion Primaria. 2022 Nov 11;54(12):102501. doi: 10.1016/j.aprim.2022.102501. PMID: 36375295. IF: 2,206

Intitutional Documents	IF
9	117,91

1. Pascual J, Attard G, Bidard FC, Curigliano G, De Mattos-Arruda L, Diehn M, Italiano A, Lindberg J, Merker JD, Montagut C, Normanno N, Pantel K, Pentheroudakis G, Popat S, Reis-Filho JS, Tie J, Seoane J, Tarazona N, Yoshino T, Turner NC. ESMO recommendations on the use of circulating tumour DNA assays for patients with cancer: a report from the ESMO Precision Medicine Working Group. Annals of Oncology. 2022 Aug;33(8):750-768. doi: 10.1016/j.annonc.2022.05.520. PMID: 35809752. IF: 51,769

2. Bayes-Genis A, Aimo A, Jhund P, Richards M, de Boer RA, Arfsten H, Fabiani I, Lupon J, Anker SD, Gonzalez A, Castiglione V, Metra M, Mueller C, Nunez J, Rossignol P, Barison A, Butler J, Teerlink J, Filippatos G, Ponikowski P, Vergaro G, Zannad F, Seferovic P, Rosano G, Coats AJS, Emdin M, Januzzi, JL. Biomarkers in heart failure clinical trials. A review from the Biomarkers Working Group of the Heart Failure Association of the European Society of Cardiology. European Journal of Heart Failure. 2022 Oct;24(10):1767-1777. doi: 10.1002/ejhf.2675. PMID: 36073112. IF: 17,349

3. Nunez J, de la Espriella R, Rossignol P, Voors AA, Mullens W, Metra M, Chioncel O, Januzzi JL, Mueller C, Richards AM, de Boer RA, Thum T, Arfsten H, Gonzalez A, Abdelhamid M, Adamopoulos S, Anker SD, Gal TB, Biegus J, Cohen-Solal A, Boehm M, Emdin M, Jankowska EA, Gustafsson F, Hill L, Jaarsma T, Jhund PS, Lopatin Y, Lund LH, Milicic D, Moura B, Piepoli MF, Ponikowski P, Rakisheva A, Ristic A, Savarese G, Tocchetti CG, Van Linthout S, Volterrani M, Seferovic P, Rosano G, Coats AJS, Bayes-Genis A. Congestion in heart failure: a circulating biomarker-based perspective. A review from the Biomarkers Working Group of the Heart Failure Association, European Society of Cardiology. European Journal of Heart Failure. 2022 Oct;24(10):1751-1766. doi: 10.1002/ejhf.2664. PMID: 36039656. IF: 17,349

4. Aimo A, Vergaro G, Gonzalez A, Barison A, Lupon J, Delgado V, Richards AM, de Boer RA, Thum T, Arfsten H, Hulsmann M, Falcao-Pires I, Diez J, Foo RSY, Chan MYY, Anene-Nzelu CG, Abdelhamid M, Adamopoulos S, Anker SD, Belenkov Y, Gal TB, Cohen-Solal A, Bohm M, Chioncel O, Jankowska EA, Gustafsson F, Hill L, Jaarsma T, Januzzi JL, Jhund P, Lopatin Y, Lund LH, Metra M, Milicic D, Moura B, Mueller C, Mullens W, Nunez J, Piepoli MF, Rakisheva A, Ristic AD, Rossignol P, Savarese G, Tocchetti CG, van Linthout S, Volterrani M, Seferovic P, Rosano G, Coats AJS, Emdin M, Bayes-Genis A. Cardiac remodelling-Part 2: clinical, imaging and laboratory findings. A review from the Study Group on Biomarkers of the Heart Failure Association of the European Society of Cardiology. European Journal of Heart Failure. 2022 Jun;24(6):944-958. doi: 10.1002/ejhf.2522. PMID: 35488811. IF: 17,349

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7. Luis Recuero Diaz J, Almanzar S, Munoz C, Sierra J, Porras M, Medina D, Vicuna M, Moreno L, Cantalejo M, Porcel J. Recommendations of the Spanish Society of Thoracic Surgery for the management of malignant pleural effusion. Cirugia Espanola. 2022 Nov;100(11):673-683. doi: 10.1016/j.cireng.2022.06.009. PMID: 35667609. IF: 2,242

8. Orozco-Beltran D, Brotons Cuixart C, Banegas Banegas J, Gil Guillen V, Cebrian Cuenca A, Martin Rioboo E, Jorda Baldo A, Vicuna J, Navarro Perez J. Cardiovascular preventive recommendations. PAPPS 2022 thematic updates. Working groups of the PAPPS. Atencion Primaria. 2022 Oct;54 Suppl 1(Suppl 1):102444. doi: 10.1016/j.aprim.2022.102444. PMID: 36435583. IF: 2,206

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Position statements	IF
2	9,677

1. MHT Eligibility Criteria Group. Mendoza N, Ramirez I, de la Viuda E, et al. Eligibility criteria for Menopausal Hormone Therapy (MHT): a position statement from a consortium of scientific societies for the use of MHT in women with medical conditions. Maturitas. 2022 Aug 30;166:65-85. doi: 10.1016/j.maturitas.2022.08.008. PMID: 36081216. IF: 5,11
2. Leigh D, Cram D, Rechitsky S, Handyside A, Wells D, Munne S, Kahraman S, Grifo J, Katz-Jaffe M, Rubio C, Viotti M, Forman E, Xu K, Gordon T, Madjunkova S, Qiao J, Chen Z, Harton G, Gianaroli L, Simon C, Scott R, Simpson J, Kuliev A. PGDIS position statement on the transfer of mosaic embryos 2021. Reproductive Biomedicine Online. 2022 Jul;45(1):19-25. doi: 10.1016/j.rbmo.2022.03.013. PMID: 35523707. IF: 4,567

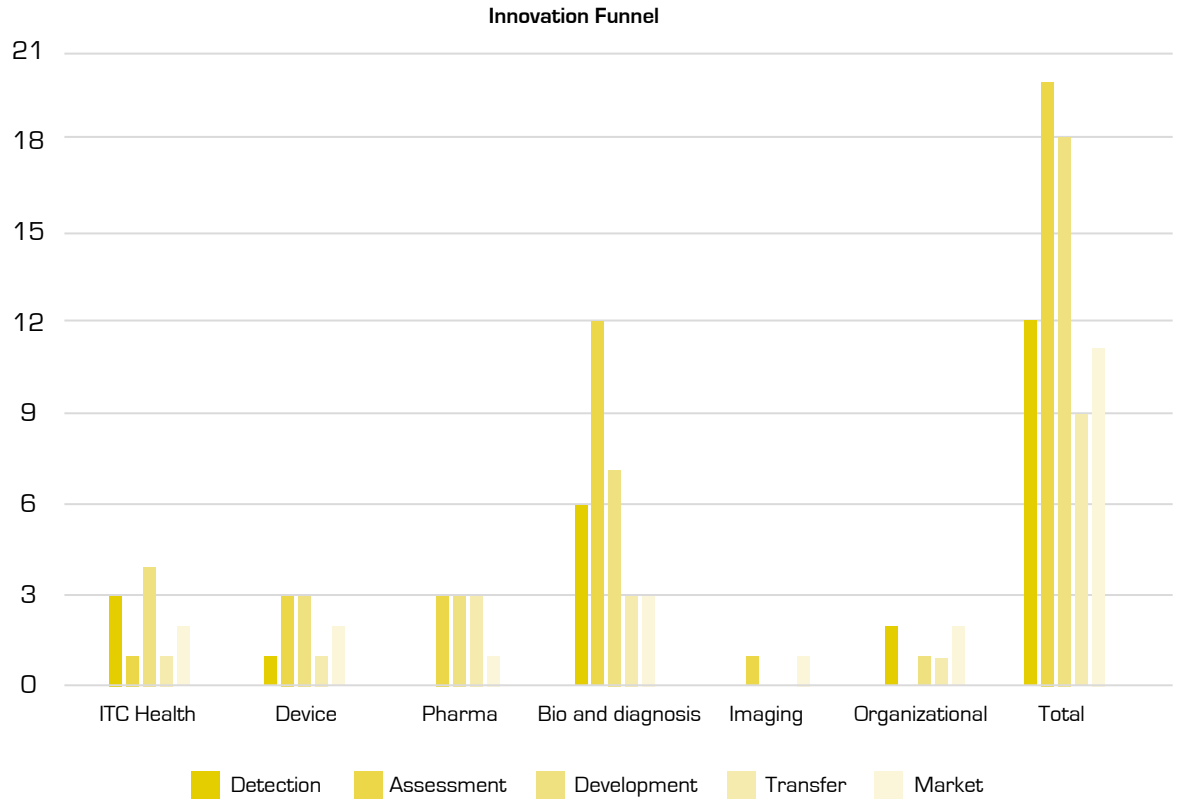
3.4.2. Innovation and Knowledge transfer

The Innovation Unit of INCLIVA supports INCLIVA professionals with the development of translational research, which is one of the main objectives of INCLIVA. In this way, a greater impact into society can be achieved. The unit promotes innovation and collaboration with research centres and industrial partners. The unit is responsible of the so-called innovation funnel, evaluating the viability of the innovative ideas at different stages to ensure that only the best ideas are launched to the market. Then, the main services are the following:

- Identification and analysis of ideas.
- Evaluation and management of intellectual property rights
- Commercialisation and technology transfer to the market
- Project management of innovation projects
- Training activities to promote innovation culture.

Consequently, INCLIVA innovation funnel in 2022 is shown in Table:

Innovation Funnel	ITC Health	Device	Pharma	Bio and diagnosis	Imaging	Organizational	Total
Detection	3	1	0	6	0	2	**12**
Assessment	1	3	3	12	1	0	**20**
Development	4	3	3	7	0	1	**18**
Transfer	1	1	3	3	0	1	**9**
Market	2	2	1	3	1	2	**11**



3.4.2.1 Intellectual Assets

The protection of knowledge is the first step to move scientific findings and ideas from researchers to the industry. Patents are the most common way to protect technologies that are new, inventive and have industrial application. Thus, research institutions can exploit the patents they hold by licensing them to companies.

The following family patents were active on 2022:

Invention	Priority number	IP/% INCLIVA	Status
2022. *Dispositivo de Lubricación Intrauretral pediátrica*	ES1290053U	100%	ES
2022. Method for assessing the activity of nicotinamida N-Methyl Transferase	EP22382866	10%	EP
2021. Use of Musashi 2 (msi2) as therapeutic target for the treatment of the characteristic myopathy of type 1 myotonic dystrophy	EP21382133	5%	EP
2021. Compound comprising ruthenium(iii) and 2,2'-biimidazole (Runat-bi) and the therapeutic use thereof	P202130624	40%	ES
2021. APC protein for the detection and prediction of septic shock	EP21382173	10%	EP
2021. Epigenetic signature for the diagnosis and prognosis of Spitzoides cutaneous melanocytic tumors	EP21382569	66,67%	EP
2019. Moxifloxacin for use in the treatment of spinal muscular atrophy	ES201930436	23%	PCT
2019. Oropharyngeal obturation device	ES20190003	100%	PCT
2018. Injectable material for the regeneration of the articular cartilage	ES201830730	29%	ES
2017. Prenylated benzopyranes as PPAR agonists	P201731470	40%	PCT

2016. Mass spectrometry-based methods for the detection of circulating histones h3 and h2b in plasma from sepsis or septic shock (ss) patients	EP16382509.4	6%	EU, USA, JP, CN, CA (Licensed)
2016. Intramedullary fixation device	P201631220	2,5%	EU, EEUU, Brasil (Licensed)
2016. Device for the exo-prosthetisation of limbs and other percutaneous applications	P201631218	2,5%	EU, EEUU (Licensed)
2013. Maxillomandibular prosthesis and production method	ES20130030734	33,33%	Licensed

3.4.2.2 Competitive innovation

Competitive calls offer technical and financial support for developing innovation ideas. Then, INCLIVA submits proposals to autonomic, national and international funding calls. In 2022, 11 innovation projects were granted for a total of €1.104.190,39.

INNOVATION COMPETITIVE PROJECTS	TOTAL AMMOUNT (€)
Identificación y validación de biomarcadores mediante el uso de las ómicas y la Inteligencia Artificial para el diagnóstico temprano y mejora del manejo clínico de la sepsis (MICINN-CPP)	150.269,00
Tratamiento innovador con ABTL0812 para el cancer pancreático metastático: acortando los tiempos para su aprobación – INNOPANC (MICINN-CPP)	266.860,49
Optimización de parámetros PK/PD de una terapia farmacológica reutilizada para pacientes con AME (ISCIII-DTS22)	134.200,00
Test basados en péptidos spike-in y espectroscopía de masas para la cuantificación de histonas circulantes y la proteína APC para la mejora del paciente crítico (GVA-CIAPOTIP)	24.000,00
Desarrollo de estrategias para el silenciamiento génico de Musashi2 en distrofia miotónica (GVA-APOTIP)	24.000,00
Exploraciones radiológicas especiales (GVA-APOTIP)	36.000,00
InnDIH - Valencia Region Digital Innovation Hub (European Union)	225.395,50

Especialización en fenotipado y caracterización molecular de modelos biomédicos murinos (GVA-INNVEST)	44.811,88
Utilización de Drosophila melanogaster en el desarrollo de oligonucleótidos antisentido como medicamentos (GVA-INNVEST)	66.217,84
Programa de formación y ocupabilidad de psicólogo/a en evaluaciones clínicas y uso seguimiento del aplicativo Remindcare en proyectos de investigación (GVA-INNVEST)	66.217,84
Investigación en enfermedades inflamatorias (GVA-INNVEST)	66.217,84
Total	**1.104.190,39**

3.4.2.3 Entrepreneurship

When the knowledge generated in INCLIVA is disruptive and the researchers are willing to exploit it by themselves, the knowledge transfer is direct. Consequently, a new venture (also known as a spin-off or start-up) is created. INCLIVA counts with the following companies officially recognized as spin-offs:

Epidesase S.L.

Company created in 2014 as a result of a project led by researchers from INCLIVA and the Center for Research in Biomedicine Network (CIBER) in the area of Rare Diseases to transfer knowledge in the field of epigenetics and biomedical sciences at the service of society.

Founding year: 2014

INCLIVA entrepreneurial team: Mr. José Luis García Giménez and Mr. Federico Pallardó

http://www.epidisease.com/

Sequencing Multiplex S.L.

Company created in 2013, which was born from the idea of generating solutions for research and clinical applications, using as a basis the introduction of new techniques and advanced genetic platforms, mainly next-generation sequencing (NGS).

Founding year: 2013

INCLIVA entrepreneurial team: Mr. Javier Chaves

https://www.seqplexing.com/es

Nela BioDynamics S.L.

The company arises from the results of a Final Master Thesis in Biomedical Engineering, which lead to two patents on a novel intramedullary fixation system for joint endoprostheses, nails for fractures and exoprostheses; and a percutaneous ostomy collar. Both patents are currently licensed to the spin-off itself.

Fouding year: 2020

INCLIVA entrepreneurial team: Mr. José Expósito Ollero

http://www.nelabiodynamics.com/

ArtHex Biotech S.L.

Company created in 2020 at the University of Valencia that develops advanced RNA treatments against genetic diseases. ARTHEx Biotech's mission is to find effective treatments for unmet medical needs. As a result, the company investigates anti-microRNAs for the treatment of myotonic dystrophy type 1 (DM1).

Fouding year: 2020

INCLIVA entrepreneurial team: Mr. Rubén Artero

http://www.arthexbiotech.com/

PLATFORMS

INCLIVA has the status of Adhered Center of the **ITEMAS** Platform of the IDIBELL Node for 2021 to 2023. Moreover, INCLIVA is part of the Alliance for Health Innovation and Industrialization of the Mediterranean Axis (**AIISEM**) coordinated by the IDIBELL Foundation and created by the following institutions: IIS La Fe, FISABIO, IDIBELL, ISABIAL, IISPV, IdISBa, IDIAP and IMIB. AIISEM nodes meet once a month, both the Technical Commission and the Strategic Commission. The Alliance has a 3-year Action or Work Plan divided into 5 key objectives:

I) promote collaboration with industry

II) create a portfolio of innovative initiatives

III) improve the translation of solutions to the National Health System (NHS)

IV) improve training and resources in innovation

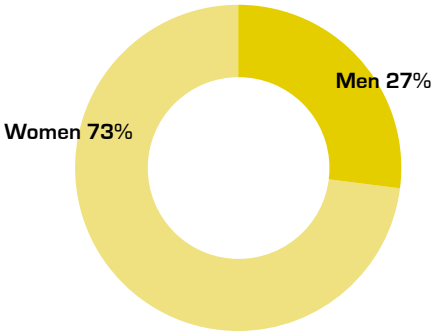
V) improve coordination and complementarity with other innovation units

3.5 Gender perspective

As part of its commitment to contribute towards guaranteeing real equality between women and men, INCLIVA's Board of Trustees has approved the II INCLIVA Equality Plan (2020-2024) following approval by the Equality Committee. Through INCLIVA's II Equality Plan, the different planned actions will be implemented throughout its four-year duration following the timeline established for each one.

Currently, 87,64% of INCLIVA employees are women. The data corresponding to activity in 2022 is as follows:

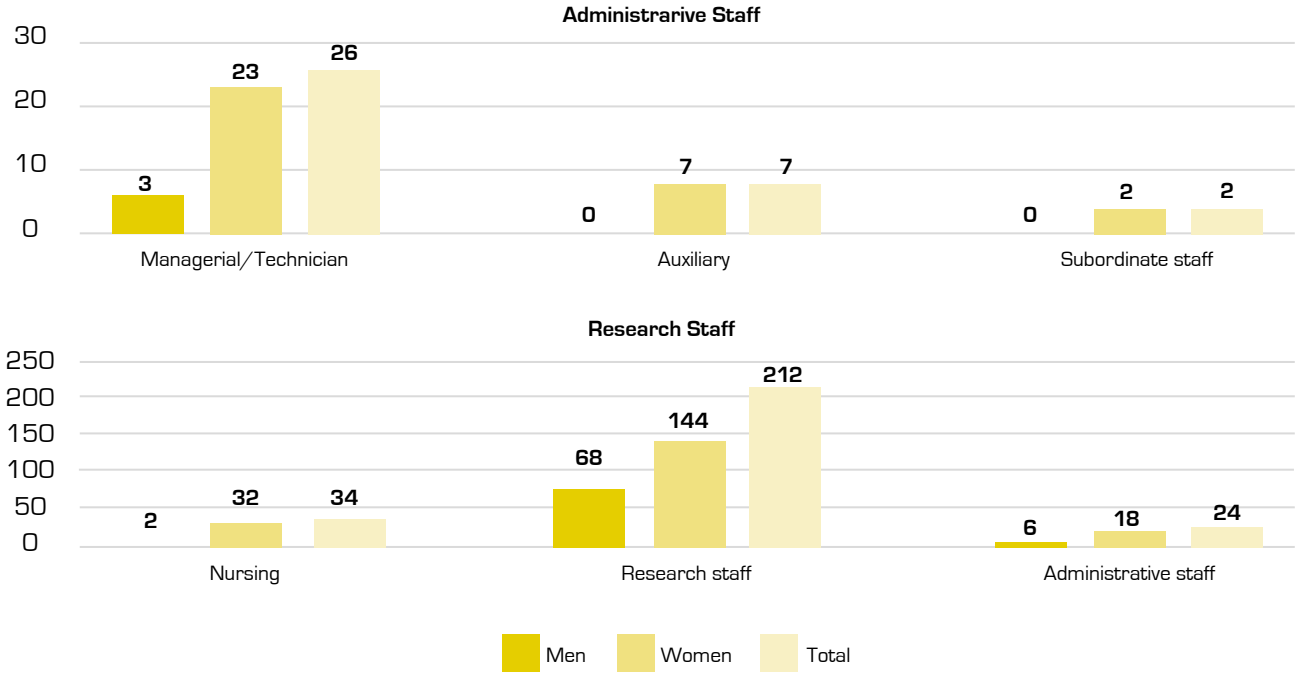
Total cost of INCLIVA staff	2022
Men	€2.105.703
Women	€5.701.367
TOTAL	**€7.807.070**



A total of 305 employees joined INCLIVA in 2022, of whom 74,10% are women. The percentage of women hired has increased every year for the last three years.

The following graphs differentiate between personnel hired for administration tasks and research staff:

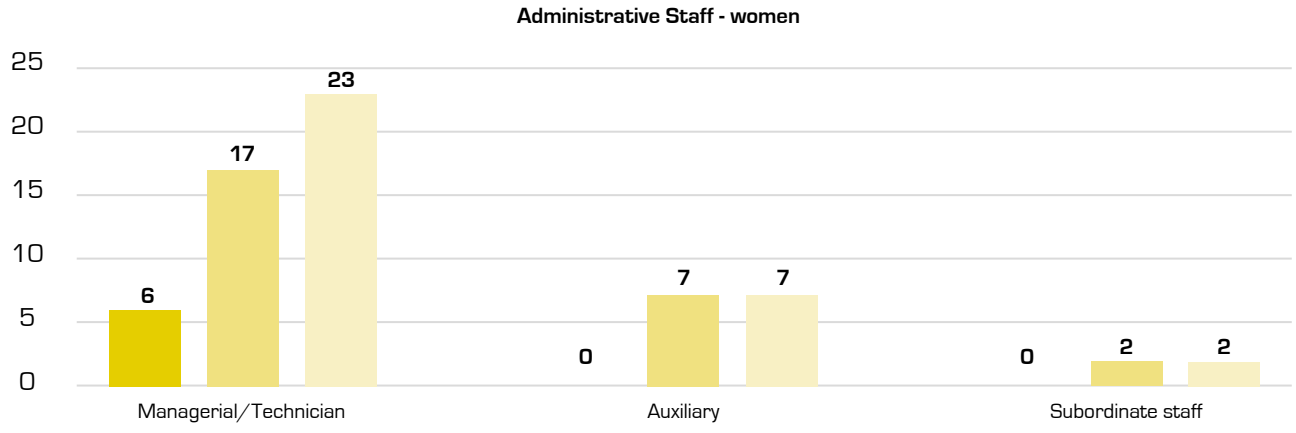
- Women comprise 91,43% of staff contracted to carry out administration tasks and 71,85% of those who carry out research tasks
- Within the administrative area, 88,46% of Managerial/Technician positions are women and 100% of Auxiliary and Nursing staff contracts are for women
- In research, 94,12% of those hired as Nursing staff, 75% of Administrative staff and 67,92% of Research staff are women



Distribution by contract type

The breakdown of contracts granted to women is shown in the following graphs:

- 87,71% of permanent contracts for administration tasks and 50% of permanent contracts for research tasks are for women.
- 92,86% of temporary contracts for administration tasks and 72,35% of temporary contracts for research tasks are for women.
- In administration: 81,25% of contracts for women are temporary contracts. Of these, 73,91% are contracts to carry out Managerial/Technician tasks and 100% for Auxiliary and Subordinate staff jobs. Fixed contracts for women within the administration are 100% for positions such as Managerial/Technician.
- In research: 98,45% of contracts awarded to women are temporary contracts. Of these, 98,61% of temporary contracts for research tasks, 100% of temporary contracts for nursing tasks and 94,44% for research administration tasks are for women.





Shared parental leave

Maternity/paternity leave was requested by only 10 employees throughout 2022: 2 by men, 7 by women.

3 global analysis

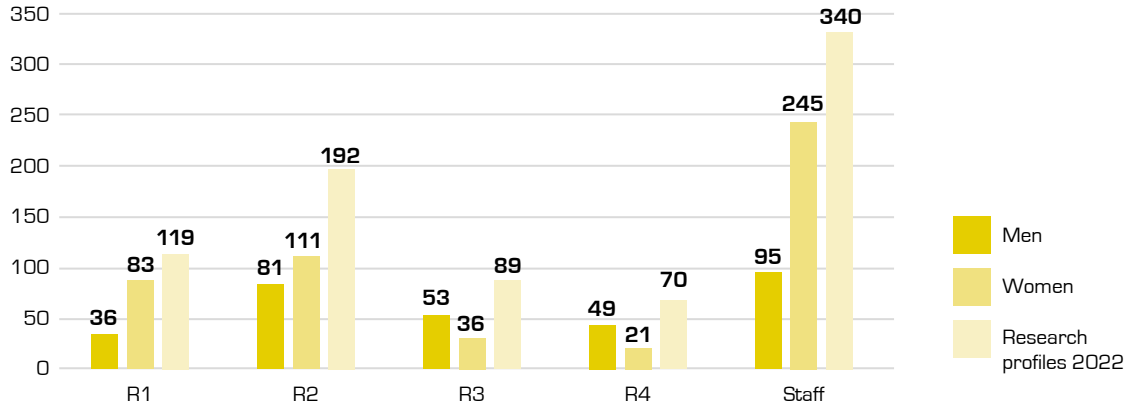
Organizational structure

Unlike within our staff structure, women are clearly underrepresented in governing bodies and scientific committees. The distribution of each is summarized below:

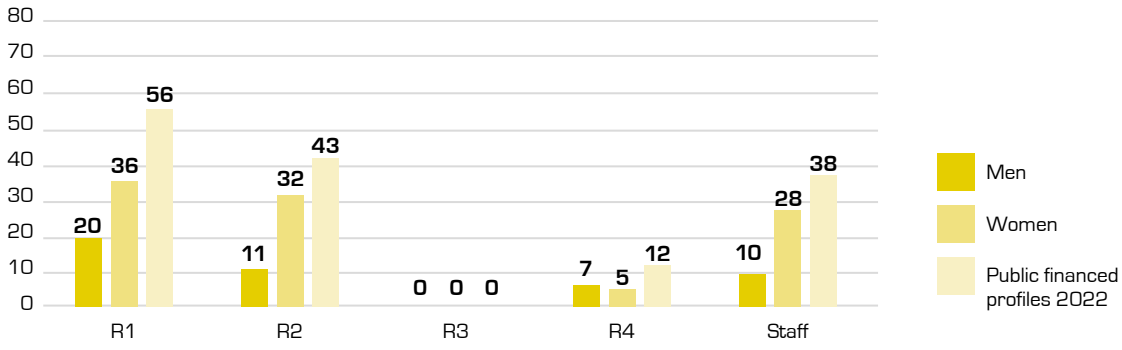
	Men	Women	Total 2022
Board of Governors	9	3	12
Board of Trustees	11	7	18
Ethical Committee in Clinical Research	13	8	21
External Scientific Committee	6	2	8
Innovation Committe	8	6	14
Internal Scientific Committee	6	4	10
Research areas	4	0	4
Research Committe	15	17	32
Research Groups	40	19	59
Scientific translational programs	12	3	15

Breakdown of Research Group staff

A total of 810 researchers belong to consolidated, emerging and associated research groups, and whose EURAXESS profile distribution is as follows. Distribution by group of research staff in 2022:



Distribution by group of research staff hired with public funding in 2022



Research projects

Throughout 2022, competitive tendering began for 46 new public projects, making a total of 117 currently active public projects under competitive tender. The Principal Investigators are distributed as shown in the table. In total, 39.39% of regional projects are led by women, compared with 44.28% of national projects and 7.14% of international projects.

	Men	Women	Total 2022
Autonomous Regions	12	13	33
National	32	31	70
International/European	13	1	14

Clinical studies and trials

A total of 105 studies have been managed throughout 2022. The tables below indicate the distribution of Principal Investigators, and number of male and female evaluators.

	Men	Women	Total 2022
Managed Studies	46	59	105
CEIm Evaluators	13	7	20

Transfer to the Productive Sector

Calls for proposals, innovation awards and patent portfolios during 2022 are distributed by gender as shown in the table:

	Men	Women	Total 2022
External calls for innovation proposals requested in 2022	16	12	28
Patents in portfolio (IPs that have co-ownership of a patent)	6	5	11
Vlc-Bioclínic Applications 2022	14	16	30
Vlc-Bioclínic Concessions 2022	6	7	13
Applicants for Innovation Awards 2022	11	23	34

Bibliometric analysis: Biomedical Research Institute (IIS) corresponding author, first and last author

Of the 786 INCLIVA publications in 2022, the distribution of men to women according to the relevant position of signature (first, last or corresponding author) it is 15,44% for female researchers and 31% for male researchers.

Training Activities

In total, 1829 people participated in training activities carried out during 2022. According to registration questionnaires, 68,45% of participation was female (1252) and 31% male (570). In 57% of activities, participation was mainly female.

Of the 72 activities, the 2 listed below provided training on equality, and their content and participant data are summarized in the following table.

Title	Date	Scope	Activity Type	Modality	Hours	Participants	Men	Women
Importance of gender differences. Mrs. Chelo Borrás Blasco	03/08/2022	Local	INCLIVA Seminar	Hybrid	1	17	2	15
I Meeting of women for health research	05/06/2022	Local	Scientific Conferences	Hybrid	2	41	0	41

Importance of gender differences. Mrs. Chelo Borrás Blasco

YouTube link: https://www.youtube.com/watch?v=H4OWFE59w6Y

I Meeting of women for health research

The goals of this information day were to:

- Make women visible within the research sector
- Empower women to assume positions of responsibility within the research sector
- Create synergies with other health institutions to promote the role of women in health research together

External stays

Of a total of 5 external stays, 4 were granted to women, while of the 19 external stays funded by INCLIVA, 13 were women. In total, 73% of stays were completed by women.

Internal Stays

Of a total of 5 internal stays, 1 was granted to women, entailing 20% of total internal stays.

Training placements

The classification and distribution by gender of training placements in 2022 is shown in the following table:

	Men	Women	Total 2022
Secondary school and vocational training placements	0	1	1
Bachelor's placements	6	21	27
Master's placements	16	30	46
Bachelor's final project (TFG) agreements (including INCLIVA Calls)	2	16	18
Master's final project (TFM) agreements (including INCLIVA Calls)	5	13	18
Total	**29**	**81**	**110**

Doctoral theses

Below is a breakdown by gender of the 51 doctoral theses defended or supervised by INCLIVA research staff: 57,14% of predoctoral researchers who defended their thesis in 2022 were women, and 33,75% of those supervising the theses defended in 2022 were women.

	Men	Women	Total 2022
INCLIVA Doctoral students	12	16	28
INCLIVA Doctoral Supervisors	51	29	80



scien-tific activi-ty

INCLIVA SCIENTIFIC REPORT 2022

4. Scientific activity
4.1 Scientific structure
4.2 Scientific translational programs
4.2.1 Overweight and cardiovascular and renal risk
4.2.2 Detection and control of ventricular dysfunction
4.2.3 Rare Diseases
4.2.4 Neurological Decline
4.2.5 Translational Oncology
4.2.6 Reproductive Medicine
4.2.7 Ageing and associated diseases
4.3. Research areas
4.3.1 Cardiovascular Area
4.3.2 Oncology Area
4.3.3 Metabolism and Organ Damage Area
4.3.4 Reproductive Medicine Area
4.3.5 Clinical Associated Groups
4.4. Hospital divisions research area
4.5 Other scientific contributions from scientific platforms
4.5.1 Biobank
4.5.2 Oncology Phase I Oncology Clinical Trials Unit
4.5.3 Spanish Clinical Research Network (SCReN), Clinical Research and Clinical Trials of the Clinical Trials Platform (UICEC INCLIVA)
4.5.4 Precision Medicine Unit
4.5.5 Bioinformatic Unit
4.5.6 Biostatistics Unit

scientific activity

4.1 Scientific structure

INCLIVA articulates its research in 4 areas of research, 7 scientific programs, 5 platforms and 6 associated clinical groups.

Areas of research constitute the basis on which to articulate the scientific work of the groups:

- Research area in cardiovascular
- Research area in oncology
- Research area in metabolism and organ damage
- Research area in reproductive medicine
- Associated clinical groups

Scientific programs are aimed at specific diseases from a translational perspective:

- Program in Overweight and cardiovascular and renal risk
- Program in Detection and control of ventricular dysfunction
- Program in Rare Diseases
- Program in Neurological Decline
- Program in Translational Oncology
- Program in Reproductive Medicine
- Program in Aging and associated diseases

Platforms are based on the provision of research services to the whole institute:

- Central Unit for Medical Research (UCIM)
- Biobank
- Precision Medicine Unit
- Bioinformatics Unit
- Biostatistics Unit

4.2 Scientific translational programs

4.2.1 Overweight and cardiovascular and renal risk

Obesity and overweight is a field in which new strategies are developed both for prevention and treatment with the use of traditional resources and the new technologies. The present program is focused on the study of pathology on the first stages of obesity (overweight with or without metabolic syndrome) integrating different clinical and experimental research studies.

Coordinators: Mr. José Tomás Real and Mr. Josep Redon

Objectives:

- To deepen in the early alterations, mechanisms and biomarkers that contribute to the development of obesity, vascular and renal alterations as a complication, from its fetal, biological, genetic and environmental origins
- To know potential signaling pathways susceptible to be therapeutic targets
- Early application of new technologies for the prevention and treatment of obesity and vascular and renal alterations in overweight subjects

Research lines:

- To identify early vascular and renal changes in overweight subjects and in animal models
- To study the state, mechanisms of vascular inflammation and endothelial injury in overweight and animal models
- To analyze the relationship of "-omic" markers (genomic, epigenetic and metabolomic) with obesity and vascular and renal alterations in overweight and animal models
- Interaction of biomarkers (biological, genomic and metabolic) and intervention in progression to obesity and vascular and renal complications

Clinical groups:

- Research Group on the Study of Cardiometabolic and Renal Risk (Mr. Josep Redón i Mas)
- Cardiometabolic Research Group on Primary Care (Mr. Jorge Navarro Pérez)
- Research Group for the Prevention of Cardiovascular Risk in Children and Adolescents (Mrs. Empar Lurbe i Ferrer)
- Research Group on Cardiometabolic Risk and Diabetes (Mr. José Tomás Real Collado, Mr. Sergio Martínez Hervás)
- Research Group on General and Digestive Surgery (Mr. Joaquín Ortega Serrano)
- Research Group on Pedriatric Nutrition (Mrs. Cecilia Martínez Costa)
- Research Group in Care. INVESTENF-INCLIVA (Mrs. Mª José Gastaldo Zaragozá)
- Research Group in Medical Chemistry for Drug Development (Mrs. Nuria Cabedo Escrig)

Experimental groups:

- Research Group on Endothelial Cells (LINCE) (Mr. Carlos Hermenegildo Caudevilla, Mrs. Susana Novella del Campo)
- Research Group on Molecular Imaging and Metabolomics (Mr. Daniel Monleón Salvadó)
- Research Group on Inflammation (Mr. Esteban Morcillo Sánchez, Mrs. Mª Jesús Sanz Ferrando)
- Genomics and Diabetes Unit (Mr. Felipe Javier Chaves Martínez)
- Research Group on Nuclear Receptors in Cardiometabolic Pathology (Mrs. Laura Piqueras Ruiz)
- Research Group on Metabolic Diseases (Mrs. Herminia González Navarro)
- Research Group on Exercise, Nutrition and Healthy Lifestyle (Mrs. Mª Carmen Gómez Cabrera)

OVERWEIGHT AND CARDIOVASCULAR AND RENAL RISK				
OBJECTIVES	STATE			ACTIONS
	Achieve	Partially achieved	Not achieved	
Metabolic, vascular and renal evaluation of overweight patients (children and adults)			X	
Characterization of the relationship between overweight and vascular inflammation / endothelial function		X		
Identification of molecular markers that relate overweight with its associated diseases		X		• Metabolomic measurements (80 spectral features) of 3 cohorts (4500 subjects) for associations between obesity, associated diseases and morbidities and early alterations of metabolism. Focus on the metabolic interaction between host and gut microbiota. Cohorts: Río Hortega (general population), AWHS (working population) and PIANCAVALLO (obese and morbid obese)
Identification of metabolomic markers that relate overweight with its associated morbidities		X		• Metabolomic measurements (80 spectral features) of 3 cohorts (4500 subjects) for associations between obesity, associated diseases and morbidities and early alterations of metabolism. Focus on the metabolic interaction between host and gut microbiota. Cohorts: Río Hortega (general population), AWHS (working population) and PIANCAVALLO (obese and morbid obese)
Development of new early detection systems for obesity and its associated complications		X		• Metabolomic measurements (80 spectral features) of 3 cohorts (4500 subjects) for associations between obesity, associated diseases and morbidities and early alterations of metabolism. Focus on the metabolic interaction between host and gut microbiota. Cohorts: Río Hortega (general population), AWHS (working population) and PIANCAVALLO (obese and morbid obese)
Identification of molecular targets of obesity and its associated complications and development of new therapies			X	

4.2.2 Detection and control of ventricular dysfunction

The program focuses on the study of the pathophysiological mechanisms involved in myocardial ischemic damage, on its structural, functional and electrophysiological repercussions on the evaluation of diagnostic tools and markers and prognoses and on the study of new therapeutic approaches that may help to prevent their adverse consequences.

It is a truly and translational research program that capitalizes the synergies between clinical and experimental research groups and also includes specialists in cardiac imaging techniques and technological development experts. The multidisciplinary approach extends the possibilities of collaboration between groups, strengthens those already existing and incorporates other groups into the activities of the program. Innovation through the development of analytical tools (imaging techniques such as cardiac magnetic resonance, cardiac electrical signals or cartographic techniques), allows the generalize of patents in the field of technological development.

Coordinators: Mr. Francisco J. Chorro, Mr. Vicente Bodí and Mr. Juan Sanchis

Objectives:

- Electrical remodeling: experimental studies on the protective effect against the arrhythmic vulnerability of modifications of the signaling pathways
- Ventricular remodeling: evaluation of the role of microvascular damage, prediction of postinfarction clinical evolution
- Biomarkers: clinical studies aimed at the validation of biomarkers related to the degradation of components of the extracellular matrix

Research lines:

- Characterization of the direct electrophysiological effects of the active metabolite of sacubitril
- Study of the modifications of the electrophysiological effects of overload sharp mechanics
- Analysis of the protective effects produced by chronic treatment with inhibitors
- Mechanisms involved in the deterioration of systolic function, fibrosis and the inducibility of arrhythmias
- Development of useful working instruments in the study of cardiac electrophysiology
- Basic research related to ischemia and myocardial infarction
- Prospective and multicenter registry (*Hospital Clínico Universitario de Valencia* and *Hospital Clínic de Barcelona* and *Hospital Vall d'Hebrón de Barcelona)* of patients
- Prognostic value of geriatric conditions in older patients admitted for acute coronary syndrome
- Prospective Evaluation of the European Society of Cardiology 0/1h-algorithm's Safety and Efficacy for Triage of Patients with Suspected Myocardial Infarction (PRESC1SE-MI)

Clinical groups:

- Research Group on Clinical Cardiology (Mr. Juan Sanchis Forés)
- Research Group on Cardiac Experimental Electrophysiology (Mr. Francisco Javier Chorro Gascó)
- Research Group on Heart Failure (Mr. Julio Núñez Villota)
- Group on Translational Research in Ischemic Heart Disease (Mr. Vicente Bodí Peris)
- Cardiometabolic Research Group on Primary Care (Mr. Jorge Navarro Pérez)
- Research Group in Care. INVESTENF-INCLIVA (Mrs. Mª José Gastaldo Zaragoza)

Experimental groups:

- Research Group on Endothelial Cells (LINCE) (Mr. Carlos Hermenegildo Caudevilla, Mrs. Susana Novella del Campo)
- Research Group on Molecular Imaging and Metabolomics (Mr. Daniel Monleón Salvadó)
- Research Group on Inflammation (Mr. Esteban Morcillo Sánchez, Mrs. Mª Jesús Sanz Ferrando)
- Research Group on Nuclear Receptors in Cardiometabolic Pathology (Mrs. Laura Piqueras Ruiz)

MYOCARDIAL ISCHAEMIA INJURY DETECTION AND CONTROL OF VENTRICULAR DYSFUNCTION				
OBJECTIVES	**STATE**			**ACTIONS**
	Achieve	**Partially achieved**	**Not achieved**	
Study of the basic mechanisms involved in myocardial damage	X			• Oxidative stress during reperfusion in acute myocardial infarction
	X			• Neoangiogenesis, the appearance of micro-vascular obstruction and impaired function systolic
		X		• Deregulation of the immune system in acute myocardial infarction
Diagnosis through new RM tools	X			• RM micro-image for the development of combinations of RM sequences without contrast
	X			• Analysis of myocardial textures
	X			• Offline evaluation of myocardial tension
		X		• CMR for risk stratification and decision making in STEMI
		X		• Stress CMR for risk stratification and decision making in chronic coronary syndromes
Prediction through new biomarkers		X		• Definition of new serological indicators with NMR-S to predict DR and fibrosis
		X		• Serum CA125, galectin-1 and galectin-3 markers
		X		• 0/1h-algorithm`s Safety and Efficacy for Triage and Troponin extraction of Patients with Suspected Myocardial Infarction
Prevention		X		• DR prevention through multiple antioxidant treatment
		X		• Prevention of deterioration of systolic function, fibrosis and arrhythmias

4.2.3 Rare Diseases

The program's main objectives are to improve the diagnosis and current treatments of rare diseases (RDs). To this end, we will proceed to identify and validate rare disease biomarkers for which we do not have effective diagnostic and/or prognostic indicators. On the other hand, new therapeutic strategies will be developed to treat these diseases. Human and animal model samples will be used to understand the molecular basis of disease, evaluate the activity of candidate drugs, and discover new biomarkers.

The program seeks to fill the gap between basic research and commercial development of diagnostic systems and treatments, so it aims to transfer this knowledge to companies to transform biomedical knowledge into products and services that improve human health. With these objectives, contacts with biotechnology and pharmaceutical companies have been established. On the other hand, the program aims to disseminate its findings to society to get feedback about actual patients' needs.

Coordinators: Mr. Francisco Dasí and Mr. Federico Pallardó

Objectives:

- Development of 2D and 3D (organoids) cell or organ models derived from cells of patients diagnosed with the RDs being studied obtained either through the genetic manipulation of healthy cells to mimic the mutations associated with these diseases or from animal models in order to improve the knowledge of the pathophysiology of each disease
- Discover new therapeutic targets and propose new pharmacological strategies for the treatment of these pathologies
- Promote collaboration with services of the Clinical Hospital involved in the treatment of these RDs, emphasizing primary care to improve its diagnostic potential
- Development of new diagnostic and prognostic methods
- Development of "omics" technologies to advance research in RRDD

Research lines:

- Study of the physiopathology of rare neuromuscular diseases
- Epigenetic regulation of neonatal sepsis
- Pathophysiology of telomeres
- Pathophysiology of alpha-1 antitrypsin deficiency, primary ciliary dyskinesia, childhood interstitial diseases and Prader-Willi syndrome
- Genetic and epigenetic modifiers in Friedreich's ataxia
- Gene therapy for the treatment of rare respiratory diseases
- Design and testing of new biomarkers for rare diseases
- Characterization of the cellular and molecular mechanisms associated with the pathology of neuromuscular diseases like Myotonic Dystrophy and Friedreich's ataxia and identification of molecular targets for the development of new therapies

Clinical groups:

- Research Group on Respiratory Diseases (Mr. Jaime Signes-Costa Miñana)
- Research Group on Psychiatry and Neurodegenerative Diseases (Mr. Julio Sanjuán Arias)
- Cardiometabolic Research Group on Primary Care (Mr. Jorge Navarro Pérez)
- Clinical Associated Group in Traumatology and Orthopedics (Mr. Antonio Silvestre Muñoz)

Experimental groups:

- Research Group on Human Translational Genomics (Mr. Rubén D Artero Allepuz)
- Research Group on Rare Respiratory Diseases (RRD) (Mr. Francisco Dasí Fernández)
- Research Group on Cellular and Organic Physiopathology of Oxidative Stress (Mr. Federico V. Pallardó Calatayud)
- Research Group on Epigenomics and translational epigenetics (Mr. José Luis García Giménez)
- Research Group on Neurobiology and Molecular Physiopathology in Rare Diseases – NeurFisER (Mrs. Pilar González Cabo)

Clinical Services Associated with the Program

- Department of Pediatrics
- Department of Pneumology

RARE DISEASES				
OBJECTIVES	STATE			ACTIONS
	Achieve	Partially achieved	Not achieved	
Extension to the PCT phase of the European patent "Mass spectrometry-based methods for the detection of circulating histones H3 and H2B in plasma from sepsis or septic shock (ss) patients" (PCT/EP2017/078362)	X			EP, US, CA, JP y CN
Acquisition of budget and resources from different programs	X			Counseling of Innovation, Universities, Science and Digital Society (2 new projects), Carlos III Health Institute - Co-financed FEDER (4 new projects), Ministry of Science and Innovation (4 new projects), Center of Excellence ALBA synchrotron (1 new project), Society of Pneumology (2 projects), Alpha-1 antitrypsin deficiency patients' association (1 project)
Carry out teaching and outreach activities	X			• Subject "Enfermedades Raras": Medicine degree (UV) • Master course in Biomedical Research • Master "*Enfermedades raras*" • 2nd edition of the online course "*Introducción a las EE.RR: investigación y atención clínica*" • "Introduction to rare diseases". Program of the University of Valencia La Nau Gran. • "*Máster online de formación permanente en déficit de alfa-1 antitripsina*". SEPAR-University CEU San Pablo.

4.2.4 Neurological Decline

Inflammation, which is associated with many chronic diseases (diabetes, liver cirrhosis, etc.), aging or major surgeries, leads to neuroinflammation and brain alterations that eventually lead to cognitive and functional impairment. This deterioration reduces the quality of life and increases the risk of accidents, falls, fractures and adverse consequences, which implies an increase in hospitalizations and the use of public resources.

Cognitive and functional impairment associated with aging and many chronic diseases is one of the most important challenges in order to improve the quality of life of the population and secure the sustainability of health systems. Early detection and treatment and prevention of cognitive and functional impairment would improve the quality of life of the elderly or with chronic diseases and reduce the demand for resources to the health system, improving its sustainability. Therefore, it is necessary to design new approaches to address these challenges, based on advances in knowledge on mechanisms, early diagnosis, prevention and treatment of cognitive and functional impairment.

Coordinators: Mrs. Carmina Montoliu and Mr. Vicente Felipo

Objectives:

- Characterize the alterations in inflammation, neuroinflammation, neurotransmission, function and brain structure associated with the appearance of cognitive and functional impairment
- Characterize cognitive and functional disturbances in detail
- Identify biomarkers for the early detection of cognitive and functional impairment
- Identify the mechanisms by which:

  a) peripheral inflammation leads to neuroinflammation

  b) neuroinflammation leads to functional, structural and neurotransmission alterations in the brain

  c) brain disorders lead to cognitive and functional impairment
- Identify therapeutic targets to reverse or prevent cognitive and functional impairment
- Design and test new therapeutic procedures to reverse or prevent cognitive and functional impairment

Research lines:

- Develop new early diagnostic procedures for cognitive and functional impairment
- Try to transfer the new diagnostic procedures developed to clinical practice
- Evaluate in patients the efficacy and usefulness of new therapeutic procedures to prevent or reverse cognitive and functional impairment that has been effective in animal models
- Transfer to clinical practice the new validated therapeutic procedures

Clinical groups:

- Associated Clinical Group in Digestive Medicine (Mrs. Isabel Pascual Moreno)
- Research Group on Anesthesiology and Reanimation (Mr. Rafael Badenes Quiles)
- Research Group on Cardiometabolic Risk and Diabetes (Mr. José Tomás Real, Mr. Sergio Martínez Hervás)
- Research Group in Care. INVESTENF-INCLIVA (Mrs. Mª José Gastaldo Zaragozá)
- Research Group on the Study of Cardiometabolic and Renal Risk (Mr. Josep Redón i Mas)

Experimental groups:

- Research Group on Neurological Impairment (Mrs. Carmina Montoliu Félix)
- Research Group on Personal Autonomy, Dependence and Severe Mental Disorders (TMAP) (Mr. Rafael Tabarés Seisdedos)
- Research Group on Aging and Physical Activity (Mr. José Viña Ribes)
- Research Group on Inflammation (Mr. Esteban Morcillo Sánchez, Mrs. Mª Jesús Sanz Ferrando)

Clinical Services Associated to the Program:

- Department of Neurophysiology

University Department Associated with the Program:

- Biology Unit. Department of Pathology

NEUROLOGICAL DECLINE				
OBJECTIVES	STATE			ACTIONS
	Achieve	Partially achieved	Not achieved	
1. Characterize the alterations in inflammation, neuroinflammation, neurotransmission, function and brain structure associated with the appearance of cognitive and functional impairment		X		We analyzed the presence of neuroinflammation in post-mortem samples of the cerebellum from patients died with different grades of liver disease, from mild steatohepatitis to cirrhosis. We are analysing alterations in neural connectivity by functional magnetic resonance imaging.
2. Characterize cognitive and functional disturbances in detail		X		Gait, balance, hand strength and motor speed performance were evaluated in cirrhotic patients. Evaluation and characterization of sensory thresholds was also performed by quantitative sensory testing using a CASE IV. We are characterizing cognitive and functional disturbances in patients with other pathologies: NASH (non-alcoholic steatohepatitis), diabetes mellitus, schizophrenia, bipolar disorder, and post-surgery patients. We are better characterizing executive functions in cirrhotic patients by computerized tests.
3. Identify biomarkers for the early detection of cognitive and functional impairment		X		We are studying the altered genes in peripheral blood cells and the involved pathways associated with the appearance of cognitive impairment; we are characterizing the changes in inflammation and metabolites associated to cognitive impairment. We are performing an integrated multiomics analysis to identify biomarkers of cognitive and functional impairment. We are characterizing eye movements in patients with different pathologies: cirrhosis, NASH, and diabetes mellitus.

4. Identify the mechanisms by which: a) peripheral inflammation leads to neuroinflammation b) neuroinflammation leads to functional, structural and neurotransmission alterations in the brain c) brain disorders lead to cognitive and functional impairment		X		We have identified alterations of the immune system associated with the appearance of neurological alterations in cirrhotic patients with MHE. We have identified, in animal models, mechanisms by which peripheral inflammation induces neuroinflammation, and how this alters neurotransmission and cognitive and motor function. We have shown that there is a dysregulation in the urea cycle in non-alcoholic fatty liver disease. We are analyzing the role of exosomes as mediators of neuroinflammation and of alterations in neurotransmission and cognitive and motor function in animal models of MHE.
5. Identify therapeutic targets to reverse or prevent cognitive and functional impairment		X		We have identified several therapeutic targets in animal models of MHE.
6. Design and test new therapeutic procedures to reverse or prevent cognitive and functional impairment		X		We are testing the effect of treatments on cognitive impairment and immunophenotype in patients to reverse or prevent cognitive and functional impairment. We have designed several treatments that improve cognitive and motor function in animal models.
7. Programme activity: Seminars of the Neurological Impairment Program		X		Seminars are scheduled for the third Thursday of each month. Time: 13:30h

4.2.5 Translational Oncology

The translational oncology program called "Identification of oncogenic biomarkers: mechanisms and clinical implications, detection in non-invasive samples, omics analysis" tries to apply to the clinical practice the genomic screening in human tumors.

Its main objective is to assess cancer dynamics through non-invasive samples in order to detect minimal residual disease, early onset of markers after surgery and patient response to different treatments.

The high heterogeneity of cancer results in inefficiency of treatments, even when they are directed against specific molecular targets. The low availability of tumor specimens makes genomic studies difficult.

In this sense, the use of liquid biopsies would facilitate the serial collection of samples to carry out molecular analysis and would guarantee a minimum risk for the patient. Thus, improving the follow-up and allowing a dynamic understanding of the evolution of the genomic parameters of the patient.

This point of view benefits the National Health System as a whole since it allows the application of more specific treatments to patients, thus avoiding those that would have been less effective, reducing hospitalization and improving life expectancy and quality thereof. It could also prevent generalized treatments, secondary toxicities and rapid treatment adequacy responses.

Finally, it would improve the inclusion of patients in clinical trials which are stratified by molecular mutations.

Coordinator: Mr. Andrés Cervantes

Objectives:

- Identification of diagnostic biomarkers that help the early identification of patients
- Identification of biomarkers of resistance to treatment or relapses
- Development of functional models mimetic to the characteristics of the patient
- Development of decision support systems through data analysis

Research lines:

- Liquid biopsy as a diagnostic tool
- Functional models of organoids, murine and 3D bioprinted for the study of resistance and drug screening
- Integration of molecular and image data for the development of decision support systems
- Promote the development and implementation of programs in advanced therapies, particularly, CAR-T cells cell therapy and other models
- Continuous improvement of the inclusion of patients in clinical trials, in coordination with primary care
- Economic evaluation of innovative therapies and digital health

Clinical Groups:

- Research Group on Breast Cancer Biology (Mrs. Ana Lluch Hernández, Mrs. Pilar Eroles Asensio)
- Research Group of Innovative Diagnostic and Therapeutical Developments in Solid Tumors - InDeST (Mr. Andrés Cervantes Ruipérez)
- Research Group on Hematopoietic Transplantation (Mr. Carlos Solano Vercet)
- Research Group on Myeloid Neoplasms (Mrs. Mar Tormo Díaz)
- Research Group on Lymphoproliferative Disorders (Mrs. Mª José Terol Casterá)
- Translational Research Group on Pediatric Solid Tumors (Mr. Samuel Navarro Fos, Mrs. Rosa Noguera Salvá)
- Research Group on General and Digestive Surgery (Mr. Luis Sabater)
- Associated Clinical Group in Urology (Mr. José Martínez Jabaloyas)
- Associated Clinical Group in Pharmacy (Mr. Manuel Alós Almiñana)

scientific activity

Clinical Services Associated to the Program

- Department of Pathology
- Department of Radiology
- Central Laboratory

Associated program platforms:

- Biobank
- Bioinformatics Unit
- Biostatistics Unit
- Precision Medicine Unit

TRANSLATIONAL ONCOLOGY				
OBJECTIVES	**STATE**			**ACTIONS**
	Achieve	**Partially achieved**	**Not achieved**	
Identify biomarkers	X X X X			• Clinical recruitment-characterization and storage Biobank-Data Management • Subclassify tumours according to their profile • Identify biomarkers of inflammation / angiogenesis; miRs-detox from oxidative stress • Perform comprehensive omics data analysis with search of altered routes using Biology of systems
Validate promising biomarkers / mechanistic analysis	X	X X X		• Proof of concept on commercial cell lines • Establishment of cell lines with patient tumours • Establishment of tumours in mouse models (xenografts) • IHC antibodies in FFPE to validate expression / western blot in cell lines / xenotumours
Detect biomarkers in liquid biopsies to monitor disease progression (BEAMing PCR)	X X			• Start on biopsies of patients with advanced disease or disease progression • Implement technology optimized for initial detection, detection of residual disease, and disease evolution and response to treatment

4.2.6 Reproductive Medicine

This program comprises two main lines:

1. Molecular characterization at single-cell resolution of the human uterus as a basis for both understanding uterus health and disease, and improving diagnosis, monitoring and new therapies.
2. Study of maternal-embryonic communication mechanisms and their impact on reproductive health.

Coordinators: Mr. Carlos Simón and Mr. Felip Vilella

Objectives:

- To create comprehensive reference map at single-cell resolution of the human uterus
- To study the origin of fibroids at the single-cell level
- To study the origin of late gestational pathology focuses on decidualization deficiency
- To establish the maternal-fetal communication mechanisms before embryo implantation
- To provide early diagnosis and treatment of endometriosis and endometrial cancer
- To study the molecular mediators in hormone-dependent oncogenesis in endometrium and ovary
- To establish a success strategy in the implementation of physical activity to reduce the risk of chronic disease in women

Research lines:

- Study of endometrial receptivity and cell map of the human uterus. Previous research in our laboratory using microarray technology has established a transcriptomic signature of human endometrial receptivity
- Maternal-fetal communication
- Role of the endometrial microbiome in reproduction
- Early diagnosis of preeclampsia and other complications of pregnancy
- Study at the single-cell level of the origin of uterine fibroids
- Early Diagnosis and treatment of endometriosis and endometrial cancer
- Molecular factors involved in the initiation and progression of hormone-dependent tumours in the endometrium and ovary
- Implementation of physical activity as a strategy to improve health indicators in women
- Deciphering interactions at the single-cell level of the human endometrial microbiome in health and disease

Clinical groups:

- Research Group on Women's Health (Mr. Antonio Cano Sánchez)
- Research Group on Endometriosis and Endometrial Cancer Therapies (Mr. Raúl Gómez Gallego)

Experimental groups:

- Research Group on Maternal Fetal Communication (Mr. Felip Vilella Mitjana)
- Research Group on Reproductive Medicine (Mr. Carlos Simón Vallés)

Clinical Services Associated to the Program

- Department of Gynaecology and Obstetrics

ENDOMETRIAL RECEPTIVITY AND EMBRYO VIABILITY				
OBJECTIVES	STATE			ACTIONS
	Achieve	Partially achieved	Not achieved	
Advance in the understanding of the mechanisms that regulate maternal-fetal communication		X		Project is ongoing. Results published
Single cell resolving molecular characterization of the human uterus with its implications for health and disease		X		Project is finished. Results to be published
Single cell study of the origin of fibroids		X		Project is ongoing
Study of resistance to decidualization at the origin of late gestational disease		X		Project is finished. Results to be published
Early diagnosis and treatment of endometriosis and endometrial cancer		X		Project is ongoing
Molecular mediators in hormone-dependent oncogenesis in endometrium and ovary		X		Project is ongoing
Success strategy in the implementation of physical activity to reduce the risk of chronic disease in women		X		Project is ongoing

4.2.7 Ageing and associated diseases

This program has the priority of improving the quality of life of the elderly and promoting longevity as much as possible. The aging population is a challenge for current health systems since the population over 65 years old contributes, in a very significant percentage, to health expenditure. As life expectancy increases, so do age-associated diseases.

In this context, the concept of "healthspan" (quality of life) has emerged. The program is formed by many researchers and health professionals who consider that efforts to extend life at the expense of causing a severe physical or psychic disability are undesirable and, on the contrary, they should focus on lengthening the part of life during which we are able to maintain autonomy, independence, productivity, and well-being.

A central guiding idea in this program is that people who achieve exceptional longevity (i.e., centenarians) serve as a model of satisfactory aging. On the other hand, it is considered that the most problematic expression of the population aging is the clinical condition of frailty since an important part of the people over 65 and older fulfill several frailty criteria. Approximately one-fourth of people over the age of 85 are estimated to be frail. Frailty is a geriatric syndrome characterized by increased vulnerability to external aggressions as a result of an alteration in the physiological reserves of multiple systems, leading to difficulties in maintaining homeostasis. The program tries to identify specific molecular targets to be able to intervene concretely and rationally to improve the quality of life of the elderly.

For this, INCLIVA has an enormous advantage because of the great integration that exists, by proximity and interests, between the *Hospital Clínico Universitario de Valencia* and the Faculty of Medicine of the University of Valencia. This framework allows intense collaboration between basic research groups, that analyze possible biomarkers associated with healthy aging, frailty, or age-associated diseases and clinical research groups that provide biological human samples and, on the other hand, can transfer to the patient those studies that have been successfully developed at the bench.

In addition to this, INCLIVA has registered the first and only Spanish Group for the Study of Centenarians, which includes research groups working in this field distributed in different Spanish communities.

Coordinators: Mr. José Viña, Mrs. Consuelo Borrás, Mrs. María Carmen Gómez

Objectives:

- Determination of oxidative stress and inflammation parameters associated with healthy aging, frailty, and age-associated diseases
- Determination of genetic biomarkers (microRNAs, mRNAs, and SNPs) associated with healthy aging, frailty, and age-associated diseases
- Determination of epigenetic biomarkers associated with healthy aging, frailty, and age-associated diseases
- Determination of metabolomic biomarkers associated with healthy aging, frailty, and age-associated diseases
- Protocols of physical exercise and other healthy life interventions for the treatment and prevention of frailty

Research topics:

- Biomarkers of aging
- Mechanisms of aging with special attention to exceptional aging: centenarians
- Healthy aging: frailty and prevention of disability
- Intervention for successful aging: physical exercise, nutrition, molecular interventions (extracellular vesicles)
- Age-associated diseases: cardiovascular and neurodegenerative diseases
- Mitochondrial implications in age-associated frailty
- Skeletal muscle repair, exercise, frailty, and sarcopenia
- Regenerative medicine in aging and age-associated diseases

4 scientific activity

Clinical research groups:

- Research Group on the Study of Cardiometabolic and Renal Risk (Mr. Josep Redón i Mas)
- Cardiometabolic Research Group on Primary Care (Mr. Jorge Navarro Pérez)
- Research Group on Clinical Cardiology (Mr. Juan Sanchis Forés)
- Research Group on Women Health (Mr. Antonio Cano Sánchez)
- Research Group in Care. INVESTENF-INCLIVA (Mrs. Mª José Gastaldo Zaragozá)

Experimental research groups

- Research Group on Neurological Impairment (Mrs. Carmina Montoliu Félix)
- Research Group on Endothelial Cells (LINCE) (Mr. Carlos Hermenegildo Caudevilla, Mrs. Susana Novella del Campo)
- Research Group on Exercise, Nutrition and Healthy Lifestyle (Mrs. Mª Carmen Gómez Cabrera)
- Research Group on Healthy Aging (Mrs. Consuelo Borrás Blasco)
- Research Group on Aging and Physical Activity (Mr. José Viña Ribes)
- Research Group on Cellular and Organic Physiopathology of Oxidative Stress (Mr. Federico V. Pallardó Calatayud)
- Research Group on Inflammation (Mr. Esteban Morcillo Sánchez, Mrs. Mª Jesús Sanz Ferrando)
- Research Group on Genetics of Osteoporosis (Mr. Miguel Ángel García Pérez)
- Research Group on Molecular Imaging and Metabolomics (Mr. Daniel Monleón Salvadó)

AGING AND AGE-ASSOCIATED DISEASES				
OBJECTIVES	**STATE**			**ACTIONS**
	Achieve	**Partially achieved**	**Not achieved**	
Determination of parameters of oxidative stress and inflammation associated with aging healthy, frailty and diseases associated with aging (mainly cardiovascular and neurodegenerative)		X		• Oxidative signature of cerebrospinal fluid from mild cognitive impairment and Alzheimer's disease patients • Reductive Stress: a New Concept in Alzheimer's Disease • Global, regional, and national age-sex-specific mortality and life expectancy, 1950-2017: a systematic analysis for the Global Burden of Disease • Glucose 6-P dehydrogenase delays the onset of frailty by protecting against muscle damage • Frailty is associated with oxidative stress in older patients with Type 2 Diabetes • Redox-related biomarkers in physical exercise **Project:** CIBER de Fragilidad y envejecimiento (CIBERfes) **Project:** Evolution-Age-Gender-Lifestyle-Environment: mitochondrial fitness mapping **Thesis title:** Role of p16ink4a and bmi-1 in oxidative stress-induced premature senescence in human dental pulp stem cells **Thesis title:** Regulation of antioxidant defenses in the prevention of skeletal muscle deconditioning

Determination of genetic biomarkers (microRNAs, mRNAs and SNPs) associated with healthy aging, frailty and diseases associated with aging (mainly cardiovascular and neurodegenerative)	X			• In Search of 'Omics'-Based Biomarkers to Predict Risk of Frailty and Its Consequences in Older Individuals: The FRAILOMIC • Human exceptional longevity: transcriptome from centenarians is distinct from septuagenarians and reveals a role of Bcl-xL in successful aging.Aging (Albany NY) • A translational approach from an animal model identifies CD80 as a candidate gene for the study of bone phenotypes in postmenopausal women • Centenarians maintain miRNA biogenesis pathway while it is impaired in octogenarians. Mechanisms of ageing and development **Thesis title:** *Transcriptómica en centenarios: un ejemplo de envejecimiento satisfactorio*
Determination of epigenetic biomarkers associated with healthy aging, frailty, and diseases associated with aging (mainly cardiovascular and neurodegenerative)		X		• Epigenetic biomarkers for human sepsis and septic shock: insights from immunosuppression • Epigenetic regulation in the pathogenesis of Sjögren Syndrome and Rheumatoid Arthritis • Exercise training as a modulator of epigenetic events in prostate tumors • Implementing precision medicine in human frailty through epigenetic biomarkers • Epigenetic biological age in mice models in aging and frailty
Determination of metabolomic biomarkers associated with healthy aging, frailty, and diseases associated with aging (mainly cardiovascular and Neurodegenerative)		X		• Sex differences in age-associated Type 2 Diabetes in Rats-Role of Estrogens and Oxidative Stress

Physical exercise protocols for the prevention of frailty		• A multicomponent exercise intervention that reverses frailty and improves cognition, emotion, and social networking in the community-dwelling frail elderly • Exercise training as a drug to treat age-associated frailty • Copenhagen consensus statement 2019: physical activity and aging • Muscle repair after physiological damage relies on nuclear migration for cellular reconstruction **Project:** Novel multidomain therapeutic interventions to delay frailty and disability. Identification of molecular mechanisms with translational relevance **Project:** Personalized physical exercise as an intervention to reverse disability in older adults living in residences (RESIFIT) **Thesis title:** A multicomponent exercise program to prevent frailty, and for cognitive, emotional, and social improvement in frail elderly people **Thesis title:** Moderate overexpression of glucose-6-phosphate dehydrogenase improves healthspan in mice. Implications in skeletal muscle regeneration **Thesis title:** Impact of long-term physical exercise on neuroprotection in middle-aged subjects: study of the molecular mechanisms involved

4.3. Research areas

INCLIVA Biomedical Research Institute has four research areas in order to organize its scientific activity. Despite their independence, they have a common objective: meeting health needs and improving R&D&i system.

Their main aim is to establish a common reference framework to promote collaboration between INCLIVA attached researchers.

Each of the lines counts on the participation of one or several advisers from the External Scientific Committee. These lines are led by the following coordinators:

Cardiovascular Area

- **Coordinator:** Mr. Francisco Javier Chorro
- **Mission:** to contribute to the study of different aspects of cardiovascular disease (CVD) from its origins to its consequences.

Oncology Area

- **Coordinator:** Mr. Andrés Cervantes
- **Mission:** to contribute to the study of different aspects of oncological diseases, at the stage of diagnosis and molecular characterization and selection of specific molecular targets of therapeutic interest.

Metabolism and Organic Damage Area

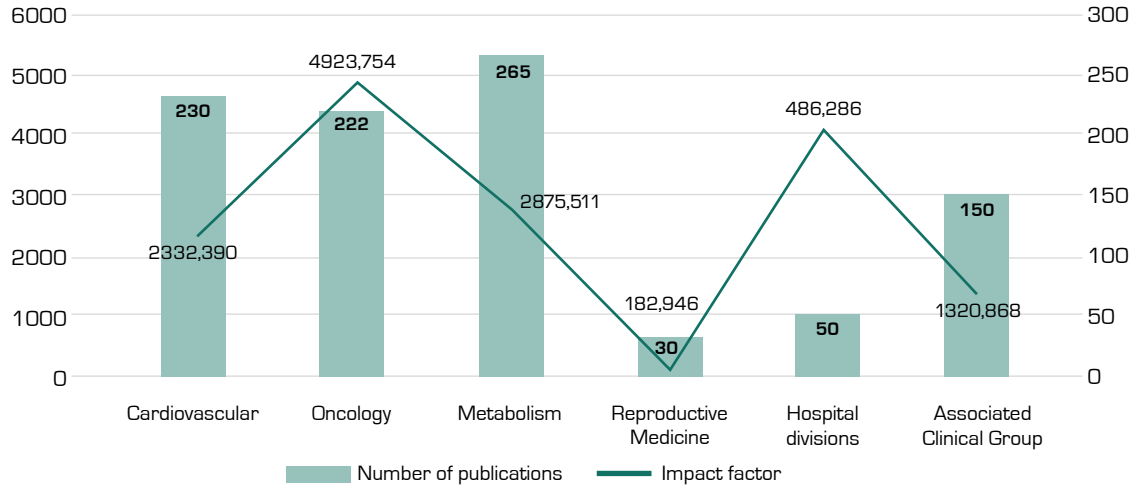
- **Coordinator:** Mr. José Viña
- **Mission:** to contribute to the study of the etiology, pathophysiology and diagnosis mechanisms or treatment of various metabolic diseases; or those that generate organ damage as a fundamental link of its trigger action.

Reproductive Medicine Area

- **Coordinator:** Mr. Carlos Simón
- **Mission:** to advance in knowledge of human reproduction for translational application, improving the efficiency of assisted reproduction treatment and reducing adverse effects.

Scientific production analysis by research area

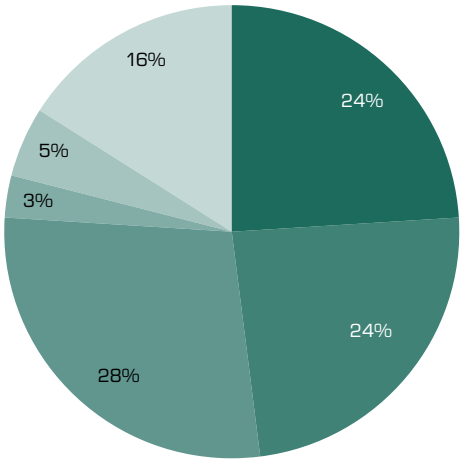
The following charts and figures summarize the main scientific activity indicators of the four areas of research and the other divisions from *Hospital Clínico de Valencia*.



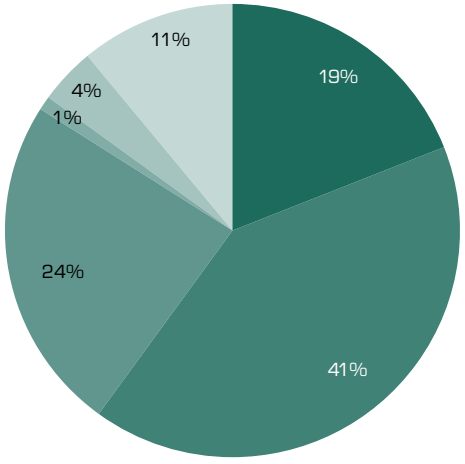
4 scientific activity

Since there are some scientific articles which are shared by two or more areas, it is worth mentioning that the sum of publications by area exceeds INCLIVA's total scientific output. Additionally, the next tables shows scientific publications distribution by area in terms of number of articles and impact factor.

Relative distribution of publications



IF distribution

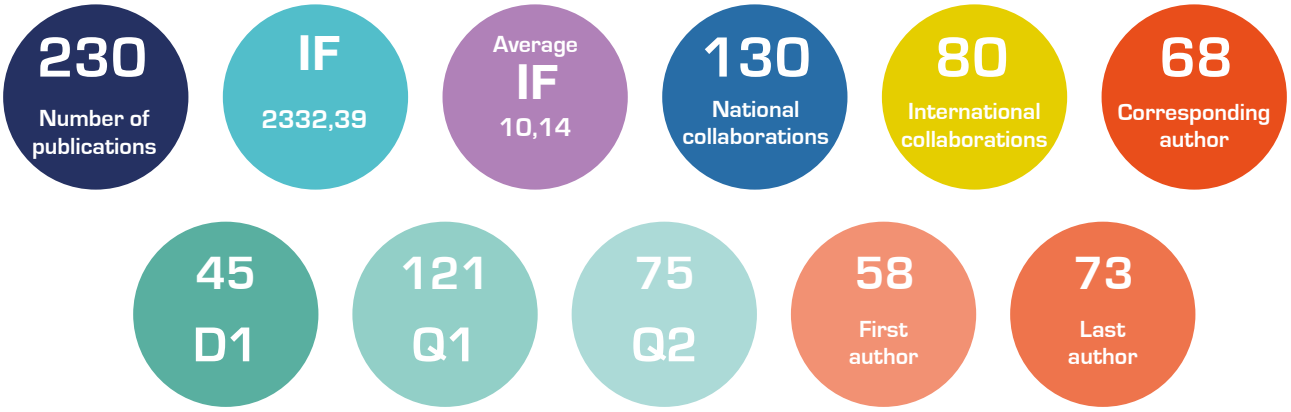


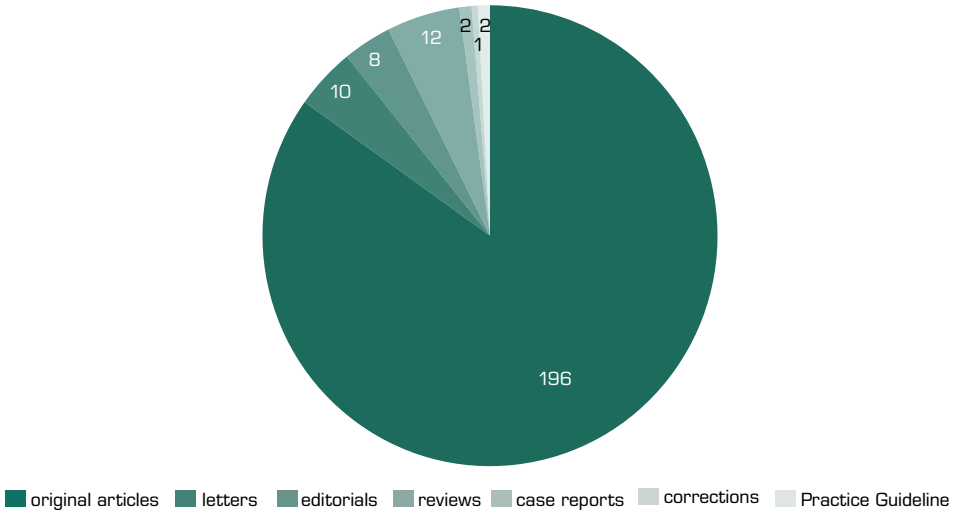


4.3.1 Cardiovascular area

Groups

Research Group on Cardiometabolic Risk and Diabetes
Genomics and Diabetes Unit
Research Group on Cardiac Experimental Electrophysiology
Research Group on Endothelial Cells (LINCE)
Research Group on Clinical Cardiology
Research Group for the Prevention of Cardiovascular Risk in Children and Adolescents
Cardiometabolic Research Group on Primary Care
Research Group on the Study of Cardiometabolic and Renal Risk
Research Group on Vascular Function
Research Group on Pedriatric Nutrition
Group on Translational Research in Ischemic Heart Disease
Research Group on Heart Failure





scientific activity

Research Group on Cardiometabolic Risk and Diabetes
Consolidated group

Group members

Leading Researchers, R4

José Tomás Real Collado

Hospital. University

Sergio Martínez Hervás

Hospital. University

Juan Francisco Ascaso Gimilio

University

Established Researchers, R3

Francisco Javier Ampudia Blasco. Hospital. University

Miguel Civera Andrés. Hospital. University

Emerging Researcher, R2

Vera Lucía Gomes Francisco. INCLIVA

Recognised Researchers, R2

Marta Peiró Signes. INCLIVA. CIBER

Sara Vela Bernal. Hospital

First Stage Researchers, R1

Blanca Alabadí Pardiñes. INCLIVA

Miriam Moriana Hernández. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
2	3	2	3	4

Researchers financed by competitive public calls or networks

R1	R2	STAFF
1	3	3

Team involved in

ciberdem

Staff. Collaborating Researchers

Ana Palanca Palanca. Hospital

Esther Benito Casado. CIBER

Raúl Larriba Salinas. INCLIVA

Staff. Nurse

Pilar Aguilar Santaisabel. Hospital

Strategic aims

In terms of scientific activity of the research group during 2022, our group is participating in the development of this competitive and multidisciplinary research projects that include the following aims:

- Project: Immunopharmacological modulation of the systemic inflammation associated to metabolic disorders. Search for new therapeutic targets and synthesis of novel drugs
- Project: Study of new inflammatory and angiogenic mechanisms associated to severe morbid obesity
- Project: Role of the inflammatory processes in metabolic diseases and associated complications
- Project: Evaluation of the efficacy of pharmacogenetics to improve the response to treatment in subjects with insufficiently controlled type 2 diabetes

Main lines of research

- Role of inflammatory axes in the modulation of metabolic and vascular dysfunctions in obesity, insulin resistance and diabetes
- Primary dyslipidemias: molecular mechanisms, insulin resistance and novel therapeutic targets
- Ageing, frailty, sarcopenia and neurodegeneration in people with diabetes
- New diabetes technologies
- Pharmacogenetic-based personalized treatment in diabetes
- Applying Big Data and Artificial Intelligence technologies to analyze cardiovascular risk in dyslipidemia and diabetes
- Adipokines, inflammatory axes, new therapeutic targets and cardiovascular risk in metabolic fatty liver disease
- Body composition analysis

- effect of body composition analysis, vascular risk and treatment in people with diabetes
- impact of body composition analysis on prognosis, quality of life and therapeutic response in onco-hematological patients

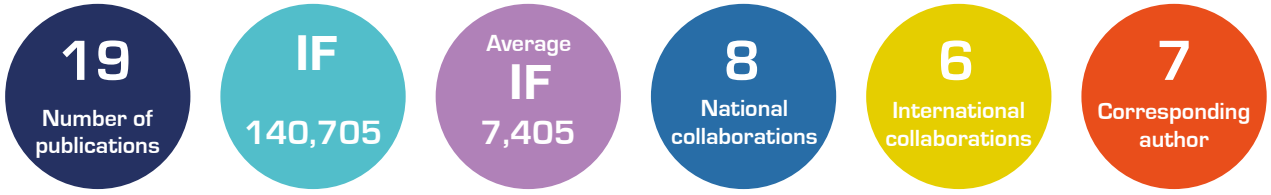
• NAFLD (non-alcoholic fatty liver disease) and metabolic diseases

Emerging Researcher

Vera Lucía Gomes Francisco

Her work focuses on establishing new biomarkers and therapeutic targets in metabolic and cardiovascular diseases, highlighting the role of new adipokines and inflammatory axes.78

PUBLICATIONS



SELECTED PUBLICATIONS

1. Danne T, Ampudia-Blasco FJ, Mathieu C. Diabetes and the WHO Model List of Essential Medicines. Lancet Diabetes & Endocrinology. 2022 Jan;10(1):18-19. doi: 10.1016/S2213-8587(21)00322-3. PMID: 34919865. IF: 44,867

2. Palanca A, van Nes F, Pardo F, Ampudia Blasco FJ, Mathieu C. Real-world evidence of efficacy and safety of SGLT2 inhibitors as adjunctive therapy in adults with Type 1 Diabetes: an European two-center experience. Diabetes Care. 2022 Mar 1;45(3):650-658. doi: 10.2337/dc21-1584. PMID: 35061022. IF: 17,152

3. Martinez-Hervas S, Morales-Suarez-Varela MM, Andres-Blasco I, Lara-Hernandez F, Peraita-Costa I, Real JT, Garcia-Garcia AB, Chaves FJ. Developing a simple and practical decision model to predict the risk of incident type 2 diabetes among the general population: the Di@bet.es Study. European Journal of Internal Medicine. 2022 Aug;102:80-87. doi: 10.1016/j.ejim.2022.05.005. PMID: 35570127. IF: 7,749

4. Marques P, Domingo E, Rubio A, Martinez-Hervas S, Ascaso JF, Piqueras L, Real JT, Sanz MJ. Beneficial effects of PCSK9 inhibition with alirocumab in familial hypercholesterolemia involve modulation of new immune players. Biomedicine & Pharmacotherapy. 2022 Jan;145:112460. doi: 10.1016/j.biopha.2021.112460. PMID: 34864314. IF: 7,419

5. Garcia-Garcia A, Martinez-Hervas S, Vernia S, Ivorra C, Pulido I, Martin-Escudero J, Casado M, Carretero J, Real J, Chaves F. A very rare variant in SREBF2, a possible cause of hypercholesterolemia and increased glycemic levels. Biomedicines. 2022 May 19;10(5):1178. doi: 10.3390/biomedicines10051178. PMID: 35625914. IF: 4,757

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/00220
Title: *Estudio de nuevos ejes de quimiocinas como potenciales dianas de intervención en la obesidad y la resistencia a la insulina*
Principal Investigator: Laura Piqueras Ruiz and José Tomas Real Collado
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €204.490

Reference: ICI21/00020
Title: *Evaluación de la eficacia de la farmacogenética para mejorar la respuesta al tratamiento en sujetos con diabetes tipo 2 insuficientemente controlada*
Principal Investigator: Sergio Martínez Hervás
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2025
Total budget: €267.300

Reference: PMP21/00076
Title: *ImpactT2D: una estrategia genómica para implementar medicina de precisión en la diabetes tipo 2*
Principal Investigator: Felipe Javier Chaves Martínez and Sergio Martínez Hervás
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2025
Total budget: €106.700

Reference: PI19/00169
Title: *Papel de los procesos inflamatorios en las enfermedades metabólicas y en las complicaciones asociadas*
Principal Investigator: Herminia González Navarro and Sergio Martínez Hervás
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €159.720

Reference: PI18/00209
Title: *Identificación de nuevos mecanismos implicados en la angiogénesis e inflamación en pacientes obesos. Modulación por ligandos de receptores nucleares constitutivos de androstano*
Principal Investigator: Laura Piqueras Ruiz and José Tomas Real Collado
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €173.332,50

Reference: CB07/08/0018
Title: *CIBER de Diabetes y Enfermedades Metabólicas Asociadas* (CIBERdem)
Principal Investigator: José Tomas Real Collado
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2008-

Reference: PROMETEO/2019/032
Title: *Una aproximación traslacional desde la clínica a la experimentación animal: estudio del papel del eje CCL11/CCR3 y la inflamación eosinofílica en la patología cardiovascular asociada a desórdenes metabólicos*
Principal Investigator: Mª Jesús Sanz Ferrando (José Tomás, Sergio Martínez as collaborating researchers)
Funding Body: *Conselleria de Educación Cultura y Deporte*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total budget: €211.736

Reference: INVEST/2022/470
Title: *Investigación en Enfermedades Inflamatorias*
Principal Investigator: Vera Lucía Gomes Francisco
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.217,84

THESIS

Thesis title: *La ecografía Doppler con flujo en color en el diagnóstico, tratamiento y pronóstico de la enfermedad de Graves-Basedow*
Doctoral candidate: Olalla Rubio Puchol
Director(s): Agustín Ángel Merchante Alfaro, Sergio Martínez Hervás
Date of the defense: 25/01/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: Effect of SGLT-2 inhibition in abdominal aortic aneurysm development. Role of rora in adipose tissue inflammation associated to obesity
Doctoral candidate: Rebeca Ortega Herráiz
Director(s): Laura Piqueras Ruiz, María Jesús Sanz Ferrando, José Tomás Real Collado
Date of the defense: 21/02/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: *Estudio de la sarcopenia y la fragilidad en una población diabética de edad avanzada y su relación con parámetros de estrés oxidativo*
Doctoral candidate: Blanca Alabadí Pardiñes
Director(s): Jose Tomás Real Collado, Miguel Civera Andrés
Date of the defense: 11/11/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Genomics and Diabetes Unit
Consolidated group

Group members

Leading Researcher, R4
Felipe Javier Chaves Martínez
INCLIVA

Established Researcher, R3
Jesús Rodríguez Díaz. University

Recognised Researchers, R2
Ana Bárbara García García. CIBER
Roberto Gozalbo Rovira. University

First Stage Researchers, R1
Azahara Mª Fuentes Trillo. INCLIVA
Celeste Moya Valera. INCLIVA
Cristina Santiso Bellón. University
Fran Lara Hernández. INCLIVA
Mª Elena Quiroz Rodríguez. INCLIVA
Nazaret Peña Gil. University
Rebeca Melero Valverde. INCLIVA
Roberto Cárcamo Calvo. University
Soraya García Sorribes. INCLIVA

Staff. Collaborating Researcher
Ingrid Lizeth Valarezo Torres. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



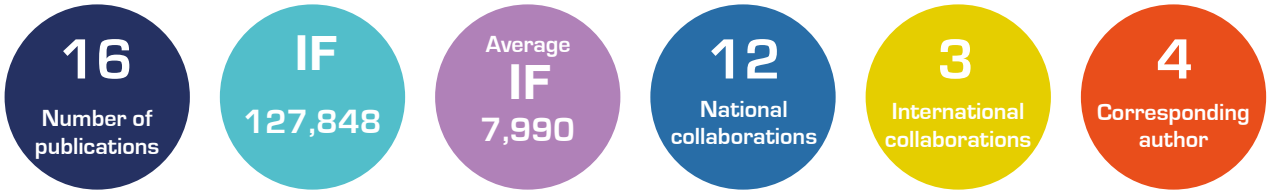
Strategic aims
- Identify genetic and environmental factors involved in the development of type 2 diabetes and related diseases
- Identify alterations of methylation and hydroxymethylation in relation to the development of type 2 diabetes and its potential use as biomarkers
- Identify genetic causes of rare diseases: Abeta, ATA and hereditary forms of hypercholesterolemias not caused by known genes
- Study of environmental factors involved in the development of diseases of high cardiovascular risk, especially type 2 diabetes and associated organic damage
- Development of fast and easy procedures for SARS-CoV2 (COVID19) detection and characterization (including the analysis of the main human genetic variations involved in COVID19)

Main lines of research
- Identification of frequent and rare functional variants involved in high cardiovascular risk disease development and their interaction with environmental factors
- Genotyping and/or sequencing of complete rotavirus and norovirus genomes. Human genotype study of FUT2 and FUT3 genes related to viral genotypes and their relationship with intestinal microbiota
- Analysis of methylated and hydroxymethylated regions in the genome in patients with specific phenotypes at baseline compared

with phenotypes present five years later, as pertains to type 2 diabetes

- Monitoring and molecular characterization of chronic lymphocytic leukaemia and study of molecular markers
- Identification of relationships between different genes, essential metals and pollutants in relation to type 2 diabetes and related traits

PUBLICATIONS



SELECTED PUBLICATIONS

1. Galvez-Fernandez M, Sanchez-Saez F, Domingo-Relloso A, Rodriguez-Hernandez Z, Tarazona S, Gonzalez-Marrachelli V, Grau-Perez M, Morales-Tatay J, Amigo N, Garcia-Barrera T, Gomez-Ariza J, Chaves F, Garcia-Garcia A, Melero R, Tellez-Plaza M, Martin-Escudero J, Redon J, Monleon D. Gene-environment interaction analysis of redox-related metals and genetic variants with plasma metabolic patterns in a general population from Spain: the Hortega Study. Redox Biology. 2022 Jun;52:102314. doi: 10.1016/j.redox.2022.102314. PMID: 35460952. IF: 10,787

2. Moya-Gonzalvez E, Pena-Gil N, Rubio-del-Campo A, Coll-Marques J, Gozalbo-Rovira R, Monedero V, Rodriguez-Diaz J, Yebra M. Infant gut microbial metagenome mining of alpha-l-fucosidases with activity on fucosylated human milk oligosaccharides and glycoconjugates. Microbiology Spectrum. 2022 Aug 31;10(4):e0177522. doi: 10.1128/spectrum.01775-22. PMID: 35943155. IF: 9,043

3. Martinez-Hervas S, Morales-Suarez-Varela MM, Andres-Blasco I, Lara-Hernandez F, Peraita-Costa I, Real JT, Garcia-Garcia AB, Chaves FJ. Developing a simple and practical decision model to predict the risk of incident type 2 diabetes among the general population: The Di@bet.es Study. European Journal of Internal Medicine. 2022 Aug;102:80-87. doi: 10.1016/j.ejim.2022.05.005. PMID: 35570127. IF: 7,749

4. Garcia-Garcia A, Martinez-Hervas S, Vernia S, Ivorra C, Pulido I, Martin-Escudero J, Casado M, Carretero J, Real J, Chaves F. A very rare variant in SREBF2, a possible cause of hypercholesterolemia and increased glycemic levels. Biomedicines. 2022 May 19;10(5):1178. doi: 10.3390/biomedicines10051178. PMID: 35625914. IF: 4,757

5. Usategui-Martin R, Perez-Castrillon J, Mansego M, Lara-Hernandez F, Manzano I, Briongos L, Abadia-Otero J, Martin-Vallejo J, Garcia-Garcia A, Martin-Escudero J, Chaves F. Association between genetic variants in oxidative stress-related genes and osteoporotic bone fracture. Gene. 2022 Jan 30;809:146036. doi: 10.1016/j.gene.2021.146036. PMID: 34688818. IF: 3,913

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PMP21/00076

Title: *ImpactT2D: una estrategia genómica para implementar medicina de precisión en la diabetes tipo 2*

Principal Investigator: Felipe Javier Chaves Martínez

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2025

Total budget: €106.700

Reference: PI21/00506

Title: *Estudio multifactorial para la identificación de nuevos factores genéticos y no genéticos mediante la secuenciación del exoma y técnicas de inteligencia artificial*

Principal Investigator: Felipe Javier Chaves Martínez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €183.920

Reference: PID2020-115403RB-C22
Title: *Glicosil hidrolasas bacterianas y su función en la infectividad viral*
Principal Investigator: Jesús Rodríguez Díaz
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2024
Total budget: €160.930

Reference: AICO/2021/033
Title: Role of host mucosal glycosylation in SARS-CoV-2 infectivity
Principal Investigator: Jesús Rodríguez Díaz
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2024
Total budget: €90.000

Research Group on Cardiac Experimental Electrophysiology
Consolidated group

Group members

Leading Researchers, R4

Francisco Javier Chorro Gascó

Hospital. University

Antonio M. Alberola Aguilar. University

Luis Such Belenguer. University

Recognised Researchers, R2

Irene del Canto Serrano. INCLIVA

Isabel Trapero Gimeno. University

Luis Such Miquel. University

Manuel Zarzoso Muñoz. University

First Stage Researcher, R1

Óscar Julián Arias Mutis. CIBER

Researchers by categories

R1	R2	R4
1	4	3

Researchers financed by competitive public calls or networks

R1	R2
1	1

Team involved in

ciber cv

Strategic aims

- Publication of the results obtained on using the 1,4-benzothiazepine derivative JTV-519 to modify the proarrhythmogenic manifestations of mechanoelectric feedback and continuation of the programmed experimental series to analyze the effects of KN-93, carvedilol and analogues, late Na+ current inhibitors and the Nitric Oxide carrier S-nitrosoglutathione
- Continuation of the analysis of the effects of modifications of the basic electrophysiological properties on the processes involved in the induction and maintenance of ventricular fibrillation
- Analysis of the electrophysiological effects of chronic physical exercise and its protective effect against arrhythmias, the influence of the cardiac nervous system and mitochondrial oxidative stress and the involvement of the IKATP current
- Development of instruments for recording, processing and analysing cardiac electrophysiological signals obtained with mapping systems
- Progressive development of the experimental series aimed to study the mechanisms involved in the deterioration of the systolic function, fibrosis and the inducibility of arrhythmias in a chronic model of infarction
- Progressive development of an experimental model of metabolic syndrome to analyze the electrophysiological modifications and the inducibility of cardiac arrhythmias

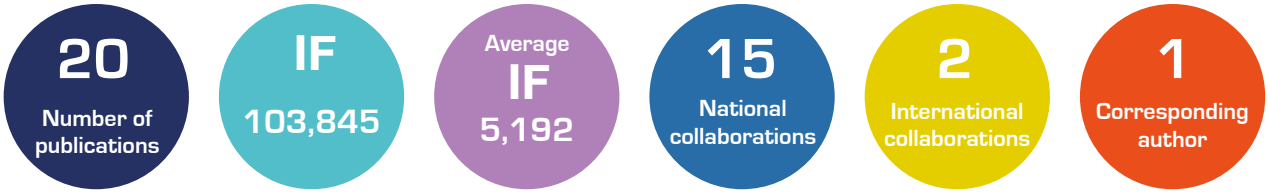
Main lines of research

- Myocardial stretching: analysis of electrophysiological changes induced by mechanical stretching. Autocrine/paracrine influences and study of protective actions by means of drugs
- Clinical and basic research on heart failure: role of calcium homeostasis in arrhythmogenesis. Study on the effects of drugs acting on intracellular Ca2+ dynamics
- Analysis of the effects of modifications in basic electrophysiological properties on the processes involved in induction and maintenance of ventricular fibrillation

scientific activity

- Study of electrophysiological effects of chronic physical activity by: a) analysis of the protection against arrhythmias or scientific activity facilitation of its reversion; b) study of the influence of heart's nervous system and mitochondrial oxidative stress; and c) analysis of the effects on the electrical instability induced by myocardial ischemia and the implication of IKATP current
- Development and extension of tools for the registration, processing and analysing of cardiac electrophysiological signals based on multielectrodes and optical mapping systems able to analyze voltage and calcium signals
- Study of mechanisms involved in the deterioration of the systolic function, fibrosis and the inducibility of arrhythmias in a chronic model of infarction
- Study of electrophysiological modifications and inducibility of cardiac arrhythmias in an experimental model of metabolic syndrome

PUBLICATIONS



SELECTED PUBLICATIONS

1. Gabaldón-Pérez A, Marcos-Garcés V, Gavara J, López-Lereu MP, Monmeneu JV, Pérez N, Ríos-Navarro C, De Dios E, Merenciano-González H, Cànoves J, Racugno P, Bonanad C, Minana G, Núnez J, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Ortiz-Pérez JT, Rodríguez-Palomares JF, Bodí V. Prognostic value of cardiac magnetic resonance early after ST-segment elevation myocardial infarction in older patients. Age and Ageing. 2022 Nov 2;51(11):afac248. doi: 10.1093/ageing/afac248. PMID: 36436010. IF: 12,782

2. Gavara J, Perez N, Marcos-Garces V, Monmeneu J, Lopez-Lereu M, Rios-Navarro C, de Dios E, Bonanad C, Canoves J, Moratal D, Palau P, Minana G, Nunez J, Chorro F, Bodi V. Combined assessment of stress cardiovascular magnetic resonance and angiography to predict the effect of revascularization in chronic coronary syndrome patients. European Journal of Preventive Cardiology. 2022 Mar 11;29(2):407-416. doi: 10.1093/eurjpc/zwab170. PMID: 34686874. IF: 8,526

3. Del Canto I, Santas E, Cardells I, Minana G, Palau P, Llacer P, Facila L, Lopez-Vilella R, Almenar L, Bodi V, Lopez-Lereu M, Monmeneu J, Sanchis J, Moratal D, Maceira A, de la Espriella R, Chorro F, Bayes-Genis A, Nunez J. Short-term changes in left and right ventricular cardiac magnetic resonance feature tracking strain following ferric carboxymaltose in patients with heart failure: a substudy of the Myocardial-IRON Trial. Journal of the American Heart Association. 2022 Apr 5;11(7):e022214. doi: 10.1161/JAHA.121.022214. PMID: 35301854. IF: 6,106

4. Gavara J, Marcos-Garces V, Lopez-Lereu, MP, Monmeneu JV, Rios-Navarro C, de Dios E, Perez N, Merenciano H, Gabaldon A, Canoves J, Racugno P, Bonanad C, Minana G, Nunez J, Nunez E, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Rodriguez-Palomares JF, Ortiz-Perez JT, Bodi V. Magnetic resonance assessment of left ventricular ejection fraction at any time post-infarction for prediction of subsequent events in a large multicenter STEMI Registry. Journal of Magnetic Resonance Imaging. 2022 Aug;56(2):476-487. doi: 10.1002/jmri.27789. PMID: 34137478. IF: 5,119

5. Palau P, Nunez J, Monmeneu J, Lopez-Lereu M, Gavara J, Rios-Navarro C, de Dios E, Perez-Sole N, Marcos-Garces V, Dominguez E, Moratal D, Canoves J, Minana G, Chorro F, Bodi V. Sex effect in the decision to perform invasive coronary angiography in patients with chronic coronary syndrome after undergoing vasodilator stress MRI. Journal of Magnetic Resonance Imaging. 2022 Dec;56(6):1680-1690. doi: 10.1002/jmri.28163. PMID: 35344231. IF: 5,119

4 scientific activity

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/01984
Title: *Efectos de la inhibición de SGLT2 sobre el remodelado auricular producido por el síndrome metabólico y su sustrato arritmogénico. Estudio experimental*
Principal Investigator: Francisco Javier Chorro Gascó and Manuel Zarzoso Muñoz
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €99.220

Reference: CB16/11/00486
Title: *Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV)*
Principal Investigator: Francisco Javier Chorro Gascó
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2017-

Title: *Resonancia magnética cardíaca de estrés con vasodilatadores para predecir la mortalidad a largo plazo en un amplio registro retrospectivo de pacientes con cardiopatía isquémica conocida o sospechada*
Principal Investigator: Vicent Bodí Peris (Francisco J Chorro Gascó as collaborating researcher)
Funding body: *Sociedad Española de Cardiología*
Beneficiary Institution: *Fundación Investigación del Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €15.000

Research Group on Endothelial Cells (LINCE)
Consolidated group

Group members

Leading Researchers, R4

Carlos Hermenegildo Caudevilla

University

Susana Novella del Campo

University

Recognised Researchers, R2

Daniel Bernardo Pérez Cremades. University

Elena Monsalve Villalba. University

Researchers by categories

R2 2

R4 2

Researchers financed by competitive public calls or networks

R2 1

http://www.uv.es/lince/SP/index.html

Strategic aims

- To analyze the levels of selected miRNA of acute myocardial infarction patients included in the studies of PI19/01714
- To analyze the role of estrogen receptors on the regulation of miRNA by estradiol
- To tune the experimental surgical procedure of AMI in the SAMR1/SAMP8 murine senesence model, which will allow us to evaluate the vascular effect of aging and sex and to verify that the change in expression of some miRNA observed in humans with AMI is reproduced
- To incorporate new pre and postdoctoral researchers to our group

Main lines of research

- Sex differences in cardiovascular research
- Vascular effects of sex hormones
- Identification of new sex hormone-regulated signaling pathways in endothelium
- Identification and characterization of estradiol-regulated miRNA in endothelium and acute myocardial infarction murine model
- Interaction of sex hormones with pro-atherogenic factors

PUBLICATIONS

14 Number of publications

IF 109,952

Average IF 7,853

2 National collaborations

11 International collaborations

3 Corresponding author

SELECTED PUBLICATIONS

1. Perez-Cremades D, Chen J, Assa C, Feinberg M. MicroRNA-mediated control of myocardial infarction in diabetes. Trends in Cardiovascular Medicine. 2022 Jan 17:S1050-1738(22)00006-8. doi: 10.1016/j.tcm.2022.01.004. PMID: 35051592. IF: 8,049

2. Mompeon A, Perez-Cremades D, Paes A, Sanchis J, Ortega-Paz L, Andrea R, Brugaletta S, Sabate M, Novella S, Dantas A, Hermenegildo C. Circulating miRNA fingerprint and endothelial function in myocardial infarction: comparison at acute event and one-year follow-up. Cells. 2022 Jun 2;11(11):1823. doi: 10.3390/cells11111823. PMID: 35681518. IF: 7,666

3. Robinson EL, Novella S. Editorial: Genetic and gene regulation underlying sex differences in cardiovascular disease. Frontiers in Cardiovascular Medicine. 2022 Apr 11;9:881154. doi: 10.3389/fcvm.2022.881154. PMID: 35479282. IF: 5,848

4. McCoy MG, Perez Cremades D, Belkin N, Peng W, Zhang B, Chen J, Sachan M, Wara AKMK, Zhuang R, Cheng HS, Feinberg MW. A miRNA cassette reprograms smooth muscle cells into endothelial cells. FASEB Journal. 2022 Apr;36(4):e22239. doi: 10.1096/fj.202101872R. PMID: 35235229. IF: 5,834

5. Perez-Cremades D, Bueno-Beti C, Garcia-Gimenez J, Ibanez-Cabellos J, Pallardo F, Hermenegildo C, Novella S. Extracellular histones trigger oxidative stress-dependent induction of the NF-kB/CAM pathway via TLR4 in endothelial cells. Journal of Physiology and Biochemistry. 2022 Dec 5. doi: 10.1007/s13105-022-00935-z. PMID: 36464762. IF: 5,08

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: COST Action CA21153
Title: Network for implementing multiomics approaches in atherosclerotic cardiovascular disease prevention and research (AtheroNET)
Principal Investigator: Paolo Magni (Susana Novella as collaborating researcher)
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2025

Reference: COST Action CA17129
Title: Catalysing transcriptomics research in cardiovascular disease
Principal Investigator: Yvan Devaux (Susana Novella as collaborating researcher)
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2018-2023

Reference: PI19/01714
Title: *Regulación dependiente de sexo y estrógenos en el síndrome coronario agudo e impacto funcional en células endoteliales humanas. Nuevos biomarcadores para prevención primaria*
Principal Investigator: Carlos Hermenegildo and Susana Novella
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total Budget: €159.720

Reference: CIGE/2021/158
Title: *Caracterización de un modelo murino experimental de insuficiencia cardiaca para estudios transcriptómicos*
Principal Investigator: Daniel Pérez Cremades
Funding body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary institution: *Universidad de Valencia*
Duration: 2022-2023
Total Budget: €20.000

Reference: AICO/2021/211
Title: *Análisis funcional de las rutas de señalización vascular reguladas por miRNA sensibles a estrógenos*
Principal Investigator: Susana Novella Del Campo and Carlos Hermenegildo Caudevilla
Funding body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary institution: *Universidad de Valencia*
Duration: 2022-2024
Total Budget: €90.000

Research Group on Clinical Cardiology
Consolidated group

Group members

Leading Researcher, R4
Juan Sanchis Forés
Hospital. University

Established Researcher, R3
Vicente Ruiz Ros. Hospital

Recognised Researchers, R2
Anna Mollar Fernández. INCLIVA
Ernesto Valero Picher. Hospital
Sergio García Blas. Hospital

First Stage Researcher, R1
Jessika Ariadnna González D' Gregorio. Hospital

Staff. Collaborating Researcher
Agustín Fernández Cisnal. Hospital

Staff. Nurses
Beatriz Silla Sobrecases. Hospital
Georgina Zaharia. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
1	3	1	1	3

Researchers financed by competitive public calls or networks

R1	R2
1	1

Team involved in

ciberCV

Strategic aims

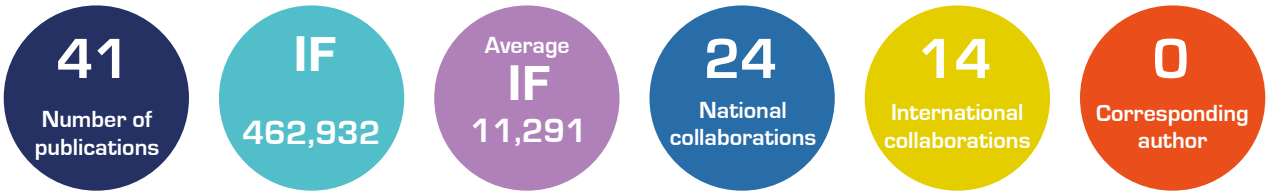
- Publication of manuscripts in high IF journals
- CIBER Cardiovascular
- Development of FIS projects

Main lines of research

- Research line in heart failure:
  - Beta blocker treatment withdrawal in patients with heart failure with preserved systolic function and evidence of chronotropic incompetence
  - Short-term effects of dapagliflozin on peak oxygen consumption in type 2 diabetic patients with heart failure with reduced systolic function
- Research line in acute coronary syndrome: randomized comparison between invasive and conservative strategies in frail elderly patients with non-ST-segment elevation myocardial infarction (MOSCA-FRAIL)
- Investigation line in interventional cardiology: effect of changes in antigen carbohydrate 125 levels before percutaneous aortic valve prosthesis implant on prognosis after implantation
- Plaque modification in calcified chronic total occlusions: the PLACCTON study
- Prospective application of a bleeding and ischemic risks-adjusted antithrombotic protocol in elderly patients revascularized with everolimus-eluting stents: EPIC05-Sierra75 study

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Castellano J, Pocock S, Bhatt D, Quesada A, Owen R, Fernandez-Ortiz A, Sanchez P, Ortuno F, Rodriguez J, Domingo-Fernandez A, Lozano I, Roncaglioni M, Baviera M, Foresta A, Ojeda-Fernandez L, Colivicchi F, Di Fusco S, Doehner W, Meyer A, Schiele F, Ecarnot F, Linhart A, Lubanda J, Barczi G, Merkely B, Ponikowski P, Kasprzak M, Alvira J, Andres V, Bueno H, Collier T, Van de Werf F, Perel P, Rodriguez-Manero M, Garcia A, Proietti M, Schoos M, Simon T, Ferro J, Lopez N, Beghi E, Bejot Y, Vivas D, Cordero A, Ibanez B, Fuster V. Polypill strategy in secondary cardiovascular prevention. New England Journal of Medicine. 2022 Sep 15;387(11):967-977. doi: 10.1056/NEJMoa2208275. PMID: 36018037. IF: 176,079

2. Romaguera R, Salinas P, Gomez-Lara J, Brugaletta S, Gomez-Menchero A, Romero M, Garcia-Blas S, Ocaranza R, Bordes P, Kockar M, Salvatella N, Jimenez-Diaz V, Alameda M, Trillo R, Lee D, Martin P, Lopez-Benito M, Freites A, Pascual-Tejerina V, Hernandez-Hernandez F, Del Blanco B, Mohandes M, Bosa F, Pinar E, Roura G, Comin-Colet J, Fernandez-Ortiz A, Macaya C, Rossello X, Sabate M, Pocock S, Gomez-Hospital J, SUGAR Trial Investigators. Amphilimus- vs. zotarolimus-eluting stents in patients with diabetes mellitus and coronary artery disease: the SUGAR trial. European Heart Journal. 2022 Mar 31;43(13):1320-1330. doi: 10.1093/eurheartj/ehab790. PMID: 34735004. IF: 35,855

3. De la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,349

4. Palau P, Amiguet M, Dominguez E, Sastre C, Mollar A, Seller J, Pinilla J, Larumbe A, Valle A, Doblas J, de la Espriella R, Minana G, Mezcua A, Santas E, Bodi V, Sanchis J, Pascual-Figal D, Gorriz J, Bayes-Genis A, Nunez J. Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-VO2): a randomized clinical trial. European Journal of Heart Failure. 2022 Oct;24(10):1816-1826. doi: 10.1002/ejhf.2560. PMID: 35604416. IF: 17,349

5. Amat-Santos I, Sanchez-Luna J, Abu-Assi E, Melendo Viu M, Cruz-Gonzalez I, Nombela-Franco L, Munoz Garcia A, Garcia Blas S, de la Torre Hernandez J, Romaguera R, Sanchez-Recalde A, Diez Gil J, Lopez Otero D, Gheorge L, Ibanez B, Iniguez Romo A, Raposeiras-Roubin S, Dapagliflozin after Transcatheter Aortic Valve Implantation (DapaTAVI), investigators. Rationale and design of the dapagliflozin after transcatheter aortic valve implantation (DapaTAVI) randomized trial. European Journal of Heart Failure. 2022 Mar;24(3):581-588. doi: 10.1002/ejhf.2370. PMID: 34693613. IF: 17,349

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI18/01138

Title: *Efecto de la modificación de los niveles de antígeno carbohidrato 125 antes del implante de prótesis valvular aórtica percutánea sobre el pronóstico tras el implante*

Principal Investigator: Juan Sanchis Forés

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2019-2022

Total budget: €57.475

Reference: CB16/11/00420

Title: *Centro de Investigación Biomédica en Red de Enfermedades Cardiovasculares (CIBERCV)*

Principal Investigator: Juan Sanchis Forés

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2017-

Reference: AP-2021-016

Title: *BREIC: Identificación de biomarcadores del eje corazón-microbiota-sistema inmune por RMN para la estratificación de pacientes con insuficiencia cardiaca*

Principal Investigator: Vannina González Marrachelli and Anna Mollar Fernández
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

THESIS

Thesis title: *Historia clínica y niveles indetectables de troponina de alta sensibilidad en la evaluación del riesgo de pacientes con dolor torácico agudo y primera determinación de troponina normal*
Doctoral candidate: Ernesto Valero Picher
Director(s): Juan Sanchis Forés, Julio Núñez Villota
Date of the defense: 28/01/2022
Grade: *Sobresaliente "cum laude"*

Research Group for the Prevention of Cardiovascular Risk in Children and Adolescents Consolidated group

Group members

Leading Researcher, R4

Empar Lurbe i Ferrer

University

Established Researchers, R3

Francisco Aguilar Bacallado. University

Isabel Torró Doménech. University

Recognised Researchers, R2

Christine Deutsch. CIBER

Julio Álvarez Pitti. University

First Stage Researcher, R1

Ana de Blas Zapata. University

Staff. Collaborating Researchers

Juan José Alcón Sáez. University

Nuria García Carbonell. University

Rafael Gómez Zafra. University

Researchers by categories

R1	R2	R3	R4	STAFF
1	2	2	1	4

Researchers financed by competitive public calls or networks

R2	STAFF
1	1

Team involved in

ciberobn

Staff. Technician

Francisco Ponce Zanón. CIBER

Strategic aims

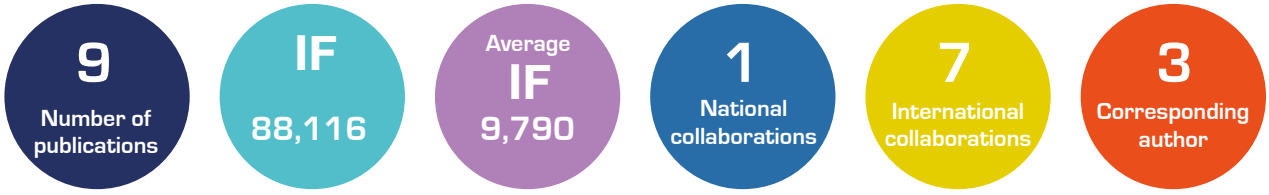
- The iPEDITEC Unit brings healthcare workers into daily contact with engineers developing software for signal capture through mobile devices. Studying the psychological parameters that facilitate personalized therapy has been a priority aim during 2022, resulting in improved treatment of obese pediatric patients in the Unit
- The PAIDO Program is focused on personalized medical care extended through initiatives involving family, educators, nutritionists, physical education teachers and other social agents. Treatment goes beyond the hospital setting to include the child´s environment and personal sphere and is supported by state-of the art artificial intelligence technologies
- To improve the knowledge of fetal life and postnatal growth on the development of cardiometabolic risk factors early in life. The KITE cohort is a prospective study starting at birth and assessing the determinants of cardiometabolic risk factors in the first decades of life. Omics data from umbilical cord are available and the analysis of the interaction between clinical data and omics may help to introduce actions in critical periods of life and the potential contribution to reduce cardiometabolic disease later in life. Mrs. Lurbe is the coordinator of the new document of the European Guidelines on Arterial Hypertension in Children and Adolescents

Main lines of research

- New technologies applied to the detection of congenital heart diseases and sepsis in asymptomatic newborn babies
- Childhood obesity: new insights in the personalized treatment: study of the cardiorespiratory capacity
- New technologies applied to the treatment of obesity: physical exercise preventing and treating obesity
- Arterial hypertension in children and adolescents
- Cardiovascular and renal risk in diabetes
- Early origins of cardiometabolic risk factors assessed in a prospective study starting at birth (Cohort KITE)
- HyperChildNET: European Network for Research on Blood Pressure in Children and Adolescents

scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. De Simone G, Mancusi C, Hanssen H, Genovesi S, Lurbe E, Parati G, Sendzikaite S, Valerio G, Di Bonito P, Di Salvo G, Ferrini M, Leeson P, Moons P, Weismann C, Williams B. Hypertension in children and adolescents a consensus document from ESC Council on Hypertension, European Association of Preventive Cardiology, European Association of Cardiovascular Imaging, Association of Cardiovascular Nursing & Allied Professions, ESC Council for Cardiology Practice and Association for European Paediatric and Congenital Cardiology. European Heart Journal. 2022 Sep 14;43(35):3290-3301. doi: 10.1093/eurheartj/ehac328. PMID: 35896123. IF: 35,855
2. Lurbe E, Redon J, Alvarez J, Grau-Perez M, Martinez F, Mancia G. Insights from matched office and ambulatory blood pressure in youth: clinical relevance. Hypertension. 2022 Mar 29;101161HYPERTENSIONAHA12218993. doi: 10.1161/HYPERTENSIONAHA.122.18993. PMID: 35345885. IF: 9,897
3. Borghi C, Agnoletti D, Cicero A, Lurbe E, Virdis A. Uric acid and hypertension: a review of evidence and future perspectives for the management of cardiovascular risk. Hypertension. 2022 Sep;79(9):1927-1936. doi: 10.1161/HYPERTENSIONAHA.122.17956. PMID: 35658505. IF: 9,897
4. Desdentado L, Navarrete J, Folgado-Alufre M, de Blas A, Navarro-Siurana J, Ponce F, Molinari G, Jimeno-Martinez A, Ruperez A, Bueno-Lozano G, Cuenca-Royo A, Corbella E, Aguera Z, Banos R, Alvarez-Pitti J. Are peripheral biomarkers determinants of eating styles in childhood and adolescence obesity?. A cross-sectional study. Nutrients. 2022 Jan 12;14(2):305. doi: 10.3390/nu14020305. PMID: 35057485. IF: 6,706
5. Alvarez-Pitti J, Herceg-Cavrak V, Wojcik M, Radovanovic D, Brzezinski M, Grabitz C, Wuhl E, Drozdz D, Melk A. Blood pressure response to exercise in children and adolescents. Frontiers in Cardiovascular Medicine. 2022 Sep 30;9:1004508. doi: 10.3389/fcvm.2022.1004508. PMID: 36247478. IF: 5,846

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: COST CA19115
Title: Network for blood pressure research in children and adolescents. HyperChildNET
Principal Investigator: Empar Lurbe i Ferrer
Funding Body: European Commision
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2024

Reference: PI20/00269
Title: *Impacto del peso al nacer y el patrón de crecimiento en los factores de riesgo cardiometabólico en adolescentes postpuberales: aproximación clínica y molecular*
Principal Investigator: Empar Lurbe i Ferrer
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €174.845

Reference: CB06/03/0039
Title: *Centro de Investigación Biomédica en Red de Fisiopatología de la Obesidad y Nutrición (CIBERobn)*
Principal Investigator: Empar Lurbe i Ferrer
Funding Body: *Instituto de Salud Carlos III-Co-financed FEDER*
Beneficiary Institution: *Consorcio Hospital General Universitario de Valencia*
Duration: 2006-

Cardiometabolic Research Group on Primary Care
Consolidated group

Group members

Leading Researcher, R4

Jorge Navarro Pérez
University. Hospital

Researchers by categories



Established Researchers, R3

Alvaro Bonet Pla. Hospital
Carolina Mir Sánchez. University. Clínico-Malvarrosa Health Department
Desamparados Garcés Sánchez. Hospital
Ruth Usó Talamantes. Hospital

Staff. Collaborating Researchers

Aaron Piera Torró. Clínico-Malvarrosa Health Department
Alberto Belenguer Guillot. Clínico-Malvarrosa Health Department
Alex David Misle Morales. Clínico-Malvarrosa Health Department
Alexandre Sorribes Ramírez. Clínico-Malvarrosa Health Department
Carlos Fluixá Carrascosa. University. Clínico-Malvarrosa Health Department
Carlos Momparler Martínez. Clínico-Malvarrosa Health Department
Carmina Martínez Vernia. Clínico-Malvarrosa Health Departament
Celia Poveda Rocamora. Hospital
Cristina Más Lázaro. Clínico-Malvarrosa Health Departament
Diana Vicente Miralles. Clínico-Malvarrosa Health Departament
Eduardo Rovira Cabrera. Clínico-Malvarrosa Health Departament
Enrique Guinot Martínez. Clínico-Malvarrosa Health Departament
Esther Carrión Albert. Hospital
Eugenia Avelino Hidalgo. Hospital
Idoia Aramburu Aizpiri. Clínico-Malvarrosa Health Departament
Ignacio Ramos Manuel. Hospital
Irene Marco Moreno. Clínico-Malvarrosa Health Departament
Isabel Gabaldón Sánchez. University. Clínico-Malvarrosa Health Departament
José Luis Trillo Mata. Hospital
Laura Almudéver Campo. Clínico-Malvarrosa Health Departament
Lucía Navarro Salvador. Clínico-Malvarrosa Health Departament
Mª Dolores Seligra Borrull. Hospital
Mª José Puchades Company. Clínico-Malvarrosa Health Department
Margarita Giménez Loreiro. Clínico-Malvarrosa Health Department
María Aóda Andreu Lledó. Hospital
María Ferrus Domingo. Clínico-Malvarrosa Health Department
María José Garzón Nieto. Clínico-Malvarrosa Health Department
Marina Gimeno Gimeno. Hospital
Marisa Calabuig Muñoz. Clínico-Malvarrosa Health Department
Nidia Ruiz Varea. Clínico-Malvarrosa Health Department
Óscar Pérez Quintana. Hospital
Pablo Sabater Arnaldos. Clínico-Malvarrosa Health Departament
Pilar Botija Yagüe. Hospital
Pilar Roca Navarro. University. Clínico-Malvarrosa Health Department
Ricardo González Espadas. University. Hospital
Ruth Uribes Fillol. Clínico-Malvarrosa Health Departament
Sofía Bauer Izquierdo. Clínico-Malvarrosa Health Departament
Svitlana Nikítina Osadcha. Clínico-Malvarrosa Health Departament
Tamara Miravalls Pérez. Hospital
Tomás Sánchez Ruiz. University. Clínico-Malvarrosa Health Departament
Verónica Audina Márquez. Clínico-Malvarrosa Health Department
Verónica Lozano Rodríguez. Hospital
Vibiana Blanco Alvarado. Clínico-Malvarrosa Health Departament
Victoria Gosalbes Soler. Clínico-Malvarrosa Health Department

Strategic aims

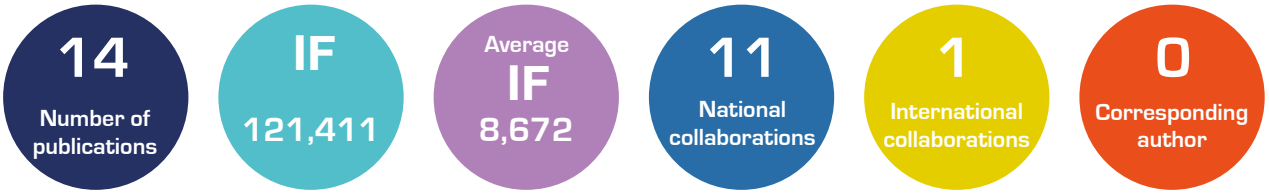
- Consolidation of various lines of cardiometabolic research
- Consolidation of a network of partners in the area of primary care

Main lines of research

- Cardiovascular population studies (ESCARVAL, Big data studies)
- Studies monitoring cardiovascular risk factors (ADAMPA)

scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Torres I, Gimenez E, Albert E, Zulaica J, Alvarez-Rodriguez B, Burgos J, Peiro S, Limon R, Vanaclocha H, Rodado C, Botija P, Sifre A, Tur B, Lozano R, Orosa I, Vicente-Ruiz M, Carrion R, Clari M, Sanchez-Paya J, Diez-Domingo J, Comas I, Gonzalez-Candelas F, Geller R, Navarro D. SARS-CoV-2 Omicron BA.1 variant breakthrough infections in nursing home residents after an homologous third dose of the Comirnaty (R) COVID-19 vaccine: looking for correlates of protection. Journal of Medical Virology. 2022 Sep;94(9):4216-4223. doi: 10.1002/jmv.27867. PMID: 35585782. IF: 20,693
2. De la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,349
3. Calderon J, Martinez F, Diaz J, Fernandez A, Sauri I, Uso R, Trillo J, Vela S, Bea C, Redon J, Forner M. Real-world data of anticoagulant treatment in non-valvular atrial fibrillation. Frontiers In Cardiovascular Medicine. 2022 Jan 21;8:733300. doi: 10.3389/fcvm.2021.733300. PMID: 35127843. IF: 5,846
4. Pallares Carratala V, Carratala Munuera C, Lopez Pineda A, Quesada J, Gil Guillen V, Orozco Beltran D, Alfonso Sanchez J, Navarro Perez J, Martin Moreno J. Characterizing diagnostic inertia in arterial hypertension with a gender perspective in primary care. Frontiers in Cardiovascular Medicine. 2022 Jun 16;9:874764. doi: 10.3389/fcvm.2022.874764. PMID: 35783866. IF: 5,846
5. Sánchez-Sendra B, Albert E, Zulaica J, Torres I, Giménez E, Botija P, Beltrán MJ, Rodado C, Geller R, Navarro D. Neutralizing antibodies against SARS-CoV-2 variants of concern elicited by the comirnaty COVID-19 vaccine in nursing home residents. Scientific Reports. 2022 Mar 8;12(1):3788. doi: 10.1038/s41598-022-07849-2. PMID: 35260713. IF: 4,996

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/01417

Title: *Cribado sistemático de insuficiencia cardíaca en pacientes con diabetes mellitus tipo 2. Estudio piloto*

Principal Investigator: Enrique Santas Olmeda and Jorge Navarro Pérez

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2024

Total Budget: €90.871

THESIS

Thesis title: *Análisis de las prescripciones potencialmente inadecuadas según los criterios STOPP/START en los residentes de los centros sociosanitarios del Departamento de Salud Clínico-Malvarrosa de Valencia desde 2016 hasta 2018*

Doctoral candidate: Isabel Díaz Planelles

Director(s): Jorge Navarro Pérez, José Luis Trillo Mata

Date of the defense: 30/03/2022

Grade: *Sobresaliente "cum laude"*

Research Group on the Study of Cardiometabolic and Renal Risk
Consolidated group

Group members

Leading Researcher, R4

Josep Redón i Mas

INCLIVA

Established Researchers, R3

Fernando Martínez García. Hospital. University

Mª José Forner Giner. Hospital. University

Mª José Galindo Puerto. Hospital. University

Mª José García-Fuster González-Alegre. Hospital

Emerging Researcher, R2

Raquel Cortés Vergaz. INCLIVA

Recognised Researchers, R2

Adrián Ruiz Hernández. Hospital. University

Ana Ortega Gutiérrez. INCLIVA

David Martí Aguado. Hospital

First Stage Researchers, R1

María Grau Pérez. INCLIVA

Olga Martínez Arroyo. INCLIVA

Staff. Collaborating Researchers

Andrea Marqués Mira. INCLIVA

Elena Solaz Moreno. Hospital

Researchers by categories

R1	R2	R3	R4	STAFF
2	4	4	1	11

Researchers financed by competitive public calls or networks

R1	R2	STAFF
2	2	5

Javier Díaz Carnicero. INCLIVA

José Miguel Calderón Terol. INCLIVA

Laura María Lidón Tárraga. INCLIVA

Staff. Nurse

Laura Cantero Milán. Hospital

Staff. Technicians

Antonio Fernández Giménez. INCLIVA

Marta Méndez Debaets. INCLIVA

Óscar Calaforra Juan. CIBER

Noemí Dolz Gilba. INCLIVA

Staff. Administrative assistant

Christine Deutsch. CIBER

Emerging Researcher

Raquel Cortés Vergaz

The main objective of the new field of research is to study the molecular mechanisms associated with the development of early kidney damage due to hypertension and diabetes, focusing on the characterization of extracellular vesicles and their roles as intercellular mediators. In addition, a new line of research has been opened in kidney damage associated with systemic lupus erythematosus, autoimmune disease, and the role of extracellular vesicles as diagnostic, prognostic and monitoring biomarkers of disease activity

Strategic aims

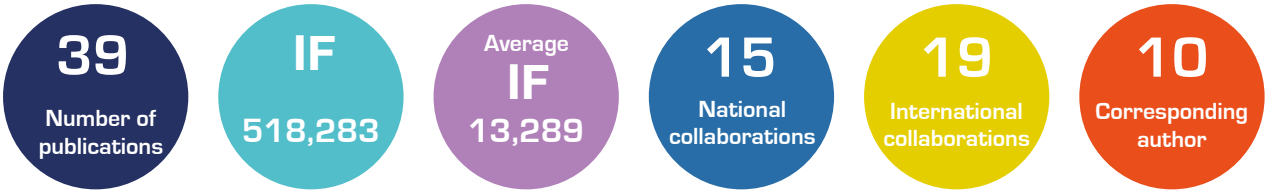
- To start-up the laboratory for the analysis of podocytes (identification, cultivation and phenotyping) and its derivatives: microRNA, exosomes
- To identify a circulating and exosomal non-coding RNA - mRNA interaction networks associated to renal damage progression
- The integration of metabolomics and genomics in the study of factors related to the development of kidney damage
- Development of studies for noninvasive hemodynamic characterization in vascular pathology
- Analysis of morbidity and mortality linked to the presence of hypertension and renal injury
- Development of in vitro studies of platelet and leukocyte adhesion in venous thromboembolism
- Genetic studies related to obesity and overweight and venous thromboembolism
- Development of phase III and IV clinical trials

scientific activity

Main lines of research

- Analysis of podocytes-renal proximal tubular epithelial cell communication as key player in kidney damage progression (miRNAs and exosomes)
- Impact of cardiovascular risk factors and renal function in absolute morbidity and mortality in high-risk population and in the general population
- Inflammation and oxidative stress in the development of cardiovascular disease
- Genomics, proteomics and metabolomics of early cardiometabolic and renal disorders
- Impact of environmental toxins (metals) in cardiometabolic risk
- Identification of polymorphisms and related to the control of BMI and waist circumference and the risk of obesity genes
- Venous thrombosis in young patients: factors associated with its development
- The relationship between risk of venous thromboembolic disease and arteriosclerosis
- Molecular mechanisms associated with activity changes and renal damage development in systemic lupus erythematosus

PUBLICATIONS



SELECTED PUBLICATIONS

1. Schlaich MP, Bellet M, Weber MA, Danaietash P, Bakris GL, Flack JM, Dreier RF, Sassi-Sayadi M, Haskell LP, Narkiewicz K, Wang JG. Dual endothelin antagonist aprocitentan for resistant hypertension (PRECISION): a multicentre, blinded, randomised, parallel-group, phase 3 trial. Lancet. 2022 Dec 3;400(10367):1927-1937. doi: 10.1016/S0140-6736(22)02034-7. PMID: 36356632. IF: 202,731

2. Linschoten M, Uijl A, Schut A, et al. Clinical presentation, disease course, and outcome of COVID-19 in hospitalized patients with and without pre-existing cardiac disease: a cohort study across 18 countries. European Heart Journal. 2022 Mar 14;43(11):1104-1120. doi: 10.1093/eurheartj/ehab656. PMID: 34734634. IF: 35,855

3. Marti-Aguado D, Clemente-Sanchez A, Bataller R. Cigarette smoking and liver diseases. Journal of Hepatology. 2022 Jul;77(1):191-205. doi: 10.1016/j.jhep.2022.01.016. PMID: 35131406. IF: 30,083

4. Marti-Aguado D, Jimenez-Pastor A, Alberich-Bayarri A, Rodriguez-Ortega A, Alfaro-Cervello C, Mestre-Alagarda C, Bauza M, Gallen-Peris A, Valero-Perez E, Ballester MP, Gimeno-Torres M, Perez-Girbes A, Benlloch S, Perez-Rojas J, Puglia V, Ferrandez A, Aguilera V, Escudero-Garcia D, Serra MA, Marti-Bonmati L. Automated whole-liver MRI segmentation to assess steatosis and iron quantification in chronic liver disease. Radiology. 2022 Feb;302(2):345-354. doi: 10.1148/radiol.2021211027. PMID: 34783592. IF: 29,146

5. Galvez-Fernandez M, Powers M, Grau-Perez M, Domingo-Relloso A, Lolacono N, Goessler W, Zhang Y, Fretts A, Umans JG, Maruthur N, Navas-Acien A. Urinary zinc and incident type 2 Diabetes: prospective evidence from the Strong Heart Study. Diabetes care. 2022 Nov 1;45(11):2561-2569. doi: 10.2337/dc22-1152. PMID: 36134919. IF: 17,152

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: EHDEN - OMOP

Title: EHDEN. Harmonization Fund Holder

Principal Investigator: Josep Redón i Mas

Funding body: European Commission

Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2023

Total budget: €50.000

Reference: 945097-WELLBASED
Title: WELLBASED. Improving health, wellbeing and equality by evidenced-based urban policies for tackling energy poverty
Principal Investigator: Josep Redón i Mas
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2025
Total budget: €395.250

Reference: 785815 - BigData@Heart
Title: Big Data for Better Hearts
Principal Investigator: Josep Redón i Mas
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2017-2022
Total budget: €386.250 (Contribution EC: 100%)

Reference: PI21/00249
Title: *Identificación de ARN no codificantes en biopsia líquida con énfasis en exosomas como biomarcadores pronóstico de actividad en el lupus eritematoso sistémico. Implicación fisiopatológica en el daño renal*
Principal Investigator: Raquel Cortés Vergaz and Mª José Forner Giner
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €135.520

Reference: PI19/01796
Title: *Implicaciones experimentales y clínicas del complejo proteico rabphilin-rab en daño renal en la Diabetes Mellitus tipo 2*
Principal Investigator: Josep Redón i Mas
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €196.020

Title: *Cuantificación de la hemoglobina fecal para la estadificación del riesgo de neoplasia en pacientes incluidos en el programa de cribado de cáncer colorrectal*
Principal Investigator: David Martín Aguado
Funding body: *Fundación SEED Investigación en Endoscopia Digestiva*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €15.000

Title: *Estudio multicéntrico de precisión diagnóstica para cuantificar y caracterizar la fibrosis de la enfermedad hepática metabólica mediante patología digital avanzada*
Principal Investigator: David Martín Aguado
Funding body: *Sociedad Valenciana de Patología Digestiva*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €5.000

Title: *Cohorte Española de pacientes con infección por VIH mayores de 50 años para el estudio de la fragilidad y la función física*
Principal Investigator: Mª José Galindo Puerto
Funding body: Janssen - Cilag S.A.
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total budget: €27.295,83

THESIS

Thesis title: *Monitorización del manejo de sepsis para la identificación de flujos asistenciales y su impacto en la evolución de los pacientes. El diagnóstico precoz de sepsis en urgencias*
Doctoral candidate: Jorge Clar Bononad
Director(s): Mª Rosa Oltra Sempere, Josep Redón i Mas
Date of the defense: 10/02/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Evaluación cardiometabólica y adrenérgica en el sujeto obeso sano joven*
Doctoral candidate: Adrián Ruiz Hernández
Director(s): Mª José Forner Giner, Josep Redón i Mas
Date of the defense: 28/04/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Vascular Function
Consolidated group

Group members

Leading Researcher, R4

José Mª Vila Salinas

University

Established Researchers, R3

Mª Dolores Mauricio Aviñó. University

Martín Aldasoro Celaya. University

Víctor Manuel Víctor González. University

Recognised Researchers, R2

Solanye Guerra Ojeda. University

Susana Rovira Llopis. University

First Stage Researchers, R1

Andrea Suárez Fortea. INCLIVA

Begoña Belmonte Alonso. INCLIVA

Researchers by categories

R1 2 | R2 2 | R3 3 | R4 1

Researchers financed by competitive public calls or networks

R2 2

Strategic aims

- Vascular changes associated with different pathologies
- Regulation of blood flow

Main lines of research

- Characterization of alterations in the control of vascular tone and endothelial function induced by aging
- The effects of exercise training on the vascular response
- Vascular and extravascular effects of ranolazine
- Improvement of insulin vascular effects by ranolazine
- Vascular effects of nanoparticles
- Mechanism of action of anti-diabetic drugs: molecular mechanisms
- Circadian cycle and cardiometabolic diseases
- Physical exercise in obesity and diabetes: effect on endothelial function
- Mitochondrial-endothelial dysfunction in cardiometabolic diseases
- Physiology and physiopathology of type 2 diabetes
- Novel nanoparticles and antioxidant compounds for the treatment of diseases
- Study of autophagy and endoplasmic reticulum stress in type 2 diabetes and obesity
- Antioxidants targeting mitochondria: application to cardiometabolic diseases

PUBLICATIONS

17 Number of publications

IF 120,755

Average IF 7,103

12 National collaborations

4 International collaborations

7 Corresponding author

4 scientific activity

SELECTED PUBLICATIONS

1. De Maranon A, Diaz-Pozo P, Canet F, Diaz-Morales N, Abad-Jimenez Z, Lopez-Domenech S, Vezza T, Apostolova N, Morillas C, Rocha M, Victor V. Metformin modulates mitochondrial function and mitophagy in peripheral blood mononuclear cells from type 2 diabetic patients. Redox Biology. 2022 Jul;53:102342. doi: 10.1016/j.redox.2022.102342. PMID: 35605453. IF: 10,787
2. Canet F, Diaz-Pozo P, Luna-Marco C, Fernandez-Reyes M, Vezza T, Marti M, Salazar J, Roldan I, Morillas C, Rovira-Llopis S, Rocha M, Victor V. Mitochondrial redox impairment and enhanced autophagy in peripheral blood mononuclear cells from type 1 diabetic patients. Redox Biology. 2022 Dec;58:102551. doi: 10.1016/j.redox.2022.102551. PMID: 36455476. IF: 10,787
3. Diaz-Pozo P, Canet F, Grirrane A, Lopez-Domenech S, Herance J, Apostolova N, Luna-Marco C, Rovira-Llopis S, Marti M, Morillas C, Rocha M, Garcia H, Victor V. Gold nanoparticles supported on ceria nanoparticles modulate leukocyte-endothelium cell interactions and inflammation in Type 2 Diabetes. Antioxidants. 2022 Nov 20;11(11):2297. doi: 10.3390/antiox11112297. PMID: 36421483. IF: 7,675
4. Guerra-Ojeda S, Marchio P, Rueda C, Suarez A, Garcia H, Victor V, Juez M, Martin-Gonzalez I, Vila J, Mauricio M. Cerium dioxide nanoparticles modulate antioxidant defences and change vascular response in the human saphenous vein. Free Radical Biology & Medicine. 2022 Nov 17;193(Pt 2):694-701. doi: 10.1016/j.freeradbiomed.2022.11.012. PMID: 36402438. IF: 8,101
5. Guerra-Ojeda S, Marchio P, Aldasoro M, Valles S, Genoves P, Mauricio M, Vila J. Deleterious effects of levamisole, a cocaine adulterant, in rabbit aorta. Vascular Pharmacology. 2022 Jun;144:106992. doi: 10.1016/j.vph.2022.106992. PMID: 35358704. IF: 5,738

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/0838
Title: *Estudio de la función mitocondrial, la autofagia y la mitofagia en la diabetes tipo 2: relación con las complicaciones cardiovasculares e implicaciones clínicas*
Principal Investigator: Víctor Manuel Víctor González
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2022
Total budget: €183.920

Reference: PROMETEO/2019/027
Title: *Patofisiología de las enfermedades cardiometabólicas*
Principal Investigator: Víctor Manuel Víctor González
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total budget: €207.157

THESIS

Thesis title: *Efectos vasculares de las nanopartículas de óxido de cerio en la vena safena*
Doctoral candidate: Cristina Rueda Muñoz
Director(s): Mª Dolores Mauricio Aviñó, Marina Juez López, Solanye Guerra Ojeda
Date of the defense: 28/10/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Interacciones de la ranolazina con agentes vasoactivos endógenos y exógenos*
Doctoral candidate: Elena Campos Carot
Director(s): José Mª Vila Salinas, Mª Dolores Aviñó, Juan B. Martínez León
Date of the defense: 19/12/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Estudio del efecto de la cirugía de bypass gástrico en Y de Roux sobre los mecanismos moleculares asociados a la fisiopatología de la obesidad*
Doctoral candidate: Zaida María Abad Jiménez
Director(s): Víctor Manuel Víctor González
Date of the defense: 22/12/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Pedriatric Nutrition
Consolidated group

Group members

Researchers by categories



Leading Researchers, R4

Cecilia Martínez Costa
Hospital. University
Javier Buesa Gómez
Hospital. University

Established Researchers, R3

Elena Crehuá Gaudiza. Hospital. University
Francisco Núñez Gómez. Hospital. University
Javier Estañ Capell. Hospital. University
Laura Martínez Rodríguez. Hospital

Recognised Researcher, R2

Ana Paula Grattarola. INCLIVA

First Stage Researchers, R1

Alba Peretó Moll. Hospital
Ana Barrés Fernández. Hospital
Ana Delgado Vicente. Hospital
Ángel Vicente Valls Arévalo. Hospital
Carlos Sáenz de Juano Petit. Hospital
Isidro Robredo García. INCLIVA
Laura Núñez Martínez. Hospital

Staff. Collaborating Researchers

Inmaculada Tarazona Casany. Hospital
José Vicente Arcos Machancoses. Hospital

Strategic aims

Cardiovascular area:

- Study of metabolome and microbiome in obese children with/without insulin resistance before and after personalized nutritional intervention and physical exercise

Area of human milk:

- Characterization of mother-infant microbiome in term and preterm infants. Influence of perinatal variables

Area of hospital malnutrition and artificial nutrition:

- Validation of the pediatric screening tools for detecting the risk of malnutrition linked to chronic disease and pediatric hospitalization

4 scientific activity

Main lines of research

Cardiovascular area:

- Analysis of microbiota in obese children before and after intervention
- Analysis of microbiota in obese children with/without insulin resistance
- Analysis of metabolome in obese children with/without insulin resistance
- Monitoring exercise and energy consumption in obese schoolchildren and teenagers to adjust nutritional intervention

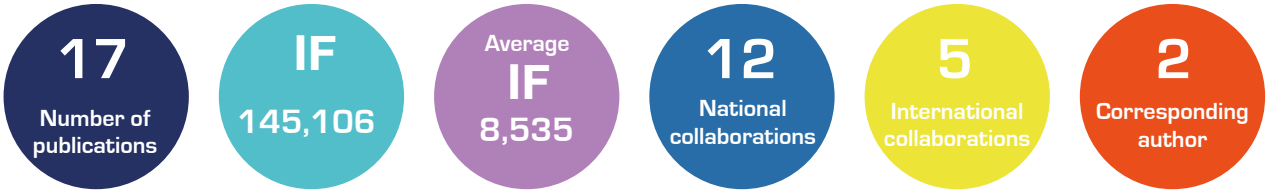
Area of human milk:

- Analysis of nutritional and bioactive components in human milk: influence of genotype FUT2 on oligosaccharides
- Analysis of mother-fetal microbiome in term and preterm infants. Influence of delivery mode, maternal diet and development. Impact on host response and intestinal function

Area of hospital malnutrition and artificial nutrition:

- Validation of the pediatric screening tools for detecting the risk of malnutrition
- Multicenter study of acceptance and quality of life in children treated with home enteral nutrition

PUBLICATIONS



SELECTED PUBLICATIONS

1. Costa R, Olea B, Bracho M, Albert E, de Michelena P, Martinez-Costa C, Gonzalez-Candelas F, Navarro D. RNA viral loads of SARS-CoV-2 Alpha and Delta variants in nasopharyngeal specimens at diagnosis stratified by age, clinical presentation and vaccination status. Journal of Infection. 2022 Apr;84(4):579-613. doi: 10.1016/j.jinf.2021.12.018. PMID: 34953901. IF: 38,637

2. Selma-Royo M, Bauerl C, Mena-Tudela D, Aguilar-Camprubi L, Perez-Cano FJ, Parra-Llorca A, Lerin C, Martinez-Costa C, Collado MC. Anti-SARS-CoV-2 IgA and IgG in human milk after vaccination is dependent on vaccine type and previous SARS-CoV-2 exposure: a longitudinal study. Genome Medicine. 2022 Apr 21;14(1):42. doi: 10.1186/s13073-022-01043-9. PMID: 35449030. IF: 15,266

3. Bauerl C, Randazzo W, Sanchez G, Selma-Royo M, Garcia-Verdevio E, Martinez L, Parra-Llorca A, Lerin C, Fumado V, Crovetto F, Crispi F, Perez-Cano F, Rodriguez G, Ruiz-Redondo G, Campoy C, Martinez-Costa C, Collado M, MilkCORONA study team. SARS-CoV-2 RNA and antibody detection in breast milk from a prospective multicentre study in Spain. Archives of Disease in Childhood. Fetal and Neonatal Edition. 2022 Mar;107(2):216-221. doi: 10.1136/archdischild-2021-322463. PMID: 34417223. IF: 6,643

4. Arias-Borrego A, Soto Cruz FJ, Selma-Royo M, Bäuerl C, García Verdevio E, Pérez-Cano FJ, Lerin C, Velasco López I, Martínez-Costa C, Collado MC, García-Barrera T. Metallomic and untargeted metabolomic signatures of human milk from SARS-CoV-2 Positive mothers. Molecular Nutrition & Food Research. 2022 Aug;66(16):e2200071. doi: 10.1002/mnfr.202200071. PMID: 35687731. IF: 6,575

5. Calvo-Lerma J, Selma-Royo M, Hervas D, Yang B, Intonen L, Gonzalez S, Martinez-Costa C, Linderborg K, Collado M. Breast milk lipidome is associated with maternal diet and infants' growth. Frontiers in Nutrition. 2022 Jul 6;9:854786. doi: 10.3389/fnut.2022.854786. PMID: 35873422. IF: 6,59

RESEARCH PROJECTS AND GRANTS FOR

scientific activity

RESEARCH

Title: PI19/00354
Título: *Efectividad de la vacunación antigripal y antineumocócica para prevenir la hospitalización en personas menores de 65 años que presentan condiciones de riesgo*
Principal Investigator: Ángela Domínguez García (Francisco Núñez as collaborating researcher)
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Universidad de Barcelona*
Duration: 2020-2022
Total budget: €220.220

Reference: PCIN-2017-117
Title: *Obesidad materna y disfunción cognitiva en la descendencia: papel causa-efecto de la microbiota intestinal y prevención dietética temprana*
Principal Investigator: Consuelo Borrás Blasco (Cecilia Martínez Costa as collaborating researcher)
Funding body: *Ministerio de Economía y Competitividad*
Beneficiary institution: *Universidad de Valencia*
Duration: 2017-2022
Total budget: €143.000

Reference: AP-2021-004
Título: *NEODIAG-VR: Realidad virtual para la formación multidisciplinar en neonatología*
Principal Investigator: Jesús Gimeno Sancho and Javier Estañ Capell
Funding body: *Universidad de Valencia* - INCLIVA
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.655

THESIS

Thesis title: *Anomalías craneofaciales y dentales en una población de escolares nacidos pretérmino*
Doctoral candidate: María Aurora Peiró Guijarro
Director(s): Cecilia Martínez Costa, Montserrat Catalá Picarro, Laura Martínez Rodríguez
Date of the defense: 25/03/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Estudio del desarrollo y la función renal, y de aspectos implicados en el síndrome metabólico del adulto, en gemelos con peso dispar al nacimiento. Valoración durante la edad pediátrica*
Doctoral candidate: Juan Marín Serra
Director(s): Roberto Hernández Marco, Francisco Núñez Gómez, Jaime Fons Moreno
Date of the defense: 24/10/2022
Grade: *Sobresaliente "cum laude"*

Group on Translational Research in Ischemic Heart Disease
Consolidated group

Group members

Leading Researcher, R4
Vicente Bodí Peris

Hospital. University

Established Researcher, R3
Amparo Ruiz Saurí. University

Emerging Researcher, R2
Clara Bonanad Lozano. Hospital. University

Recognised Researchers, R2
César Ríos Navarro. INCLIVA

Víctor Marcos Garcés. Hospital

First Stage Researchers, R1
Carme Mª Ortega Albiach. INCLIVA

Elena de Dios Lluch. CIBER

Héctor Manuel Merenciano González. INCLIVA

Nerea Pérez Solé. INCLIVA

Staff. Collaborating Researchers
Joaquim Cànoves Femenia. Hospital

Paolo Racugno. Hospital

Researchers by categories

R1	R2	R3	R4	STAFF
4	3	1	1	14

Researchers financed by competitive public calls or networks

R1	R2
1	2

Staff. Nurses
Francisca Esteve Claramunt. INCLIVA

María Regina Blanco del Burgo. INCLIVA

Staff. Technicians
Andrea Aparici Redal. INCLIVA

Andrea Arroyo Álvarez. INCLIVA

Carles Muñoz Alfonso. INCLIVA

Cristina García Pérez. INCLIVA

Daznia Loiret Bompart Berroteran. INCLIVA

Eva Maicas Alcaine. INCLIVA

Guillermo Barreres Martín. INCLIVA

Ilza Victoria Freitas Durks. INCLIVA

Javier Damia Escrig. INCLIVA

Tamara Molina García. INCLIVA

Strategic aims

- From our research experience from the last years in the clinical and experimental field related to ischemic cardiopathy, our current goal is to focus into a translational approach
- In 2022 we continued elucidating the abnormalities in the coronary circulation after a myocardial infarction by using a swine model. Moreover, we have also started to evaluate in vitro the role of endothelial injury after coronary reperfusion and the implication of angiogenesis in the recovery of the microvasculature after a myocardial infarction in animal models and in patients
- We have also developed new tools to study patients with ST-segment elevation myocardial infarction using cardiac magnetic resonance imaging

Main lines of research

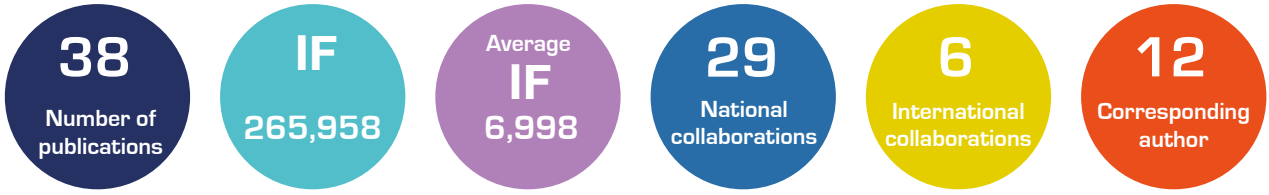
- Prospective registry of patients with first ST-segment elevation myocardial infarction studied with cardiac magnetic resonance imaging at acute and chronic phases
- Multicenter registry of patients with chronic coronary syndrome studied with stress cardiac magnetic resonance imaging
- Porcine and mice model of experimental myocardial ischemia and myocardial infarction. To achieve a better understanding of the pathophysiology of ischemia, necrosis, fibrosis, angiogenesis, and reperfusion injury and test new novel therapeutic avenues
- Involvement in several large international multicenter clinical trials in the field of acute coronary syndromes

Emerging Researcher

Clara Bonanad Lozano

Her line of research aims to evaluate the impact of geriatric syndromes and residual risk, specifically dyslipidemia and inflammation, in patients with non-ST-segment elevation acute coronary syndrome.

PUBLICATIONS



SELECTED PUBLICATIONS

1. Gabaldón-Pérez A, Marcos-Garcés V, Gavara J, López-Lereu MP, Monmeneu JV, Pérez N, Ríos-Navarro C, De Dios E, Merenciano-González H, Cànoves J, Racugno P, Bonanad C, Minana G, Núnez J, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Ortiz-Pérez JT, Rodríguez-Palomares JF, Bodí V. Prognostic value of cardiac magnetic resonance early after ST-segment elevation myocardial infarction in older patients. Age and Ageing. 2022 Nov 2;51(11):afac248. doi: 10.1093/ageing/afac248. PMID: 36436010. IF: 12,782

2. Gavara J, Perez N, Marcos-Garces V, Monmeneu J, Lopez-Lereu M, Rios-Navarro C, de Dios E, Bonanad C, Canoves J, Moratal D, Palau P, Minana G, Nunez J, Chorro F, Bodi V. Combined assessment of stress cardiovascular magnetic resonance and angiography to predict the effect of revascularization in chronic coronary syndrome patients. European Journal of Preventive Cardiology. 2022 Mar 11;29(2):407-416. doi: 10.1093/eurjpc/zwab170. PMID: 34686874. IF: 8,526

3. Gavara J, Marcos-Garces V, Lopez-Lereu, MP, Monmeneu JV, Rios-Navarro C, de Dios E, Perez N, Merenciano H, Gabaldon A, Canoves J, Racugno P, Bonanad C, Minana G, Nunez J, Nunez E, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Rodriguez-Palomares JF, Ortiz-Perez JT, Bodi V. Magnetic resonance assessment of left ventricular ejection fraction at any time post-infarction for prediction of subsequent events in a large multicenter STEMI Registry. Journal of Magnetic Resonance Imaging. 2022 Aug;56(2):476-487. doi: 10.1002/jmri.27789. PMID: 34137478. IF: 5,119

4. de la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,394

5. Palau P, Amiguet M, Dominguez E, Sastre C, Mollar A, Seller J, Pinilla J, Larumbe A, Valle A, Doblas J, de la Espriella R, Minana G, Mezcua A, Santas E, Bodi V, Sanchis J, Pascual-Figal D, Gorriz J, Bayes-Genis A, Nunez J. Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-VO2): a randomized clinical trial. European Journal of Heart Failure. 2022 Oct;24(10):1816-1826. doi: 10.1002/ejhf.2560. PMID: 35604416. IF: 17,394

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI20/00637

Title: *Resolución de la obstrucción microvascular tras un infarto de miocardio: evaluación de las consecuencias estructurales y clínicas y búsqueda de nuevas opciones terapéuticas*

Principal Investigator: Vicent Bodí Peris and Clara Bonanad Lozano

Funding Body: *Instituto de Salud Carlos III-Co-financed FEDER*

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2023

Total Budget: €129.470

Reference: PROMETEO/2021/008

Title: A multidisciplinary study to advance in the understanding of the basic mechanisms and clinical implications of microvascular

obstruction after acute myocardial infarction. Exploration of novel diagnostic and therapeutic opportunities
Principal Investigator: Vicente Bodí Peris
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total Budget: €435.929

Title: *Resonancia magnética cardíaca de estrés con vasodilatadores para predecir la mortalidad a largo plazo en un amplio registro retrospectivo de pacientes con cardiopatía isquémica conocida o sospechada*
Principal Investigator: Vicente Bodí Peris
Funding Body: *Sociedad Española de Cardiología*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total Budget: €15.000

THESIS

Thesis title: *Avances en estratificación pronóstica mediante resonancia magnética cardíaca en pacientes con síndrome coronario crónico*
Doctoral candidate: Víctor Marcos Garcés
Director(s): Vicent Bodí Peris, Amparo Ruiz Saurí
Date of the defense: 18/02/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Patogenicidad de la infección invasiva por Candida Auris: virulencia en un modelo de infección in vivo y factores de riesgo de Candidemia*
Doctoral candidate: Víctor García Bustos
Director(s): Javier Pemán García, Amparo Ruiz Saurí
Date of the defense: 09/05/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Heart Failure
Emerging group

Group members

Leading Researcher, R4

Julio Núñez Villota

Hospital. University

Recognised Researchers, R2

Enrique Santas Olmeda. Hospital

Gema Miñana Escrivá. Hospital. University

Patricia Palau Sampio. Hospital. University

First Stage Researchers, R1

Ana Belén Paes Martí. INCLIVA

Clara Sastre Arbona. University. CIBER

Staff. Collaborating Researchers

Laura López Bueno. University

Rafael de la Espriella Juan. Hospital

Raquel Heredia Cambra. INCLIVA

Staff. Nurses

Alberto Ramírez Sáiz. INCLIVA

Ana Martínez Álvarez. INCLIVA

Carolina Martínez Botella. INCLIVA

Evelin Idaly Bejerano Sandoval. INCLIVA

José Manuel Civera Gómez. INCLIVA

Staff. Technicians

Adoración Pérez Sánchez. INCLIVA

Adriana Conesa Bona. INCLIVA

Juan José Palmí Perales. INCLIVA

Sandra Villar Conejos. INCLIVA

Teresa Benito Ferrer. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



Strategic aims

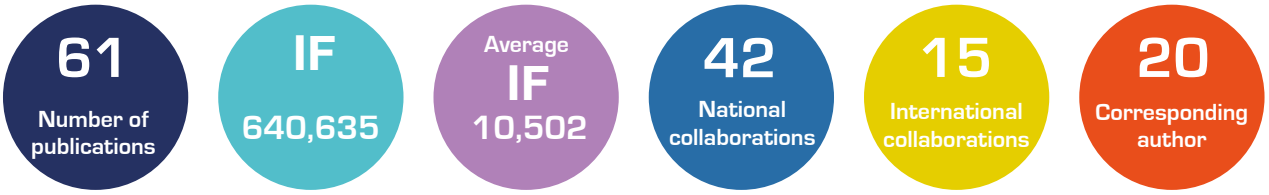
- Phenotypic characterization of heart failure syndrome
- Deepen into pathophysiological mechanisms in the different phenotypes of the disease
- Development of tools to improve the diagnostic process of heart failure
- Risk stratification in patients with acute and chronic heart failure
- Evaluation of different therapeutic and monitoring strategies that allow improving the prognosis of heart failure

Main lines of research

- Effect on functional capacity of withdrawal of beta-blockers in patients with heart failure and preserved ejection fraction and chronotropic incompetence
- Myocardial effects of iron repletion
- Prevalence and clinical implications of frailty in heart failure
- Usefulness of the carbohydrate antigen 125 marker in the evaluation of congestion and a guide to titrate diuretic treatment
- Effect of dapagliflozin on functional capacity in patients with heart failure and reduced ejection fraction
- Utility of continuous ambulatory peritoneal dialysis in the treatment of patients with heart failure and reduced ejection fraction
- Usefulness of intrarenal Doppler to evaluate intrarenal congestion and its clinical significance

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Civera J, Minana G, de la Espriella R, Santas E, Sastre C, Mollar A, Conesa A, Martinez A, Nunez E, Bayes-Genis A, Nunez J. Venous leg compression for tissue decongestion in patients with worsening congestive heart failure. Frontiers In Cardiovascular Medicine. 2022 Jul 8;9:847450. doi: 10.3389/fcvm.2022.847450. PMID: 35872894. IF: 5,846

2. Palau P, Amiguet M, Dominguez E, Sastre C, Mollar A, Seller J, Pinilla J, Larumbe A, Valle A, Doblas J, de la Espriella R, Minana G, Mezcua A, Santas E, Bodi V, Sanchis J, Pascual-Figal D, Gorriz J, Bayes-Genis A, Nunez J. Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-VO2): a randomized clinical trial. European Journal of Heart Failure. 2022 Oct;24(10):1816-1826. doi: 10.1002/ejhf.2560. PMID: 35604416. IF: 17,349

3. Nunez J, de la Espriella R, Rossignol P, Voors AA, Mullens W, Metra M, Chioncel O, Januzzi JL, Mueller C, Richards AM, de Boer RA, Thum T, Arfsten H, Gonzalez A, Abdelhamid M, Adamopoulos S, Anker SD, Gal TB, Biegus J, Cohen-Solal A, Boehm M, Emdin M, Jankowska EA, Gustafsson F, Hill L, Jaarsma T, Jhund PS, Lopatin Y, Lund LH, Milicic D, Moura B, Piepoli MF, Ponikowski P, Rakisheva A, Ristic A, Savarese G, Tocchetti CG, Van Linthout S, Volterrani M, Seferovic P, Rosano G, Coats AJS, Bayes-Genis A. Congestion in heart failure: a circulating biomarker-based perspective. A review from the Biomarkers Working Group of the Heart Failure Association, European Society of Cardiology. European Journal of Heart Failure. 2022 Oct;24(10):1751-1766. doi: 10.1002/ejhf.2664. PMID: 36039656. IF: 17,349

4. De la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,349

5. De la Espriella R, Bayes-Genis A, Llacer P, Palau P, Minana G, Santas E, Pellicer M, Gonzalez M, Gorriz JL, Bodi V, Sanchis J, Nunez J. Prognostic value of NT-proBNP and CA125 across glomerular filtration rate categories in acute heart failure. European Journal of Internal Medicine. 2022 Jan;95:67-73. doi: 10.1016/j.ejim.2021.08.024. PMID: 34507853. IF: 7,749

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/01417

Title: *Cribado sistemático de insuficiencia cardíaca en pacientes con diabetes mellitus tipo 2. Estudio piloto*

Principal Investigator: Enrique Santas Olmeda and Jorge Navarro Pérez

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2024

Total budget: €90.871

Reference: PI20/00392

Title: *Congestión renal en insuficiencia cardiaca aguda y síndrome cardiorrenal: valoración no invasiva mediante doppler vascular renal*

Principal Investigator: Julio Núñez Villota

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2023

Total budget: €94.834

Reference: PI17/01736

Title: *Comparación aleatoria entre las estrategias invasivas y conservadoras en pacientes ancianos frágiles con infarto de*

miocardio sin elevación del segmento ST (MOSCA-FRAIL)
Principal Investigator: Gema Miñana Escrivá
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2018-2022
Total budget: €70.180

Reference: AICO/2021/129
Title: *Efecto del bloqueo de la rama izquierda sobre capacidad funcional, disincronía electromecánica y función cardiaca en población general con patología cardiovascular*
Principal Investigator: Patricia Palau Sampio and Julio Núñez Villota
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €90.000

Title: *Resonancia magnética cardíaca de estrés con vasodilatadores para predecir la mortalidad a largo plazo en un amplio registro retrospectivo de pacientes con cardiopatía isquémica conocida o sospechada*
Principal Investigator: Vicent Bodí Peris (Julio Núñez Villota as collaborating researcher)
Funding Body: *Sociedad Española de Cardiología*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €15.000

Reference: AP-2021-019
Title: *HISTONATTR: Efecto de la activación de TLR por medio de sus ligandos sobre la polarización de macrófagos hacia M1 y su función citocida frente a las células madre de glioblastoma*
Principal Investigator: Carlos Romá Mateo and Enrique Santas Olmeda
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

THESIS

Thesis title: *Beneficios físicos y psicológicos de la danza española en personas mayores*
Doctoral candidate: Luis Ibáñez Sanchis
Director(s): Celedonia Igual Camacho, Laura López Bueno
Date of the defense: 17/01/2022
Grade: *Sobresaliente "cum laude"*

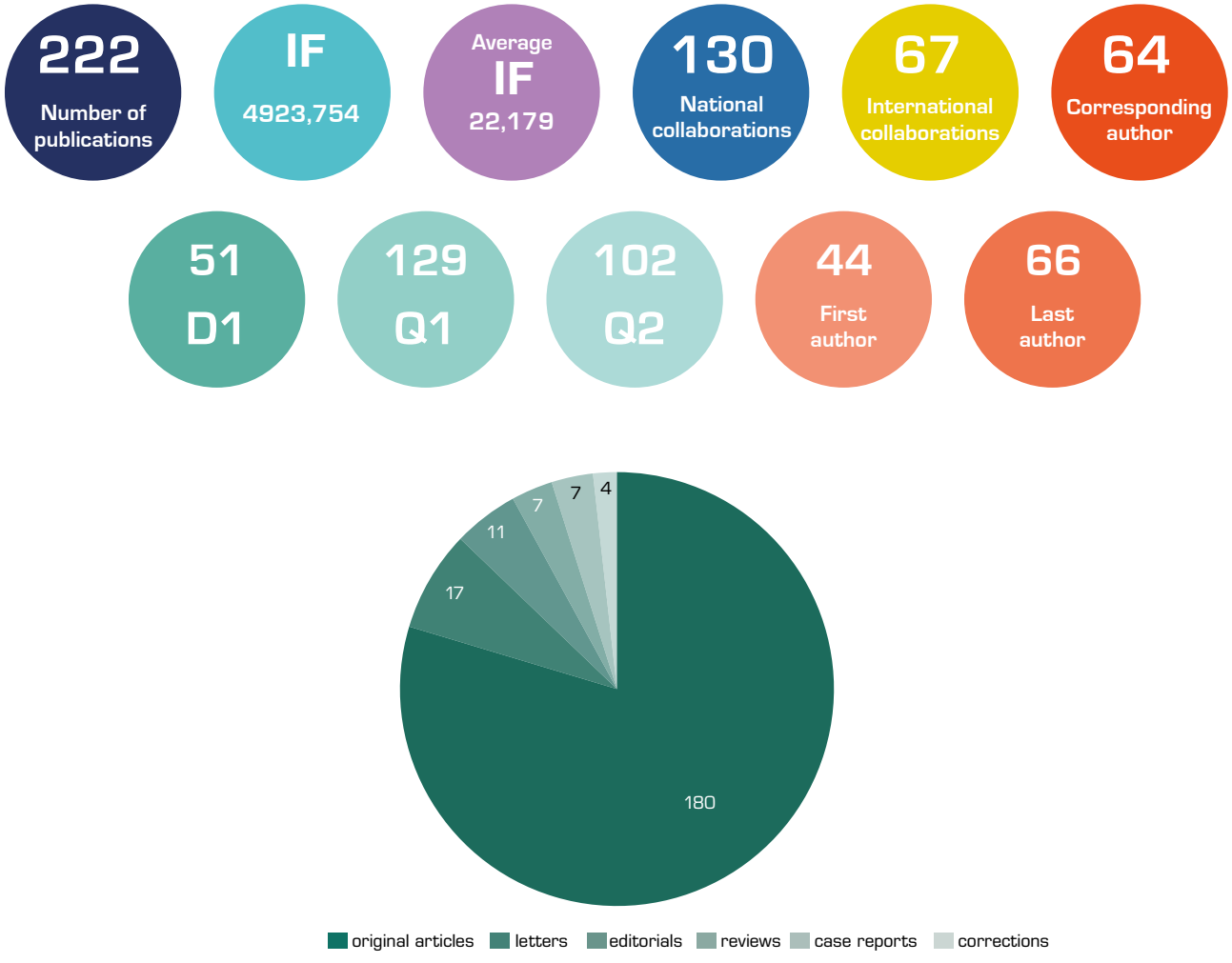
Thesis title: *Historia clínica y niveles indetectables de troponina de alta sensibilidad en la evaluación del riesgo de pacientes con dolor torácico agudo y primera determinación de troponina normal*
Doctoral candidate: Ernesto Valero Picher
Director(s): Juan Sanchis Forés, Julio Núñez Villota
Date of the defense: 28/01/2022
Grade: *Sobresaliente "cum laude"*

scientific activity

4.3.2 Oncology area

Groups

Research Group on Histopathology and Tissue Engineering
Research Group on Central Nervous System Tumors
Research Group of Innovative Diagnostic and Therapeutical Developments in Solid Tumors - InDeST
Research Group on Breast Cancer Biology
Research Group on Skin Cancer
Translational Research Group on Pediatric Solid Tumors
Research Group on Hematopoietic Transplantation
Research Group on Lymphoproliferative Disorders
Research Group on Myeloid Neoplasms
Research Group on Molecular Imaging and Metabolomics
Research Group on Molecular Microbiology and Microbial Pathogenesis



Research Group on Histopathology and Tissue Engineering
Consolidated group

Group members

Leading Researchers, R4

Carmen Carda Batalla. University
Manuel Mata Roig. University
Amando Peydró Olaya. INCLIVA

Established Researchers, R3

Antonio Fons Font. University
Carlos Tejerina Botella. Hospital. University
Francisco Forriol Brocal. Hospital
Genaro Galán Gil. Hospital. University
José Javier Martín de Llano. University
Mari Fe Mínguez Rey. Hospital. University
María Sancho-Tello Valls. University
Miguel Puche Torres. Hospital. University

Recognised Researchers, R2

Giovanna Foschini Martínez. INCLIVA
Lara Milián Medina. University
María Oliver Ferrándiz. University
Rubén Salvador Clavell. University

First Stage Researchers, R1

Ángel Aguilar Hernández. INCLIVA
Irene Monleón Guinot. University
Javier Alcácer Fernández-Coronado. INCLIVA
Zakaria Oguir. University

Researchers by categories



Staff. Collaborating Researchers

Ignacio Peregrín Nevado. INCLIVA
Teresa Sagrado Vives. University

Strategic aims

The group obtained funding to continue working on to the line of Tissue Engineering with new projects:

- Bone regeneration in prosthetic implants. Biological processes conditioned by age and gende. Design of new biomaterials
- Biomimetic microgels for the study of the tumor microenvironment (TME) and the mesenchymal epithelial transition (EMT) in lung cancer
- Cartilage and bone regeneration techniques and their application in pathologies

Main lines of research

Regenerative Medicine:

- Study of articular cartilage regeneration
- Study of bone regeneration. Effect of age and gender on the regeneration process

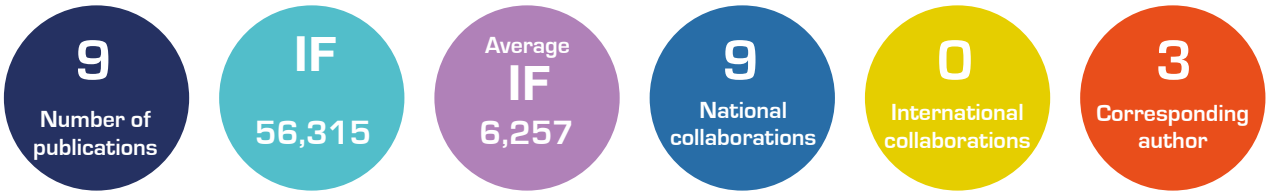
4 scientific activity

- Study of the use of dental pulp cells as precursors in regenerative therapies
- Study of regeneration of dental and periodontal tissues
- Study of tumor microenvironment using biomimetic microgels

Histopathology:

- Study of ciliary pathology

PUBLICATIONS



SELECTED PUBLICATIONS

1. Milián L, Monleón-Guinot I, Sancho-Tello M, Galbis JM, Cremades A, Almenar-Ordaz M, Peñaroja-Martinez J, Farras R, Martín de Llano JJ, Carda C, Mata M. In Vitro Effect of Δ9-Tetrahydrocannabinol and Cannabidiol on cancer-associated fibroblasts isolated from lung cancer. International Journal of Molecular Sciences. 2022 Jun 17;23(12):6766. doi: 10.3390/ijms23126766. PMID: 35743206. IF: 6,208
2. Mata M, Peydro S, de Llano J, Sancho-Tello M, Carda C. Human dental pulp stem cells differentiate into cementoid-like-secreting cells on decellularized teeth scaffolds. International Journal of Molecular Sciences. 2022 Dec 9;23(24):15588. doi: 10.3390/ijms232415588. PMID: 36555228. IF: 6,208
3. Garcia-Arnaez I, Romero-Gavilan F, Cerqueira A, Elortza F, Azkargorta M, Munoz F, Mata M, de Llano J, Suay J, Gurruchaga M, Goni I. Correlation between biological responses in vitro and in vivo to Ca-doped sol-gel coatings assessed using proteomic analysis. Colloids and Surfaces B-Biointerfaces. 2022 Oct 21;220:112962. doi: 10.1016/j.colsurfb.2022.112962. PMID: 36306698. IF: 5,999
4. Martin-Iglesias S, Milian L, Sancho-Tello M, Salvador-Clavell R, de Llano J, Carda C, Mata M. BMP-2 enhances osteogenic differentiation of human adipose-derived and dental pulp stem cells in 2D and 3D in vitro models. Stem Cells International. 2022 Mar 4;2022:4910399. doi: 10.1155/2022/4910399. PMID: 35283997. IF: 5,131
5. Perez-Benavente B, Fathinajafabadi A, de la Fuente L, Gandia C, Martinez-Ferriz A, Pardo-Sanchez J, Milian L, Conesa A, Romero O, Carretero J, Matthiesen R, Jariel-Encontre I, Piechaczyk M, Farras R. New roles for AP-1/JUNB in cell cycle control and tumorigenic cell invasion via regulation of cyclin E1 and TGF-beta2. Genome Biology. 2022 Dec 9;23(1):252. doi: 10.1186/s13059-022-02800-0. PMID: 36494864. IF: 17,906

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PDC2021-121658-C22

Title: *Microgeles bioactivos como soporte inyectable para la regeneración del cartílago articular*

Principal Investigator: María Sancho-Tello Valls and José Luis Gómez Ribelles

Funding Body: *Ministerio de Economía y Competitividad*

Beneficiary Institution: *Universidad de Valencia*

Duration: 2021-2023

Total Budget: €69.900

Reference: PID2019-106099RB-C42

Title: *Microgeles biomiméticos para el estudio del microentorno del tumor (TME) y la transición epitelio mesénquima (EMT) en cáncer de pulmón*

Principal Investigator: Manuel Mata Roig and José Javier Martín de Llano

Funding Body: *Ministerio de Ciencia e Innovación*

Beneficiary Institution: *Universidad de Valencia*

Duration: 2020-2023

Total Budget: €151.250

Reference: PROMETEO/2020/069
Title: *Regeneración ósea en implantoprótesis. Procesos biológicos condicionados por la edad y el género. Diseño de nuevos biomateriales (ROMEN)*
Principal Investigator: Carmen Carda Batalla
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total Budget: €235.145

Reference: PI-2021-008
Title: *miR-OA: Inhibidores de miRNAs como terapia en osteoartritis*
Principal Investigator: Carmen Carda Batalla and Rubén Artero Allepuz
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total Budget: €19.000

THESIS

Thesis title: Evaluation of bioactive coatings for titanium surfaces: a proteomic approach
Doctoral candidate: Andreia Filipa Lages Cerqueira
Director(s): Julio José Suay Antón, José Javier Martín de Llano
Date of the defense: 04/04/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: *Sustitutos traqueales generados por ingeniería tisular*
Doctoral candidate: Giovanna Foschini Martínez
Director(s): Genaro Galán Gil, Manuel Mata Roig, Carmen Carda Batalla
Date of the defense: 06/05/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Análisis del comportamiento de materiales de restauración sometidos a un ensayo de microtracción*
Doctoral candidate: Eva González Angulo
Director(s): Antonio Fons Font, Javier Casas Terrón, Juan Luis Román Rodríguez
Date of the defense: 08/07/2022
Grade: *Sobresaliente "cum laude"*

scientific activity

Research Group on Central Nervous System Tumors
Consolidated group

Group members

Leading Researcher, R4
Miguel Cerdá Nicolás. University

Established Researchers, R3
Concepción López Ginés. University
Javier Megías Vericat. University
Pedro Roldán Badía. Hospital. University
Teresa San Miguel Díez. University

Recognised Researchers, R2
Lisandra Muñoz Hidalgo. University
Pablo Cerdá Durán. University

Staff. Technician
Lara Navarro Cerveró. University

Researchers by categories

R2	R3	R4	STAFF
2	4	1	1

Researchers financed by competitive public calls or networks

R2
1

Strategic aims

Clinical-pathological study of 40 patients affected by primary glioblastoma according to established protocol

- Short-cell cultures and their viability analysis have been performed. Analysis by FISH of EGFR status and freezing of the different passes according to established methodology
- The study of the proteomic analysis of the 40 tumors (frozen samples) by Western Blott according to established methodology has been completed

Experimental study:

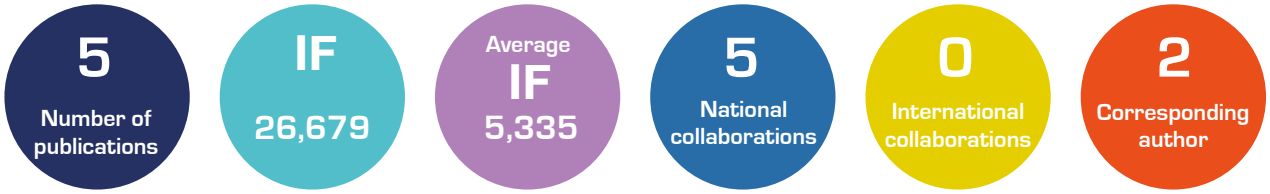
- Spheres (neurospheres) have been elaborated from different cell lines and cell cultures of glioblastoma, characterizing and analyzing their behavior
- Analysis of cultures subjected to silencing and overexpression by transfection of miRNAs by the lipofection method
- Analysis of cell cultures in hypoxia situation, analyzing their characteristics and behavior before silencing and overexpression by transfection of selected miRNAs in hypoxia situation and in the different amplification status of the EGFR
- The pilot study of viability and effectiveness of xenotransplantation in nude mice has been completed with the achievement of neoplasias under study

Main lines of research

- Primary GBM. Amplification status of EGFR and angiogenic/infiltrative phenotype. Molecular networks responsible for tumor modulation and reprogramming processes
- Role of microRNA in the regulation of EGFR-dependent signaling pathways in high-grade astrocytic gliomas
- Development of a model for analyzing the modulation of microRNA gene activity in cell cultures of primary GBM and GBM cell lines
- Development of a model of population analysis and spatial distribution of these neoplasias
- Metabolomics and microvascular environment characterization of aggressive human glioma by DCE-MRI and genetic study of biopsies

scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Megías J, San-Miguel T, Sánchez M, Navarro L, Monleón D, Calabuig-Fariñas S, Morales JM, Muñoz-Hidalgo L, Roldán P, Cerdá-Nicolás M, López-Ginés C. Desmoplastic infantile astrocytoma with atypical phenotype, PTEN homozygous deletion and BRAF V600E mutation. Acta Neuropathologica Communications. 2022 Jun 20;10(1):88. doi: 10.1186/s40478-022-01392-x. PMID: 35725578. IF: 7,581
2. San-Miguel T, Megias J, Monleon D, Navarro L, Munoz-Hidalgo L, Montoliu C, Meri M, Roldan P, Cerda-Nicolas M, Lopez-Gines C. Matched paired primary and recurrent meningiomas points to cell-death program contributions to genomic and epigenomic instability along tumor progression. Cancers. 2022 Aug 19;14(16):4008. doi: 10.3390/cancers14164008. PMID: 36011000. IF: 6,575
3. Gallego J, Fiorillo A, Casanova-Ferrer F, Urios A, Ballester M, Durban L, Megias J, Rubio T, Cabrera-Pastor A, Escudero-Garcia D, Felipo V, Montoliu C. Plasma extracellular vesicles play a role in immune system modulation in minimal hepatic encephalopathy. International Journal of Molecular Sciences. 2022 Oct 15;23(20):12335. doi: 10.3390/ijms232012335. PMID: 36293192. IF: 6,208
4. Ballester M, Gallego J, Fiorillo A, Casanova-Ferrer F, Gimenez-Garzo C, Escudero-Garcia D, Tosca J, Rios M, Monton C, Durban L, Ballester J, Benlloch S, Urios A, San-Miguel T, Kosenko E, Serra M, Felipo V, Montoliu C. Metabolic syndrome is associated with poor response to rifaximin in minimal hepatic encephalopathy. Scientific Reports. 2022 Feb 14;12(1):2463. doi: 10.1038/s41598-022-06416-z. PMID: 35165326. IF: 4,996
5. Sabater-Marco V, Cerveró LN, Losada LO, López NS. A pigmented nodule on congenital melanocytic nevus: challenge. American Journal of Dermatopathology. 2022 Oct 1;44(10):e108-e109. doi: 10.1097/DAD.0000000000002265. PMID: 36122342. IF: 1,319

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PID2021-125485NB-C21
Title: *Astrofísica computacional y análisis de datos*
Principal Investigator: Pablo Cerdá Durán
Funding body: *Ministerio de Ciencia e Innovación*
Beneficiary institution: *Universidad de Valencia*
Duration: 2022-2025
Total Budget: €207.000

Reference: AP-2021-001
Title: *LIGAM1: Efecto de la activación de TLR por medio de sus ligandos sobre la polarización de macrófagos hacia M1 y su función citocida frente a las células madre de glioblastoma*
Principal Investigator: Javier Megías Vericat and Andrea Cabrera Pastor
Funding body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total Budget: €4.607,5

THESIS

Thesis title: *Patrones de amplificación de EGFR en el glioblastoma, e identificación de biomarcadores implicados en sus principales vías de señalización*
Doctoral candidate: Lara Navarro Cerveró
Director(s): Concepción López Ginés, Miguel Cerdá Nicolás
Date of the defense: 28/10/2022
Grade: *Sobresaliente "cum laude"*

4 scientific activity

Research Group of Innovative Diagnostic and Therapeutical Developments in Solid Tumors - InDeST

Consolidated group

Group members

Leading Researcher, R4

Andrés Cervantes Ruipérez

Hospital. University

Established Researchers, R3

Desamparados Roda Pérez. Hospital

Gerardo López Rodas. University

Emerging researchers, R2

Noelia Tarazona Llavero. Hospital

Tania Fleitas Kanonnikoff. Hospital

Valentina Gambardella. Hospital

Recognised Researchers, R2

Amelia Insa Mollá. Hospital

Federica Papaccio. ESMO

Fernanda Gutiérrez Bravo. INCLIVA

Francisco Gimeno Valiente. INCLIVA

Jose A. Pérez Fidalgo. Hospital. University

Josefa Castillo Aliaga. University

María Carolina Martínez Ciarpaglini. Hospital. University

Susana Roselló Keranen. Hospital

First Stage Researchers, R1

Gema Bruixola Campos. Hospital

Jorge Martín Aranda. INCLIVA

José Francisco González Muñoz. INCLIVA

Lorena Alarcón Molero. INCLIVA

Manuel Cabeza Segura. INCLIVA

Marisol Huerta Álvaro. Hospital

Paloma Martín Martorell. Hospital

Staff. Collaborating Researcher

Clara Alfaro Cervelló. Hospital. University

Staff. Technicians

Alba Viala Monleón. INCLIVA

Alejandro Asturiano Pérez-Chao. INCLIVA

América Bueno Gómez. INCLIVA

Ana Mª Miralles Marco. INCLIVA

Andrea Marín Alonso. INCLIVA

Arantxa Sánchez Cosmo. INCLIVA

Beatriz López Montero. INCLIVA

Belén Martínez Castedo. INCLIVA

Blanca García Micó. INCLIVA

Carlos Peris Casilda. INCLIVA

Carme Mª Ortega Albiach. INCLIVA

Cristina Mongort Sanchis. INCLIVA

Eugenia Flores de la Luna. INCLIVA

Guillermo Moret Peiró. INCLIVA

Ignacio Castaño López. INCLIVA

José Francisco Catalá Senent. INCLIVA

Laura Olivares Ordóñez. INCLIVA

Mª Carmen Martínez López. INCLIVA

Mª Elena Duréndez Sáez. INCLIVA

Mª Pilar Natividad López. INCLIVA

Paloma Campos Bañegil. INCLIVA

Sergio Romero Alcaide. INCLIVA

Victoria Lucía Doldán Martelli. INCLIVA

Zahara Garzón Lloria. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
7	11	2	1	44

Researchers financed by competitive public calls or networks

R1	R2	STAFF
1	7	4

Team involved in

ciberonc

Staff. Nurses

Ana Ruiz Quílez. INCLIVA
Celia Martínez Ridaura. INCLIVA
Cristina Jordá Guerola. INCLIVA
Gloria Corredor Agulló. INCLIVA
Inma Blasco Blasco. University
Laura Martínez Lucía. INCLIVA
Laura Vera Riera. INCLIVA
Mª Isabel Calzadilla Luz. INCLIVA
Silvia Moreno Magraner. INCLIVA
Verónica Babiano Suárez. INCLIVA
Verónica García Oliver. INCLIVA

Staff. Administrative assistants

Ana Vercher Grau. INCLIVA
Carla Gil Ferri. INCLIVA
Elena Jiménez Martí. University
Enrique Castelló Moreno. INCLIVA
Gabriela Pérez Garrity. INCLIVA
Laura Boix Bartual. INCLIVA
Paranee Archavarat Sianmekan. INCLIVA
Paula Petruskevicius Fernández. INCLIVA

Strategic aims

Our group aims to improve the patient's life through the development of new diagnostic and therapeutic methods. In addition to this main goal, we intend to implement strategies to facilitate the development of precision medicine in solid tumors with innovative therapeutic approaches and provide knowledge on how to approach precision medicine in colorectal and gastric cancer from different points such as molecular classification, the use of predictive biomarkers and new therapeutic approaches.

Main lines of research

- To develop first-in-human Phase I trials of antineoplastic agents with innovative designs
- To develop liquid biopsies (ctDNA, cmicroRNAs) for early diagnosis, monitoring and the prediction of therapeutic effects in patients with gastro-intestinal malignancies
- To use the latest technologies to improve our knowledge of the molecular and genetic causes of cancer
- To implement the use of organoids (3D cell cultures) from patients as functional models, in order to understand the underlaying causes of tumorigenesis and to test the appropriateness of the treatments
- To expand current knowledge in gastric cancer microenvironment

Emerging Researchers

Noelia Tarazona Llavero

Our scientific pursuits revolve around utilizing liquid biopsy, specifically circulating tumor DNA in plasma, for various objectives. These objectives include the detection of minimal residual disease and its correlation with survival rates, understanding the mechanisms behind disease progression and therapy resistance, and identifying potential therapeutic targets. Additionally, we are intrigued by the application of circulating tumor cells in characterizing minimal residual disease, which can aid in its effective eradication. We also focus on establishing organoids derived from primary or metastatic tumors and circulating tumor cells obtained from patients with gastrointestinal cancers. Furthermore, we prioritize the investigation of novel biomarkers, such as the lack of CDX2 expression in localized colon cancer.

Tania Fleitas Kanonnikoff

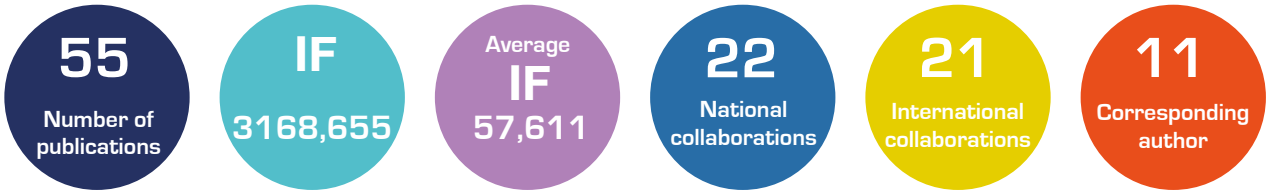
Our scientific interests are based on the understanding of the tumor immune microenvironment of Gastric Cancer. Moreover, we are also focused on the study of the clinical-epidemiological-molecular and the microbiome characteristics of patients with young gastric tumors under 50 years of age, the study of mechanisms of resistance of Her2-positive Gastric Cancer, to understand the differences and similarities among GC in European and Latin American population, and applying AI as a tool for gastric cancer prevention.

4 scientific activity

Valentina Gambardella

Our scientific interest is improving precision medicine for cancer patients through genomic and transcriptomic analyses with the aim of identifying specific druggable alterations beyond the standard biomarkers. This could offer the opportunity of entering promising early clinical trials with both targetted agents and novel immunotherapies. The multi-omic evaluation of tumor and microenvironment features at baseline and at time of progression, will help in understanding those molecular mechanisms related to resistance to anticancer drugs. In particular, our interest is studying these mechanisms in KRAS mutant NSCLC patients.

PUBLICATIONS



SELECTED PUBLICATIONS

1. Italiano A, Cassier PA, Lin C, Alanko T, Peltola KJ, Gazzah A, Shiah HS, Calvo E, Cervantes A, Roda D, Tosi D, Gao B, Millward M, Warburton L, Tanner M, Englert S, Lambert S, Parikh A, Afar DE, Vosganian G, Moreno V. First-in-human phase 1 study of budigalimab, an anti-PD-1 inhibitor, in patients with non-small cell lung cancer and head and neck squamous cell carcinoma. Cancer Immunology Immunotherapy. 2022 Feb;71(2):417-431. doi: 10.1007/s00262-021-02973-w. PMID: 34216247. IF: 6,63

2. Henriksen TV, Tarazona N, Frydendahl A, Reinert T, Gimeno-Valiente F, Carbonell-Asins JA, Sharma S, Renner D, Hafez D, Roda D, Huerta M, Rosello S, Madsen AH, Love US, Andersen PV, Thorlacius-Ussing O, Iversen LH, Gotschalck KA, Sethi H, Aleshin A, Cervantes A, Andersen CL. Circulating tumor DNA in stage III colorectal cancer, beyond minimal residual disease detection, towards assessment of adjuvant therapy efficacy and clinical behavior of recurrences. Clinical Cancer Research. 2022 Feb 1;28(3):507-517. doi: 10.1158/1078-0432.CCR-21-2404. PMID: 34625408. IF: 13,801

3. Ciardiello F, Ciardiello D, Martini G, Napolitano S, Tabernero J, Cervantes A. Clinical management of metastatic colorectal cancer in the era of precision medicine. CA-A Cancer Journal for Clinicians. 2022 Jul;72(4):372-401. doi: 10.3322/caac.21728. PMID: 35472088. IF: 286,13

4. Cabeza-Segura M, Gambardella V, Gimeno-Valiente F, Carbonell-Asins JA, Alarcon-Molero L, Gonzalez-Vilanova A, Zuniga-Trejos S, Rentero-Garrido P, Villagrasa R, Gil M, Dura A, Richart P, Alonso N, Huerta M, Rosello S, Roda D, Tarazona N, Martinez-Ciarpaglini C, Castillo J, Cervantes A, Fleitas T. Integrative immune transcriptomic classification improves patient selection for precision immunotherapy in advanced gastro-oesophageal adenocarcinoma. British Journal of Cancer. 2022 Dec;127(12):2198-2206. doi: 10.1038/s41416-022-02005-z. PMID: 36253523. IF: 9,075

5. Kim T, Burris H, de Miguel Luken M, Pishvaian M, Bang Y, Gordon M, Awada A, Camidge D, Hodi F, McArthur G, Miller W, Cervantes A, Chow L, Lesokhin A, Rutten A, Sznol M, Rishipathak D, Chen S, Stefanich E, Pourmohamad T, Anderson M, Kim J, Huseni M, Rhee I, Siu L. First-in-human phase I Study of the OX40 agonist MOXR0916 in patients with advanced solid tumors. Clinical Cancer Research. 2022 Aug 15;28(16):3452-3463. doi: 10.1158/1078-0432.CCR-21-4020. PMID: 35699599. IF: 13,801

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 825832 – LEGACy
Title: CeLac and European consortium for a personalized medicine approach to Gastric Cancer
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2023
Total Budget: €3.577.431,27 (INCLIVA: €638.315)

Reference: 101057514 - Mypath
Title: Developing and implementing innovative Patient-Centred Care Pathways for cancer patients
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico*

Universitario de Valencia
Duration: 2022-2027
Total Budget: €4.773.470 (INCLIVA: €388.125)

Reference: PI21/00689
Title: *Caracterización y abordaje de la enfermedad mínima residual en cáncer de colon localizado: un paso hacia la medicina de precisión*
Principal Investigator: Noelia Tarazona Llavero and Andrés Cervantes Ruipérez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €232.320

Reference: PI21/00693
Title: *Perfil de biomarcadores inmunes como herramienta para la identificación de pacientes con cáncer gástricos subsidiarios de inmunoterapia*
Principal Investigator: Tania Fleitas Kanonnikoff
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €208.120

Reference: PI21/00695
Title: *Transición mesenquimal como mecanismo asociado a inhibición de la respuesta inmune en el carcinoma colorrectal sin inestabilidad de microsatélites*
Principal Investigator: Mª Carolina Martínez Ciarpaglini
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €94.380

Reference: ICI20/00009
Title: *Investigación Clínica Independiente*
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total Budget: €1.039.970

Reference: PT20/00100
Title: Clinical Research Platform
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: Instituto de Salud Carlos III - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €199.650

Reference: CB16/12/00473
Title: *Centro de Investigación Biomédica en Red Cáncer (CIBERonc)*
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2017-

Reference: CPP2021-009064
Title: *Tratamiento innovador con ABTL0812 para el cáncer pancreático metastático: acortando los tiempos para su aprobación – INNOPANC*
Principal Investigator: Carles Domenech García (Susana Roselló as collaborating researcher)
Funding Body: *Ministerio de Ciencia e Innovación – Agencia Estatal de Investigación*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €180.599

Reference: GV/2021/006
Title: *Subvención a grupos de Investigación emergentes*
Principal Investigator: Clara Alfaro Cervelló
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €20.000

Title: *Valor pronóstico y predictivo de respuesta del microambiente del cáncer gástrico en personas jóvenes. Proyecto VERO*
Principal Investigator: Tania Fleitas Kanonnikoff
Funding Body: *GEMCAD - Grupo Español Multidisciplinar en Cáncer Digestivo*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €20.000

Title: *Secuenciación del exoma completo del DNA tumoral circulante y DNA genómico para aumentar la sensibilidad en la detección de la enfermedad mínima residual y abrir nuevas vías para la medicina personalizada en cáncer de colon localizado*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *Sociedad Española de Oncología Médica (SEOM)*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €20.000

Title: Tumor microenvironment-derived factors in localized colon cancer: clinical impact and therapeutic implications
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Asociación Española Contra el Cáncer*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €992.996

Title: *Organoides derivados de pacientes (PDOs) para personalizar el tratamiento en recaídas de cáncer de colon (CC) localizado mediante secuenciación del exoma completo y del DNA genómico*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: Digestive Tumors Treatment Group (TTD)
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €40.000

Title: *Carcionogénesis colorrectal: la interacción el microambiente tumoral y las células madre. Impacto en el tratamiento personalizado*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *Fundación Mutua Madrileña*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €130.000

Title: Decoding GC microenvironment: a new step towards precision immunotherapy
Principal Investigator: Tania Fleitas Kanonnikoff
Funding body: *Asociación Española Contra el Cáncer*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2026
Total budget: €53.000

Reference: PI-2021-007
Title: *DIRUGEN: Diseño e investigación de nuevos compuestos de rutenio (III) basados en biomoléculas como potenciales agentes antitumorales*
Principal Investigator: Francisco José Martínez Lillo and Tania Fleitas Kanonnikoff
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €19.000

Reference: AP-2021-008
Title: *PROTORGANOIDE: Medicina personalizada y de precisión a través del análisis proteómico de organoides*
Principal Investigator: Manuel Martín Sánchez del Pino and Josefa Castillo Aliaga
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

THESIS

Thesis title: *Establecimiento de organoides derivados de pacientes con carcinoma colorrectal como modelo para cribado de drogas con acción antitumoral*
Doctoral candidate: Mª Fernanda Gutiérrez Bravo
Director(s): Josefa Castillo Aliaga, Andrés Cervantes Ruipérez
Date of the defense: 04/02/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Breast Cancer Biology
Consolidated group

Group members

Leading Researchers, R4

Ana Lluch Hernández

University

Pilar Eroles Asensio

University. INCLIVA

Established Researchers, R3

Antonio Millet Serrano. University

Isabel Chirivella González. Hospital. University

Octavio Burgues Gasión. Hospital. University

Recognised Researchers, R2

Anna Adam-Artigues. AECC

Begoña Bermejo De Las Heras. Hospital. University

Begoña Pineda Merlo. University

Diego Soriano Mena. Hospital

Eduardo Tormo Martín. CIBER

Elvira Buch Villa. Hospital

Iris Garrido Cano. CIBER

Juan Miguel Cejalvo Andújar. Hospital

Lidia González Villena. INCLIVA

María Teresa Martínez Martínez. Hospital

First Stage Researchers, R1

Ana María Ágreda Roca. AECC

Ana Caterina Lameirinhas. AECC

Cristina Hernando Meliá. Hospital

Juan José Martínez Pretel. INCLIVA

Sandra Torres Ruiz. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
5	10	3	2	10

Researchers financed by competitive public calls or networks

R1	R2	R4
4	5	1

Staff. Collaborating Researcher

Esther Jordá Sorolla. Hospital. University

Staff. Technicians

Anna Quirant Pellín. INCLIVA

Elisa Alonso Yuste. INCLIVA

Júlia Soler Flores. INCLIVA

Staff. Nurses

Cristina Tébar Sánchez. INCLIVA

Patricia Martínez Belenguer. INCLIVA

Silvia Coret Sinisterra. INCLIVA

Sara Rodríguez Pestano. INCLIVA

Staff. Administrative assistants

Cristina Parrilla Muñoz. Hospital

Yolanda De La Cruz Robles. INCLIVA

Strategic aims

Resistance to treatments:

- Study of resistance mechanisms to anti-HER2 therapy in HER2+ breast cancer and search for therapeutic options
- Discover the mechanisms of resistance to therapy in triple negative breast cancer and search for alternative therapies

Metastatic setting:

- Multicenter phase II study of lurbinectedin in BRCA-mutated and unselected metastatic advanced breast cancer and biomarker assessment substudy
- Analysis of postmastectomy radiation therapy in women with T1-T2 tumors and 1 to 3 positive lymph nodes

4 scientific activity

ER+ breast cancer:

- Evaluation of the outcomes of single versus double hormone receptor-positive breast cancer
- Description that the ER+ breast cancers resistant to prolonged neoadjuvant letrozole exhibit an E2F4 transcriptional program sensitive to CDK4/6 inhibitors
- Design of adjuvant endocrine therapy for premenopausal breast cancer

Breast cancer in very young women:

- Identification of biomarkers
- Review of breast cancer in pregnant patients

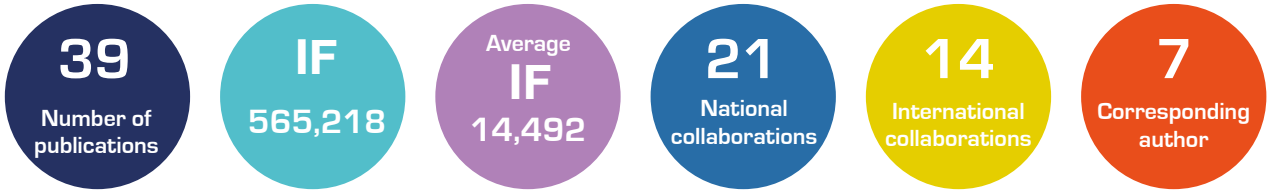
Prognostic and prediction:

- Prognostic role for the derived neutrophil-to-lymphocyte ratio in early breast cancer
- Evaluation of the pathologic complete response rate to neoadjuvant chemotherapy in triple negative breast cancer subtypes
- Prediction of residual disease after neoadjuvant therapy in HER2-positive breast cancer
- Study of the incidence, characteristics, and prevention of the alopecia following adjuvant docetaxel
- Molecular characterization of oligometastatic breast cancer patients

Main lines of research

- Cell resistance to anti-HER2 therapy and identification of strategies to overcome resistance
- Multidisciplinary dissection of the chemotherapy resistance mechanisms in triple negative breast cancer
- Molecular and Clinical characterization of breast tumors from very young women
- The role of AXL in trastuzumab-resistant breast cancer and modulation of tumor microenvironment
- Clinical and molecular characterization of oligometastatic breast cancer
- Study of biomarkers in liquid biopsy for early diagnosis of hereditary syndromes of predisposition to breast cancer
- Involvement of miRNAs and other epigenetic regulations in breast cancer processes
- Mesoporous silica nanoparticles as an innovative approach for breast cancer treatment

PUBLICATIONS



SELECTED PUBLICATIONS

1. Cortes J, Rugo H, Cescon D, Im S, Yusof M, Gallardo C, Lipatov O, Barrios C, Perez-Garcia J, Iwata H, Masuda N, Otero M, Gokmen E, Loi S, Guo Z, Zhou X, Karantza V, Pan W, Schmid P. Pembrolizumab plus chemotherapy in advanced triple-negative breast cancer. New England Journal of Medicine. 2022 Jul 21;387(3):217-226. doi: 10.1056/NEJMoa2202809. PMID: 35857659. IF: 176,079

2. Gianni L, Huang CS, Egle D, Bermejo B, Zamagni C, Thill M, Anton A, Zambelli S, Bianchini G, Russo S, Ciruelos EM, Greil R, Semiglazov V, Colleoni M, Kelly C, Mariani G, Del Mastro L, Maffeis I, Valagussa P, Viale G. Pathologic complete response (pCR) to neoadjuvant treatment with or without atezolizumab in triple-negative, early high-risk and locally advanced breast cancer: NeoTRIP Michelangelo randomized study. Annals of Oncology. 2022 May;33(5):534-543. doi: 10.1016/j.annonc.2022.02.004. PMID: 35182721. IF: 51,769

3. Garrido-Cano I, Adam-Artigues A, Lameirinhas A, Blandez J, Candela-Noguera V, Rojo F, Zazo S, Madoz-Gurpide J, Lluch A, Bermejo B, Sancenon F, Cejalvo J, Martinez-Manez R, Eroles P. miR-99a-5p modulates doxorubicin resistance via the COX-

2/ABCG2 axis in triple-negative breast cancer: from the discovery to in vivo studies. Cancer Communications. 2022 Dec;42(12):1412-1416. doi: 10.1002/cac2.12352. PMID: 35997029. IF: 15,283

4. Adam-Artigues A, Arenas E, Martinez-Sabadell A, Braso-Maristany F, Cervera R, Tormo E, Hernando C, Martinez M, Carbonell-Asins J, Simon S, Poveda J, Moragon S, Zazo S, Martinez D, Rovira A, Burgues O, Rojo F, Albanell J, Bermejo B, Lluch A, Prat A, Arribas J, Eroles P, Cejalvo J. Targeting HER2-AXL heterodimerization to overcome resistance to HER2 blockade in breast cancer. Science Advances. 2022 May 20;8(20):eabk2746. doi: 10.1126/sciadv.abk2746. PMID: 35594351. IF: 14,957

5. Pérez-Núñez I, Rozalén C, Palomeque JÁ, Sangrador I, Dalmau M, Comerma L, Hernández-Prat A, Casadevall D, Menendez S, Liu DD, Shen M, Berenguer J, Ruiz IR, Peña R, Montañés JC, Albà MM, Bonnin S, Ponomarenko J, Gomis RR, Cejalvo JM, Servitja S, Marzese DM, Morey L, Voorwerk L, Arribas J, Bermejo B, Kok M, Pusztai L, Kang Y, Albanell J, Celià-Terrassa T. LCOR mediates interferon-independent tumor immunogenicity and responsiveness to immune-checkpoint blockade in triple-negative breast cancer. Nature Cancer. 2022 Mar;3(3):355-370. doi: 10.1038/s43018-022-00339-4. PMID: 35301507. IF: 23,177

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 965231-REBECCA
Title: REsearch on BrEast Cancer induced chronic conditions supported by Causal Analysis of multi-source data
Principal Investigator: Aristotelio Panepistimio Thessalonikis (Cristina Hernando as collaborating researcher)
Funding Body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2025
Total budget: €466.125

Reference: PI21/01351
Title: *Predicción de enfermedad residual después de la terapia neoadyuvante en cáncer de mama HER2 positivo e identificación de estrategias para superar la resistencia*
Principal Investigator: Pilar Eroles Asensio
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €123.420

Reference: NanoOncoTME
Title: Mesoporous silica nanoparticles targeting tumor micro-environment as an innovative approach for breast cancer treatment
Principal Investigator: Ana Lluch and Alba García
Funding Body: CIBER-BBN
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €16.250

Title: *Papel de AXL en la modulación del microambiente tumoral e implicaciones terapéuticas en cáncer de mama HER2 positivo*
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: *Sociedad Española de Oncología Médica*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €30.000

Title: *Estudio de biomarcadores en biopsia líquida para diagnóstico precoz en síndromes hereditarios de predisposición a cáncer de mama (SHCM)*
Principal Investigator: Isabel Chirivella González
Funding Body: *Sociedad Española de Oncología Médica*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €20.000

Title: Clinical and molecular characterization of oligometastatic breast cancer: revealing and improving the potential benefit of a local treatment on primary or metastatic sites. A multicentric study
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: *Asociación Española de Cáncer de Mama Metastásico*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €40.000

Title: The role of AXL in modulating tumor microenvironment as potential therapeutic strategy for HER2-positive breast cancer
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: Gilead Fellowship Program
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €49.350

Title: The role of AXL modulating tumor microenvironment as potential therapeutic strategy for HER2-positive breast cancer
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: Fundación FERO
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €80.000

Title: The role of AXL and tumor microenvironment in determining resistance to anti-HER2 agents in HER2 amplified breast cancer models
Principal Investigator: Ana Mª Ágreda Roca
Funding Body: *Fundación Científica Asociación Española Contra el Cáncer*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.000

Title: *Disección multidisciplinar de los mecanismos de resistencia a quimioterapia en cáncer de mama triple negativo: un paso hacia una mejor atención clínica*
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: *Asociación Española Contra el Cáncer*
Beneficiary institution: *CIBERONC/Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €268.500

Title: Multidisciplinary dissection of the chemotherapy resistance mechanisms in triple negative breast cancer: a step towards improved clinical care
Principal Investigator: Ángel R Nebreda (Juan Miguel Cejalvo as collaborating researcher)
Funding Body: Instituto de Investigación Biomédica-IRB
Beneficiary institution: *CIBERONC/Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2026
Total budget: €268.500

Title: *Factores pronósticos y predictivos en cáncer de mama oligometastásico que identifiquen pacientes en las que el tratamiento local sobre la metástasis aumente su supervivencia: beneficio del estadio NED (no evidencia de enfermedad)*
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: *METAPREMIOS 1. Asociación de Cáncer de Mama Metastático*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020- 2022
Total budget: €16.500

Title: *Dimerización de AXL-HER2 como mecanismo de resistencia adquirida a la terapia anti-HER2 en cáncer de mama HER2+: un paso hacia la medicina de precisión*
Principal Investigator: Juan Miguel Cejalvo Andújar
Funding Body: ADAMED
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €18.000

THESIS

Thesis title: Overcoming resistance to HER2 blockade in breast cancer: AXL as a promising druggable target and prognostic biomarker
Doctoral candidate: Anna Adam Artigues
Director(s): Ana Lluch Hernández, Pilar Eroles Asensio
Date of the defense: 12/04/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Research Group on Skin Cancer
Consolidated group

Group members

Leading Researcher, R4
José Carlos Monteagudo Castro
Hospital. University

Recognised Researchers, R2
José Mª Martín Hernández. Hospital. University
Liria Terrádez Más. Hospital. University
Silvia Pérez Debén. INCLIVA

First Stage Researchers, R1
Anaïs Moscardó Navarro. INCLIVA
Andrés Mosquera Zamudio. INCLIVA

Researchers by categories

R1 2 | R2 3 | R4 1 | STAFF 2

Researchers financed by competitive public calls or networks

R4 1

Staff. Collaborating researcher
Beatriz Sánchez Sendra. INCLIVA

Staff. Technician
Esther Álvarez Vilanova. Hospital

Strategic aims

- Transcriptomic identification of miRNA-205 target genes potentially involved in metastasis and survival of cutaneous malignant melanoma
- Search for a genetic and/or epigenetic signature which permit a more precise diagnosis and prediction of the metastatic potential of ambiguous melanocytic lesions, and particularly of spitzoid tumors
- Identification of circulating miRNAs which may serve as prognostic and/or staging biomarkers in patients with primary cutaneous melanoma

Main lines of research

- Prognostic value of intratumoral and circulating microRNAs in melanoma tumor progression and clinical outcome
- Improvement by circulating biomarkers of melanoma staging schedule at the time of diagnosis
- Machine learning in the study of whole slide digitized images of spitzoid melanocytic tumors for diagnosis and prognosis improvement
- Evaluation of long- and short-term morphological changes in melanocytic nevi in a digitized dermoscopic unit

PUBLICATIONS

10 Number of publications

IF 42,341

Average IF 4,234

6 National collaborations

1 International collaborations

3 Corresponding author

SELECTED PUBLICATIONS

1. Mosquera-Zamudio A, Launet L, Tabatabaei Z, Parra-Medina R, Colomer A, Moll J, Monteagudo C, Janssen E, Naranjo V. Deep learning for skin melanocytic tumors in whole-slide images: a systematic review. Cancers. 2022 Dec 21;15(1):42. doi: 10.3390/cancers15010042. PMID: 36612037. IF: 6,575

2. Sanchez-Sendra B, Perez-Deben S, Gonzalez-Munoz JF, Murgui A, Monteagudo C. Prognostic value of IGF2 mRNA-Binding Protein 3 (IGF2BP3) intratumoral expression in melanoma patients at the time of diagnosis: comparative analysis of rt-qpcr versus immunohistochemistry. Cancers. 2022 May 7;14(9):2319. doi: 10.3390/cancers14092319. PMID: 35565448. IF: 6,575
3. Sanchez-Sendra B, Gonzalez-Munoz J, Perez-Deben S, Monteagudo C. The prognostic value of miR-125b, miR-200c and miR-205 in primary cutaneous malignant melanoma is independent of BRAF mutational status. Cancers. 2022 Mar 16;14(6):1532. doi: 10.3390/cancers14061532. PMID: 35326682. IF: 6,575
4. Rios-Martin J, Rodriguez-Salas N, Vazquez-Doval F, Llombart B, Rojas-Ferrer N, Gonzalez-Vela M, Zulueta T, Monteagudo C, Aneiros-Fernandez J, Beato M, Carrillo R, Silva-Carmona M, Ayala M, Gallego E, Rodriguez-Peralto J, Fraga-Fernandez J, Fernandez-Figueras M, Barranco C, Cordoba A, Sanz-Zorrilla A, Ferrer B, Funez R, Santonja C, Saus C, Idoate M, Santos-Briz A, Onrubia J, Pinedo F, de Las Penas R. Clinical and pathological features of Merkel cell carcinoma: a 4-year follow-up observational retrospective study in Spain. Cancer Epidemiology. 2022 Feb;76:102081. doi: 10.1016/j.canep.2021.102081. PMID: 34922051. IF: 2,89
5. Moral R, Monteagudo C, Muriel J, Moreno L, Peiro A. Fluorescent in situ hybridization (FISH): a useful diagnostic tool for childhood conjunctival melanoma. European Journal of Ophthalmology. 2022 Nov;32(6):NP13-NP19. doi: 10.1177/11206721211030775. PMID: 34240653. IF: 1,922

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 860627- H2020 - Marie Skłodowska-Curie Innovative Training Networks
Title: Cloud Artificial Intelligence for pathology-CLARIFY
Principal Investigator: José Carlos Monteagudo Castro
Funding body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2023
Total Budget: €252.000

Reference: PI20/00094
Title: *Análisis combinado por Inteligencia Artificial de marcadores epigenéticos e imágenes microscópicas digitalizadas de tumores melanocíticos ambiguos para optimizar su clasificación diagnóstica y pronóstica*
Principal Investigator: José Carlos Monteagudo Castro
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total Budget: €220.220

Title: *Sistema de visión artificial aumentada para la caracterización molecular y morfológica del cáncer de piel*
Principal Investigator: Carlos Monteagudo Castro
Funding body: *Agencia Valenciana de la Innovación-AVI Generalitat Valenciana*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total Budget: €192.868,53

THESIS

Thesis title: *Análisis comparativo de perfiles proteómicos endometriales y estudio del efecto disruptor del cobre y plomo sobre la receptividad endometrial*
Doctoral candidate: Silvia Pérez Debén
Director(s): Francisco Domínguez Hernández, José Remohí Giménez
Date of the defense: 02/06/2022
Grade: *Sobresaliente "cum laude"*

Translational Research Group on Pediatric Solid Tumors
Consolidated group

Group members

Leading Researchers, R4

Samuel Navarro Fos

Hospital. University

Rosa Noguera Salvá

University

Established Researcher, R3

Inmaculada Noguera Salvá. University

Recognised Researchers, R2

Mª Amparo López Carrasco. CIBER

Sofía Granados Aparici. INCLIVA

First Stage Researchers, R1

Ezequiel Monferrer Garzarán. AECC

Isaac Vieco Martí. INCLIVA

Staff. Collaborating Researchers

Laura Martínez Salinas. INCLIVA

Mara Stoks. INCLIVA

Ruth Collado Subirats. INCLIVA

Staff. Technician

Ruth Panadero Montés. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
2	2	1	2	4

Researchers financed by competitive public calls or networks

R1	R2	STAFF
2	1	4

Team involved in

ciberonc

Strategic aims

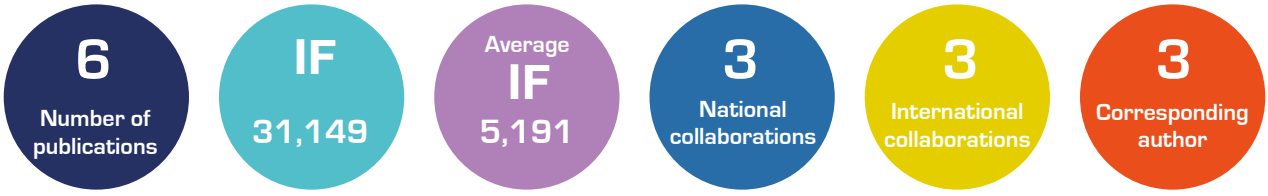
- Genomic heterogeneity in neuroblastoma (NB)
- 3D in vitro and xenotransplant models of NB
- Importance of extracellular matrix and stroma cells (including immune cells) in tumors
- Morphological and molecular analysis of neuroblastic and malignant infantile skeletal tumors

Main lines of research

- Genetic analysis in neuroblastoma. At the European level, we participate in the establishment of a uniform nomenclature, and standard practices and quality validation studies, essential to obtain and maintain high quality in genetic results used for therapeutic stratification
- Identification of new genetic factors with prognostic value in neuroblastic and malignant infantile skeletal and soft tissue tumors
- Digital analysis of diagnostic, prognostic and therapeutic biomarkers in tumors
- Tumor microenvironment studies in tumors
- Preclinical models. Obtaining and characterizing cell lines in vivo and in vitro (2D and 3D) from fresh tumor material

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Machado I, Bujeda A, Giner F, Morales M, Cruz J, Lavernia J, Navarro S, Ferrandez A, Ruiz-Sauri A, Llombart-Bosch A. Evaluation of alternative risk stratification systems in a large series of solitary fibrous tumors with molecular findings and Ki-67 Index Data: do they improve risk assessment?. International Journal of Molecular Sciences. 2022 Dec 27;24(1):439. doi: 10.3390/ijms24010439. PMID: 36613891. IF: 6,208
2. Monferrer E, Dobre O, Trujillo S, Oliva M, Trubert-Paneli A, Acevedo-Leon D, Noguera R, Salmeron-Sanchez M. Vitronectin-based hydrogels recapitulate neuroblastoma growth conditions. Frontiers in Cell and Developmental Biology. 2022 Oct 11;10:988699. doi: 10.3389/fcell.2022.988699. PMID: 36425532. IF: 6,081
3. Sonzini G, Granados-Aparici S, Sanegre S, Diaz-Lagares A, Diaz-Martin J, de Andrea C, Eritja N, Bao-Caamano A, Costa-Fraga N, Garcia-Ros D, Salguero-Aranda C, Davidson B, Lopez-Lopez R, Melero I, Navarro S, Ramon Y Cajal S, de Alava E, Matias-Guiu X, Noguera R. Integrating digital pathology with transcriptomic and epigenomic tools for predicting metastatic uterine tumor aggressiveness. Frontiers in Cell and Developmental Biology. 2022 Nov 18;10:1052098. doi: 10.3389/fcell.2022.1052098. PMID: 36467415. IF: 6,081
4. Martinez-Monleon A, Oberg H, Gaarder J, Berbegall A, Javanmardi N, Djos A, Ussowicz M, Taschner-Mandl S, Ambros I, Ora I, Sandstedt B, Beiske K, Ladenstein R, Noguera R, Ambros P, Murkes L, Ljungman G, Kogner P, Fransson S, Martinsson T. Amplification of CDK4 and MDM2: a detailed study of a high-risk neuroblastoma subgroup. Scientific Reports. 2022 Jul 20;12(1):12420. doi: 10.1038/s41598-022-16455-1. PMID: 35859155. IF: 4,996
5. Vieco-Marti I, Lopez-Carrasco A, de la Cruz-Merino L, Noguera R, Alvaro Naranjo T. The complexity of cancer immunotherapy illustrated through skin tumors. International Journal of Biological Markers. 2022 Jun;37(2):113-122. doi: 10.1177/03936155221088884. PMID: 35473449. IF: 3,248

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI20/01107
Title: *Neuroblastoma: estrategias mecanoterapéuticas basadas en modelos 3D y tumores derivados de pacientes con microambiente rico en vitronectina*
Principal Investigator: Rosa Noguera Salvá
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €232.320

Reference: CB16/12/00484
Title: *Centro de Investigación Biomédica en Red de Oncología (CIBERonc)*
Principal Investigator: Rosa Noguera Salvá
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Universidad de Valencia*
Duration: 2017-
Total budget: €360.000

Reference: CASA-DP
Title: Cancer Stroma Assessment through Digital Pathology
Principal Investigator: Núria Malats (Rosa Noguera Salvá as collaborating researcher)
Funding body: CIBERONC
Beneficiary institution: CIBERONC
Duration: 2021-2023
Total budget: €90.000

Reference: PMP21/00107
Title: INtegrative GENomic, digital Imaging and clinical information towars Precision Oncology Optimization - INGENIO
Principal Investigator: Luis Paz-Ares Rodríguez (Rosa Noguera, Samuel Navarro, Amparo López and Sofía Granados as collaborating researchers)
Funding body: *Ministerio de Ciencia e Innovación*
Beneficiary institution: CIBERONC
Duration: 2021-2024
Total budget: €3.780.700

Reference: IDIFEDER/2021/067
Title: *Implantación de una plataforma de análisis genético de última generación para la investigación en genética biomédica*
Principal Investigator: Rosa Noguera Salvá
Funding body: *Conselleria de Educación, Investigación, Cultura y Deporte*
Beneficiary institution: *Universidad de Valencia*
Duration: 2021-2027
Total budget: €365.142,5

Title: *Identificación de nuevas dianas terapéuticas relacionadas con la matriz extracelular de los sarcomas "Ewing-like": estudio morfo-molecular*
Principal Investigator: Rosa Noguera Salvá and Enrique de Álava
Funding body: *FISEVI - Fundación CRIS*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €60.000

Reference: PRV00166
Title: *Espacio intercelular: Bioimagen microscópica, Fase II*
Principal Investigator: Rosa Noguera Salvá
Funding body: *Fundación Neuroblastoma*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total budget: €20.000

Research Group on Hematopoietic Transplantation
Consolidated group

Group members

Leading Researcher, R4
Carlos Solano Vercet
Hospital. University

Recognised Researcher, R3
José Luis Piñana Sánchez. Hospital

Recognised Researchers, R2
María José Remigia Pellicer. Hospital
Paula Amat Martínez. Hospital. University
Rafael Hernani Morales. Hospital

First Stage Researchers, R1
Ariadna Pérez Martínez. Hospital
Rut Meseguer Naturil. INCLIVA

Staff. Collaborating Researchers
Alfonso Ortiz Algarra. INCLIVA
Ana Benzanquén Vallejos. Hospital
Rosa Goterris Viciedo. Hospital

Staff. Nurses
Ana Miralles Whitehead. INCLIVA
Elisa Núñez Biota. INCLIVA
Julia Carrió Fito. INCLIVA
Marina Hernández Aliaga. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



Staff. Technicians
Ana Riera Calabuig. INCLIVA
Clara Seherazade Osca Gómez. INCLIVA
Diana Campos Beltrán. INCLIVA
Elena Ferrer Martínez del Peral. INCLIVA
Francisca Fernández Olmo. INCLIVA
Mª Pilar Ortiz Gavilán. INCLIVA
Vicent Cuevas Mauricio. INCLIVA

Strategic aims

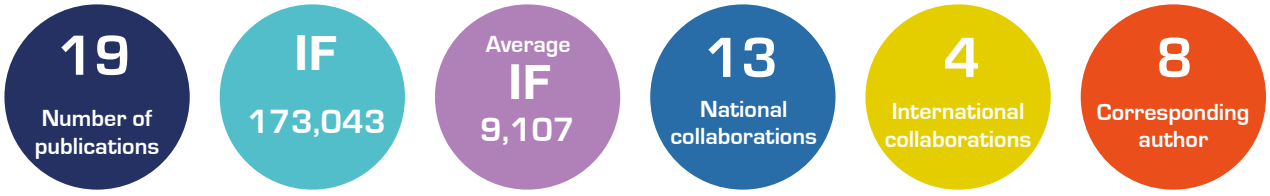
- Translational research on biology and treatment of graft-versus-host disease after allogeneic transplantation of hematopoietic progenitor cells
- Infection and immune reconstitution after haematopoietic transplant
- Development of an Advanced Therapies- clinical and translational program in *Hospital Clínico Universitario de Valencia* – INCLIVA
- Design and implementation of an outpatient programme in hematopoetic transplant and cellular therapy

Main lines of research

- Translational research on complications of allogeneic hematopoietic transplantation: graft-versus-host disease
- Infection and immune reconstitution after hematopoietic transplantation
- Translational research of alloreactivity in the context of new modalities of allogeneic transplantation from compatible and incompatible alternative donors (haploidentical transplant)
- Clinical application of gene and cellular therapy using CAR-T and other immune effector cells
- Scientific and logistical implications of the implementation of a transplant programme in the outpatient setting

scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Pinana JL, Lopez-Corral L, Martino R, Vazquez L, Perez A, Martin-Martin G, Gago B, Sanz-Linares G, Sanchez-Salinas A, Villalon L, Conesa-Garcia V, Olave MT, Corona M, Marcos-Corrales S, Tormo M, Hernandez-Rivas JA, Montoro J, Rodriguez-Fernandez A, Risco-Galvez I, Rodriguez-Belenguer P, Hernandez-Boluda JC, Garcia-Cadenas I, Ruiz-Garcia M, Munoz-Bellido JL, Solano C, Cedillo A, Sureda A, Navarro D. SARS-CoV-2 vaccine response and rate of breakthrough infection in patients with hematological disorders. Journal of Hematology & Oncology. 2022 May 7;15(1):54. doi: 10.1186/s13045-022-01275-7. PMID: 35526045. IF: 23,168

2. Hernani R, Benzaquen A, Solano C. Toxicities following CAR-T therapy for hematological malignancies. Cancer Treatment Reviews. 2022 Dec;111:102479. doi: 10.1016/j.ctrv.2022.102479. PMID: 36308910. IF: 13,608

3. Pinana J, Lopez-Corral L, Martino R, Montoro J, Vazquez L, Perez A, Martin-Martin G, Facal-Malvar A, Ferrer E, Pascual M, Sanz-Linares G, Gago B, Sanchez-Salinas A, Villalon L, Conesa-Garcia V, Olave M, Lopez-Jimenez J, Marcos-Corrales S, Garcia-Blazquez M, Garcia-Gutierrez V, Hernandez-Rivas J, Saus A, Espigado I, Alonso C, Hernani R, Solano C, Ferrer-Lores B, Guerreiro M, Ruiz-Garcia M, Munoz-Bellido J, Navarro D, Cedillo A, Sureda A, Infectious Complications Subcommittee of the Spanish Hematopoietic Stem, Cell Transplantation and Cell Therapy Group (GETH-TC). SARS-CoV-2-reactive antibody detection after SARS-CoV-2 vaccination in hematopoietic stem cell transplant recipients: Prospective survey from the Spanish Hematopoietic Stem Cell Transplantation and Cell Therapy Group (GETH-TC). American Journal of Hematology. 2022 Jan 1;97(1):30-42. doi: 10.1002/ajh.26385. PMID: 34695229. IF: 13,265

4. Bastos-Oreiro M, Gutierrez A, Reguera J, Iacoboni G, Lopez-Corral L, Terol M, Ortiz-Maldonado V, Sanz J, Guerra-Dominguez L, Bailen R, Mussetti A, Abrisqueta P, Hernani R, Luzardo H, Sancho J, Delgado-Serrano J, Salar A, Grande C, Bento L, de Villambrosia S, Garcia-Belmonte D, Sureda A, Perez-Martinez A, Barba P, Kwon M, Garcia-Sancho A. Best treatment option for patients with refractory aggressive B-cell lymphoma in the CAR-T cell era: real-world evidence from GELTAMO/GETH Spanish Groups. Frontiers in Immunology. 2022 Jul 12;13:855730. doi: 10.3389/fimmu.2022.855730. PMID: 35911769. IF: 8,786

5. Pinana J, Rodriguez-Belenguer P, Caballero D, Martino R, Lopez-Corral L, Terol M, Vazquez L, Calabuig M, Sanz-Linares G, Marin-Jimenez F, Alonso C, Montoro J, Ferrer E, Facal A, Pascual M, Rodriguez-Fernandez A, Olave M, Cascales-Hernandez A, Gago B, Hernandez-Rivas J, Villalon L, Corona M, Roldan-Perez A, Ribes-Amoros J, Gonzalez-Santillana C, Garcia-Sanz R, Navarro D, Serrano-Lopez A, Cedillo A, Soria-Olivas E, Sureda A, Solano C. Applicability of probabilistic graphical models for early detection of SARS-CoV-2 reactive antibodies after SARS-CoV-2 vaccination in hematological patients. Annals of Hematology. 2022 Sep;101(9):2053-2067. doi: 10.1007/s00277-022-04906-8. PMID: 35780254. IF: 4,03

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/01628

Title: *Inmunobiología de células NK expandidas con criterios GMP de donantes seleccionados de banco de linfocitos para inmunoterapia adoptiva después de TPH alogénico o trasplante de órgano sólido*

Principal Investigator: Carlos Solano Vercet

Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2024

Total budget: €102.850

Reference: PI18/01473

Title: *Inmunobiología de la infusión de linfocitos del donante con*

depleción ex vivo de linfocitos T CD45RA+ en pacientes con alto riesgo de infección viral tras TPH alogénico
Principal Investigator: Carlos Solano Vercet
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2023
Total budget: €123.420

Reference: PI17/01097
Title: *Score integrado de factores inmunológicos y genotípicos de predicción del riesgo y evolución de la infección por CMV en pacientes con trasplante renal*
Principal Investigator: María José Remigia Pellicer
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2018-2022
Total budget: €32.670

Reference: ICI21/00016
Title: *Terapia celular combinada para pacientes COVID-19 de alto riesgo de mortalidad (DECODE-19)*
Principal Investigator: Bernat Soria Escoms (Carlos Solano as collaborating researcher)
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Instituto de Investigación Sanitaria y Biomédica de Alicante (ISABIAL)*
Duration: 2021-2024
Total budget: €459.800

Title: *Inmunobiología de la infusión de linfocitos del donante con depleción ex vivo de linfocitos T CD45RA+ en pacientes con alto riesgo de infección viral tras TPH alogénico*
Principal Investigator: Carlos Solano Vercet
Funding body: Janssen - Cilag S.A.
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total budget: €42.500

Title: *Torquetenovirus en terapia CAR-T: predicción del riesgo de síndrome de liberación de citocinas y diagnóstico diferencial con infección*
Principal Investigator: Rafael Hernani Morales
Funding body: *Fundación Española de Hematología y Hemoterapia-Gilead*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €60.000

Reference: BIO21/COV/030
Title: *Estudio de la inmunidad y Creación de un Banco Nacional de Terapia Celular Adoptiva de donantes de linfocitos que han superado COVID-19. Ensayo clínico Fase I multicéntrico para evaluar la seguridad de la infusión de células natural killer como terapia adoptiva en casos pacientes con neumonía y/o linfopenia debido al coronavirus SARS-CoV-2 (RELEASE)*
Principal Investigator: Cristina Eguizabal (Carlos Solano as collaborating researcher)
Funding body: *Fundación Vasca de Innovación e investigación Sanitarias (BIOEFF)*
Beneficiary institution: *Instituto de Investigación Sanitaria Biocruces*
Duration: 2021-2022
Total budget: €99.935

Title: Immunobiology of GMP-compliant expanded NK cells from selected lymphocyte-bank-registry donors for adoptive immunotherapy after allogeneic HSC in hematological neoplasias or solid organ transplantation
Principal Investigator: Rut Meseguer Naturil
Funding body: *Fundación Científica Asociación Española Contra el Cáncer*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.000

Reference: PI-2021-004
Title: *TECO: Validación de dos sistemas biosensor para la diagnosis simultánea de COVID19 y otros patógenos aéreos*
Principal Investigator: David Giménez Romero (José Luis Piñana as collaborating researcher)
Funding body: *Universidad de Valencia* - INCLIVA
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €19.000

THESIS

Thesis title: *Significado pronóstico de la expresión del factor de crecimiento endotelial vascular (VEGF) y de genes implicados en las vías de señalización del VEGF en pacientes con leucemia aguda mieloblástica*
Doctoral candidate: Marisa Calabuig Muñoz
Director(s): Mar Tormo Díaz, Carlos Solano Vercet
Date of the defense: 04/05/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Impacto de la alorreactividad NK en el trasplante haploidéntico de progenitores hematopoyéticos asociado al uso de la ciclofosfamida postrasplante*
Doctoral candidate: Mª Mar Luis Hidalgo
Director(s): Carlos Solano Vercet, José Luis Piñana Sánchez, Dolores Planelles Silvestre
Date of the defense: 21/12/2022
Grade: *Sobresaliente "cum laude"*

scientific activity

Research Group on Lymphoproliferative Disorders
Consolidated group

Group members

Researchers by categories



Leading Researcher, R4

Mª José Terol Casterá

Hospital. University

Established Researcher, R3

Antonio Ferrández Izquierdo. Hospital. University

Recognised Researchers, R2

Ana Isabel Teruel Casasús. Hospital. University

Blanca Ferrer Lores. Hospital

Edelmira Martí Sáez. Hospital

First Stage Researchers, R1

Alicia Serrano Alcalá. INCLIVA

Juan Ramón de Moya Romero. Hospital. University

Staff. Collaborating Researchers

Alfonso Ortiz Algarra. Hospital

Ana Saus Carreres. Hospital

Raimundo Cervera Vidal. INCLIVA

Staff. Nurses

Esther Lozano García. INCLIVA

Mercedes Bou Moreno. INCLIVA

Strategic aims

- During the year 2022, we were able to deepen the knowledge of the role of the NOTCH1/FBXW7/PI3K/PTEN/AKT signaling pathway in the progression of Chronic Lymphocytic Leukemia B (CLL-B) to advanced forms. Thus, in the cell lines and in the patient's primary cells, we observed a variation in the number of gene copies by both FISH and PCRq in the NOTCH1, FBXW7 and PTEN genes, with an inverse relationship between NOTCH1 and FBXW7/PTEN
- A second objective has been to analyse the clinical significance of the rearrangements of MYC, BCL-2 and BCL-6 in diffuse large cell lymphoma. We have been able to verify that patients with concomitant C-MYC and BCL-2 protein expression present a worse prognosis in terms of SLP and Sg than the rest
- Thirdly, during 2022, the study of the mutational status of IgVH in CLL and its prognostic impact in a wide series of patients has been implemented. New molecular markers (mutations TP53, BIRC3, MYD88, NOTCH1 and SF3B1) have also been studied in CLL by new generation sequencing techniques. In addition, we have continued the collaboration in the GENOMA CLL sequencing project, with a clinical-evolutionary update
- Finally, we have expanded our participation in clinical research projects in CLL, refractory lymphomas and multiple myeloma, both with the incorporation of new drugs and in the design and development of new therapeutic options

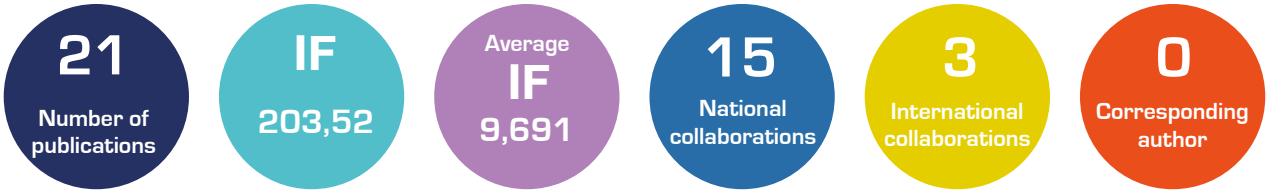
Main lines of research

- Analysis of the interactions of CLL cells with their cellular microenvironment: further study of the intracellular mechanisms triggered by VEGF. Analysis of the possible correlation with CXCR4/CCR7 cytokines pathway. Transactivation mechanisms of the aforementioned receptors

scientific activity

- Role of the NOTCH1/FBXW7/PI3K/PTEN/AKT signaling pathway in the progression of Chronic Lymphocytic Leukemia B (CLL -B) to advanced forms: pathway molecular profile analysis in 100 patients with CLL-B of primary cells obtained at diagnosis and at the time of the progression, analyzing for this, the presence of mutations and number of copies of DNA, gene expression, FISH and (RT-PCR)
- Study of the rearrangements of BCL-2, BCL-6 and MYC in diffuse large cell lymphoma: clinical significance and correlation with immunohistochemical expression using FISH and IHQ techniques
- Study of new molecular markers (mutations of IgVH, TP53, BIRC3, MYD88, NOTCH1 and SF3B1) in CLL: conventional versus NGS techniques. Implication in clonal evolution associated with tumor progression
- New therapeutic options for CLL/MM patients who are resistant to chemoimmunotherapy

PUBLICATIONS



SELECTED PUBLICATIONS

1. Giné E, de la Cruz F, Jiménez Ubieto A, López Jimenez J, Martín García-Sancho A, Terol MJ, González Barca E, Casanova M, de la Fuente A, Marín-Niebla A, Muntañola A, González-López TJ, Aymerich M, Setoain X, Cortés-Romera M, Rotger A, Rodríguez S, Medina Herrera A, García Sanz R, Nadeu F, Beà S, Campo E, López-Guillermo A. Ibrutinib in combination with rituximab for indolent clinical forms of mantle cell lymphoma (IMCL-2015): a multicenter, open-label, single-arm, Phase II Trial. Journal of Clinical Oncology. 2022 Apr 10;40(11):1196-1205. doi: 10.1200/JCO.21.02321. PMID: 35030036. IF: 50,717

2. Marti-Aguado D, Jimenez-Pastor A, Alberich-Bayarri A, Rodriguez-Ortega A, Alfaro-Cervello C, Mestre-Alagarda C, Bauza M, Gallen-Peris A, Valero-Perez E, Ballester MP, Gimeno-Torres M, Perez-Girbes A, Benlloch S, Perez-Rojas J, Puglia V, Ferrandez A, Aguilera V, Escudero-Garcia D, Serra MA, Marti-Bonmati L. Automated whole-liver MRI segmentation to assess steatosis and iron quantification in chronic liver disease. Radiology. 2022 Feb;302(2):345-354. doi: 10.1148/radiol.2021211027. PMID: 34783592. IF: 29,146

3. Burn E, Li X, Delmestri A, Jones N, Duarte-Salles T, Reyes C, Martinez-Hernandez E, Marti E, Verhamme K, Rijnbeek P, Strauss V, Prieto-Alhambra D. Thrombosis and thrombocytopenia after vaccination against and infection with SARS-CoV-2 in the United Kingdom. Nature Communications. 2022 Nov 23;13(1):7167. doi: 10.1038/s41467-022-34668-w. PMID: 36418291. IF: 17,694

4. Pinana J, Lopez-Corral L, Martino R, Montoro J, Vazquez L, Perez A, Martin-Martin G, Facal-Malvar A, Ferrer E, Pascual M, Sanz-Linares G, Gago B, Sanchez-Salinas A, Villalon L, Conesa-Garcia V, Olave M, Lopez-Jimenez J, Marcos-Corrales S, Garcia-Blazquez M, Garcia-Gutierrez V, Hernandez-Rivas J, Saus A, Espigado I, Alonso C, Hernani R, Solano C, Ferrer-Lores B, Guerreiro M, Ruiz-Garcia M, Munoz-Bellido J, Navarro D, Cedillo A, Sureda A, Infectious Complications Subcommittee of the Spanish Hematopoietic Stem, Cell Transplantation and Cell Therapy Group (GETH-TC). SARS-CoV-2-reactive antibody detection after SARS-CoV-2 vaccination in hematopoietic stem cell transplant recipients: Prospective survey from the Spanish Hematopoietic Stem Cell Transplantation and Cell Therapy Group (GETH-TC). American Journal of Hematology. 2022 Jan 1;97(1):30-42. doi: 10.1002/ajh.26385. PMID: 34695229. IF: 13,265

5. Baptista MJ, Tapia G, Munoz-Marmol AM, Muncunill J, Garcia O, Montoto S, Gribben JG, Calaminici M, Martinez A, Veloza L, Martinez-Trillos A, Aldamiz T, Menarguez J, Terol MJ, Ferrandez A, Alcoceba M, Briones J, Gonzalez-Barca E, Climent F, Muntanola A, Moraleda JM, Provencio M, Abrisqueta P, Abella E, Colomo L, Garcia-Ballesteros C, Garcia-

Caro M, Sancho JM, Ribera JM, Mate JL, Navarro JT. Genetic and phenotypic characterization of HIV-associated aggressive B-cell non-Hodgkin lymphomas, that do not occur specifically in this population: diagnostic and prognostic implications. Histopathology. 2022 Dec;81(6):826-840. doi: 10.1111/his.14798. PMID: 36109172. IF: 7,778

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PMP21/00015
Title: *Medicina de precisión genómica en neoplasias linfoides (PREGENLINF)*
Principal Investigator: Elías Campo Güerri (Mª José Terol as collaborating researcher)
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Instituto de Investigaciones Biomédicas August Pi i Sunyer (IDIBAPS)*
Duration: 2022-2025
Total budget: €3.063.060

Title: CART-AI-Radiomics in lymphomas: predictive value of artificial intelligence in Non-Hodgkin Lymphoma treated with CART-T theraphy
Principal Investigator: María José Terol Castera
Funding body: Gilead Fellowship Program
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2023
Total budget: €49.657

Research Group on Myeloid Neoplasms
Consolidated group

Group members

Researchers by categories



Leading Researchers, R4

Mar Tormo Díaz
Hospital. University
Juan Carlos Hernández Boluda
Hospital. University

Established Researcher, R3

Eva Villamón Ribate. INCLIVA

Recognised Researchers, R2

Carlos Carretero Márquez. Hospital
Iván Martín Castillo. INCLIVA
Marisa Calabuig Muñoz. Hospital
Montserrat Gómez Calafaz. Hospital

First Stage Researcher, R1

Irene Pastor Galán. Hospital

Staff. Nurses

Alicia Borrero Abarca. INCLIVA
Mª Carmen Hurtado Fontelles. INCLIVA

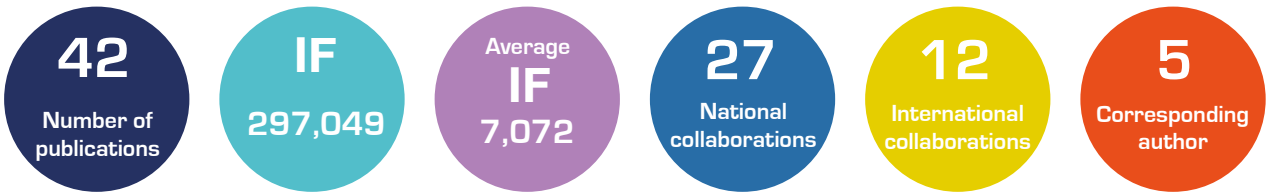
Strategic aims

- Analyze of the risk factors for thrombosis in myelofibrosis
- Analyze patients diagnosed with myelodysplastic syndromes with 20q deletion and del(20q). Assess the incidence, prognostic value and impact on response to azacitidine of azacitidine
- Analyze in patients diagnosed of acute myeloid leukemias and del(7q) the incidence, prognostic value and potential as a therapeutic target of chromosomal deletions of the EZH2 gene and of genetic mutations alterations and other genetic mutations

Main lines of research

- Study of mechanisms involved in leukemic transformation in myeloproliferative neoplasms
- Study of risk factors for thrombosis in myelofibrosis
- Study of acute myeloid leukemias with 7q deletion
- Study of myelodysplastic syndromes with 20q deletion
- Collaborative studies with the CETLAM group (LMA, SMD), PETHEMA (LLA, LMA), the Spanish Philadelphia-negative chronic myeloproliferative disorders group (GEMFIN), the Spanish LMC group (GELMC), the Spanish SMD group (GESMD) and Spanish Group of Advanced Systemic Mastocytosis (GEMAST)

PUBLICATIONS



4 scientific activity

SELECTED PUBLICATIONS

1. Zeidan AM, Boss I, Beach CL, Copeland WB, Thompson E, Fox BA, Hasle VE, Ogasawara K, Cavenagh J, Silverman LR, Voso MT, Hellmann A, Tormo M, O'Connor T, Previtali A, Rose S, Garcia-Manero G. A randomized phase 2 trial of azacitidine with or without durvalumab as first-line therapy for higher-risk myelodysplastic syndromes. Blood Advances. 2022 Apr 12;6(7):2207-2218. doi: 10.1182/bloodadvances.2021005487. PMID: 34972214. IF: 7,637

2. Bataller A, Garrido A, Guijarro F, Onate G, Diaz-Beya M, Arnan M, Tormo M, Vives S, de Llano M, Coll R, Gallardo D, Vall-Llovera F, Escoda L, Garcia-Guinon A, Salamero O, Sampol A, Merchan B, Bargay J, Castano-Diez S, Esteban D, Oliver-Caldes A, Rivero A, Mozas P, Lopez-Guerra M, Pratcorona M, Zamora L, Costa D, Rozman M, Nomdedeu J, Colomer D, Brunet S, Sierra J, Esteve J. European LeukemiaNet 2017 risk stratification for acute myeloid leukemia: validation in a risk-adapted protocol. Blood Advances. 2022 Feb 22;6(4):1193-1206. doi: 10.1182/bloodadvances.2021005585. PMID: 34911079. IF: 7,637

3. Mosquera-Orgueira A, Perez-Encinas M, Hernandez-Sanchez A, Gonzalez-Martinez T, Arellano-Rodrigo E, Martinez-Elicegui J, Villaverde-Ramiro A, Raya JM, Ayala R, Ferrer-Marin F, Fox ML, Velez P, Mora E, Xicoy B, Mata-Vazquez MI, Garcia-Fortes M, Angona A, Cuevas B, Senin MA, Ramirez-Payer A, Ramirez MJ, Perez-Lopez R, Gonzalez de Villambrosia S, Martinez-Valverde C, Gomez-Casares MT, Garcia-Hernandez C, Gasior M, Bellosillo B, Steegmann JL, Alvarez-Larran A, Hernandez-Rivas JM, Hernandez-Boluda JC. Machine learning improves risk stratification in myelofibrosis: an analysis of the Spanish registry of myelofibrosis. Hemasphere. 2022 Dec 20;7(1):e818. doi: 10.1097/HS9.0000000000000818. PMID: 36570691. IF: 8,3

4. Pastor-Galan I, Martin I, Ferrer B, Hernandez-Boluda J. Impact of molecular profiling on the management of patients with myelofibrosis. Cancer Treatment Reviews. 2022 Jul 8;109:102435. doi: 10.1016/j.ctrv.2022.102435. PMID: 35839532. IF: 13,608

5. Hernandez-Boluda JC, Pastor-Galan I, Arellano-Rodrigo E, Raya JM, Perez-Encinas M, Ayala R, Ferrer-Marin F, Velez P, Mora E, Fox ML, Hernandez-Rivas JM, Xicoy B, Mata-Vazquez MI, Garcia-Fortes M, Perez-Lopez R, Angona A, Cuevas B, Senin A, Ramirez MJ, Ramirez-Payer A, Gomez-Casares MT, Martinez-Valverde C, Magro E, Steegmann JL, Duran MA, Garcia-Hernandez C, Gasior M, de Villambrosia S, Alvarez-Larran A, Pereira A. Predictors of thrombosis and bleeding in 1613 myelofibrosis patients from the Spanish Registry of Myelofibrosis. British Journal of Haematology. 2022 Nov;199(4):529-538. doi: 10.1111/bjh.18440. PMID: 36089912. IF: 8,615

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/00538
Title: *Factores clinicobiológicos y genéticos asociados al riesgo de trombosis en la mielofibrosis*
Principal Investigator: Juan Carlos Hernández Boluda
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €96.800

Title: *Inmunobiología de la infusión de linfocitos del donante con depleción ex vivo de linfocitos T CD45RA+ en pacientes con alto riesgo de infección viral tras TPH alogénico*
Principal Investigator: Carlos Solano Vercet and Eva Villamón Ribate
Funding body: Janssen - Cilag S.A.
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total Budget: €42.500

THESIS

Thesis title: *Significado pronóstico de la expresión del factor de crecimiento endotelial vascular (VEGF) y de genes implicados en las vías de señalización del VEGF en pacientes con leucemia aguda mieloblástica*
Doctoral candidate: Marisa Calabuig Muñoz
Director(s): Mar Tormo Díaz, Carlos Solano Vercet
Date of the defense: 04/05/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Molecular Imaging and Metabolomics
Consolidated group

Group members

Leading Researcher, R4
Daniel Monleón Salvadó. University. INCLIVA

Recognised Researchers, R2
Antonio Pellín Carcelén. University
José Manuel Morales Tatay. University
Mercedes Pardo Tendero. University
Vannina González Marrachelli. University

First Stage Researchers, R1
Geraldine Rocha Correal. University
María Martín Grau. University
Pilar Casanova Terol. University
Serena Pisoni. University

Staff. Collaborating Researcher
Itziar Pérez Terol. INCLIVA

Staff. Technicians
Laura Moreno Morcillo. INCLIVA
María Sánchez Sánchez. INCLIVA

Researchers by categories

R1	R2	R4	STAFF
4	4	1	3

Researchers financed by competitive public calls or networks

R1	R2	R4
3	1	1

Strategic aims

- Identify new metabolomic markers of tumor aggressiveness in brain cancer
- Identify new markers of myocardial infarction
- Identify new metabolomic cardiovascular risk markers based on the microbiota-host interaction

Main lines of research

- Tumor metabolism through metabolic profiles in biopsies, biofluids and cells (brain cancer, glioblastoma multiforme, prostate, bladder)
- Metabolic profiles in the progression of cardiometabolic risk modulated by the microbiota-host interaction
- Metabolic profiles of healthy aging vs frailty
- MRI microimaging study of porcine cardiac tissue samples to develop new detection methods

PUBLICATIONS

9	IF	Average IF	3	5	3
Number of publications	71,61	7,956	National collaborations	International collaborations	Corresponding author

4 scientific activity

SELECTED PUBLICATIONS

1. Sanz-Ros J, Romero-Garcia N, Mas-Bargues C, Monleon D, Gordevicius J, Brooke RT, Dromant M, Diaz A, Derevyanko A, Guio-Carrion A, Roman-Dominguez A, Ingles M, Blasco MA, Horvath S, Vina J, Borras C. Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve health span, and decrease epigenetic age in old mice. Science Advances. 2022 Oct 21;8(42):eabq2226. doi: 10.1126/sciadv.abq2226. PMID: 36260670. IF: 14,957
2. Galvez-Fernandez M, Sanchez-Saez F, Domingo-Relloso A, Rodriguez-Hernandez Z, Tarazona S, Gonzalez-Marrachelli V, Grau-Perez M, Morales-Tatay J, Amigo N, Garcia-Barrera T, Gomez-Ariza J, Chaves F, Garcia-Garcia A, Melero R, Tellez-Plaza M, Martin-Escudero J, Redon J, Monleon D. Gene-environment interaction analysis of redox-related metals and genetic variants with plasma metabolic patterns in a general population from Spain: the Hortega Study. Redox Biology. 2022 Jun;52:102314. doi: 10.1016/j.redox.2022.102314. PMID: 35460952. IF: 10,787
3. Delgado-Velandia M, Gonzalez-Marrachelli V, Domingo-Relloso A, Galvez-Fernandez M, Grau-Perez M, Olmedo P, Galan I, Rodriguez-Artalejo F, Amigo N, Briongos-Figuero L, Redon J, Martin-Escudero J, Monleon-Salvado D, Tellez-Plaza M, Sotos-Prieto M. Healthy lifestyle, metabolomics and incident type 2 diabetes in a population-based cohort from Spain. International Journal of Behavioral Nutrition and Physical Activity. 2022 Jan 27;19(1):8. doi: 10.1186/s12966-021-01219-3. PMID: 35086546. IF: 8,915
4. Megias J, San-Miguel T, Sanchez M, Navarro L, Monleon D, Calabuig-Farinas S, Morales J, Munoz-Hidalgo L, Roldan P, Cerda-Nicolas M, Lopez-Gines C. Desmoplastic infantile astrocytoma with atypical phenotype, PTEN homozygous deletion and BRAF V600E mutation. Acta Neuropathologica Communications. 2022 Jun 20;10(1):88. doi: 10.1186/s40478-022-01392-x. PMID: 35725578. IF: 7,578
5. Wei D, Marrachelli V, Melgarejo J, Liao C, Janssens S, Verhamme P, Vanassche T, Van Aelst L, Monleon D, Redon J, Zhang Z. Lipoprotein profiles of fat distribution and its association with insulin sensitivity. Frontiers in Endocrinology. 2022 Oct 25;13:978745. doi: 10.3389/fendo.2022.978745. PMID: 36387872. IF: 6,055

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: AP-2021-016
Title: *BREIC: Identificación de biomarcadores del eje corazón-microbiota-sistema inmune por RMN para la estratificación de pacientes con insuficiencia cardiaca*
Principal Investigator: Vannina González Marrachelli and Anna Mollar Fernández
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total Budget: €4.750

Reference: PCIN-2017-117
Title: *Obesidad materna y disfunción cognitiva en la descendencia: papel causa-efecto de la microbiota intestinal y prevención dietética temprana*
Principal Investigator: Consuelo Borrás Blasco (Daniel Monleón Salvadó, Vannina González Marrachelli, José Manuel Morales Tatay as collaborating researchers)
Funding Body: *Ministerio de Economía, Industria y Competitividad*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2017-2022
Total Budget: €143.000

Reference: PID2020-113839RB-I00
Title: *Efecto del tratamiento con vesículas extracelulares de células madre de grasa de ratones jóvenes sobre parámetros de envejecimiento y fragilidad en ratones de edad avanzada*
Principal Investigator: Consuelo Borrás Blasco (Vannina González Marrachelli as collaborating researcher)
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2024
Total Budget: €181.500

Reference: PID2019-108973RB-C22
Title: Metabolomic study of mechanisms for Se-related diabetes and insulin resistance
Principal Investigator: Daniel Monleón Salvadó
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total Budget: €140.000

Reference: IDIFEDER/2021/072
Title: *Metabolómica automatizada de alto rendimiento para estudios epidemiológicos, búsqueda de biomarcadores y 'big data'*
Principal Investigator: Daniel Monleón Salvadó
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2023
Total Budget: €148.571,52

THESIS

Thesis title: *Estudio metabolómico en tejido prostático y orina para el diagnóstico y pronóstico del cáncer de próstata*
Doctoral candidate: Jorge Panach Navarrete
Director(s): José María Martínez Jabaloyas, José Manuel Morales Tatay, Vannina González Marrachelli
Date of the defense: 08/04/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Detección de nuevos marcadores asociados a daño por reperfusión y fibrosis infarto de miocardio validados histopatológicamente mediante análisis multivariante de resonancia magnética multimodal*
Doctoral candidate: Itziar Pérez Terol
Director(s): Daniel Monleón Salvadó, José Manuel Morales Tatay
Date of the defense: 21/07/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Molecular Microbiology and Microbial Pathogenesis
Consolidated group

Group members

Leading Researcher, R4
David Navarro Ortega
Hospital. University

Emerging Researchers, R2
Eliseo Alejandro Albert Vicent. Hospital
Estela Giménez Quiles. Hospital

Recognised Researcher, R2
Ignacio Torres Fink. Hospital

Staff. Collaborating Researchers
Ester Colomer Roig. INCLIVA
Javier Colomina Rodríguez. Hospital
Mª Ángeles Clarí Pons. Hospital
Patricia Navarro Domínguez. INCLIVA

Researchers by categories

R2 3 | R4 1 | STAFF 4

Researchers financed by competitive public calls or networks

R2 3

Strategic aims

- Study of the basic aspects of infectious diseases
- Study of the microorganisms that cause human pathology, characterization, biology and physiopathogenesis
- The implementation and optimization of the use of new diagnostic technologies in the clinical management of infectious patients, particularly in the context of a basic onco-haematological pathology
- Creation of multidisciplinary "diagnostic stewardship" Units (Programs for optimization of the use of diagnostic techniques -PRODIM-) with other services (Oncology/Hematology/ICU/Resuscitation, Primary Care)
- Study of the immunobiology of patients with infectious diseases, characterization and study of their clinical impact on individuals and society

Main lines of research

- Immunobiology of cytomegalovirus infection in patients undergoing allogeneic transplantation of hematopoietic precursors and hematological neoplasms
- Viroma study, in particular the usefulness of monitoring anelloviruses, their quantity and distribution, as a tool to quantify the degree of immunosuppression or immunoreconstitution in allogeneic hematopoietic precursor transplantation (Alo-HSCT), in solid organ transplantation (SOT) and in autoimmune diseases treated with immunosuppressants
- Immunobiology of SARS-CoV-2 infection
- Design and evaluation of diagnostic algorithms, applicability and actions associated with the result of analytical techniques and development of new diagnostic strategies
- Molecular characterization of Neisseria gonorrhoeae
- Analytical validation of diagnostic techniques
- Clinical validation of diagnostic techniques

Emerging Researchers

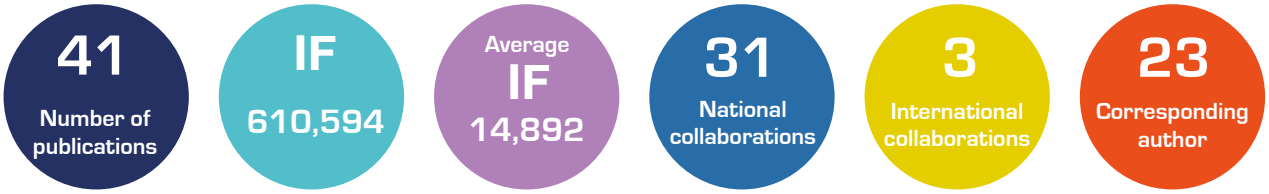
Estela Giménez Quiles

The main objective is the study of the dynamics of the composition and of the viral load of the main components of the human plasma virome as a predictor of functional immunity in the context of allogeneic transplantation of hematopoietic progenitors

Eliseo Alejandro Albert Vicent

The main objective is the study of infection in immunosuppressed patients, particularly in Cytomegalovirus and Alphatorquevirus infection in patients undergoing allogeneic hematopoietic stem cell transplantation

PUBLICATIONS



SELECTED PUBLICATIONS

1. Gimenez E, Alberola J, Torres I, Albert E, Alcaraz MJ, Botija P, Amat P, Remigia MJ, Beltran MJ, Rodado C, Huntley D, Olea B, Navarro D. Evolution of SARS-CoV-2 immune responses in nursing home residents following full dose of the Comirnaty COVID-19 vaccine. Journal of Infection. 2022 Mar;84(3):418-467. doi: 10.1016/j.jinf.2021.10.026. PMID: 34740744. IF: 38,637

2. Torres I, Gimenez E, Albert E, Zulaica J, Alvarez-Rodriguez B, Burgos J, Peiro S, Limon R, Vanaclocha H, Rodado C, Botija P, Sifre A, Tur B, Lozano R, Orosa I, Vicente-Ruiz M, Carrion R, Clari M, Sanchez-Paya J, Diez-Domingo J, Comas I, Gonzalez-Candelas F, Geller R, Navarro D. SARS-CoV-2 Omicron BA.1 variant breakthrough infections in nursing home residents after an homologous third dose of the Comirnaty (R) COVID-19 vaccine: looking for correlates of protection. Journal of Medical Virology. 2022 Sep;94(9):4216-4223. doi: 10.1002/jmv.27867. PMID: 35585782. IF: 20,693

3. Torres I, Bellido-Blasco JB, Gimeno C, Burgos JS, Albert E, Moya-Malo R, Gasco-Laborda JC, Tornero A, Soriano J, Meseguer-Ferrer N, Martinez-Serrano M, Ortiz-Rambla J, Buj H, Hernandez N, Peiro S, Salas D, Limon R, Vanaclocha H, Sanchez-Paya J, Diez-Domingo J, Comas I, Gonzalez-Candelas F, Navarro D. SARS-CoV-2 Delta-variant breakthrough infections in nursing home residents at midterm after Comirnaty (R) COVID-19 vaccination. Journal of Medical Virology. 2022 Aug;94(8):3776-3782. doi: 10.1002/jmv.27799. PMID: 35445415. IF: 20,693

4. Albert E, Burgos JS, Peiro S, Salas D, Vanaclocha H, Gimenez E, Limon R, Alcaraz MJ, Sanchez-Paya J, Diez-Domingo J, Cervantes A, Navarro D. Immunological response against SARS-CoV-2 following full-dose administration of Comirnaty COVID-19 vaccine in nursing home residents. Clinical Microbiology and Infection. 2022 Feb;28(2):279-284. doi: 10.1016/j.cmi.2021.09.031. PMID: 34619398. IF: 13,31

5. Pinana J, Lopez-Corral L, Martino R, Montoro J, Vazquez L, Perez A, Martin-Martin G, Facal-Malvar A, Ferrer E, Pascual M, Sanz-Linares G, Gago B, Sanchez-Salinas A, Villalon L, Conesa-Garcia V, Olave M, Lopez-Jimenez J, Marcos-Corrales S, Garcia-Blazquez M, Garcia-Gutierrez V, Hernandez-Rivas J, Saus A, Espigado I, Alonso C, Hernani R, Solano C, Ferrer-Lores B, Guerreiro M, Ruiz-Garcia M, Munoz-Bellido J, Navarro D, Cedillo A, Sureda A, Infectious Complications Subcommittee of the Spanish Hematopoietic Stem, Cell Transplantation and Cell Therapy Group (GETH-TC). SARS-CoV-2-reactive antibody detection after SARS-CoV-2 vaccination in hematopoietic stem cell transplant recipients: prospective survey from the Spanish Hematopoietic Stem Cell Transplantation and Cell Therapy Group (GETH-TC). American Journal of Hematology. 2022 Jan 1;97(1):30-42. doi: 10.1002/ajh.26385. PMID: 34695229. IF: 13,265

4 scientific activity

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: TTVGuideTX
Title: Personalisation of immunosuppression by monitoring viral load post kidney transplantation - a randomised controlled phase II trial
Principal Investigator: David Navarro Ortega
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2026
Total budget: €85.625

Reference: PI21/00563
Title: *Inmunidad adaptativa de linfocitos B y T frente a SARS-CoV-2 tras la vacunación de pacientes en riesgo de sufrir COVID-19 severa*
Principal Investigator: David Giménez Romero (Estela Giménez as collaborating researcher)
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €169.400

Reference: PI18/00127
Title: *Virología e inmunología de la infección por el citomegalovirus (CMV) en el paciente con neoplasia hematológicas en la era de las nuevas bioterapias*
Principal Investigator: David Navarro Ortega
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €111.320

Reference: PI-2021-004
Title: *TECO: Validación de dos sistemas biosensor para la diagnosis simultánea de COVID19 y otros patógenos aéreos*
Principal Investigator: David Giménez Romero (Estela Giménez as collaborating researcher)
Funding body: *Universidad de Valencia* - INCLIVA
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €19.000

THESIS

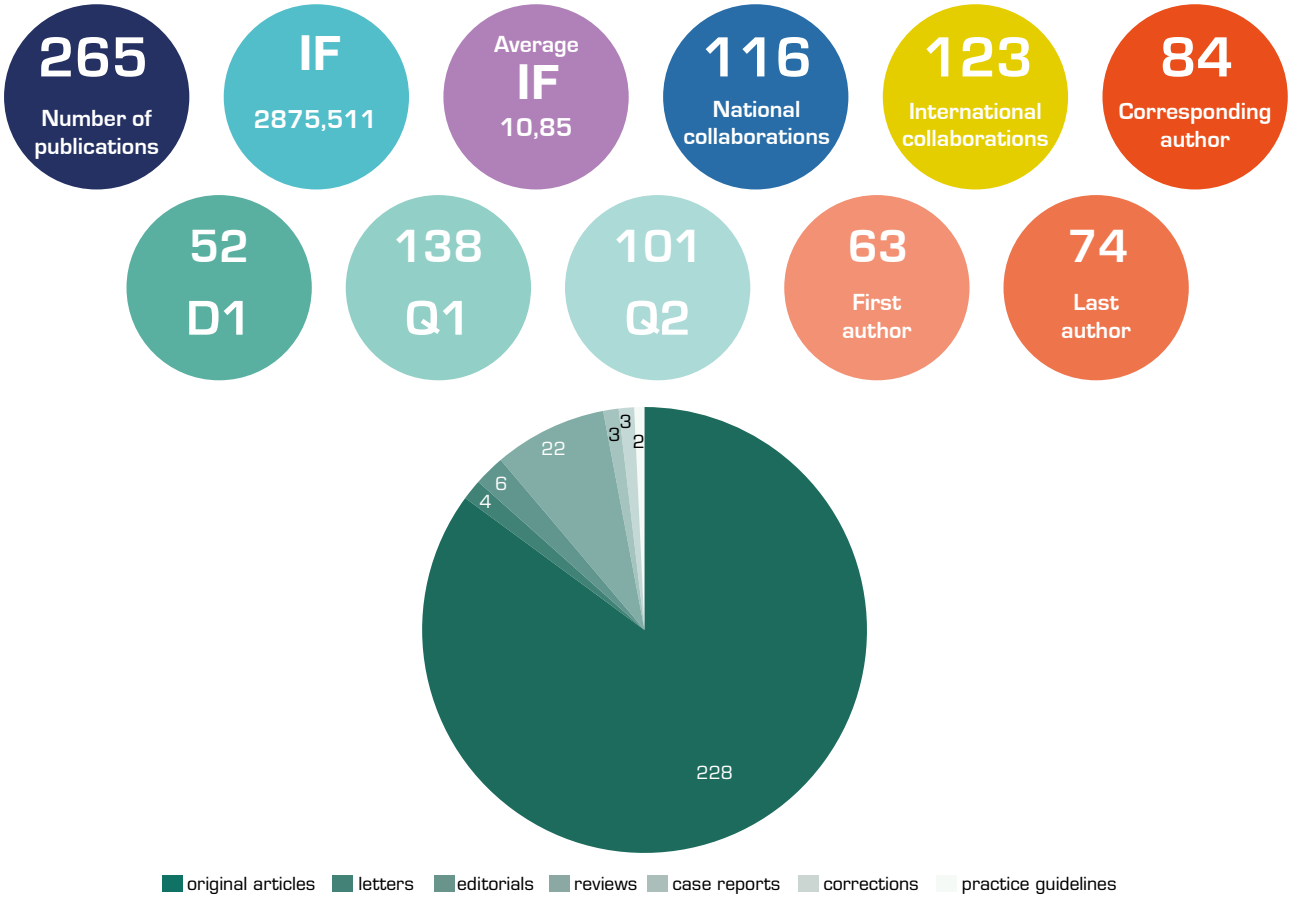
Thesis title: *Valor predictivo de la carga viral de citomegalovirus y torquetenovirus en heces y plasma del desarrollo de la enfermedad injerto contra huésped intestinal en pacientes sometidos a trasplante alogénico de precursores hematopoyéticos*
Doctoral candidate: Felipe Bueno Ferrando
Director(s): David Navarro Ortega
Date of the defense: 15/06/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Nuevas aplicaciones del Sistema MALDI-TOF MS en la microbiología clínica*
Doctoral candidate: Ignacio Torres Fink
Director(s): David Navarro Ortega
Date of the defense: 14/07/2022
Grade: *Sobresaliente "cum laude"*

4.3.3 Metabolism and Organ Damage Area

Groups

Research Group on Genetics of Osteoporosis
Research Group on Neurological Impairment
Research Group on Inflammation
Research Group on Psychiatry and Neurodegenerative Diseases
Research Group on Respiratory Diseases
Research Group on Tissular Biochemistry
Research Group on Aging and Physical Activity
Research Group on Anesthesiology and Reanimation
Research Group on Human Translational Genomics
Research Group on General and Digestive Surgery
Research Group on Personal Autonomy, Dependence and Severe Mental Disorders (TMAP)
Research Group on Cellular and Organic Physiopathology of Oxidative Stress
Research Group on Nuclear Receptors in Cardiometabolic Pathology
Research group on Metabolic Diseases
Research Group on Rare Respiratory Diseases (RRD)
Research Group on Healthy Aging (MiniAging)
Research Group on Exercise, Nutrition and Healthy Lifestyle
Research Group on Epigenomics and Translational Epigenetics
Research Group in Medical Chemistry for Drug Development
Research Group on Neurobiology and Molecular Physiopathology in Rare Diseases – NeuroFisER



Research Group on Genetics of Osteoporosis
Consolidated group

Group members

Leading Researcher, R4
Miguel Ángel García Pérez. University

Established Researcher, R3
Damián Mifsut Miedes. University

Staff. Collaborating Researcher
Rosa María Aliaga Corachán. University

Researchers by categories



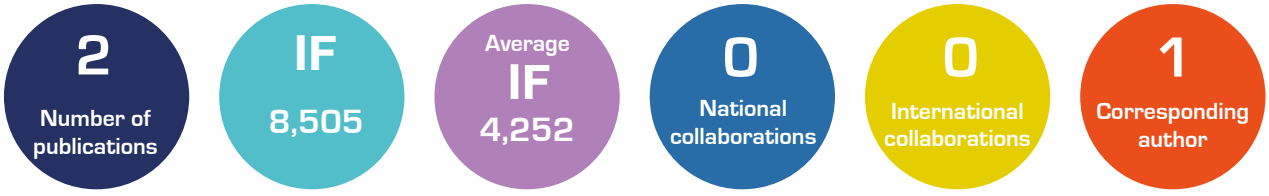
Strategic aims

- Identification of genes and polymorphisms associated with bone phenotypes such as bone mineral density and fragility fracture
- Identification of miRNAs as biomarkers of fragility fracture and osteoarthritis
- Study of the metabolome in fragility fracture and severe osteoarthritis
- Development of animal models of accelerated bone loss as a source of candidate genes for study in humans
- Functional characterization of genetic variants associated with quantitative phenotypes
- Characterization of the type of chromosome duplication, its paternal/maternal origin, global gene expression, and miRNA expression profile in patients with Idic-15 syndrome

Main lines of research

- Genetics of postmenopausal osteoporosis
- Genetic and epigenetic biomarkers of prevalent bone phenotypes
- Functional analysis of genetic variants
- Development of animal models of accelerated bone loss and cellular models of osteogenesis
- Genetic study of patients with chromosome 15 duplication inversion syndrome (Idic-15)

PUBLICATIONS



SELECTED PUBLICATIONS

1. Pertusa C, Mifsut D, Morales J, Tarin J, Cano A, Monleon D, Garcia-Perez M. Metabolomic analysis of severe osteoarthritis in a Spanish population of women compared to healthy and osteoporotic subjects. Metabolites. 2022 Jul 24;12(8):677. doi: 10.3390/metabo12080677. PMID: 35893245. IF: 5,581

2. Tarin J, Garcia-Perez M, Cano A. It is premature to use postmortem sperm for reproductive purposes: a data-driven opinion. Reproductive Sciences. 2022 Dec;29(12):3387-3393. doi: 10.1007/s43032-022-00874-6. PMID: 35146695. IF: 2,924

Research Group on Neurological Impairment
Consolidated group

Group members

Leading Researcher, R4
Carmina Montoliu Félix. University

Established Researchers, R3
Amparo Escudero García. Hospital. University
José Ballester Fayos. Hospital
José Luis León Guijarro. Hospital
Roberto Aliaga Méndez. Hospital

Recognised Researcher, R2
Andrea Cabrera Pastor. University. INCLIVA

Recognised Researchers, R2
Amparo Uriós Lluch. INCLIVA
Cristina Ipiens Escuer. INCLIVA
Cristina Montón Rodríguez. Hospital
María Pilar Ballester Ferrer. Hospital. INCLIVA
Nicolás Peñaranda Sarmiento. Hospital
Paula Cases Bergón. Hospital
Rut Victorio Muñoz. Hospital

First Stage Researchers, R1
Alessandra Fiorillo. INCLIVA
Dalia Rega Caballero. INCLIVA
Franc Casanova Ferrer. INCLIVA
Juan José Gallego Roig. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



Staff. Collaborating Researcher
Mika Aiko. Hospital

Staff. Nurses
Clara Barberá Fuset. Hospital
María Jesús Campa Santiago. Hospital
Pilar Aguilar Santaisabel. Hospital

Staff. Technicians
Alberto Sabio Palomares. INCLIVA
Alejandra Hernández Hernández. University. INCLIVA
Christian Torregrosa Sanchis. INCLIVA
Consuelo Miguel Moreno. Hospital
Laura García Gálvez. INCLIVA
Laura Puchades Lanza. INCLIVA

Strategic aims

- Evaluation of cognitive and motor alterations in patients with liver cirrhosis and minimal hepatic encephalopathy (MHE)
- To characterize the inflammatory processes and create a bioinformatic model of the molecular and cellular events of the immune system associated to the onset of MHE. Assess its utility to predict or diagnose MHE
- To analyze cerebral alterations: visual evoked potentials; neuronal connectivity using functional magnetic resonance
- Analysis of alterations in thermal and mechanical sensitivity and in peripheral nerve conduction velocity
- Assess the utility of the analysis of eye movements for early diagnosis of MHE
- Assess the effects of rifaximin treatment on the alterations analyzed in the above objectives
- To identify procedures based on above results, which improve diagnosis of MHE

Main lines of research

Main Line of research: Characterization of neurological and cerebral alterations in patients with minimal hepatic encephalopathy (MHE). Mechanisms: Contribution of inflammation. Diagnostic and therapeutic implications. Sublines:

- Characterization of cognitive, functional and cerebral alterations in patients with minimal hepatic encephalopathy

4 scientific activity

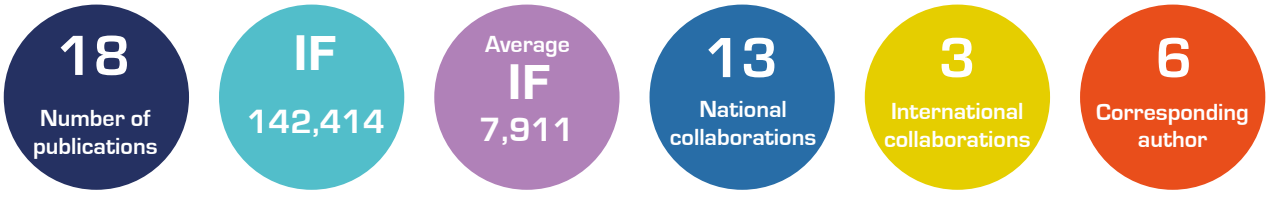
- Characterize alterations in inflammation, neuroinflammation, brain function and structure associated with the onset of MHE
- Identify biomarkers for the early detection of mild cognitive impairment in MHE
- To assess the effects of rifaximin treatment and new treatments: mechanisms involved
- Identification and modelling of molecular and cellular events of the immune response associated to the appearance of minimal hepatic encephalopathy in cirrhotic patients
- To assess the usefulness of eye movement analysis for the early diagnosis of MHE
- Research on cognitive and motor alterations in patients with non-alcoholic fatty liver disease showing mild cognitive impairment (MCI)

Emerging Researcher

Andrea Cabrera Pastor

The main focus of the research is to understand the role of extracellular vesicles in comorbidities associated with obesity, including molecular mechanisms, diagnostic and therapeutic implications

PUBLICATIONS



SELECTED PUBLICATIONS

1. Tranah T, Ballester M, Carbonell-Asins J, Ampuero J, Alexandrino G, Caracostea A, Sanchez-Torrijos Y, Thomsen K, Kerbert A, Capilla-Lozano M, Romero-Gomez M, Escudero-Garcia D, Montoliu C, Jalan R, Shawcross D. Plasma ammonia levels predict hospitalisation with liver-related complications and mortality in clinically stable outpatients with cirrhosis. Journal of Hepatology. 2022 Dec;77(6):1554-1563. doi: 10.1016/j.jhep.2022.07.014. PMID: 35872326. IF: 30,083

2. Marti-Aguado D, Jimenez-Pastor A, Alberich-Bayarri A, Rodriguez-Ortega A, Alfaro-Cervello C, Mestre-Alagarda C, Bauza M, Gallen-Peris A, Valero-Perez E, Ballester MP, Gimeno-Torres M, Perez-Girbes A, Benlloch S, Perez-Rojas J, Puglia V, Ferrandez A, Aguilera V, Escudero-Garcia D, Serra MA, Marti-Bonmati L. Automated whole-liver MRI segmentation to assess steatosis and iron quantification in chronic liver disease. Radiology. 2022 Feb;302(2):345-354. doi: 10.1148/radiol.2021211027. PMID: 34783592. IF: 29,146

3. Gallego J, Fiorillo A, Casanova-Ferrer F, Urios A, Ballester M, Durban L, Megias J, Rubio T, Cabrera-Pastor A, Escudero-Garcia D, Felipo V, Montoliu C. Plasma extracellular vesicles play a role in immune system modulation in minimal hepatic encephalopathy. International Journal of Molecular Sciences. 2022 Oct 15;23(20):12335. doi: 10.3390/ijms232012335. PMID: 36293192. IF: 6,208

4. Ballester M, Gallego J, Fiorillo A, Casanova-Ferrer F, Gimenez-Garzo C, Escudero-Garcia D, Tosca J, Rios M, Monton C, Durban L, Ballester J, Benlloch S, Urios A, San-Miguel T, Kosenko E, Serra M, Felipo V, Montoliu C. Metabolic syndrome is associated with poor response to rifaximin in minimal hepatic encephalopathy. Scientific Reports. 2022 Feb 14;12(1):2463. doi: 10.1038/s41598-022-06416-z. PMID: 35165326. IF: 4,996

5. Casanova-Ferrer F, Garcia-Cena CE, Gallego JJ, Fiorillo A, Urios A, Calvo-Cordoba A, Ballester MP, Rios MP, Durban L, Hidalgo MR, Garcia F, Felipo V, Montoliu C. Minimal hepatic encephalopathy is associated to alterations in eye movements. Scientific Reports. 2022 Oct 7;12(1):16837. doi: 10.1038/s41598-022-21230-3. PMID: 36207472. IF: 4,996

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: CP20/00009
Title: Role of extracellular vesicles, metabolome and altered intercellular communication in the induction of minimal hepatic encephalopathy: mechanisms, therapeutic and diagnostic implications
Principal Investigator: Andrea Cabrera Pastor
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total budget: €40.000

Title: Identification and modelling of molecular and cellular events of the immune response associated to the appearance of minimal hepatic encephalopathy in cirrhotic patients
Principal Investigator: Carmina Montoliu Félix
Funding body: *Fundación Ramón Areces*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €129.600

Reference: AP-2021-001
Title: *LIGAM1: Efecto de la activación de TLR por medio de sus ligandos sobre la polarización de macrófagos hacia M1 y su función citocida frente a las células madre de glioblastoma*
Principal Investigator: Javier Megías Vericat and Andrea Cabrera Pastor
Funding body: *Universidad de Valencia* - INCLIVA
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.067,5

Title: *Estudio multicéntrico de precisión diagnóstica para cuantificar y caracterizar la fibrosis de la Enfermedad Hepática Metabólica mediante patología digital avanzada*
Principal Investigator: David Martín Aguado (Amparo Escudero García as collaborating researcher)
Funding body: *Sociedad Valenciana de Patología Digestiva*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €5.000

Reference: CIGE/2021/083
Title: *Estudio de las vesículas extracelulares en plasma de pacientes con obesidad mórbida antes y tras cirugía bariátrica. Subvenciones concedidas a grupos de investigación emergentes*
Principal Investigator: Andrea Cabrera Pastor
Funding body: *Conselleria de Educación*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2023
Total budget: €20.000

THESIS

Thesis title: *Mecanismos moleculares por los que la hiperamonemia crónica induce neuroinflamación y alteraciones en la neurotransmisión en cerebelo de ratas hiperamonémicas*
Doctoral candidate: Yaiza María Arenas Ortiz
Director(s): Andrea Cabrera Pastor, Tiziano Balzano, Vicente Felipo Orts
Date of the defense: 12/04/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: *Papel de las vesículas extracelulares en el deterioro cognitivo y motor en hiperamonemia y encefalopatía hepática. Mecanismos moleculares e implicaciones terapéuticas*
Doctoral candidate: Paula Izquierdo Altarejos
Director(s): Vicente Felipo Orts, Andrea Cabrera Pastor
Date of the defense: 20/05/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: Characterization and evaluation of alterations in sensitivity and autonomic function in patients with minimal hepatic encephalopathy
Doctoral candidate: Dalia Rega Caballero
Director(s): Carmina Montoliu Felix, Amparo Uriós Lluch, Paula Cases Bergón
Date of the defense: 05/12/2022
Grade: *Sobresaliente "cum laude"*

scientific activity

Research Group on Inflammation
Consolidated group

Group members

Leading Researchers, R4

Esteban Morcillo Sánchez

Hospital. University

María Jesús Sanz Ferrando

University

Recognised Researcher, R2

Patrice Gomes Marques. INCLIVA

First Stage Researcher, R1

Elena Domingo Pérez. INCLIVA

Staff. Technicians

Inés Descalzo Arenas. INCLIVA

José Aparicio Collado. INCLIVA

Researchers by categories

R1 1 | R2 1 | R4 2 | STAFF 2

Researchers financed by competitive public calls or networks

STAFF 1

Team involved in

ciberes

Strategic aims

- Study of the systemic inflammation associated to Primary and Familial Hypercholesterolemia as well as Metabolic Syndrome
- Study of the CCL11/CCR3 axis in Primary Hypercholesterolemia and atherosclerosis development
- Study of the impact of PCSK9 blockade in the systemic inflammation and endothelial dysfunction associated to Familial Hypercholesterolemia
- Synthesis of new dual PPARα/γ and pan PPAR agonists. Pharmacological in vitro and in vivo studies in ob/ob mice
- Synthesis of new dual LXR/PPARα/γ agonists and pharmacology study

Main lines of research

- Study of the vascular inflammation induced by different risk factors of atherosclerosis: metabolic syndrome, primary and familial hypercholesterolemia
- Study of novel immune players in the atherosclerotic lesion formation
- Study of the impact of recent therapeutic approaches in the systemic inflammation and endothelial dysfunction associated to Familial Hypercholesterolemia
- Synthesis of new dual PPARα/γ and pan PPAR agonists to be used in the control of cardiometabolic disorders
- Synthesis of new dual LXR/PPARα/γ agonists to be used in the control of cardiometabolic disorders

PUBLICATIONS

7	IF	Average IF	2	2	4
Number of publications	32,176	4,596	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Marques P, Domingo E, Rubio A, Martinez-Hervas S, Ascaso JF, Piqueras L, Real JT, Sanz MJ. Beneficial effects of PCSK9 inhibition with alirocumab in familial hypercholesterolemia involve modulation of new immune players. Biomedicine & Pharmacotherapy. 2022 Jan;145:112460. doi: 10.1016/j.biopha.2021.112460. PMID: 34864314. IF: 7,419
2. Corro Moron M, Granell A, Ivanova V, Domingo E, Beltran Debon R, Barril X, Sanz MJ, Matheu MI, Castillon S, Diaz Y. Revealing 2-dimethylhydrazino-2-alkyl alkynyl sphingosine derivatives as sphingosine kinase 2 inhibitors: some hints on the structural basis for selective inhibition. Bioorganic Chemistry. 2022 Apr;121:105668. doi: 10.1016/j.bioorg.2022.105668. PMID: 35219046. IF: 5,307
3. Francisco V, Sanz M, Real J, Marques P, Capuozzo M, Ait Eldjoudi D, Gualillo O. Adipokines in non-alcoholic fatty liver disease: are we on the road toward new biomarkers and therapeutic targets?. Biology. 2022 Aug 19;11(8):1237. doi: 10.3390/biology11081237. PMID: 36009862. IF: 5,168
4. Marques P, Fernandez-Presa L, Carretero A, Gómez-Cabrera MC, Viña J, Signes-Costa J, Sanz MJ. The radiographic assessment of lung edema score of lung edema severity correlates with inflammatory parameters in patients with coronavirus disease 2019-Potential new admission biomarkers to predict coronavirus disease 2019 worsening. Frontiers in Medicine. 2022 Aug 11;9:871714. doi: 10.3389/fmed.2022.871714. PMID: 36035415. IF: 5,058
5. Vila L, Cabedo N, Villarroel-Vicente C, Garcia A, Bernabeu A, Hennuyer N, Staels B, Franck X, Figadere B, Sanz MJ, Cortes D. Synthesis and biological studies of polycerasoidol and trans-delta-tocotrienolic acid derivatives as PPARalpha and/or PPARgamma agonists. Bioorganic & Medicinal Chemistry. 2022 Jan 1;53:116532. doi: 10.1016/j.bmc.2021.116532. PMID: 34863066. IF: 3,641

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Titulo: The William Harvey International Translational Research Academy (WHRI-ACADEMY)
Investigadora principal: Márta Korbonits (María Jesús Sanz Ferrando as collaborating researcher)
Entidad financiadora: FP7 Marie Curie Actions
Institución beneficiaria: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duración: 2015-
Presupuesto total: €6.500.000

Reference: CB06/06/0027
Title: *Centro de Investigación Biomédica en Red en Enfermedades Respiratorias (CIBERes)*
Principal Investigator: Esteban Morcillo Sánchez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Universidad de Valencia*
Duration: 2007-

Reference: PID2020-120336RB-I00
Title: *Modulación de la inflamación metabólica en la prevención de la patología cardiovascular: Identificación de nuevas dianas terapéuticas y desarrollo de fármacos novedosos*
Principal Investigator: María Jesús Sanz Ferrando
Funding Body: *Ministerio de Ciencia, Innovación y Universidades*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total Budget: €290.400

Reference: PROMETEO/2019/032
Title: *Una aproximación traslacional desde la clínica a la experimentación animal: estudio del papel del eje CCL11/CCR3 y la inflamación eosinofílica en la patología cardiovascular asociada a desórdenes metabólicos*
Principal Investigator: María Jesús Sanz Ferrando
Funding body: *Conselleria de Educación Cultura y Deporte*
Beneficiary institution: *Universidad de Valencia*
Duration: 2020-2023
Total budget: €211.736

THESIS

Thesis title: Effect of SGLT-2 inhibition in abdominal aortic aneurysm development. Role of rora in adipose tissue inflammation associated to obesity
Doctoral candidate: Rebeca Ortega Herráiz
Director(s): Laura Piqueras Ruiz, María Jesús Sanz Ferrando, José Tomás Real Collado
Date of the defense: 21/02/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

scientific activity

Research Group on Psychiatry and Neurodegenerative Diseases
Consolidated group

Group members

Leading Researcher, R4
Julio Sanjuán Arias
Hospital. University

Established Researchers, R3
Eduardo Jesús Aguilar García-Iturrospe. Hospital. University
Juan Nacher Roselló. University
María Dolores Moltó Ruiz. University

Emerging Researcher, R2
Olga María Rivero Martín. INCLIVA

Recognised Researchers, R2
Carlos Cañete Nicolás. Hospital. University
Esther Lorente Rovira. Hospital. University
Francisco Olucha Bordonau. University
Gracián García Martí. CIBER
Héctor Carceller Cerdá. University
José Carlos González Piqueras. Hospital. University
Lucía Bonet Mora. University
María José Escartí Fabra. Hospital
Marien Gadea Domenech. University
Marta Pérez Rando. University
Miguel Hernández Viadel. Hospital

First Stage Researchers, R1
Javier David Lluesma. University
Jon Iñaki Etxeandia Pradera. Hospital
Julia Alcaide Pozo. University
Marc Beltrán Martínez. University
Patrycja Klimczak. University
Yaiza Gramuntell Roch. University

Researchers by categories

R1	R2	R3	R4	STAFF
6	12	3	1	5

Researchers financed by competitive public calls or networks

R1	R2	STAFF
5	3	3

Team involved in

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Staff. Collaborating Researcher
Alba Postiguillo Giraldos. INCLIVA

Staff. Nurse
Blanca Llàcer Iborra. CIBER

Staff. Technician
Joan Blasco Palanca. INCLIVA

Staff. Administrative assistants
Julen Santiago Agrediano. INCLIVA
Virginia Gómez Soriano. INCLIVA

Strategic aims

- Elaboration of a mobile application associated to the Clinical Records to improve adherence to the treatment of patients with first episode psychosis
  - Publication of Results of Gene Environmental interaction First Episode Psychosis projects
  - Development of new techniques to diagnosis psychosis by fMRI and machine learning approach
  - Development of animal models in severe mental disorder
  - Models of Prediction of Response in First Psychotic Episodes
- Identifying genetic risk factors and biomarkers of response to medication in schizophrenia
- Identification of modifying genes, new targets and molecules with therapeutic potential in Friedreich's Ataxia

Main lines of research

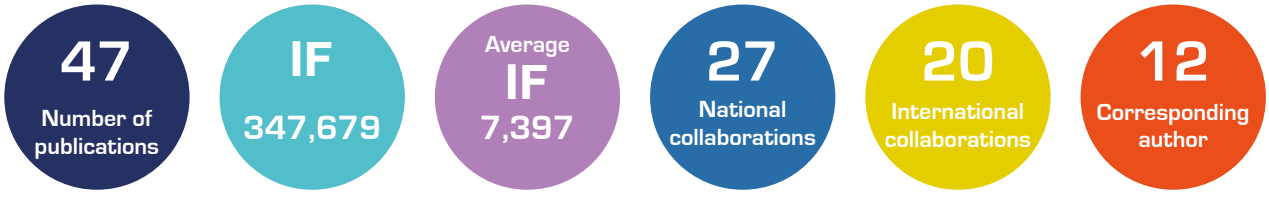
- Blood Gene Expression Profiles in First-Episode Psychosis Patients
- Development and characterization of new cellular preclinical models of personalized medicine in psychosis
- Study on animal models in serious mental illness
- Study of neurodegenerative diseases (Friedreich's Ataxia) in Drosophila models
- Study of genetic and environmental risk factors in affective and psychotic disorders
- Identifying abnormal patterns in neuroimaging (morphometry, functional, spectroscopy) in psychotic patients
- Design and coordination of clinical, genetic and neuroimaging data bases oriented to performing multicenter projects
- Development of interactive systems for improving therapeutic adherence
- Study on the efficiency of psycho-social intervention techniques in serious mental illness

Emerging Researcher, R2

Olga María Rivero Martín

The main line of research is the identification of biomarkers associated with the appearance of the first psychotic episode and response to antipsychotic medication. These biomarkers will be studied in neuronal cultures of first-episode psychotic patients and healthy subjects.

PUBLICATIONS



SELECTED PUBLICATIONS

1. Trubetskoy V, Pardinas A, Qi T, Panagiotaropoulou G, Indonesia Schizophrenia Consortium, PsychENCODE, Psychosis Endophenotypes International Consortium, SynGO Consortium, Schizophrenia Working Group of the Psychiatric Genomics Consortium. Mapping genomic loci implicates genes and synaptic biology in schizophrenia. Nature. 2022 Apr;604(7906):502-508. doi: 10.1038/s41586-022-04434-5. PMID: 35396580. IF: 69,504
2. Soldevila-Matias P, Garcia-Marti G, Fuentes-Dura I, Ruiz JC, Gonzalez-Navarro L, Gonzalez-Vivas C, Radua J, Sanjuan J. Brain activity changes with emotional words in different stages of psychosis. European Psychiatry. 2022 Oct 4;1-27. doi: 10.1192/j.eurpsy.2022.2321. PMID: 36193735. IF: 7,156
3. Fusar-Poli L, Pries LK, van Os J, Radhakrishnan R, Pence AY, Erzin G, Delespaul P, Kenis G, Luykx JJ, Lin BD, Akdede B, Binbay T, Altinyazar V, Yalincetin B, Gumus-Akay G, Cihan B, Soygur H, Ulas H, Cankurtaran ES, Kaymak SU, Mihaljevic MM, Andric-Petrovic S, Mirjanic T, Bernardo M, Mezquida G, Amoretti S, Bobes J, Saiz PA, Garcia-Portilla MP, Sanjuan J, Aguilar EJ, Santos JL, Jimenez-Lopez E, Arrojo M, Carracedo A, Lopez G, Gonzalez-Penas J, Parellada M, Maric NP, Atbasoglu C, Ucok A, Alptekin K, Saka MC, Aguglia E, Arango C, Rutten BP, Guloksuz S. The association between cannabis use and facial emotion recognition in schizophrenia, siblings, and healthy controls: results from the EUGEI study. European Neuropsychopharmacology. 2022 Aug 30;63:47-59. doi: 10.1016/j.euroneuro.2022.08.003. PMID: 36055075. IF: 5,415
4. Perez-Rando M, Elvira U, Garcia-Marti G, Gadea M, Aguilar E, Escarti M, Ahullo-Fuster M, Grasa E, Corripio I, Sanjuan J, Nacher J. Alterations in the volume of thalamic nuclei in patients with schizophrenia and persistent auditory hallucinations. NeuroImage Clinical. 2022 Jun 1;35:103070. doi: 10.1016/j.nicl.2022.103070. PMID: 35667173. IF: 4,891
5. Etxeandia-Pradera J, Landeta J, Gonzalez-Such J, Aguilar E. How to improve training in descriptive psychopathology for psychiatry residents: a Delphi study. Psychopathology. 2022 Jul 29;1-14. doi: 10.1159/000525691. PMID: 35908537. IF: 3,849

4 scientific activity

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI20/00473
Title: *Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros episodios psicóticos*
Principal Investigator: Julio Sanjuán Arias
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €68.970

Reference: CB07/09/0006
Title: *Centro de Investigación Biomédica en Red en Salud Mental (CIBERsam)*
Principal Investigator: Juan Nacher Roselló
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Universidad de Valencia*
Duration: 2008-

Reference: INVEST/2022/141
Title: *Programa de formación y ocupabilidad de psicólogo/a en evaluaciones clínicas y uso seguimiento del aplicativo Remindcare en proyectos de investigación*
Principal Investigator: Julio Sanjuan Arias
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.217,84

Reference: INVEST/2022/49
Title: *Programa de formación y ocupabilidad de especialista en análisis de imagen de sistema nervioso*
Principal Investigator: Juan Nácher Roselló
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.217,84

Reference: PROMETEO/2020/024
Title: *Estudio longitudinal de una cohorte representativa: superando la heterogeneidad clínica y biológica en primeros episodios psicóticos*
Principal Investigator: Julio Sanjuán Arias
Funding Body: *Conselleria de Educación, Cultura y Deporte*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €174.588

Reference: 2021095290
Title: Intracellular iron deposits in a Drosophila Model of Friedreich´s Ataxia
Principal Investigator: Juan Antonio Navarro (Mª Dolores Moltó as collaborating researcher)
Funding Body: Center of Excellence ALBA synchrotron
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total budget: €51.471,36

Research Group on Respiratory Diseases
Consolidated group

Group members

Researchers by categories



Leading Researcher, R4

Jaime Signes-Costa Miñana

Hospital

Established Researchers, R3

Jesús Sancho Chinesta. Hospital

José Franco Serrano. Hospital. University

Mª Cruz González Villaescusa. Hospital

Mª Luisa Briones Urtiaga. Hospital

Recognised Researchers, R2

Carmen Muñoz Esteban. Hospital

Francisco Carrión Valero. Hospital. University

José Luis Díaz Cordobés. Hospital

Mª Belén Safont Muñoz. Hospital

Pilar Bañuls Polo. Hospital

First Stage Researchers, R1

Alba Mulet Arabi. Hospital

Irene Bocigas Huéscar. Hospital

Nieves Navarro Soriano. Hospital

Paola Lisseth Ordóñez Gómez. Hospital

Santos Ferrer Espinosa. Hospital

Staff. Collaborating Researchers

Ana Ferrer Pons. Hospital

Ana María Ferrer Martí. Hospital

Andrea Ballester Férriz. Hospital

Andrés Vales Veiga. Hospital

Antonio Herrera Cuadros. INCLIVA

Antonio Quezada Reynosa. Hospital

Carlos Alonso Ruzo. Hospital

Cristina Rosario Martín. Hospital

Elena Giménez Civera. INCLIVA

Elia Giménez Samblas. Hospital

Elvira Bondía Real. Hospital

Enric Burés Sales. Hospital

Erick Monclou Garzón. Hospital

Heidi Mora Bastida. Hospital

Julia Tarrasó Castillo. INCLIVA

Lucía Fernández Presa. Hospital

Manuela Marín González. Hospital

Mariam García Alfaro. Hospital

Natividad Blasco Angulo. INCLIVA

Pablo Royo Simó. University

Strategic aims

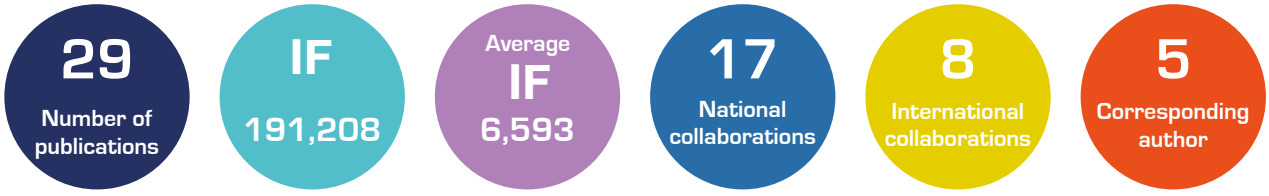
- Study of respiratory complications in patients with neuromuscular diseases. Utility of mechanical ventilation and other respiratory supports
- Implication of early diagnosis of obstructive airway diseases in the prognosis and follow-up of patients. Emphysema early detection program. Program for early detection of Alpha 1 Antitrypsin Deficiency
- Early follow-up program for COPD with exacerbator phenotype
- Severe Asthma control program
- Control of respiratory disorders during sleep as prevention of cardiovascular risk factors
- Early diagnosis of idiopathic interstitial respiratory diseases (IPF) and secondary diseases (drug toxicity and post-BMT)

4 scientific activity

Main lines of research

- Usefulness of non-invasive ventilation in the weaning process of patients with prolonged mechanical ventilation
- Improve the effectiveness of mechanically assisted cough procedures in patients with ALS, as well as the precision of the clinical tools available to evaluate frontotemporal dementia in them
- Study in smokers of the early stages of COPD. GOLD classification paradigm 0
- Identify cardiac morphological changes in patients with sleep-disordered breathing and ischemic heart disease treated with CPAP
- Follow-up of patients admitted for bilateral COVID19 pneumonia: changes in pulmonary function tests for the early diagnosis of pulmonary fibrotic sequelae
- Study of oxidative stress and inflammatory mechanisms underlying acute lung damage caused by SARS-CoV-2

PUBLICATIONS



SELECTED PUBLICATIONS

1. Zhang Q, Pizzorno A, Miorin L, Bastard P, Gervais A, Le Voyer T, Bizien L, Manry J, Rosain J, Philippot Q, Goavec K, Padey B, Cupic A, Laurent E, Saker K, Vanker M, Sarekannu K, Garcia-Salum T, Ferres M, Le Corre N, Sanchez-Cespedes J, Balsera-Manzanero M, Carratala J, Retamar-Gentil P, Abelenda-Alonso G, Valiente A, Tiberghien P, Zins M, Debette S, Meyts I, Haerynck F, Castagnoli R, Notarangelo LD, Gonzalez-Granado LI, Dominguez-Pinilla N, Andreakos E, Triantafyllia V, Rodriguez-Gallego C, Sole-Violan J, Ruiz-Hernandez JJ, Rodriguez de Castro F, Ferreres J, Briones M, Wauters J, Vanderbeke L, Feys S, Kuo CY, Lei WT, Ku CL, Tal G, Etzioni A, Hanna S, Fournet T, Casalegno JS, Queromes G, Argaud L, Javouhey E, Rosa-Calatrava M, Cordero E, Aydillo T, Medina RA, Kisand K, Puel A, Jouanguy E, Abel L, Cobat A, Trouillet-Assant S, Garcia-Sastre A, Casanova JL. Autoantibodies against type I IFNs in patients with critical influenza pneumonia. Journal of Experimental Medicine. 2022 Nov 7;219(11):e20220514. doi: 10.1084/jem.20220514. PMID: 36112363. IF: 17,579

2. Tarraso J, Safont B, Carbonell-Asins JA, Fernandez-Fabrellas E, Sancho-Chust JN, Naval E, Amat B, Herrera S, Ros JA, Soler-Cataluna JJ, Rodriguez-Portal JA, Andreu AL, Marin M, Rodriguez-Hermosa JL, Gonzalez-Villaescusa C, Soriano JB, Signes-Costa J. Lung function and radiological findings 1 year after COVID-19: a prospective follow-up. Respiratory Research. 2022 Sep 12;23(1):242. doi: 10.1186/s12931-022-02166-8. PMID: 36096801. IF: 7,162

3. Miravitlles M, Turner AM, Torres-Duran M, Tanash H, Rodríguez-García C, López-Campos JL, Chlumsky J, Guimaraes C, Rodríguez-Hermosa JL, Corsico A, Martinez-González C, Hernández-Pérez JM, Bustamante A, Parr DG, Casas-Maldonado F, Hecimovic A, Janssens W, Lara B, Barrecheguren M, González C, Stolk J, Esquinas C, Clarenbach CF. Clinical and functional characteristics of individuals with alpha-1 antitrypsin deficiency: EARCO international registry. Respiratory Research. 2022 Dec 16;23(1):352. doi: 10.1186/s12931-022-02275-4. PMID: 36527073. IF: 7,162

4. Safont B, Tarraso J, Rodriguez-Borja E, Fernandez-Fabrellas E, Sancho-Chust JN, Molina V, Lopez-Ramirez C, Lope-Martinez A, Cabanes L, Andreu A, Herrera S, Lahosa C, Ros JA, Rodriguez-Hermosa JL, Soriano JB, Moret-Tatay I, Carbonell-Asins JA, Mulet A, Signes-Costa J. Lung function, radiological findings and biomarkers of fibrogenesis in a cohort of COVID-19 patients six months after hospital discharge. Archivos de Bronconeumologia. 2022 Feb;58(2):142-149. doi: 10.1016/j.arbres.2021.08.014. PMID: 34497426. IF: 6,333

5. Panizo N, Albert E, Gimenez-Civera E, Puchades M, D'Marco L, Gandia-Salmeron L, Gimenez E, Torre I, Sancho A, Gavela E, Gonzalez-Rico M, Montomoli M, Perez-Baylach C, Bonilla B, Solano C, Alvarado M, Torregrosa I, Alcaraz M, Gorriz J, Navarro D. Dynamics of SARS-CoV-2-Spike-reactive antibody and T-cell responses in chronic kidney disease patients within 3 months after COVID-19 full vaccination. Clinical Kidney Journal. 2022 Apr 9;15(8):1562-1573. doi: 10.1093/ckj/sfac093. PMID: 35880064. IF: 5,86

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *GOLD 0-DLCO 1. Una mirada más allá de la obstrucción. ¿Es suficiente la espirometría en el screening de EPOC?*
Principal Investigator: Cruz González Villaescusa
Funding body: *Sociedad Valenciana de Neumología (SVN)*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total Budget: €12.000

Title: *Estudio de los microRNAs circulantes como biomarcadores pronósticos en pacientes con déficit de alfa-1 antitripsina. Un enfoque funcional*
Principal Investigator: Francisco Dasí Fernández (Jaime Signes-Costa as collaborating researcher)
Funding body: *Sociedad Valenciana de Neumología (SVN)*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €6.000

Title: *Impacto clínico asistencial de la creación de circuitos de derivación precoz en fibrosis pulmonar idiopática*
Principal Investigator: Belén Safont Muñoz
Funding body: *Sociedad Valenciana de Neumología (SVN)*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2025
Total Budget: €12.000

Title: *Estudio de la aparición de cambios fibróticos pulmonares asociados a la infección por SARS-CoV-2*
Principal Investigator: Jaime Signes-Costa Miñana and Julia Tarrasó Castillo
Funding body: Janssen-Cilag
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total Budget: €8.500

Reference: ICI21/00016
Title: *Terapia celular combinada para pacientes COVID-19 de alto riesgo de mortalidad (DECODE-19)*
Principal Investigator: Bernat Soria Escoms (Mª Luisa Briones as collaborating researcher)
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total budget: €459.800

Reference: GVA-COVID19/2021/028
Title: *Efecto de la infección por COVID-19 sobre la longitud del telómero y parámetros de función mitocondrial y su relación con la evolución a fibrosis pulmonar de tipo idiopático*
Principal Investigator: Federico V. Pallardó Calatayud (Jaime Signes-Costa as collaborating researcher)
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €62.280

scientific activity

Research Group on Tissular Biochemistry
Consolidated group

Group members

Leading Researchers, R4
Juan R. Viña Ribes. University
Teresa Barber Ballester. University
Elena Ruiz García-Trevijano. University

Established Researchers, R3
Luis Torres Asensi. University
Rosa Zaragozá Colom. University

Recognised Researcher, R2
Elena Ortiz Zapater. University

Staff. Technicians
Ana Isabel Avilés Alía. University
Sonia Company Hernández. University

Researchers by categories



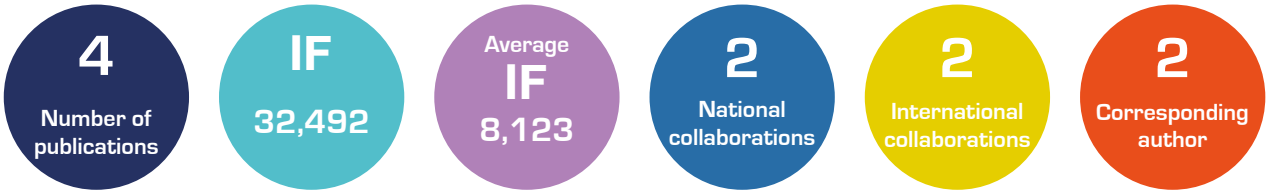
Strategic aims

- To study the influence of age at pregnancy and duration of breastfeeding on risk of breast cancer, and specifically, the role of calpain-2 as a regulatory node
- To study the role of calpains 1, 2 and 3 as key mediators of hormones and Ca2+ metabolism in osteoblast differentiation and platelet abnormalities in LGMD patients
- To study the mechanisms that control respiratory homeostasis, as well as the dysregulation of molecular and cellular pathways in respiratory pathological processes, such as vitamin A deficiency, allergic inflammation, or pulmonary fibrosis

Main lines of research

- Role of metabolism in tissue homeostasis and its dysregulation in disease
- Role of calpains as a regulatory node in the influence of age and breastfeeding in the risk of breast cancer
- Role of calpains in osteoblast differentiation and identification of new biomarkers in limb-girdle muscular dystrophies
- Use of patient-specific 3D cellular models to identify new biomarkers in pathological pulmonary processes, especially pulmonary fibrosis

PUBLICATIONS



SELECTED PUBLICATIONS

1. Garcia-Gimenez JL, Garcia-Trevijano ER, Aviles-Alia AI, Ibanez-Cabellos JS, Bovea-Marco M, Bas T, Pallardo FV, Vina JR, Zaragoza R. Identification of circulating miRNAs differentially expressed in patients with Limb-girdle, Duchenne or facioscapulohumeral muscular dystrophies. Orphanet Journal of Rare Diseases. 2022 Dec 27;17(1):450. doi: 10.1186/s13023-022-02603-3. PMID: 36575500. IF: 4,303
2. Ortiz-Zapater E, Signes-Costa J, Montero P, Roger I. Lung fibrosis and fibrosis in the lungs: is it all about myofibroblasts?. Biomedicines. 2022 Jun 15;10(6):1423. doi: 10.3390/biomedicines10061423. PMID: 35740444. IF: 4,757
3. Owczarek C, Ortiz-Zapater E, Kim J, Papaevangelou E, Santis G, Parsons M. CAR co-operates with integrins to promote lung cancer cell adhesion and invasion. Frontiers in Oncology. 2022 Feb 14;12:829313. doi: 10.3389/fonc.2022.829313. PMID: 35252000. IF: 5,738
4. Ortiz-Zapater E, Bagley DC, Hernandez VL, Roberts LB, Maguire TJA, Voss F, Mertins P, Kirchner M, Peset-Martin I, Woszczek G, Rosenblatt J, Gotthardt M, Santis G, Parsons M. Epithelial coxsackievirus adenovirus receptor promotes house dust mite-induced lung inflammation. Nature Communications. 2022 Oct 27;13(1):6407. doi: 10.1038/s41467-022-33882-w. PMID: 36302767. IF: 17,694

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: CIPROM/2021/051

Title: *Subvenciones concedidas del Programa Prometeo para grupos de investigación de excelencia*

Principal Investigator: Elena Ruiz García-Trevijano and Juan Viña Ribes

Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*

Beneficiary Institution: *Universidad de Valencia*

Duration: 2022-2025

Total Budget: €240.238

Research Group on Aging and Physical Activity
Consolidated group

Group members

Leading Researcher, R4
José Viña Ribes
University

Established Researchers, R3
Ana Lloret Alcañiz. University
Consolación García Lucerga. University
Eva Serna García. University

Recognised Researchers, R2
José Viña Almunia. University
Paloma Monllor Taltavull. University

First Stage Researcher, R1
Ángela García Correas. University

Staff. Administrative assistants
Aitana Vázquez Sola. INCLIVA
Cristina Amézcua García. INCLIVA

Researchers by categories



Team involved in

ciberfes

Freshage
Age and Exercise Research Group

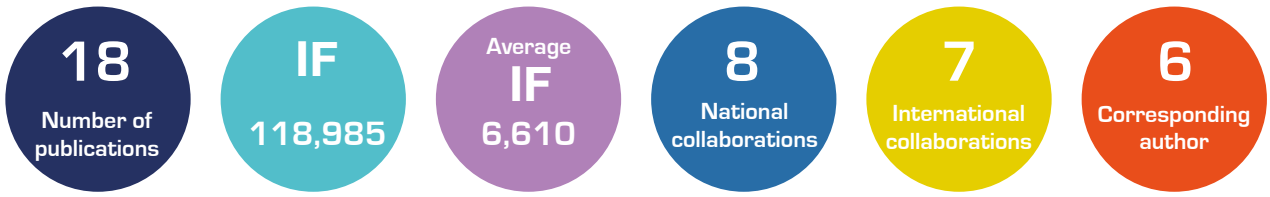
Strategic aims

- Regenerative medicine in aging
- Identification of physical training as a drug to treat age-related frailty
- Prove that G6PD protects against oxidative damage and improves lifespan in mice
- Reducing stress: a new concept in disease Alzheimer's

Main lines of research

- Aging: identification of genes associated with aging, particularly genes that are specific in centenary people. Implication of the estrogens and phytoestrogens in the prevention of age-related damage
- Physical activity: identification of the molecular mechanisms by which physical activity is good for health. Identification of the mechanisms by which physical activity and antioxidant supplements help preventing primary and secondary sarcopenia in both human and animal studies. Identification of the best exercise intervention to delay and to treat frailty in humans
- Physiopathology of the Alzheimer's disease: identification of the mechanisms by which free radicals, originators of the oxidative stress are used to unleash cell signals that lead to cell death in Alzheimer disease

PUBLICATIONS



SELECTED PUBLICATIONS

1. Sanz-Ros J, Romero-Garcia N, Mas-Bargues C, Monleon D, Gordevicius J, Brooke RT, Dromant M, Diaz A, Derevyanko A, Guio-Carrion A, Roman-Dominguez A, Ingles M, Blasco MA, Horvath S, Vina J, Borras C. Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve health span, and decrease epigenetic age in old mice. Science Advances. 2022 Oct 21;8(42):eabq2226. doi: 10.1126/sciadv.abq2226. PMID: 36260670. IF: 14,957
2. Vina J, Escudero J, Baquero M, Cebrian M, Carbonell-Asins J, Munoz J, Satorres E, Melendez J, Ferrer-Rebolleda J, Cozar-Santiago M, Santabarbara-Gomez J, Jove M, Pamplona R, Tarazona-Santabalbina F, Borras C. Genistein effect on cognition in prodromal Alzheimer's disease patients. The GENIAL clinical trial. Alzheimers Research & Therapy. 2022 Nov 4;14(1):164. doi: 10.1186/s13195-022-01097-2. PMID: 36329553. IF: 8,823
3. Mas-Bargues C, Borras C, Vina J. The multimodal action of genistein in Alzheimer's and other age-related diseases. Free Radical Biology & Medicine. 2022 Apr;183:127-137. doi: 10.1016/j.freeradbiomed.2022.03.021. PMID: 35346775. IF: 8,101
4. De la Rosa A, Olaso-Gonzalez G, Garcia-Dominguez E, Mastaloudis A, Hester S, Wood S, Gomez-Cabrera M, Vina J. Glucosamine supplementation improves physical performance in trained mice. Medicine and Science in Sports and Exercise. 2022 Mar 1;54(3):466-474. doi: 10.1249/MSS.0000000000002821. PMID: 34711707. IF: 6,289
5. Esteve D, Molina-Navarro MM, Giraldo E, Martínez-Varea N, Blanco-Gandia MC, Rodríguez-Arias M, García-Verdugo JM, Viña J, Lloret A. Adult neural stem cell migration is impaired in a mouse model of Alzheimer's disease. Molecular Neurobiology. 2022 Feb;59(2):1168-1182. doi: 10.1007/s12035-021-02620-6. PMID: 34894324. IF: 5,682

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: DIABFRAIL-LATAM-825546

Title: Scaling-up of and evidence-based intervention programme in older people with Diabetes and Frailty in LatinAmerica

Principal Investigator: José Viña Ribes and Leocadio Rodríguez Mañas

Funding Body: European Commission

Beneficiary Institution: CIBER (*Fundación Investigación Hospital Clínico Universitario de Valencia* as Third Party)

Duration: 2019-2024

Total Budget: €273.720

Reference: AC20/00026

Title: Combining vitamin E-functionalized CHOcolate with physical exercise to reduce the risK of protein energy malnutrition in pre-dementia AGEd people. ERA-HDHL Call for Joint Transnational Research Proposals on Development of targeted nutrition for prevention of undernutrition for older adults (PREVNUT)

Principal Investigator: José Viña Ribes

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Universidad de Valencia*

Duration: 2021-2023

Total budget: €169.098

Reference: CB16/10/00435

Title: *Centro de Investigación Biomédica en Red en Fragilidad y Envejecimiento (CIBERfes)*

Principal Investigator: José Viña Ribes

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Universidad de Valencia*

Duration: 2017-

Reference: PID2019-110906RB-100

Title: *Nuevas intervenciones terapéuticas multidominio para retrasar la fragilidad y la discapacidad. Identificación de mecanismos moleculares con relevancia traslacional*

Principal Investigator: José Viña Ribes and Consuelo Gómez Cabrera

Funding Body: *Ministerio de Economía y Competitividad*

Beneficiary Institution: *Universidad de Valencia*

Duration: 2020-2023

Total budget: €270.000

Reference: PROMETEO/2019/097

Title: *Diferencias de fragilidad entre géneros: evaluación de biomarcadores y estrategias de intervención*

Principal Investigator: José Viña Ribes

Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*

Beneficiary Institution: *Universidad de Valencia*

Duration: 2020-2023

Total budget: €189.391

4 scientific activity

THESIS

Thesis title: *Papel de la xantina oxidasa en la pérdida de masa muscular por inmovilización en humanos. Importancia del protocolo de obtención de biopsias musculares en los estudios de atrofia muscular*
Doctoral candidate: Vicente Sebastiá Alcàcer
Director(s): Mª Carmen Gómez Cabrera, José Viña Ribes, Enrique Viosca Herrero
Date of the defense: 28/06/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Intervención con ejercicio físico multicomponente sobre el adulto mayor frágil en la vida real* (Real Life Intervention)
Doctoral candidate: Fernando Millán Domingo
Director(s): José Viña Ribes, María Carmen Gómez Cabrera, Francisco José Tarazona Santabalbina
Date of the defense: 01/07/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Anesthesiology and Reanimation
Consolidated group

Group members

Leading Researcher, R4

Rafael Badenes Quiles

Hospital. University

Established Researchers, R3

Armando Maruenda Paulino. Hospital

Carlos Tornero Tornero. Hospital. University

Gerardo Aguilar Aguilar. Hospital. University

Marina Soro Domingo. University

Recognised Researchers, R2

Ana Mugarra Llopis. Hospital

Andrea Gutiérrez Valcárcel. Hospital. University

Benigno Escamilla Cañete. Hospital

Jorge Orduña Valls. Hospital

Mar Garzando Civera. Hospital

María Luisa García Pérez. Hospital. University

Rosa Herrera Castro. Hospital

First Stage Researcher, R1

Blanca Arocas Chicote. Hospital

Staff. Collaborating Researchers

Antonio Guillen Bañuelos. Hospital

Researchers by categories



Web www.anestesiaclinicovalencia.org

Cristina Crisán Ovidiu. Hospital

Ernesto Pastor Martínez. Hospital

Estefanía Gracia Ferrándiz. Hospital

José Antonio Carbonell López. Hospital

Laura Reviriego Agudo. Hospital

Liliana Patricia Henao Guerrero. Hospital

Luis Robert Sánchez. Hospital

María José Parra González. Hospital

María Luisa Laredo Alcázar. Hospital

Mario de Fez Barberá. Hospital

Paola Valls Montero. Hospital

Staff. Nurse

Alicia García Vigara. INCLIVA

Staff. Administrative assistants

Laura Verdini Martínez. INCLIVA

Nuria Bargues Martín. INCLIVA

Strategic aims

- Open lung approach for respiratory management
- Management of chronic pain
- Performance analysis of homecare and ICU ventilators (bench model)
- Respiratory management in ARDS COVID19 patients
- Controlled donation after circulatory determination of death with the use of normothermic regional perfusion
- Determination of death by neurological criteria
- Prevalence and risk factors for delirium
- Advance neuromonitoring neurocritical care patients
- COVID 19 (SARS-CoV-2) ICU management

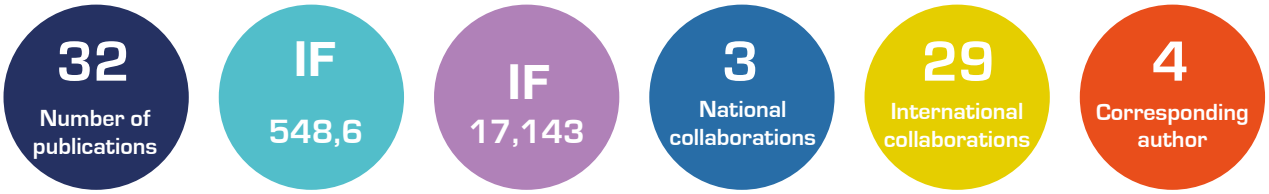
Main lines of research

- Development of new strategies and drugs for pain treatment
- Organ donation and transplantation
- Delirium critically ill patients
- Severe Traumatic Brain Injury

4 scientific activity

- COVID 19 (SARS-CoV-2) critically ill patients
- Retrospective analysis of COVID19 patients management

PUBLICATIONS



SELECTED PUBLICATIONS

1. NIHR Global Health Unit on Global Surgery; COVIDSurg Collaborative. Elective surgery system strengthening: development, measurement, and validation of the surgical preparedness index across 1632 hospitals in 119 countries. Lancet. 2022 Nov 5;400(10363):1607-1617. doi: 10.1016/S0140-6736(22)01846-3. PMID: 36328042. IF: 202,731
2. Cinotti R, Mijangos JC, Pelosi P, Haenggi M, Gurjar M, Schultz MJ, Kaye C, Godoy DA, Alvarez P, Ioakeimidou A, Ueno Y, Badenes R, Elbuzidi AAS, Piagnerelli M, Elhadi M, Reza ST, Azab MA, McCredie V, Stevens RD, Digitale JC, Fong N, Asehnoune K. Extubation in neurocritical care patients: the ENIO international prospective study. Intensive Care Medicine. 2022 Nov;48(11):1539-1550. doi: 10.1007/s00134-022-06825-8. PMID: 36038713. IF: 41,787
3. Young PJ, Eastwood G, Chew MS, Unden J, Thomas M, Joannidis M, Nichol A, Lundin A, Hollenberg J, Hammond N, Saxena M, Annborn M, Solar M, Taccone FS, Dankiewicz J, Nielsen N, Pelosi P; TTM2 Trial Collaborators. Ventilatory settings in the initial 72 h and their association with outcome in out-of-hospital cardiac arrest patients: a preplanned secondary analysis of the targeted hypothermia versus targeted normothermia after out-of-hospital cardiac arrest (TTM2) trial. Intensive Care Medicine. 2022 Aug;48(8):1024-1038. doi: 10.1007/s00134-022-06756-4. PMID: 35780195. IF: 41,787
4. Rasulo F, Calza S, Robba C, Taccone F, Biasucci D, Badenes R, Piva S, Savo D, Citerio G, Dibu J, Curto F, Merciadri M, Gritti P, Fassini P, Park S, Lamperti M, Bouzat P, Malacarne P, Chieregato A, Bertuetti R, Aspide R, Cantoni A, McCredie V, Guadrini L, Latronico N. Transcranial Doppler as a screening test to exclude intracranial hypertension in brain-injured patients: the IMPRESSIT-2 prospective multicenter international study. Critical Care. 2022 Apr 15;26(1):110. doi: 10.1186/s13054-022-03978-2. PMID: 35428353. IF: 19,334
5. Robba C, Badenes R, Battaglini D, Ball L, Sanfilippo F, Brunetti I, Jakobsen JC, Lilja G, Friberg H, Wendel-Garcia PD, Young PJ, Eastwood G, Chew MS, Unden J, Thomas M, Joannidis M, Nichol A, Lundin A, Hollenberg J, Hammond N, Saxena M, Martin A, Solar M, Taccone FS, Dankiewicz J, Nielsen N, Grejs AM, Ebner F, Pelosi P; TTM2 Trial collaborators. Oxygen targets and 6-month outcome after out of hospital cardiac arrest: a pre-planned sub-analysis of the targeted hypothermia versus targeted normothermia after Out-of-Hospital Cardiac Arrest (TTM2) trial. Critical Care. 2022 Oct 21;26(1):323. doi: 10.1186/s13054-022-04186-8. PMID: 36271410. IF: 19,334

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/00141

Title: *Modelos de estratificación y predicción en pacientes con insuficiencia respiratoria aguda hipoxémica con técnicas de inteligencia artificial y aprendizaje automático*

Principal Investigator: Jesús Villar Hernández (Marina Soro as collaborating researcher)

Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary institution: *Fundación Investigación Hospital Doctor Negrín*

Duration: 2020-2022

Total budget: €62.920

Title: *Ensayo clínico randomizado: hemoabsorción con cytosorb vs práctica clínica habitual para analizar su efecto sobre biomarcadores de daño renal en la donación en asistolia controlada con ECMO*

Principal Investigator: Rafael Badenes Quiles

Entidad financiadora: *Fundación Mutua Madrileña*

Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2020-2022

Total budget: €65.000

Research Group on Translational Genomics
Consolidated group

Group members

Leading Researchers, R4

Rubén D. Artero Allepuz. University

Manuel Pérez Alonso. University

Established Researcher, R3

Arturo López Castel. University

Recognised Researchers, R2

Belén Mollà Moliner. University

María Sabater Arcís. University

Natalia Galindo Riera. University

Piotr Konieczny. University

Raquel Atienzar Aroca. INCLIVA

Raquel Pérez Gómez. University

First Stage Researchers, R1

Águeda Blázquez Bernal. University

Irene González Martínez. University

Jorge Patricio Espinosa Espinosa. University

Natalia Mariel Riedel Bistoco. University

Nerea Moreno Cervera. University

Rosy Morejón Estevez. University

Staff. Technicians

Alicia Novella Estellés. INCLIVA

Anna Ballestar Carrión. INCLIVA

Anna Colom Rodrigo. University

Andrea García Rey. University

Iván Gimeno Martínez. INCLIVA

Kevin Moreno Pérez. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
6	6	1	2	6

Researchers financed by competitive public calls or networks

R1	R2	STAFF
4	2	2

Translational Genomics Group

Networks

http://www.uv.es/gt/

https://twitter.com/GenomicsLab_UV

https://vimeo.com/user103005442

https://twitter.com/MPAlonso

https://twitter.com/RubenArtero3

Strategic aims

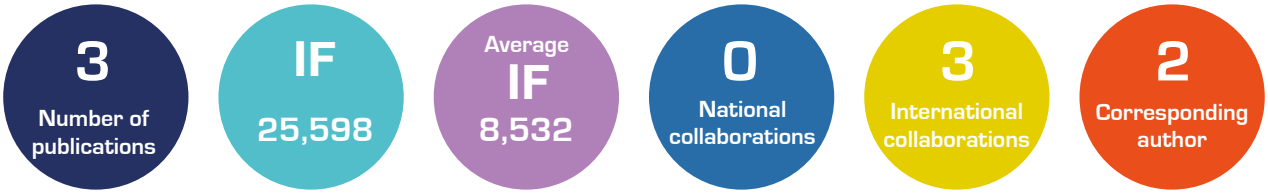
Medium-term scientific research aims are to investigate mechanisms of pathogenesis and candidate therapies in Myotonic Dystrophy, Spinal Muscular Atrophy, LGMDD2, and cancer-induced cachexia; to optimize oligonucleotide drug delivery methods; and to screen and repurpose drugs in additional biomedical models in Drosophila

Main lines of research

- Discovery, development, and repurposing of drugs for the treatment of DM, SMA and LGMDD2
- Study of the molecular causes of muscle atrophy in DM, LGMDD2 and cancer cachexia with emphasis on miRNA alterations
- Use of Drosophila as preclinical model in oligonucleotide drug development and muscle targeting

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Januel C, Menduti G, Mamchaoui K, Martinat C, Artero R, Konieczny P, Boido M. Moxifloxacin rescues SMA phenotypes in patient-derived cells and animal model. Cellular and Molecular Life Sciences. 2022 Jul 22;79(8):441. doi: 10.1007/s00018-022-04450-8. PMID: 35864358. IF: 9,207
2. Espinosa-Espinosa J, Gonzalez-Barriga A, Lopez-Castel A, Artero R. Deciphering the complex molecular pathogenesis of myotonic dystrophy type 1 through omics studies. International Journal of Molecular Sciences. 2022 Jan 27;23(3):1441. doi: 10.3390/ijms23031441. PMID: 35163365. IF: 6,208
3. Overby SJ, Cerro Herreros E, Gonzalez Martinez I, Varela MA, Seoane Miraz D, Jad Y, Raz R, Moller T, Perez Alonso M, Wood MJ, Llamusi B, Artero R. Proof of concept of peptide-linked blockmiR-induced MBNL functional rescue in myotonic dystrophy type 1 mouse model. Molecular Therapy. Nucleic Acids. 2022 Feb 10;27:1146-1155. doi: 10.1016/j.omtn.2022.02.003. PMID: 35282418. IF: 10,183

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: CA17103 COST-DARTER
Title: COST: European Cooperation in Science and Technology, Delivery of Antisense RNA Therapeutics (DARTER)
Principal Investigator: Virginia Arechavala (Rubén Artero Allepuz as Co-IP)
Funding Body: European Commission
Beneficiary Insitution: *Instituto de Investigación Sanitaria Biocruces*
Duration: 2018-2022
Total Budget: €500.000

Reference: PI21/00311
Title: *Caracterización de una nueva diana terapéutica en disfunción muscular en la distrofia miotónica de tipo 1*
Principal Investigator: Manuel Pérez Alonso
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €141.570

Reference: PI19/01796
Title: Implicaciones experimentales y clínicas del complejo proteico Rabphilin-Rab en daño renal en la diabetes mellitus tipo 2
Principal Investigator: Josep Redón i Mas (Arturo López Castel as collaborating researcher)
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €196.020

Reference: DTS21/00081
Title: *Desarrollo preclínico de Gapmers contra una nueva diana terapéutica en Distrofia Miotónica*
Principal Investigator: Manuel Pérez Alonso
Funding Body: *Instituto de Salud Carlos III* - Cofinanced FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2023
Total budget: €127.600

Reference: DTS19/00128
Title: *Desarrollo preclínico de un fármaco innovador para Distrofia Miotónica*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Instituto de Salud Carlos III* - Cofinanced FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €111.100

Reference: MRR/PDC2022-133103-I00
Title: *Desarrollo preclínico de un fármaco Gapmer para tratar distrofia miotónica y otras atrofias musculares*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2024
Total budget: €149.500

Reference: PID2021-125978OB-C22
Title: *Comprensión de la atrofia muscular inducida por TNPO3 mutante: modelos preclínicos y aproximaciones terapéuticas en LGMDD2*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2025
Total budget: €242.000

Reference: PLEC2022-009367
Title: *Nuevas herramientas en moscas y cultivos en 3D para el desarrollo de oligonucleótidos terapéuticos*
Principal Investigator: Arturo López Castel
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2024
Total budget: €46.000

Reference: EIN2020-112137
Title: *Del RNA tóxico a la medicina traslacional en Distrofia Miotónica (para la captación de recursos UE)*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2022
Total budget: €15.000

Reference: INNVA1/2021/44
Title: *Reposicionamiento de un fármaco para atrofia muscular espinal*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Agencia Valenciana de la Innovación-AVI Generalitat Valenciana*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2023
Total budget: €487.727

Reference: INVEST/2022/63
Title: *Especialización en fenotipado y caracterización molecular de modelos biomédicos murinos*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €44.812

Reference: INVEST/2022/81
Title: *Utilización de Drosophila melanogaster en el desarrollo de oligonucleótidos antisentido como medicamentos*
Principal Investigator: Arturo López Castell
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.217,84

Reference: PROMETEO/2020/081
Title: *Uso de moduladores de microRNAs como terapias experimentales en distrofia miotónica de tipo 1*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020 - 2023
Total budget: €193.051

Reference: CI21-00135
Title: Valorization of the repurposing of two drug candidates for spinal muscular atrophy
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Fundació Bancària La Caixa*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2023
Total budget: €100.000

Reference: PI-2021-008
Title: *miR-OA: Inhibidores de miRNAs como terapia en osteoartritis*
Principal Investigator: Rubén Artero Allepuz
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA

Duration: 2021-2022
Total budget: €19.000

THESIS

Thesis title: Proof of concept of therapeutic gene modulation of MBNL1/2 in myotonic dystrophy
Doctoral candidate: Sarah Overby
Director(s): Rubén Artero Allepuz
Date of the defense: 21/01/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: *Ruta de la autofagia, MSI2 Y MIR-7 como nuevas dianas terapéuticas para la disfunción muscular en distrofia miotónica de tipo 1*
Doctoral candidate: María Sabater Arcís
Director(s): Rubén Artero Allepuz, Ariadna Bargiela Schönbrunn
Date of the defense: 01/04/2022
Grade: *Sobresaliente "cum laude"*

Research Group on General and Digestive Surgery
Consolidated group

Group members

Leading Researcher, R4

Joaquín Ortega Serrano

Hospital. University

Established Researchers, R3

Alejandro Espí Macías. Hospital. University

Luis Sabater Ortí. Hospital. University

Recognised Researchers, R2

David Casado Rodrigo. Hospital

David Moro Valdezate. Hospital

Dimitri Dorcaratto. Hospital. University

Elena Muñoz Forner. Hospital. University

Estefanía García Botello. Hospital. University

Fernando López Mozos. Hospital. University

José Martín Arévalo. Hospital. University

Marina Garcés Albir. Hospital. University

Norberto Cassinello Fernández. Hospital. University

Raquel Alfonso Ballester. Hospital

Roberto Martí Obiol. Hospital

Vicente Pla Martín. Hospital

Researchers by categories



First Stage Researchers, R1

Carlos León Espinoza. Hospital

Isabel Mora Oliver. Hospital

María Lapeña Rodríguez. Hospital

Leticia Pérez Santiago. INCLIVA

Mª Carmen Fernández Moreno. Hospital

Staff. Collaborating Researchers

Elena Martí Cuñat. Hospital

Guillermo Pou Santonja. Hospital

Marcos Adrianzén Vargas. Hospital

María Eugenia Barrios Carvajal. Hospital

Rosa Martí Fernández. Hospital

Vicente López Flor. Hospital

Strategic aims

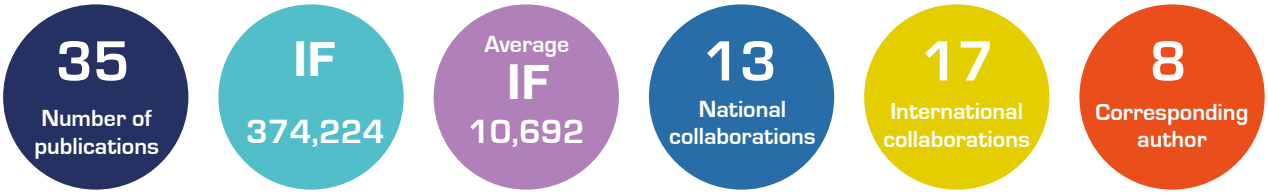
- Development of a diagnostic algorithm with endoscopy in endocrine and metabolic surgery
- Development of 3D modelling for hepatic, pancreatic and colorrectal tumours
- Research about the influence of postoperative complications on the oncologic outcome of metastatic disease
- Development of a new efficient protocol for the diagnosis of hyperparathyroidism
- Treatment of perianal fistulae with stem cells
- Development of a new organ preservation system for transplantation

Main lines of research

- Coloproctology: quality standards for coloproctology, 3D endorectal ultrasound, perianal fistula surgery, stem cells in proctology
- Hepato-bilio-pancreatic surgery: sarcopenia in postoperative outcomes, 3D imaging in HBP surgery, organ preservation for hepatic trasplantation
- Endocrine surgery: PET-Coline in HPT, ambulatory surgery in HPT, digestive endoscopy in the Surgery office
- Bariatric surgery: biliary reflux after BAGUA
- Breast surgery: breast endoscopic surgery. Selective sentinel node biopsy. Axilla assessment in DCIS
- Gastroesophageal surgery: perioperative QT in advanced gastric cancer, PIPAC technique in advanced carcinomatosis surgery

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Garcia-Botello S, Fernandez R, Lozano C, Salher S, Martin-Arevalo J, Moro-Valdezate D, Pla-Marti V, Espi-Macias A. Concordance and survival implications of preoperative subclassification of T3 rectal cancers by depth of mesorectal invasion using a 5-mm cut-off point with endorectal ultrasound and magnetic resonance imaging. Quantitative Imaging in Medicine and Surgery. 2022 Apr;12(4):2356-2367. doi: 10.21037/qims-21-880. PMID: 35371947. IF: 4,63
2. Di Martino M, Primavesi F, Syn N, Dorcaratto D, de la Hoz Rodriguez A, Dupre A, Piardi T, Rhaiem R, Blanco Fernandez G, de Armas Conde N, Rodriguez Sanjuan J, Fernandez Santiago R, Fernandez-Moreno M, Ferret G, Lopez Ben S, Suarez Munoz M, Perez-Alonso A, Koh Y, Jones R, Martin-Perez E. Long-term outcomes of perioperative versus neoadjuvant chemotherapy for resectable colorectal liver metastases: an international multicentre propensity-score matched analysis with stratification by contemporary risk-scoring. Annals of Surgical Oncology. 2022 Oct;29(11):6829-6842. doi: 10.1245/s10434-022-12027-9. PMID: 35849284. IF: 4,339
3. Garcia-Fadrique A, Estevan Estevan R, Sabater Orti L. Quality standards for surgery of colorectal peritoneal metastasis after cytoreductive surgery and hyperthermic intraperitoneal chemotherapy. Annals of Surgical Oncology. 2022 Jan;29(1):188-202. doi: 10.1245/s10434-021-10642-6. PMID: 34435297. IF: 4,339
4. Garcia-Botello S, Martín-Arévalo J, Martí-Fernández R, Moro-Valdezate D, Pla-Martí V, Espí-Macías A. Three-dimensional endoanal ultrasound to assess the validity of Goodsall's Rule and the Midline Rule in predicting the path of perianal fistula-in-ano and the location of the internal opening. Techniques in Coloproctology. 2022 May;26(5):351-361. doi: 10.1007/s10151-022-02592-2. PMID: 35217938. IF: 3,699
5. Castro A, Cassinello N, Alfonso R, Ortega J. Preoperative risk factors for early hemorrhagic complications in bariatric surgery: a case-control study. Surgical Endoscopy. 2022 Jan;36(1):430-434. doi: 10.1007/s00464-021-08302-7. PMID: 33523271. IF: 3,453

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/00250
Title: *Anastomosis pancreática tras duodenopancreatectomía cefálica: pancreatogastrostomía versus anastomosis de Blumgart. Estudio prospectivo, aleatorizado y multicéntrico*
Principal Investigator: Luis Sabater Ortí
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total Budget: €85.910

Reference: PI20/00008
Title: *Transección pancreática asistida por radiofrecuencia vs endograpadora. TRANSPAIRE. Ensayo clínico en fase III*
Principal Investigator: Patricia Sánchez Velázquez (Dimitri Dorcaratto, Marina Garcés, Elena Muñoz and Luis Sabater as collaborating researchers)
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Instituto Hospital del Mar de Investigaciones Médicas. IMIM*
Duration: 2021-2023
Total Budget: €75.020

Title: Proyecto RENACI
Principal Investigator: Mario Serradilla Martín (Luis Sabater Ortí as collaborating researcher)
Funding Body: *Asociación Española de Cirujanos*
Beneficiary institution: *Hospital Universitario Miguel Servet de Zaragoza*
Duration: 2020-2022

Research Group on Personal Autonomy, Dependence and Severe Mental Disorders (TMAP)

Consolidated group

Group members

Leading Researchers, R4

Rafael Tabarés Seisdedos. University

Manuel Gómez Beneyto. INCLIVA

Established Researchers, R3

Ferrán Catalá López. INCLIVA

Gabriel Selva Vera. Hospital. University

Inmaculada Fuentes Durá. University

José Salazar Fraile. INCLIVA

Manuel Girón Giménez. INCLIVA

Mikel Munarriz Ferrandis. INCLIVA

Patricia Correa Ghisays. University

Recognised Researchers, R2

Constanza San Martín Valenzuela. University

Diego Macías Saint-Geroms. INCLIVA

Jaume Forés Martos. University

First Stage Researcher, R1

Joan Vicent Sánchez Ortí. INCLIVA

Researchers by categories

R1	R2	R3	R4
1	3	7	2

Researchers financed by competitive public calls or networks

R2
1

Team involved in

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Strategic aims

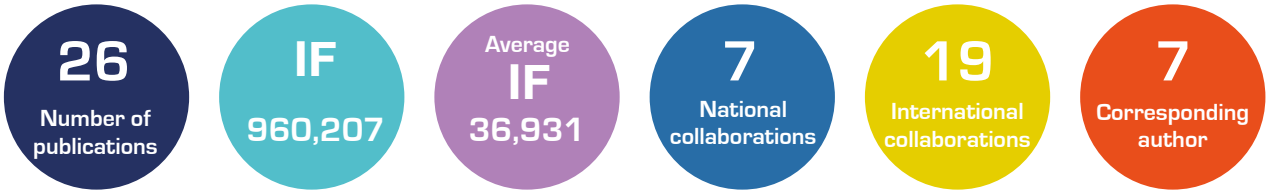
- Contribute to the prevention of signs of frailty and cognitive and functional impairment in populations at risk
- Favor the identification of biomarkers and endophenotypes associated with cognitive deficits and functional impairment in people with severe mental disorders and other chronic diseases that occur with deterioration in these areas
- Understand the unexpected associations between apparently different diseases such as Cancer and diseases of the Central Nervous System
- Continue studies of the increased burden of disease due to mental disorders and neurological diseases such as dementia
- Participate in expert groups to reach consensus on nutritional medicine and other clinical practices in modern psychiatry

Main lines of research

- Validation and identification of neurocognitive endophenotypes in severe mental disorder
- Identification of biomarkers in severe mental disorder
- Epidemiology and disability associated with severe mental disorder
- Direct and inverse multimorbidity in patients with complex diseases such as central nervous system disorders, cancer or metabolic diseases
- Global Burden of Disease studies
- Nutritional Psychiatry
- Transdiagnostic cognitive impairment, pre-frailty or frailty, and decreased social functioning in severe mental disorder and other diseases with chronic development
- COVID-19 pandemic and neurocognition, frailty, and social functioning in severe mental disorder and other diseases with chronic development

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Sanchez-Orti J, Balanza-Martinez V, Correa-Ghisays P, Selva-Vera G, Vila-Frances J, Magdalena-Benedito R, San-Martin C, Victor V, Escribano-Lopez I, Hernandez-Mijares A, Vivas-Lalinde J, Crespo-Facorro B, Tabares-Seisdedos R. Specific metabolic syndrome components predict cognition and social functioning in people with type 2 diabetes mellitus and severe mental disorders. Acta Psychiatrica Scandinavica. 2022 Sep;146(3):215-226. doi: 10.1111/acps.13433. PMID: 35359023. IF: 7,734
2. Correa-Ghisays P, Vicent Sanchez-Orti J, Balanza-Martinez V, Fuentes-Dura I, Martinez-Aran A, Ruiz-Bolo L, Correa-Estrada P, Ruiz-Ruiz J, Selva-Vera G, Vila-Frances J, Macias Saint-Gerons D, San-Martin C, Ayesa-Arriola R, Tabares-Seisdedos R. MICEmi: a method to identify cognitive endophenotypes of mental illnesses. European Psychiatry. 2022 Nov 28;65(1):e85. doi: 10.1192/j.eurpsy.2022.2348. PMID: 36440538. IF: 7,156
3. Correa-Ghisays P, Sanchez-Orti JV, Balanza-Martinez V, Selva-Vera G, Vila-Frances J, Magdalena-Benedito R, Victor VM, Escribano-Lopez I, Hernandez-Mijares A, Vivas-Lalinde J, San-Martin C, Crespo-Facorro B, Tabares-Seisdedos R. Transdiagnostic neurocognitive deficits in patients with type 2 diabetes mellitus, major depressive disorder, bipolar disorder, and schizophrenia: a 1-year follow-up study. Journal of Affective Disorders. 2022 Mar 1;300:99-108. doi: 10.1016/j.jad.2021.12.074. PMID: 34965401. IF: 6,533
4. San Martin Valenzuela C, Duenas L, Tomas J, Correa-Ghisays P, Serra-Ano P. Relevance of sociodemographics and clinical tests in single- and dual-task conditions as gait speed predictors of Parkinson's disease. Journal of Clinical Medicine. 2022 Jan 30;11(3):757. doi: 10.3390/jcm11030757. PMID: 35160208. IF: 4,964
5. Gares-Caballer M, Sanchez-Orti J, Correa-Ghisays P, Balanza-Martinez V, Selva-Vera G, Vila-Frances J, Magdalena-Benedito R, San-Martin C, Victor V, Escribano-Lopez I, Hernandez-Mijares A, Vivas-Lalinde J, Vieta E, Leza J, Tabares-Seisdedos R. Immune-inflammatory biomarkers predict cognition and social functioning in patients with Type 2 Diabetes Mellitus, major depressive disorder, bipolar disorder, and schizophrenia: a 1-year follow-up study. Frontiers in Neurology. 2022 Jun 2;13:883927. doi: 10.3389/fneur.2022.883927. PMID: 35720107. IF: 4,086

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PID2021-129099OB-100

Title: *MULTImorbilidad en personas con trastornos del Sistema Nervioso Central: una prioridad para la salud global desde los registros médicos*

Principal Investigator: Rafael Tabarés Seisdedos

Funding Body: *Ministerio de Ciencia e Innovación*

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022-2024

Total budget: €104.060

Reference: PI20/00066

Title: *Adaptación y validación de la batería cognitiva Brief Assessment of Cognition App (BAC App) y del Virtual Reality Assessment of Functional Capacity Tool (VRFCAT) para su uso en España*

Principal Investigator: Rosa Ayesa Arriola (Patricia Correa as collaborating researcher)

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Instituto de Investigación Marqués de Valdecilla (IDIVAL)*

Duration: 2021-2023

Total budget: €87.120

Reference: CB07/09/0021

Title: *Centro de Investigación Biomédica en Enfermedades Mentales (CIBERsam)*

Principal Investigator: Rafael Tabarés Seisdedos

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary institution: CIBERSAM

Duration: 2015-

Reference: UV-INV-AE-1554362
Title: *Estigma social hacia personas con diagnóstico de esquizofrenia en estudiantes universitarios: PREVAL*
Principal Investigator: Rafael Tabarés Seisdedos
Funding Body: *Universidad de Valencia*
Beneficiary institution: *Universidad de Valencia*
Duration: 2021-2022
Total budget: €7.510

Title: Drug safety and effectiveness network methods and aplications group in indirect comparisons (DSEN MAGIC) Team
Principal Investigator: Hutton B, Moher D, Straus SE, Wells G (Ferrán Catalá as collaborating researcher)
Funding Body: Canadian Institutes of Health Research/Drug Safety and Effectiveness Network
Beneficiary institution: CIBERSAM
Duration: 2019-2023
Total budget: €2.875.010,8

Title: Methods and Applications Group for Indirect Comparisons Collaborating Centre
Principal Investigator: Hutton B, Moher D, Straus SE, Wells G (Ferrán Catalá as collaborating researcher)
Funding Body: Canadian Institutes of Health Research/Drug Safety and Effectiveness Network
Beneficiary institution: *Universidad de Valencia*
Duration: 2019-2023
Total budget: €2.875.010,8

Research Group on Cellular and Organic Physiopathology of Oxidative Stress
Consolidated group

Group members

Leading Researcher, R4
Federico V. Pallardó Calatayud

University

Established Researchers, R3
Carlos Romá Mateo. University

José Manuel Torres Ibáñez. University

Emerging Researcher, R2
Juan Antonio Navarro Langa. INCLIVA

Recognised Researcher, R2
Marta Seco Cervera. CIBER

First Stage Researchers, R1
Concepción Garcés Díaz. University

Tamara Lapeña Luzón. University. CIBER

Vicent Beltrán Beltrán. CIBER

Staff. Technicians
Brenda Ruiz Yeves. INCLIVA

Nora Juciute. INCLIVA

Víctor Revert Torró. INCLIVA

Victoria Estel Brunchu Benlloch. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
3	2	2	1	4

Researchers financed by competitive public calls or networks

R1	R2
3	1

Team involved in

ciberer
CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED DE ENFERMEDADES RARAS

Strategic aims

- Development of new therapies for the treatment of neuromuscular diseases
- Development of new therapies for the treatment of neurodegenerative diseases
- Development of organoid cultures for drug screening and physiopathological studies
- iPS cardiomyocytes cultures to model cardiomyopathies

Main lines of research

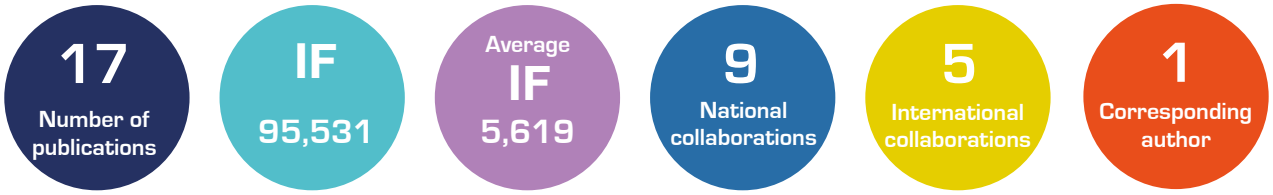
- Pathophysiology of Friedreich's Ataxia and other neuromuscular diseases
- Development of new therapeutic strategies for Friedreich's Ataxia
- Development of new biomarkers in both adult and neonatal sepsis
- Epigenetic regulation in the pathophysiology of rare diseases
- Epigenetic regulation of immunosuppression events in patients from Intensive Care Units
- Drug repositioning for triplet expansion diseases

Emerging Researcher

Juan Antonio Navarro Langa

Our scientific interests are focused on deciphering the programmed death mechanism followed by cells in Friedreich´s Ataxia patients using Drosophila melanogaster models. With Filippo Santorelli (University of Pisa), he is establishing a translational platform using Drosophila to model hereditary spastic paraplegia

PUBLICATIONS



SELECTED PUBLICATIONS

1. Rodríguez LR, Lapeña-Luzón T, Benetó N, Beltran-Beltran V, Pallardó FV, Gonzalez-Cabo P, Navarro JA. Therapeutic strategies targeting mitochondrial calcium signaling: a new hope for neurological diseases?. Antioxidants. 2022 Jan 15;11(1):165. doi: 10.3390/antiox11010165. PMID: 35052668. IF: 7,675
2. Osca-Verdegal R, Beltran-Garcia J, Paes A, Nacher-Sendra E, Novella S, Hermenegildo C, Carbonell N, Garcia-Gimenez J, Pallardo F. Histone citrullination mediates a protective role in endothelium and modulates inflammation. Cells. 2022 Dec 15;11(24):4070. doi: 10.3390/cells11244070. PMID: 36552833. IF: 7,666
3. Fatmi A, Chabni N, Cernada M, Vento M, González-López M, Aribi M, Pallardó FV, García-Giménez JL. Clinical and immunological aspects of microRNAs in neonatal sepsis. Biomedicine & Pharmacotherapy. 2022 Jan;145:112444. doi: 10.1016/j.biopha.2021.112444. PMID: 34808550. IF: 7,419
4. Saadi W, Fatmi A, Pallardo FV, Garcia-Gimenez JL, Mena-Molla S. Long non-coding RNAs as epigenetic regulators of immune checkpoints in cancer immunity. Cancers. 2022 Dec 28;15(1):184. doi: 10.3390/cancers15010184. PMID: 36612180. IF: 6,575
5. Muñoz-Lasso DC, Mollá B, Sáenz-Gamboa JJ, Insuasty E, de la Iglesia-Vaya M, Pook MA, Pallardó FV, Palau F, Gonzalez-Cabo P. Frataxin deficit leads to reduced dynamics of growth cones in dorsal root ganglia neurons of Friedreich's Ataxia YG8sR model: a multilinear algebra approach. Frontiers in Molecular Neuroscience. 2022 Jun 13;15:912780. doi: 10.3389/fnmol.2022.912780. PMID: 35769335. IF: 6,261

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: IFEQ22/00178
Title: *Sistema de espectrometría de masas acoplado a un sistema de cromatografía líquida de alta precisión*
Principal Investigator: Federico V. Pallardó Calatayud
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total budget: €300.000

Reference: DTS21/00193
Title: *Test basados en péptidos spike-in y espectrometría de masas para la cuantificación de histonas circulantes y proteína APC, para el manejo clínico del paciente crítico*
Principal Investigator: Jose Luis García Giménez (Federico V. Pallardó Calatayud as collaborating researcher)
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2023
Total budget: €122.100

Reference: PI19/01084
Title: *Nuevas terapias en Ataxia de Friedreich*
Principal Investigator: Federico V. Pallardó Calatayud
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €93.170

Reference: CB06/07/0073
Title: *Centro de Investigación Biomédica en Enfermedades Raras (CIBERer)*
Principal Investigator: Federico V. Pallardó Calatayud
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Universidad de Valencia*
Duration: 2007-

Reference: PID2020-119127RA-I00
Title: *Citotoxicidad mediada por macromoléculas nucleares: mecanismos moleculares y potencial para el desarrollo de biomarcadores de sepsis y choque séptico*
Principal Investigator: Carlos Romá Mateo
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2024
Total budget: €121.000

Reference: RTC2019-006825-1
Title: *Potencial de la leriglitazona para el tratamiento de enfermedades asociadas a la acumulación de hierro, distrofias y enfermedades neuromusculares*
Principal Investigator: Pilar González Cabo (Federico V. Pallardó Calatayud as collaborating researcher)
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary institution: Minoryx Therapeutic SL
Duration: 2020-2023
Total budget: €90.000

Title: GVA-COVID19/2021/028
Title: *Efecto de la infección por COVID-19 sobre la longitud del telómero y parámetros de función mitocondrial y su relación con la evolución a fibrosis pulmonar de tipo idiopático*
Principal Investigator: Federico V. Pallardó Calatayud
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2022
Total budget: €62.280

Title: CDEI-04/20-C
Title: Drosophila melanogaster as model to study the impact of ferroptosis in Friedreich´s Ataxia
Principal Investigator: Juan Antonio Navarro
Funding Body: *Conselleria de Sanidad Universal y Salud Pública*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €246.500

Reference: 90/C/2020
Title: Therapeutical strategies for cystinuria
Principal Investigator: Federico V. Pallardó Calatayud
Funding Body: *Marató TV3*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €35.580

Reference: AP-2021-009
Title: *NATAX: Nanozimas como aproximación terapéutica para el tratamiento del estrés oxidativo en la Ataxia de Friedreich*
Principal Investigator: José Vicente Ros Lis and Federico V. Pallardó Calatayud
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

Reference: AP-2021-014
Title: *FlyAvatar: Drosophila melanogaster como herramienta de diagnóstico molecular para la Paraparesia Espástica Hereditaria 7 (HSP7)*
Principal Investigator: Mª José Martínez Sebastián and Juan Antonio Navarro Langa
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

Reference: AP-2021-019
Title: *HISTONATTR: Efecto de la activación de TLR por medio de sus ligandos sobre la polarización de macrófagos hacia M1 y su función citocida frente a las células madre de glioblastoma*
Principal Investigator: Carlos Romá Mateo and Enrique Santas Olmeda

Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary Institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €4.750

Reference: 2021095290
Title: Intracellular iron deposits in a Drosophila Model of Friedreich´s Ataxia
Principal Investigator: Juan Antonio Navarro
Funding Body: Center of Excellence ALBA Synchrotron
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total budget: €51.471,36

THESIS

Thesis title: *Uso de las histonas circulantes y sus modificaciones post-traduccionales como biomarcadores en sepsis y shock séptico*
Doctoral candidate: Jesús Beltrán García
Director(s): José Luis García Giménez, Federico Pallardó Calatayud
Date of the defense: 20/01/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Research Group on Nuclear Receptors in Cardiometabolic Pathology

Emerging group

Group members

Leading Researcher, R4

Laura Piqueras Ruiz

University. INCLIVA

Recognised Researcher, R2

Rebeca Ortega Herráiz. INCLIVA

First Stage Researcher, R1

Luisa María Hueso Soler. INCLIVA

Staff. Collaborating Researchers

David De Alburquerque Bravo. INCLIVA

Mª del Mar García Guerrero. INCLIVA

Mireia López Riera. INCLIVA

Researchers by categories

R1	R2	R4	STAFF
1	1	1	3

Researchers financed by competitive public calls or networks

R4	STAFF
1	1

Strategic aims

- Identification of new mechanisms involved in angiogenesis and inflammation in obese patients:
  - Study and characterization of the role of the CCR4 receptor and its ligands CCL17/TARCE, CCL22/MDC and CKLF1 in angiogenesis and inflammation associated with obesity and in response to bariatric surgery
  - Characterization of the role of constitutive nuclear receptors for androstane (CAR) in endothelial dysfunction and angiogenesis associated with obesity and in response to bariatric surgery
- Identification of new mechanisms involved in angiogenesis and inflammation in acute myocardial infarction. Role of the antiangiogenic isoform VEGF165b:
  - Determination of VEGF-A165b levels in patients with STEMI and its relationship with microvascular obstruction
  - To study the effects of the neutralization of the VEGF-165b isoform in a mouse model with acute myocardial infarction
- Study of the role of the SGLT2 transporter in the development of abdominal aortic aneurysm:
  - To evaluate the effect of empagliflozin, an SGLT2 inhibitor, in an animal model of abdominal aortic aneurysm and to investigate the possible anti-inflammatory effect of empagliflozin on endothelial dysfunction

Main lines of research

- Identification of new mechanisms involved in angiogenesis and inflammation in obese patients. Role of CCR4 chemokine receptor ligands and constitutive nuclear androstane receptors
- Identification of new mechanisms involved in angiogenesis and inflammation in acute myocardial infarction. Role of the antiangiogenic isoform VEGF165b
- Study of the SGLT2 transporter in the development of abdominal aortic aneurysm

PUBLICATIONS

2	IF	Average IF	0	0	2
Number of publications	11,169	5,584	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Marques P, Domingo E, Rubio A, Martinez-Hervas S, Ascaso JF, Piqueras L, Real JT, Sanz MJ. Beneficial effects of PCSK9 inhibition with alirocumab in familial hypercholesterolemia involve modulation of new immune players. Biomedicine & Pharmacotherapy. 2022 Jan;145:112460. doi: 10.1016/j.biopha.2021.112460. PMID: 34864314. IF: 7,419
2. Moreno B, Hueso L, Ortega R, Benito E, Martinez Hervas S, Peiro M, Civera M, Sanz MJ, Piqueras L, Real JT. Association of chemokines IP-10/CXCL10 and I-TAC/CXCL11 with insulin resistance and enhance leukocyte endothelial arrest in obesity. Microvascular Research. 2022 Jan;139:104254. doi: 10.1016/j.mvr.2021.104254. PMID: 34534571. IF: 3,75

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/00220
Title: *Estudio de nuevos ejes de quimiocinas como potenciales dianas de intervención en la obesidad y la resistencia a la insulina*
Principal Investigator: Laura Piqueras Ruiz and José Tomas Real Collado
Funding body: *Instituto de Salud Carlos III* - Cofinanciado FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duración: 2022-2024
Presupuesto total: €204.490

Reference: PI18/00209
Title: *Identificación de nuevos mecanismos implicados en la angiogénesis e inflamación en pacientes obesos. Modulación por ligandos de receptores nucleares constitutivos de androstano*
Principal Investigator: Laura Piqueras Ruiz and José Tomas Real Collado
Funding body: *Instituto de Salud Carlos III* - Cofinanciado FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duración: 2019-2022
Presupuesto total: €173.332,5

Reference: CDEI-04/20-A
Title: Plan GenT
Principal Investigator: Laura Piqueras Ruiz
Funding body: *Conselleria de Sanitat*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duración: 2020-2023
Presupuesto total: €253.000

THESIS

Thesis title: Effect of SGLT-2 inhibition in abdominal aortic aneurysm development. Role of rora in adipose tissue inflammation associated to obesity
Doctoral candidate: Rebeca Ortega Herráiz
Director(s): Laura Piqueras Ruiz, María Jesús Sanz Ferrando, José Tomás Real Collado
Date of the defense: 21/02/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Research Group on Metabolic Diseases
Emerging group

Group members

Leading Researcher, R4
Herminia González Navarro
INCLIVA. University

Recognised Researchers, R2
Alida Taberner Cortés. INCLIVA
Elena Jiménez Martí. University

First Stage Researchers, R1
Gema Hurtado Genovés. INCLIVA
María Aguilar Ballester. INCLIVA
Susana Martín Vañó. INCLIVA

Staff. Technicians
Andrea Herrero Cervera. INCLIVA
Marta Ruiz Piquer. INCLIVA
Pablo Arjona Fernández-Sanabria. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



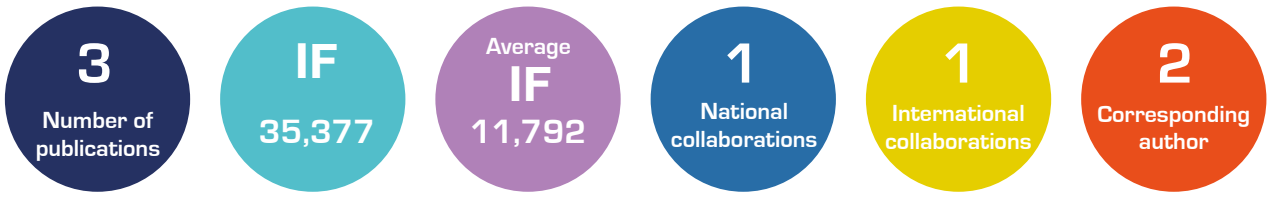
Strategic aims

- Study of the effect of inflammatory mediators of the lymphotoxin family and their receptors on the development of metabolic associated fatty liver disease
- Study of the cytokine LIGHT in the stability of the plaque during the progression of atherosclerosis
- Characterization of immune populations in human metabolic diseases

Main lines of research

- Identification of novel cellular plasticity mechanisms involved in atheroma plaque stability
- Identification and characterization of tissular immune populations associated with metabolic diseases
- Novel biomarkers for the stratification of patients with diabetes and atherosclerosis

PUBLICATIONS



SELECTED PUBLICATIONS

1. Herrero-Cervera A, Soehnlein O, Kenne E. Neutrophils in chronic inflammatory diseases. Cellular & Molecular Immunology. 2022 Feb;19(2):177-191. doi: 10.1038/s41423-021-00832-3. PMID: 35039631. IF: 22,096
2. Jimenez-Marti E, Hurtado-Genoves G, Aguilar-Ballester M, Martinez-Hervas S, Gonzalez-Navarro H. Novel therapies for cardiometabolic disease: recent findings in studies with hormone peptide-derived G protein coupled receptor agonists. Nutrients. 2022 Sep 13;14(18):3775. doi: 10.3390/nu14183775. PMID: 36145148. IF: 6,706
3. Albanell-Fernandez M, Oltra S, Orts-Arroyo M, Ibarrola-Villava M, Carrasco F, Jimenez-Marti E, Cervantes A, Castro I, Martinez-Lillo J, Ribas G. RUNAT-BI: a Ruthenium(III) complex as a selective anti-tumor drug candidate against highly aggressive cancer cell lines. Cancers. 2022 Dec 22;15(1):69. doi: 10.3390/cancers15010069. PMID: 36612065. IF: 6,575

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/00169
Title: *Papel de los procesos inflamatorios en las enfermedades metabólicas y en las complicaciones asociadas*
Principal Investigator: Herminia González Navarro and Sergio Martínez Hervás
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total Budget: €159.720

Reference: CDEI0420B
Title: Plan GenT
Principal Investigator: Herminia González Navarro
Funding Body: *Conselleria de Sanitat*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total Budget: €253.000

Title: *Papel de la vía de señalización mediada por LIGHT en el fenotipo y la reprogramación celular en la placa de ateroma*
Principal Investigator: Herminia González Navarro
Funding Body: *Sociedad Española de arteriosclerosis/Fundación Española de arteriosclerosis*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total Budget: €12.000

Research Group on Rare Respiratory Diseases (RRD)
Emerging group

Group members

Leading Researcher, R4
Francisco Dasí Fernández
University

Established Researcher, R3
Selene Valero Moreno. University

Recognised Researchers, R2
Lucía Bañuls Soto. INCLIVA
María Magallón Serrano. INCLIVA
Silvia Castillo Corullón. Hospital. University

First Stage Researcher, R1
Daniel Pellicer Roig. INCLIVA

Staff. Collaborating Researcher
Mª Mercedes Navarro García. INCLIVA

Staff. Technicians
Miguel Ángel Esteve Gimeno. INCLIVA
Néstor Navarro Ortí. INCLIVA

Researchers by categories

R1	R2	R3	R4	STAFF
1	3	1	1	3

Researchers financed by competitive public calls or networks

R2	R4
1	1

Team involved in

Rare Respiratory Diseases Research Group

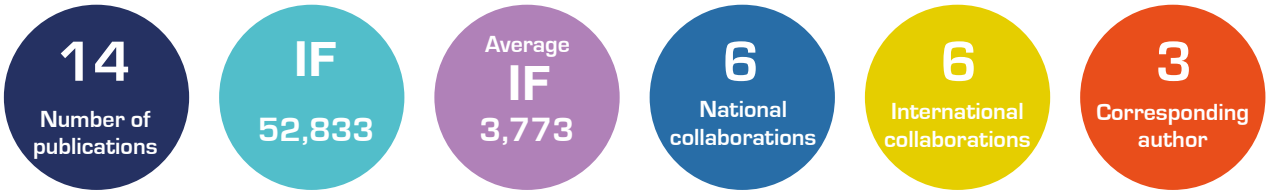
Strategic aims

- We have shown that NK and lymphocytes B express and secrete alpha-1 antitrypsin
- We have discovered a group of miRNAs that could be used for the diagnosis and prognosis of alpha-1 antitrypsin deficiency. We are currently validating these results using an external cohort
- A new method based on oxidative stress markers to identify patients with Primary Ciliary Dyskinesia has been set up
- We have set up the high-speed video method to identify patients with Primary Ciliary Dyskinesia
- We have shown that hypoxia modifies neutrophil degranulation and enhances oxidative damage in alpha-1 antitrypsin deficiency patients

Main lines of research

- The group is currently conducting active basic research on two rare respiratory diseases (RRDs); Alpha-1 Antitrypsin Deficiency (AATD) and primary ciliary dyskinesia (PCD)
- The specific lines of action of the group are:
  - To characterize the molecular mechanisms (especially those aspects related to REDOX regulation) involved in the development of disease in AATD and PCD
  - To evaluate the diagnostic and/or prognostic value of circulating nucleic acids in plasma/serum
  - Development of cellular models from cells of patients with RRD, which allow research in these diseases
  - To develop new therapeutic strategies based on gene therapy
  - To generate social awareness of RRD, through the scientific dissemination of biomedical advances and social and health policies aimed at improving the quality of life of patients

PUBLICATIONS



SELECTED PUBLICATIONS

1. Dasi F. Alpha-1 antitrypsin deficiency. Medicina Clinica. 2022 Oct 14;S0025-7753(22)00458-4. doi: 10.1016/j.medcli.2022.09.001. PMID: 36253208. IF: 3,2
2. Torrent-Vernetta A, Gaboli M, Castillo-Corullon S, Mondejar-Lopez P, Santiago V, Costa-Colomer J, Osona B, Torres-Borrego J, De la Serna-Blazquez O, Alonso S, Aguilera P, De Atauri A, Soria A, Ayats R, de Vicente C, Gonzalez V, Gonzalez J, Calderin E, Pastor-Vivero M, Alvarez M, Rovira-Amigo S, Serrano I, Izquierdo A, Messa I, Gartner S, Navarro A, Baz-Redon N, Carmona R, Camats-Tarruella N, Fernandez-Cancio M, Rapp C, Dopazo J, Griese M, Moreno-Galdo A. Incidence and prevalence of children's diffuse lung disease in Spain. Archivos de Bronconeumologia. 2022 Jan;58(1):22-29. doi: 10.1016/j.arbres.2021.06.001. PMID: 35249699. IF: 6,333
3. Mondejar-Lopez P, Zolin A, Garcia-Marcos P, Pastor-Vivero M, Rosa-Silvestre M, Sanchez-Martinez F, Salvatore D, Cimino G, Majo F, Sole-Jover A, de la Cruz O, Calderazzo M, Pizzamiglio G, Castillo-Corullon S, Alvarez-Fernandez A, Gartner S, Padoan R, Carnovale V, Salvatore M, Moya-Quiles M, Orenti A, Glover G, Sanchez-Solis M. Geographic distribution and phenotype of European people with cystic fibrosis carrying A1006E mutation. Respiratory Medicine. 2022 Feb;192:106736. doi: 10.1016/j.rmed.2022.106736. PMID: 35032736. IF: 4,582
4. Raidt J, Maitre B, Pennekamp P, Altenburg J, Anagnostopoulou P, Armengot M, Bloemsma L, Boon M, Borrelli M, Brinkmann F, Carr S, Carroll M, Castillo-Corullon S, Coste A, Cutrera R, Dehlink E, Destouches D, Di Cicco M, Dixon L, Emiralioglu N, Eralp E, Haarman E, Hogg C, Karadag B, Kobbernagel H, Lorent N, Mall M, Marthin J, Martinu V, Narayanan M, Ozcelik U, Peckham D, Pifferi M, Pohunek P, Polverino E, Range S, Ringshausen F, Robson E, Roehmel J, Rovira-Amigo S, Santamaria F, Schlegtendal A, Szepfalusi Z, Tempels P, Thouvenin G, Ullmann N, Walker W, Wetzke M, Yiallouros P, Omran H, Nielsen K. The disease-specific clinical trial network for primary ciliary dyskinesia: PCD-CTN. ERJ Open Research. 2022 Aug 15;8(3):00139-2022. doi: 10.1183/23120541.00139-2022. PMID: 35983540. IF: 4,239
5. Martinez-Redondo M, Prados Sanchez C, Garcia-Rio F, Quintana Gallego E, Castillo Corullon S, Salcedo Posadas A, Giron Moreno R, Martinez Martinez M, Maiz Carro L, de Vicente C, Costa Colomer J, Alvarez-Sala Walther R. The relation of CFTR-genotype and associated comorbidities to development of pulmonary atelectasis in cystic fibrosis patients. Archivos de Bronconeumologia. 2022 Sep;58(9):666-668. doi: 10.1016/j.arbres.2022.02.009. PMID: 35644710. IF: 6,333

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *Estudio de los microRNAs circulantes como biomarcadores pronósticos en pacientes con déficit de alfa-1 antitripsina. Un enfoque funcional*
Principal Investigator: Francisco Dasí Fernández
Funding body: *Sociedad Valenciana de Neumología*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €6.000

Title: *Estudio de la utilidad clínica de los exosomas plasmáticos en la discinesia ciliar primaria*
Principal Investigator: Francisco Dasí Fernández
Funding body: *Sociedad Valenciana de Neumología*
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €12.000

THESIS

Thesis title: *Edición génica del gen serpina1 mediante el uso de CRISPR/CAS9 en células sanguíneas de pacientes con déficit de alfa-1 antitripsina*
Doctoral candidate: Lucía Bañuls Soto
Director(s): Francisco Dasí Fernández, Amparo Escribano

Montaner, Salvador Martí Pérez
Date of the defense: 20/05/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Estudio de la utilidad clínica de los microARNs en suero y orina de pacientes con cáncer de vejiga*
Doctoral candidate: Ana María Castelló Porcar
Director(s): Francisco Dasí Fernández, José María Martínez Jabaloyas
Date of the defense: 27/10/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Efecto de la hipoxia en la degranulación, producción de citoquinas y perfil oxidativo de neutrófilos en pacientes con déficit de alfa-1 antitripsina*
Doctoral candidate: María Magallón Serrano
Director(s): Francisco Dasí Fernández
Date of the defense: 01/12/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Healthy Aging (MiniAging)
Emerging group

Group members

Leading Researcher, R4
Consuelo Borrás Blasco
University

Established Researcher, R3
Juan Gambini Buchón. University

Recognised Researchers, R2
Ana Díaz Cuevas. University
Cristina Mas Bargues. University
Mar Dromant Jarque. INCLIVA
Marta Inglés de la Torre. University

First Stage Researchers, R1
Aurora Román Rodríguez. University
Jorge Sanz Ros. University

Researchers by categories



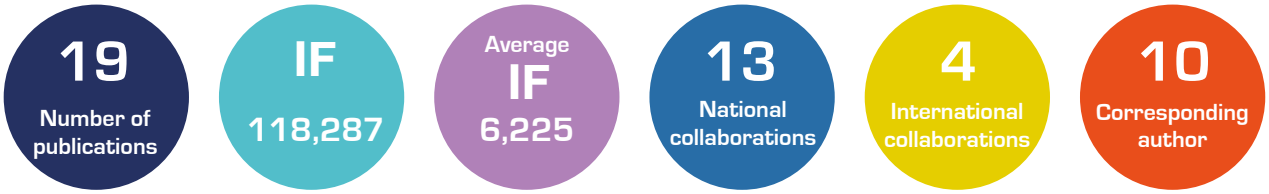
Strategic aims

- To know the molecular mechanisms involved in aging and frailty processes
- To develop possible biomarkers to evaluate them
- To develop possible methods to evaluate them
- To develop appropriate intervention strategies
- To determine an index of quality of life in experimental animals
- To develop human imaging biomarkers for the diagnosis of frailty
- To study interventions to delay aging and prevent frailty:
  - Therapy with small extracellular vesicles
  - Role of the antiapoptotic gene Bcl-xL

Main lines of research

- Development of a quality of life index (healthy aging) in experimental animals (derived from intervention studies in aging)
  - Frailty biomarkers based on ultrasound image analysis (echo intensity, fractals, textures)
- Development of image biomarkers in the diagnosis of frailty:
  - Fragility biomarkers based on ultrasound image analysis (echointensity, fractals, textures)
- Interventions for healthy aging:
  - Stem cell derived extracellular medicine (based on previous studies on stem cells and senescence)
  - Study of Bcl-xL as a longevity gene (based on previous studies in centenarians)

PUBLICATIONS



4 scientific activity

SELECTED PUBLICATIONS

1. Sanz-Ros J, Romero-García N, Mas-Bargues C, Monleón D, Gordevicius J, Brooke RT, Dromant M, Díaz A, Derevyanko A, Guío-Carrión A, Román-Domínguez A, Inglés M, Blasco MA, Horvath S, Viña J, Borrás C. Small extracellular vesicles from young adipose-derived stem cells prevent frailty, improve health span, and decrease epigenetic age in old mice. Science Advances. 2022 Oct 21;8(42):eabq2226. doi: 10.1126/sciadv.abq2226. PMID: 36260670. IF: 14,957
2. Viña J, Escudero J, Baquero M, Cebrián M, Carbonell-Asíns JA, Muñoz JE, Satorres E, Meléndez JC, Ferrer-Rebolleda J, Cózar-Santiago MDP, Santabárbara-Gómez JM, Jové M, Pamplona R, Tarazona-Santabalbina FJ, Borrás C. Genistein effect on cognition in prodromal Alzheimer's disease patients. The GENIAL clinical trial. Alzheimer's Research & Therapy. 2022 Nov 4;14(1):164. doi: 10.1186/s13195-022-01097-2. PMID: 36329553. IF: 8,823
3. Inglés M, Belenguer-Varea A, Serna E, Mas-Bargues C, Tarazona-Santabalbina FJ, Borrás C, Vina J. Functional transcriptomic analysis of centenarians' offspring reveals a specific genetic footprint that may explain that they are less frail than age-matched noncentenarians' offspring. The Journals of Gerontology. Series A, Biological Sciences and Medical Sciences. 2022 Oct 6;77(10):1931-1938. doi: 10.1093/gerona/glac119. PMID: 35640160. IF: 6,591
4. Mas-Bargues C, Borrás C, Viña J. The multimodal action of genistein in Alzheimer's and other age-related diseases. Free Radical Biology & Medicine. 2022 Apr;183:127-137. doi: 10.1016/j.freeradbiomed.2022.03.021. PMID: 35346775. IF: 8,101
5. Mas-Bargues C, García-Domínguez E, Borrás C. Recent approaches to determine static and dynamic redox state-related parameters. Antioxidants. 2022 Apr 28;11(5):864. doi: 10.3390/antiox11050864. PMID: 35624728. IF: 7,675

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: AC20/00026
Title: Combining vitamin E-functionalized CHOcolate with physical exercise to reduce the risK of protein energy malnutrition in pre-dementia AGEd people. ERA-HDHL Call for Joint Transnational Research Proposals on Development of targeted nutrition for prevention of undernutrition for older adults (PREVNUT)
Principal Investigator: José Viña Ribes (Consuelo Borrás Blasco as collaborating researcher)
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2023
Total Budget: €169.098

Reference: PID2020-113839RB-I00
Title: *Efecto del tratamiento con vesículas extracelulares de células madre de grasa de ratones jóvenes sobre parámetros de envejecimiento y fragilidad en ratones de edad avanzada*
Principal Investigator: Consuelo Borrás Blasco
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2024
Total Budget: €181.500

Reference: PCIN-2017-117
Title: *Obesidad materna y disfunción cognitiva en la descendencia: papel causa-efecto de la microbiota intestinal y prevención dietética temprana*
Principal Investigator: Consuelo Borrás Blasco
Funding Body: *Ministerio de Economía, Industria y Competitividad*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2017-2022
Total Budget: €143.000

Reference: GE/2022/134
Title: *Papel de BCL-Xl en el envejecimiento saludable y la prevención de la fragilidad*
Principal Investigator: Cristina Más Bargues
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2022-2023
Total Budget: €20.000

THESIS

Thesis title: *Estudio comparativo de los efectos del ejercicio físico de baja intensidad, de la estimulación magnética transcraneal y de la terapia con oxígeno hiperbárico en mujeres con fibromialgia. Ensayo clínico aleatorizado*
Doctoral candidate: Ruth Izquierdo Alventosa
Director(s): Marta Inglés de la Torre, Pilar Serra Añó, Sara Cortés Amador
Date of the defense: 14/01/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Efecto favorable de la comunicación intercelular a través de vesículas extracelulares derivadas de células madre del tejido adiposo en el envejecimiento*
Doctoral candidate: Jorge Manuel Sanz Ros
Director(s): Consuelo Borrás Blasco, José Viña Ribes, Cristina Más Bargues
Date of the defense: 16/09/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Exercise, Nutrition and Healthy Lifestyle
Emerging group

Group members

Leading Researcher, R4
Mª Carmen Gómez Cabrera
University

Recognised Researchers, R2
Aitor Carretero Martínez. INCLIVA
Fernando Millán Domingo. University
Gloria Olaso González. University

First Stage Researcher, R1
Esther García Domínguez. INCLIVA

Researchers by categories

R1 1 | R2 3 | R4 1

Researchers financed by competitive public calls or networks

R1 1

Strategic aims

- Role of nicotinamide riboside (NR) and Urolithin A (UroA) as mitotherapeutics for the reversal of energy collapse associated with aging
- Role of β-hydroxybutyrate on the loss of muscle mass associated with aging
- Effect of an intervention with protein and vitamin supplementation in synergy with a multicomponent program of physical exercise in the reversal of frailty
- Effect of glucosamine supplementation on physical performance
- Evaluation of the neuroprotective effect of ketogenic diets (intermittent fasting and carbohydrate-free diet)
- High intensity interval exercise in the prevention and treatment of frailty
- Study of the effect of the activation of glucose 6 phosphate dehydrogenase with different intervention strategies in the prevention of frailty

Main lines of research

Using molecular approaches in animal and human models, this group aims to establish the basic mechanisms modulated by exercise and nutrition to transfer them through clinical trials to the improvement of the quality of life in humans. The research lines of the Exercise, Nutrition and Healthy Lifestyle Research Group include the study of:

- Cell signaling in skeletal muscle during physical exercise
- Oxidative stress associated with physical exercise and the effect of the administration of antioxidants
- The mechanisms involved in muscle atrophy with special attention to the study of the importance of oxidative stress in the loss of muscle mass, both in clinical and preclinical models
- The benefits of physical exercise and nutritional interventions to ensure healthy aging with special attention to the treatment of various pathologies associated with aging, especially Alzheimer's disease, senile sarcopenia and frailty

PUBLICATIONS

9	IF 51,469	Average IF 5,718	4	4	2
Number of publications			National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Rodriguez-Rovira I, Arce C, De Rycke K, Perez B, Carretero A, Arbones M, Teixido-Tura G, Gomez-Cabrera M, Campuzano V, Jimenez-Altayo F, Egea G. Allopurinol blocks aortic aneurysm in a mouse model of Marfan syndrome via reducing aortic oxidative stress. Free Radical Biology & Medicine. 2022 Nov 5;193(Pt 2):538-550. doi: 10.1016/j.freeradbiomed.2022.11.00. PMID: 36347404. IF: 8,101
2. Garcia-Dominguez E, Carretero A, Vina-Almunia A, Domenech-Fernandez J, Olaso-Gonzalez G, Vina J, Gomez-Cabrera MC. Glucose 6-P dehydrogenase-an antioxidant enzyme with regulatory functions in skeletal muscle during exercise. Cells. 2022 Sep 28;11(19):3041. doi: 10.3390/cells11193041. PMID: 36231003. IF: 7,666
3. Millan-Domingo F, Tarazona-Santabalbina F, Carretero A, Olaso-Gonzalez G, Vina J, Gomez-Cabrera M. Real-life outcomes of a multicomponent exercise intervention in community-dwelling frail older adults and its association with nutritional-related factors. Nutrients. 2022 Dec 3;14(23):5147. doi: 10.3390/nu14235147. PMID: 36501177. IF: 6,706
4. De la Rosa A, Olaso-Gonzalez G, Garcia-Dominguez E, Mastaloudis A, Hester S, Wood S, Gomez-Cabrera M, Vina J. Glucosamine supplementation improves physical performance in trained mice. Medicine and Science in Sports and Exercise. 2022 Mar 1;54(3):466-474. doi: 10.1249/MSS.0000000000002821. PMID: 34711707. IF: 6,289
5. Marques P, Fernandez-Presa L, Carretero A, Gómez-Cabrera MC, Viña J, Signes-Costa J, Sanz MJ. The radiographic assessment of lung edema score of lung edema severity correlates with inflammatory parameters in patients with coronavirus disease 2019-Potential new admission biomarkers to predict coronavirus disease 2019 worsening. Frontiers in Medicine. 2022 Aug 11;9:871714. doi: 10.3389/fmed.2022.871714. PMID: 36035415. IF: 5,058

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: DIABFRAIL-LATAM-825546
Title: Scaling-up of and evidence-based intervention programme in older people with Diabetes and Frailty in LatinAmerica
Principal Investigator: Leocadio Rodríguez Mañas (Mª Carmen Gómez Cabrera as collaborating researcher)
Funding Body: European Commission
Beneficiary Institution: CIBER (*Fundación Investigación Hospital Clínico Universitario de Valencia* as Third Party)
Duration: 2019-2024
Total Budget: €273.720

Reference: PID2019-110906RB-100
Title: *Nuevas intervenciones terapéuticas multidominio para retrasar la fragilidad y la discapacidad. Identificación de mecanismos moleculares con relevancia traslacional*
Principal Investigator: José Viña Ribes and Consuelo Gómez Cabrera
Funding Body: *Ministerio de Economía y Competitividad*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total budget: €270.000

Reference: 45/UPB/20
Title: *Redes de Investigación en ciencias del deporte: EXERNET. Red de ejercicio físico y salud*
Principal Investigator: José Antonio Casajús (Mª Carmen Gómez-Cabrera as collaborating researcher)
Funding Body: *Ministerio de Cultura y Deporte*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2021-2022
Total Budget: €8.000

Reference: PROMETEO/2019/097
Title: *Diferencias de fragilidad entre géneros: evaluación de biomarcadores y estrategias de intervención*
Principal Investigator: José Viña Ribes (Mª Carmen Gómez Cabrera as collaborating researcher)
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Universidad de Valencia*
Duration: 2020-2023
Total Budget: €189.391

4 scientific activity

THESIS

Thesis title: *Papel de la xantina oxidasa en la pérdida de masa muscular por inmovilización en humanos. Importancia del protocolo de obtención de biopsias musculares en los estudios de atrofia muscular*
Doctoral candidate: Vicente Sebastiá Alcàcer
Director(s): Mª Carmen Gómez Cabrera, José Viña Ribes, Enrique Viosca Herrero
Date of the defense: 28/06/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Intervención con ejercicio físico multicomponente sobre el adulto mayor frágil en la vida real* (Real Life Intervention)
Doctoral candidate: Fernando Millán Domingo
Director(s): José Viña Ribes, María Carmen Gómez Cabrera, Francisco José Tarazona Santabalbina
Date of the defense: 01/07/2022
Grade: *Sobresaliente "cum laude"*

Research Group on Epigenomics and Translational Epigenetics
Emerging group

Group members

Leading Researcher, R4

José Luis García Giménez

University. CIBER

Established Researchers, R3

José Ferreres Franco. Hospital. University

Nieves Carbonell Monleón. Hospital

Salvador Mena Mollá. University

Rebeca Osca Verdegal. INCLIVA

First Stage Researchers, R1

Elena Nácher Sendra. INCLIVA

Staff. Technician

Laura Romero Jaque. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



Strategic aims

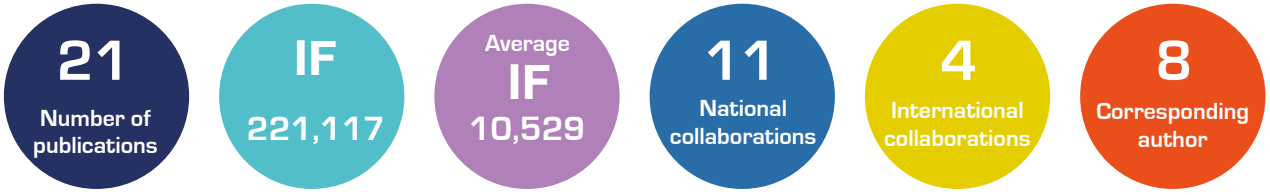
Deepen the characterization of the epigenetic mechanisms that give phenotypic variability in human diseases, and that can give rise to diagnostic and prognostic biomarkers that can be implemented in precision medicine:

- Identification of epigenetic mechanisms and biomarkers in Rare Diseases
- Identification of epigenetic biomarkers in sepsis and neonatal sepsis
- Comprehension of the mechanisms mediating the heterogeneity and complexity of sepsis by generating new organoid models

Main lines of research

- Identification of biomarkers for diagnosis, prognosis and monitoring of therapies in sepsis and septic shock
- Identification of molecular mechanisms related to epigenetic dysregulation and oxidative stress in rare diseases
- Artificial intelligence for improved criticall-ill patient management using epigenetic biomarkers
- Organoids as models to evaluate tissue damage mediated by circulating histones

PUBLICATIONS



SELECTED PUBLICATIONS

1. Beltrán-García J, Osca-Verdegal R, Pérez-Cremades D, Novella S, Hermenegildo C, Pallardó FV, García-Giménez JL. Extracellular histones activate endothelial NLRP3 Inflammasome and are associated with a severe sepsis phenotype. Journal of Inflammation Research. 2022 Jul 25;15:4217-4238. doi: 10.2147/JIR.S363693. PMID: 35915852. IF: 4,631

2. Beltrán-García J, Osca-Verdegal R, Jávega B, Herrera G, O'Connor JE, García-López E, Casabó-Vallés G, Rodriguez-Gimillo M, Ferreres J, Carbonell N, Pallardó FV, García-Giménez JL. Characterization of early peripheral immune responses in patients with sepsis and septic shock. Biomedicines. 2022 Feb 23;10(3):525. doi: 10.3390/biomedicines10030525. PMID: 35327327. IF: 4,757

3. Fatmi A, Chabni N, Cernada M, Vento M, González-López M, Aribi M, Pallardó FV, García-Giménez JL. Clinical and

immunological aspects of microRNAs in neonatal sepsis. Biomedicine & Pharmacotherapy. 2022 Jan;145:112444. doi: 10.1016/j.biopha.2021.112444. PMID: 34808550. IF: 7,419

4. García-Giménez JL, García-Trevijano ER, Avilés-Alía AI, Ibañez-Cabellos JS, Bovea-Marco M, Bas T, Pallardó FV, Viña JR, Zaragozá R. Identification of circulating miRNAs differentially expressed in patients with Limb-girdle, Duchenne or facioscapulohumeral muscular dystrophies. Orphanet Journal of Rare Diseases. 2022 Dec 27;17(1):450. doi: 10.1186/s13023-022-02603-3. PMID: 36575500. IF: 4,303
5. Osca-Verdegal R, Beltrán-García J, Górriz JL, Martínez Jabaloyas JM, Pallardó FV, García-Giménez JL. Use of circular RNAs in diagnosis, prognosis and therapeutics of renal cell carcinoma. Frontiers in Cell and Developmental Biology. 2022 Jun 22;10:879814. doi: 10.3389/fcell.2022.879814 PMID: 35813211. IF: 6,081

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/00994
Title: *Biomarcadores epigenéticos en sepsis y su implicación en inmunosupresión y futuras comorbilidades en supervivientes*
Principal Investigator: José Luis García Giménez
Funding Body: *Instituto de Salud Carlos III-Co-financed FEDER*
Beneficiary institution: *Universidad de Valencia*
Duration: 2020-2022
Total budget: €111.320

Reference: DTS21/00193
Title: *Test basados en péptidos spike-in y espectrometría de masas para la cuantificación de histonas circulantes y proteína APC, para el manejo clínico del paciente crítico*
Principal Investigator: José Luis García Giménez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2023
Total budget: €122.100

Title: *Identificación de biomarcadores mediante el uso de las ómicas y la Inteligencia Artificial para el diagnóstico y el pronóstico de la sepsis neonatal*
Principal Investigator: José Luis García Giménez
Entidad financiadora: *Fundación Mutua Madrileña*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €100.000

Reference: RTC2019-006825-1
Title: *Potencial de la leriglitazona para el tratamiento de enfermedades asociadas a la acumulación de hierro, distrofias y enfermedades neuromusculares*
Principal Investigator: Pilar González Cabo (José Luis García Giménez as collaborating researcher)
Entidad financiadora: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: Minoryx Therapeutic SL
Duration: 2020-2023
Total budget: €90.000

Reference: CPP2021-008643
Title: *Identificación y validación de biomarcadores mediante el uso de las ómicas y la Inteligencia Artificial para el diagnóstico temprano y mejora del manejo clínico de la sepsis*
Principal Investigator: Edurne Carbonell (José Luis García Giménez as collaborating researcher)
Entidad financiadora: *Ministerio de Ciencia e Innovación*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €150.269

THESIS

Thesis title: *Uso de las histonas circulantes y sus modificaciones post-traduccionales como biomarcadores en sepsis y shock séptico*
Doctoral candidate: Jesús Beltrán García
Director(s): José Luis García Giménez, Federico Pallardó Calatayud
Date of the defense: 20/01/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Thesis title: *Potencial uso de la tecnología basada en microARNs para el diagnóstico y pronóstico de la escoliosis idiopática del adolescente*
Doctoral candidate: Ester Berenguer Pascual
Director(s): José Luis García Giménez, Giselle Pérez Machado, Salvador Mena Mollá
Date of the defense: 10/02/2022
Grade: *Sobresaliente "cum laude"*

Research Group in Medical Chemistry for Drug Development
Emerging group

Group members

Leading Researcher, R4

Nuria Cabedo Escrig

University. INCLIVA

First Stage Researchers, R1

Ainhoa García Martín. University

Alvaro Bernabeu Sanchís. INCLIVA

Carlos Villarroel Vicente. INCLIVA

Staff. Collaborating Researchers

Diego Cortés Martínez. University

Jordi Ferri Císcar. Hospital. University

Staff. Technician

Laura Vila Dasí. INCLIVA

Researchers by categories

R1 3 | R4 1 | STAFF 3

Researchers financed by competitive public calls or networks

R1 1 | R4 1 | STAFF 1

Strategic aims

- Peroxisome proliferator activator receptors (PPARs)
- Liver X receptors (LXR)
- Dopamine receptors
- Biomarkers of inflammation

Main lines of research

- Development of new bioactive molecules as potential drug candidates, mainly for the treatment of cardiometabolic diseases such as metabolic syndrome, obesity and type 2 diabetes it could be extended to other diseases of special relevance such as rare diseases, neurological diseases and cancer

PUBLICATIONS

3	IF	Average IF	2	1	0
Number of publications	7,127	2,375	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Ferri J, Martinez-Ibanez J, Terradez L, Savall E, Martinez-Hervas S, Oller M, Lorente R, Ascaso J, Real J. Corticotroph cell hyperplasia as a rare cause of ACTH-dependent Cushing syndrome. Endocrinologia, Diabetes y Nutrición. 2022 Nov;69(9):694-701. doi: 10.1016/j.endien.2022.11.004. PMID: 36470644. IF: 1,833
2. Gu Hong W, Ferri J, Ampudia-Blasco F, Martin-Brufau R, Peiro M, Benito E, Martinez-Hervas S, Sanz M, Real J. Effect of personality on blood glucose control in patients with type 1 diabetes. Endocrinologia, Diabetes y Nutricion. 2022

Nov;69(9):677-685. doi: 10.1016/j.endien.2021.11.034. PMID: 36470643. IF: 1,833

3. Vila L, Cabedo N, Villarroel-Vicente C, Garcia A, Bernabeu A, Hennuyer N, Staels B, Franck X, Figadere B, Sanz MJ, Cortes D. Synthesis and biological studies of polycerasoidol and trans-delta-tocotrienolic acid derivatives as PPARalpha and/or PPARgamma agonists. Bioorganic & Medicinal Chemistry. 2022 Jan 1;53:116532. doi: 10.1016/j.bmc.2021.116532. PMID: 34863066. IF: 3,461

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI21/02045
Title: *Desarrollo de nuevos moduladores multidiana de receptores nucleares y biomarcadores lipídicos para el tratamiento del síndrome metabólico y las comorbilidades asociadas*
Principal Investigator: Nuria Cabedo Escrig
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total Budget: €174.240

Reference: PI18/01450
Title: *Desarrollo químico y farmacológico de nuevos fármacos "multidiana" en el tratamiento de la diabetes mellitus tipo 2 y la enfermedad cardiovascular asociada*
Principal Investigator: Nuria Cabedo Escrig
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duración: 2019-2022
Presupuesto total: €61.710

Research Group on Epigenomics and Translational Epigenetics
Emerging group

Group members

Leading Researcher, R4

Pilar González Cabo

University. CIBER

Recognised Researcher, R2

Noelia Benetó Gandía. CIBER

First Stage Researcher, R1

Laura Robles Rodríguez. CIBER

Researchers by categories

R1	R2	R4
1	1	1

Researchers financed by competitive public calls or networks

R1	R2	R4
1	1	1

Strategic aims

- Physiopathology of Friedreich's ataxia: identification of new therapeutic targets that allow new treatments to be implemented
- Develop new strategies for advanced gene therapy: CRISPR/Cas9 system and anti-miRNAs
- Huntington's disease: use of nanobodies as a therapeutic tool for reduce mutant huntingtin levels and modify the course of the disease
- Development of a new study model for CANVAS Syndrome (Cerebellar Ataxia, Neuropathy, Vestibular Areflexia Syndrome): generation of iPSCs from skin biopsies of CANVAS patients, and their subsequent differentiation into sensory neurons
- Effect of COVID-19 infection on telomere length and its relationship with the evolution of idiopathic-type pulmonary fibrosis

Main lines of research

- Characterization of the phenotype of different models of rare diseases contributing to the study of the pathophysiology to understand the molecular mechanisms underlying these diseases
- Identification of biomarkers
- Development of different pre-clinical therapeutic approaches, both pharmacological and genetic

PUBLICATIONS

3	IF	Average IF	1	1	2
Number of publications	18,232	6,077	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Rodríguez LR, Lapeña-Luzón T, Benetó N, Beltran-Beltran V, Pallardó FV, Gonzalez-Cabo P, Navarro JA. Therapeutic strategies targeting mitochondrial calcium signaling: a new hope for neurological diseases?. Antioxidants. 2022 Jan 15;11(1):165. doi: 10.3390/antiox11010165. PMID: 35052668. IF: 7,675
2. Muñoz-Lasso DC, Mollá B, Sáenz-Gamboa JJ, Insuasty E, de la Iglesia-Vaya M, Pook MA, Pallardó FV, Palau F, Gonzalez-Cabo P. Frataxin deficit leads to reduced dynamics of growth cones in dorsal root ganglia neurons of Friedreich's ataxia YG8sR

model: a multilinear algebra approach. Frontiers in Molecular Neuroscience. 2022 Jun 13;15:912780. doi: 10.3389/fnmol.2022.912780. PMID: 35769335. IF: 6,261

3. Luque J, Mendes I, Gomez B, Morte B, de Heredia M, Herreras E, Corrochano V, Bueren J, Gallano P, Artuch R, Fillat C, Perez-Jurado L, Montoliu L, Carracedo A, Millan J, Webb S, Palau F, Lapunzina P, Pallardo Calatayud F, CIBERER Network. CIBERER: Spanish national network for research on rare diseases: a highly productive collaborative initiative. Clinical Genetics. 2022 May;101(5-6):481-493. doi: 10.1111/cge.14113. PMID: 35060122. IF: 4,296

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: ACCI 2020
Title: *Síndrome de CANVAS: diagnóstico precoz y modelo fisiopatológico mediante iPSC*
Principal Investigator: Pilar González Cabo
Funding Body: *Instituto de Salud Carlos III-Co-financed FEDER*
Beneficiary institution: *CIBER de Enfermedades Raras (CIBERER-ISCIII)*
Duration: 2021-2022
Total budget: €75.000

Reference: ACCI-2019-22
Title: *Degradación de la huntingtina mediante ubiquibodies de camélidos*
Principal Investigator: Pilar González Cabo
Funding Body: *CIBER de Enfermedades Raras (CIBERER-ISCIII)*
Beneficiary institution: *CIBER de Enfermedades Raras (CIBERER-ISCIII)*
Duration: 2020-2022
Total budget: €18.000

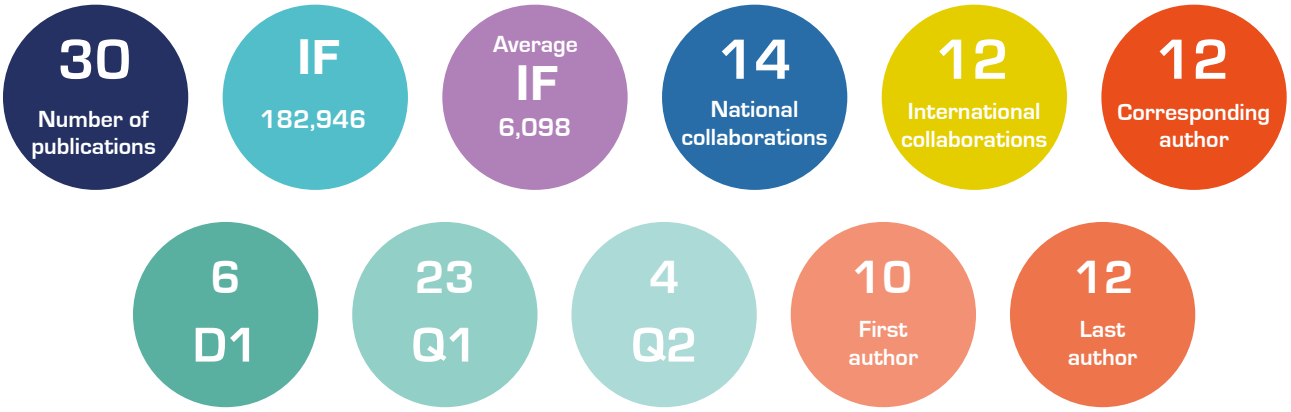
Reference: PID2020-115190RB-I00
Title: *Relacionando cofilina, una proteína de unión a actina, con la desregulación del calcio: un enfoque de precisión para el tratamiento de la Ataxia de Friedreich*
Principal Investigator: Pilar González Cabo
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary institution: *CIBER de Enfermedades Raras (CIBERER-ISCIII)*
Duration: 2021-2024
Total budget: €196.300

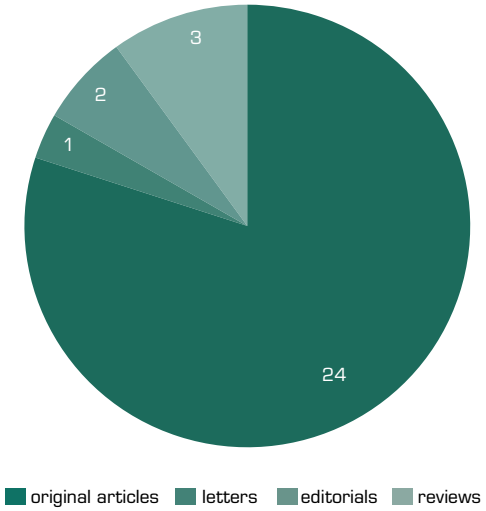
Reference: RTC2019-006825-1
Title: *Potencial de la leriglitazona para el tratamiento de enfermedades asociadas a la acumulación de hierro, distrofias y enfermedades neuromusculares*
Principal Investigator: Pilar González Cabo
Funding Body: *Ministerio de Ciencia e Innovación*
Beneficiary institution: Minoryx Therapeutic SL
Duration: 2020-2023
Total budget: €90.000

4.3.4 Reproductive medicine area

Groups

Research Group on Women's Health
Research Group on Reproductive Medicine
Research Group on Therapies Against Endometriosis and Endometrial Cancer
Research Group on Maternal Fetal Communication





Research Group on Women's Health
Consolidated group

Group members

Leading Researchers, R4

Antonio Cano Sánchez. Hospital. University

Juan José Tarín Folgado. University

Recognised Researchers, R2

Ana Martínez Aspas. Hospital. University

Celia Bauset Castelló. Hospital

Ester Ortiz Murillo. Hospital

Gemma Arribas Ferriol. Hospital

Irene Zolfaroli. Hospital

Staff. Collaborating Researchers

Aitana Monllor Tormos. Hospital

Laura Carbonell López. Hospital

Rocío Belda Montesinos. Hospital

Staff. Nurses

Alicia García Vigara. Hospital

Researchers by categories



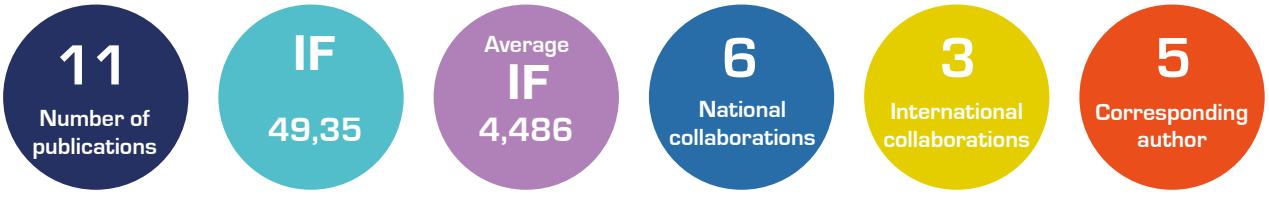
Strategic aims

- The group is positioned in the field of healthy ageing, particularly in what relates women, with special interest to frailty, where it has collaborated in the support of INCLIVA in the project ADVANTAGE
- We have collaborated to position the reference site of the Valencia Region within EIPAHA, the partnership of the European Commission
- Moreover, we have participated in the application to different European projects with groups from different European countries, including an application to the Maire Curie grants

Main lines of research

- In healthy ageing in the female we are continuing our interest on osteoporosis but also have added frailty and functional decline. The group is consolidating the CARMEN cohort
- There is a new area of interest on the use of ICT to promote women's health with regard to endometriosis:
  - To analyze the role of microRNA and vascularization regulators and pain mechanisms. Role of the TNF cytokine family
  - To analyze the initial atherogenesis and selective estrogen receptor modulators

PUBLICATIONS



SELECTED PUBLICATIONS

1. Bauset C, Martinez-Aspas A, Smith-Ballester S, Garcia-Vigara A, Monllor-Tormos A, Kadi F, Nilsson A, Cano A. Nuts and metabolic syndrome: reducing the burden of metabolic syndrome in menopause. Nutrients. 2022 Apr 18;14(8):1677. doi: 10.3390/nu14081677. PMID: 35458240. IF: 6,706
2. Gomez R, Tejada M, Rodriguez-Garcia V, Burgues O, Santos-Llamas A, Martinez-Massa A, Marin-Montes A, Tarin J, Cano A. Histological grade and tumor stage are correlated with expression of receptor activator of nuclear factor Kappa b (Rank) in epithelial ovarian cancers. International Journal of Molecular Sciences. 2022 Feb 3;23(3):1742. doi: 10.3390/ijms23031742. PMID: 35163671. IF: 6,208
3. Stute P, Cano A, Thurston R, Small M, Lee L, Scott M, Siddiqui E, Schultz N. Evaluation of the impact, treatment patterns, and patient and physician perceptions of vasomotor symptoms associated with menopause in Europe and the United States. Maturitas. 2022 Jun 23;164:38-45. doi: 10.1016/j.maturitas.2022.06.008. PMID: 35785563. IF: 5,11
4. Mendoza N, Ramirez I, de la Viuda E, et al. Eligibility criteria for Menopausal Hormone Therapy (MHT): a position statement from a consortium of scientific societies for the use of MHT in women with medical conditions. MHT Eligibility Criteria Group. Maturitas. 2022 Aug 30;166:65-85. doi: 10.1016/j.maturitas.2022.08.008. PMID: 36081216. IF: 5,11
5. Tejada MA, Santos Llamas A, Escriva L, Tarin JJ, Cano A, Fernandez Ramirez MJ, Nunez Badinez P, De Leo B, Saunders PTK, Vidal V, Barthas F, Vincent K, Sweeney PJ, Sillito RR, Armstrong JD, Nagel J, Gomez R. Identification of altered evoked and non-evoked responses in a heterologous mouse model of endometriosis-associated pain. Biomedicines. 2022 Feb 21;10(2):501. doi: 10.3390/biomedicines10020501. PMID: 35203710. IF: 4,757

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: AC19/00084
Title: *Patrones dietéticos en población europea senescente: acercamiento multidisciplinar para combatir las enfermedades metabólicas ligadas a sobrepreso. Proyecto Eurodiet*
Principal Investigator: Antonio Cano Sánchez
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €27.225

scientific activity

Research Group on Reproductive Medicine
Consolidated group

Group members

Leading Researcher, R4

Carlos Simón Vallés
University. Carlos Simón Foundation

Emerging researcher, R2

Aymara Mas Perucho. INCLIVA

Recognised Researchers, R2

Antonio Díez Juan. Carlos Simón Foundation
Beatriz Rosón Burgo. Carlos Simón Foundation
Carlos Lozano Asencio. Carlos Simón Foundation
Carmen García Pascual. Carlos Simón Foundation
Carmen Rubio Lluesa. Carlos Simón Foundation
David Blesa Jarque. Carlos Simón Foundation
Diana Valbuena Perilla. Carlos Simón Foundation
Inmaculada Moreno Gimeno. Carlos Simón Foundation
Marcos Parras Moltó. Carlos Simón Foundation
María Teresa Cordero Cucart. Carlos Simón Foundation
Miguel Milán Sánchez. Carlos Simón Foundation
Nandakumar Venkatesan. University
Stuart P. Atkinson. Carlos Simón Foundation
Tamara Garrido Gómez. Carlos Simón Foundation
Xavier Santamaría Costa. Carlos Simón Foundation

First Stage Researchers, R1

Alba Machado López. Carlos Simón Foundation
Bruno Tosón. INCLIVA

Researchers by categories

R1	R2	R4	STAFF
5	16	1	10

Researchers financed by competitive public calls or networks

R1	R2	STAFF
5	1	5

Irene Muñoz Blat. INCLIVA
Nerea Castillo Marco. Carlos Simón Foundation
Paula Punzón Jiménez. INCLIVA

Staff. Technicians

Adrián González Fernández. INCLIVA
Ángela Santonja Climent. Carlos Simón Foundation
Esther Lara Cuesta. INCLIVA
Esther Tercero Atencia. Carlos Simón Foundation
Irene Pérez Díez. Carlos Simón Foundation
Jaime Llera Oyola. Carlos Simón Foundation
Marta Gálvez Diezma. Carlos Simón Foundation
Marta Gonzalez Monfort. Carlos Simón Foundation
Roberto Alonso Valero. Carlos Simón Foundation
Vallivana Rodrigo Casares. Carlos Simón Foundation

Strategic aims

- Our activity predominantly involves research in the field of Reproductive Medicine and women's health, with a particular focus on factors that cause infertility, and other gynecological and obstetric pathologies
- One of our aims is the characterization at single cell resolution of the human uterus, that will provide unprecedented insight at transcriptomic, genomic and spatial changes of this important female organ not only throughout the menstrual cycle but also across lifespan. The comparison in healthy and diseased conditions are also in the scope

Main lines of research

- Adult stem cells in the human endometrium: we have identified the existence of human endometrial stem cells, and we have demonstrated the therapeutic potential of autologous bone marrow CD133+ stem cells in the treatment of non-curable endometrial pathologies such as Asherman's syndrome or endometrial atrophy

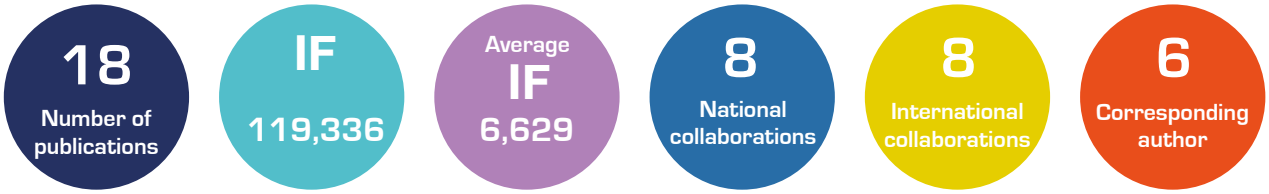
- The endometrial microbiome in human reproduction: our research group has described the existence of the endometrial microbiome and its clinical implications on the reproductive outcome. We investigate the impact of uterine microbiome dysbiosis and its clinical impact
- The maternal implication in the origin of pre-eclampsia: our research has provided evidence that endometrial decidualization resistance is implicated in the origin of this disease. This finding offers a new perspective based on the maternal contribution to gestation, aiming to develop a tool that will diagnose pre-eclampsia
- Molecular diagnosis of myometrial tumors: our previous work has demonstrated the genomic differential characterization of myomas and leiomyosarcomas. We aim to shift the diagnostic and therapeutic focus of uterine leiomyomas and leiomyosarcomas through genomic characterization

Emerging Researcher

Aymara Mas Perucho

The main objective of this research is focused on understanding those factors that contribute to the pathophysiology of myometrial tumors at the molecular level.

PUBLICATIONS



SELECTED PUBLICATIONS

1. Moreno I, Garcia-Grau I, Perez-Villaroya D, Gonzalez-Monfort M, Bahceci M, Barrionuevo MJ, Taguchi S, Puente E, Dimattina M, Lim MW, Meneghini G, Aubuchon M, Leondires M, Izquierdo A, Perez-Olgiati M, Chavez A, Seethram K, Bau D, Gomez C, Valbuena D, Vilella F, Simon C. Endometrial microbiota composition is associated with reproductive outcome in infertile patients. Microbiome. 2022 Jan 4;10(1):1. doi: 10.1186/s40168-021-01184-w. PMID: 34980280. IF: 16,837
2. Garrido Gomez T, Castillo Marco N, Cordero T, Simon Valles C. Decidualization resistance in the origin of preeclampsia. American Journal of Obstetrics and Gynecology. 2022 Feb;226(2S):S886-S894. doi: 10.1016/j.ajog.2020.09.039. PMID: 33007270. IF: 10,693
3. Capalbo A, Cimadomo D, Rienzi L, Garcia-Velasco J, Simon C, Ubaldi F. Avoid mixing apples and oranges: blastocysts diagnosed with uniform whole chromosome aneuploidies are reproductively incompetent and their transfer is harmful. Human Reproduction. 2022 Aug 25;37(9):2213-2214. doi: 10.1093/humrep/deac149. PMID: 35796677. IF: 6,353
4. Balaguer N, Mateu-Brull E, Gomez-Lopez M, Simon C, Milan M. Cell-free fetal DNA testing performance and fetal fraction estimation are not affected in ART-conceived pregnancies. Human Reproduction. 2022 Nov 24;37(12):2743-2756. doi: 10.1093/humrep/deac217. PMID: 36223600. IF: 6,353
5. Machado Lopez A, Alonso R, Lago V, Jimenez Almazan J, Garcia M, Monleon J, Lopez S, Barcelo F, Torroba A, Ortiz S, Domingo S, Simon C, Mas A. Integrative genomic and transcriptomic profiling reveals a differential molecular signature in uterine leiomyoma versus leiomyosarcoma. International Journal of Molecular Sciences. 2022 Feb 16;23(4):2190. doi: 10.3390/ijms23042190. PMID: 35216305. IF: 6,208

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 874867 - HUTER

Title: Human Uterus Cell Atlas

Principal Investigator: Carlos Simón Vallés

Funding Body: European Commission

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2020-2022

Total budget: €4.118.942,50

Reference: PI21/00235
Title: *Estudio del impacto del microbioma endometrial sobre el endometrio humano en condiciones fisiológicas y patológicas a nivel de célula única*
Principal Investigator: Inmaculada Moreno Gimeno
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €169.279

Reference: PI20/00942
Title: *Desarrollo de un modelo predictivo para el diagnóstico diferencial temprano de leiomiomas y leiomiosarcomas uterinos*
Principal Investigator: Aymara Mas Perucho
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €99.825

Reference: PI19/01659
Title: *Análisis transcriptómico a nivel de célula única y tejido endometrial completo del fallo en decidualización presente en pacientes con preeclampsia severa*
Principal Investigator: Tamara Garrido Gómez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €93.170

Reference: RTI2018-094946-B-I00
Title: *Contribución maternal en la patogénesis de enfermedades gestacionales tardías como la preeclampsia*
Principal Investigator: Carlos Simón Vallés
Funding Body: *Ministerio de Ciencia, Innovación y Universidades*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €254.100

Reference: PI-2021-010
Title: *CellStats: Desarrollo de un modelo estadístico para la evaluación de cambios poblacionales en datos transcriptómicos de célula única del endometrio humano*
Principal Investigator: Guillermo Ayala Gallego and Beatriz Rosón Burgo
Funding Body: *Universidad de Valencia* - INCLIVA
Beneficiary institution: *Universidad de Valencia* - INCLIVA
Duration: 2021-2022
Total budget: €16.150

Research Group on Therapies Against Endometriosis and Endometrial Cancer
Emerging group

Group members

Leading Researcher, R4
Raúl Gómez Gallego

University

Recognised Researcher, R2
Miguel Ángel Tejada Giráldez. INCLIVA

First Stage Researchers, R1
Ana Isabel Santos Llamas. INCLIVA

Víctor Rodríguez García. University

Staff. Collaborating Researchers
Lesley Escrivá Ardid. INCLIVA

Marina Rius Salvador. INCLIVA

Staff. Technician
Carles Antúnez Muñoz. INCLIVA

Researchers by categories



Researchers financed by competitive public calls or networks



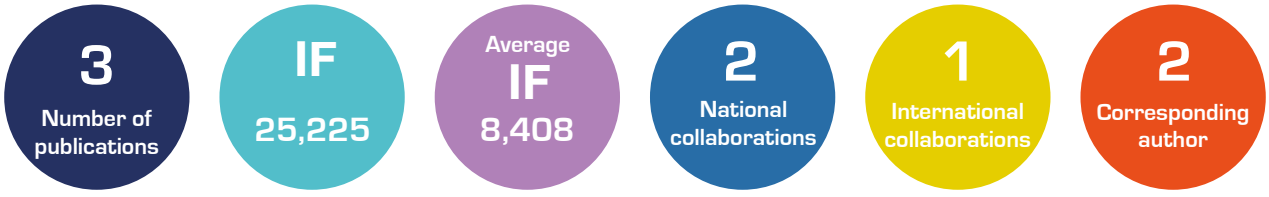
Strategic aims

- To refine the development of homologous and heterologous animal models initiated in the laboratory so that they allow to reproduce endometriosis in a more physiological way, reflecting the pain and infertility associated with it in order to achieve greater transferability of the findings in these to the clinic
- On these optimized endometriosis animal models, evaluate whether immunomodulatory compounds, such as those currently marketed for clinical use in the non-hormonal treatment of osteoporosis, are effective in the remission of pain as well as in the improvement of fertility
- To narrow down the molecular mechanisms involved in improving the parameters under study in order to refine therapeutic targets
- To evaluate the clinical feasibility of early non-invasive diagnosis of endometriosis through the combined analysis of multiple biomarkers

Main lines of research

- Dysregulation of the angiogenic component in the appearance and maintenance of endometriosis
- Development of animal models of pain and infertility associated with endometriosis and testing of the therapeutic role of immunomodulators in them
- Early non-invasive diagnosis of endometriosis through combined analysis of multiple biomarkers

PUBLICATIONS



4 scientific activity

SELECTED PUBLICATIONS

1. Fell C, Hagelkruys A, Cicvaric A, Horrer M, Liu L, Li J, Stadlmann J, Polyansky A, Mereiter S, Tejada M, Kokotovic T, Achuta V, Scaramuzza A, Twyman K, Morrow M, Juusola J, Yan H, Wang J, Burmeister M, Choudhury B, Andersen T, Wirnsberger G, Holmskov U, Perrimon N, Aagrovic B, Monje F, Moeller J, Penninger J, Nagy V. FIBCD1 is an endocytic GAG receptor associated with a novel neurodevelopmental disorder. EMBO Molecular Medicine. 2022 Sep 7;14(9):e15829. doi: 10.15252/emmm.202215829. PMID: 35916241. IF: 14,26
2. Gomez R, Tejada M, Rodriguez-Garcia V, Burgues O, Santos-Llamas A, Martinez-Massa A, Marin-Montes A, Tarin J, Cano A. Histological grade and tumor stage are correlated with expression of receptor activator of nuclear factor Kappa b (Rank) in epithelial ovarian cancers. International Journal of Molecular Sciences. 2022 Feb 3;23(3):1742. doi: 10.3390/ijms23031742. PMID: 35163671. IF: 6,208
3. Tejada MA, Santos Llamas A, Escriva L, Tarin JJ, Cano A, Fernandez Ramirez MJ, Nunez Badinez P, De Leo B, Saunders PTK, Vidal V, Barthas F, Vincent K, Sweeney PJ, Sillito RR, Armstrong JD, Nagel J, Gomez R. Identification of altered evoked and non-evoked responses in a heterologous mouse model of endometriosis-associated pain. Biomedicines. 2022 Feb 21;10(2):501. doi: 10.3390/biomedicines10020501. PMID: 35203710. IF: 4,757

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 777500- IMI-PainCare
Title: Improving the care of patients suffering from acute or chronic pain
Principal Investigator: Raúl Gómez Gallego
Funding body: European Commission
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2018-2023
Total budget: €257.066,25

Reference: PI20/01835
Title: *Evaluación del potencial papel terapéutico de la inhibición de RANK en modelos optimizados de dolor e infertilidad asociados a endometriosis*
Principal Investigator: Raúl Gómez Gallego
Funding body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €98.010

Research Group on Maternal Fetal Communication
Emerging group

Group members

Leading Researcher, R4
Felip Vilella Mitjana. INCLIVA

Established Researcher, R3
Francisco Raga Baixauli. Hospital. University

Recognised Researchers, R2
David Bolumar Recuero. INCLIVA

Javier Moncayo Arlandi. Carlos Simón Foundation

First Stage Researcher, R1
Javier González Fernández. INCLIVA

Staff. Technicians
Ana Ochando Fernández. Carlos Simón Foundation

Neus Puig López. INCLIVA

Sofía Zaragozano Martínez. Carlos Simón Foundation

Researchers by categories



Researchers financed by competitive public calls or networks



Strategic aims

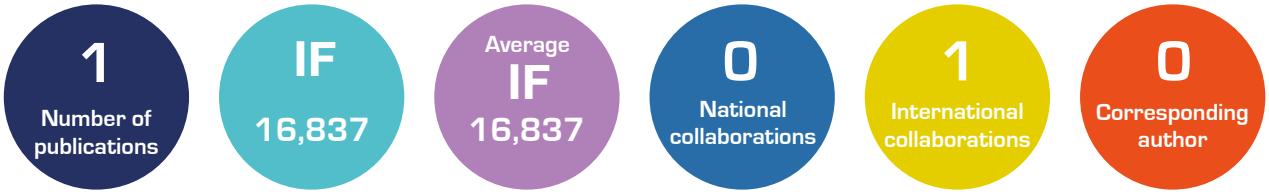
- Project origin of diseases: functional capacity of miRNAs secreted into endometrial fluid in obese and type 2 diabetic patients to determine if they are capable of modifying mouse embryos transcriptomically and/or epigenetically
- Project Transcriptomic and epigenetic modifications in human embryos: obtain the target genes of miRNA miR-30d in human embryos to have a list of regions potentially susceptible to methylation. These regions will be used to design the PCRs of the bisulfite regions by miSeq sequencing
- Project Function of DNA and RNA contained in extracellular vesicles secreted by the human endometrium on the pre-implantation embryo: it has been described that the endometrial fluid is secreted by a series of populations of extracellular vesicles (apoptotic bodies, microvesicles and exosomes) that represent a conveyance. We propose that these vesicles contain biomolecules of different natures, specifically focusing on the different types of RNAs and DNA, and that their composition in these chemical species varies throughout the menstrual cycle and depending on the subpopulation of vesicles that is analyzed

Main lines of research

- Study of endometrial receptivity and perform the Cell Atlas of the human uterus: we discovered the transcriptomic signature of human endometrial receptivity. Now, we are part of the International Human Cell Atlas initiative to create the first human cell atlas of the uterus
- Maternal-embryonic communication. We investigated how the mother communicates with the preimplantation embryo before implantation and discovered that the maternal endometrium modifies the transcriptomics of the embryo under healthy and pathological conditions
- Progenitor cells of endometrial regeneration. Our research group analyzes gene expression in different menstrual cycle phases to identify progenitor cells responsible for endometrial regeneration throughout the distinct cell layers

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Moreno I, Garcia-Grau I, Perez-Villaroya D, Gonzalez-Monfort M, Bahceci M, Barrionuevo MJ, Taguchi S, Puente E, Dimattina M, Lim MW, Meneghini G, Aubuchon M, Leondires M, Izquierdo A, Perez-Olgiati M, Chavez A, Seethram K, Bau D, Gomez C, Valbuena D, Vilella F, Simon C. Endometrial microbiota composition is associated with reproductive outcome in infertile patients. Microbiome. 2022 Jan 4;10(1):1. doi: 10.1186/s40168-021-01184-w. PMID: 34980280. IF: 16,837

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 874867 - HUTER
Title: Human Uterus Cell Atlas
Principal Investigator: Carlos Simón Vallés (Felip Vilella Mitjana as collaborating researcher)
Funding Body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €4.118.942,50

Reference: PI21/00528
Title: *Caracterización transcriptómica de la implantación embrionaria humana a nivel de célula única usando un endometrio 3D en un chip de microfluídica*
Principal Investigator: Felip Vilella Mitjana
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €90.750

Reference: PI18/00957
Title: *Función del ADN y ARN contenido en vesículas extracelulares secretadas por el endometrio humano sobre el embrión pre-implantatorio*
Principal Investigator: Felip Vilella Mitjana
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €135.520

4.3.5 Clinical Associated Groups

Groups

Research Group in Care. INVESTENF-INCLIVA
Associated Clinical Group in Urology
Associated Clinical Group in Digestive Medicine
Associated Clinical Group in Traumatology and Orthopedics
Associated Clinical Group in Neurology
Associated Clinical Group in Pharmacy

50 Number of publications

IF 486,286

Average **IF** 9,725

38 National collaborations

6 International collaborations

6 Corresponding author

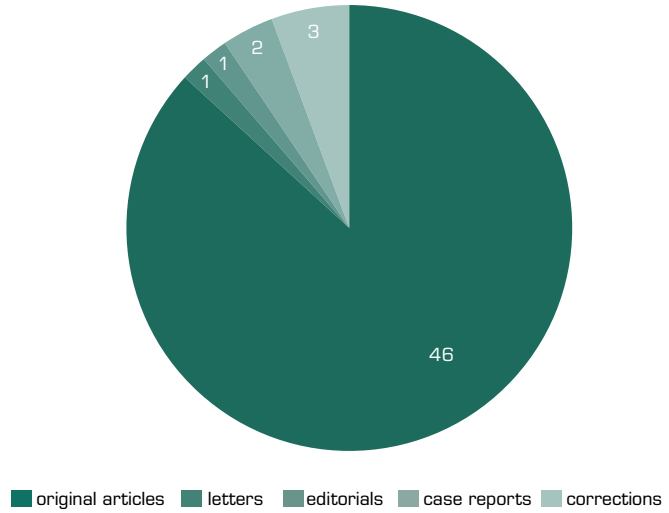
8 D1

22 Q1

16 Q2

7 First author

15 Last author



Research Group on Research in Care. INVESTENF-INCLIVA
Clinical Associated group

Group members

Leading Researcher, R4

Mª José Gastaldo Zaragozá. Hospital

Recognised Researchers, R2

Antonio Martínez Sabater. Hospital. University
Iván Julián Rochina. Hospital. University
Montserrat Cañabate Ros. Hospital. University
Pablo García Molina. University

First Stage Researcher, R1

Evelin Balaguer López. Hospital. University

Staff. Nurses

Adán Álvarez Ordiales. Hospital
Ana Bela Espinosa Briones. Hospital
Ana Gancedo Herrero. Hospital
Concepción Mateo Orrios. Hospital
Laura Pla Marzo. Hospital
Mª Ángeles Montal Navarro. Hospital. University
Mª Carmen Barberá Ventura. Hospital
Mª Carmen Rodríguez Dolz. Hospital. University
Mª Concepción Rodrigo Ruiz. Hospital
Mª Dolores Cantero López. Hospital
Mª Gabriela Chova Mallent. Hospital
Mª Jesús Zafra Pirés. Hospital
Mª Luisa Muñoz Illescas. Hospital
Mª Pilar Bernabéu Adrián. Hospital
Mª Victoria Orejón Lagunas. Hospital
Mireia Sánchez Morcillo. Hospital
Nuria Garrido Zafra. University
Sonia Mora Navarro. Hospital

Staff. Technician

David Palanca Broseta. Hospital

Researchers by categories



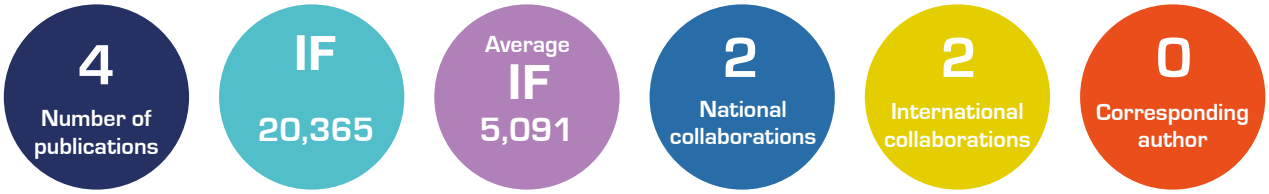
Strategic aims

- Contribute with scientific nursing evidence to improve pediatric nursing care
- Conduct research in pediatric nursing to disseminate new knowledge
- Work for the Quality and Safety of pediatric nursing care

Main lines of research

- Child and adolescent health care
- Skin care and skin integrity
- Mental Health Care
- Care in aging, fragility and chronicity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Zamora-Sanchez J, Urpi-Fernandez A, Sastre-Rus M, Lumillo-Gutierrez I, Gea-Caballero V, Jodar-Fernandez L, Julian-Rochina I, Zabaleta-Del-Olmo E. The Tilburg Frailty Indicator: a psychometric systematic review. Ageing Research Reviews. 2022 Apr;76:101588. doi: 10.1016/j.arr.2022.101588. PMID: 35150901. IF: 11,788
2. Chover-Sierra E, Perez-Ros P, Julian-Rochina I, Long C, Cauli O. Knowledge and attitudes towards palliative care: validation of the Spanish version of questionnaire on palliative care for advanced dementia. Healthcare. 2022 Mar 31;10(4):656. doi: 10.3390/healthcare10040656. PMID: 35455834. IF: 3,16
3. Perez-Ros P, Cauli O, Julian-Rochina I, Long C, Chover-Sierra E. Level of knowledge and attitudes towards palliative care for people with advanced dementia in Spain: role of professional and academic factors. Current Alzheimer Research. 2022 Dec 21. doi: 10.2174/1567205020666221221145259 . PMID: 36545733. IF: 3,04
4. Balaguer Lopez E, Garcia-Molina P, Nunez F, Crehua-Gaudiza E, Montal Navarro M, Pedron Giner C, Vitoria Minana I, Jovani Casano C, Galera Martinez R, Gomez-Lopez L, Rodriguez Martinez G, Martinez-Costa C. Cross-cultural adaptation to Spanish and content validity of three nutritional risk scales. Anales de Pediatria. 2022 Jul;97(1):12-21. doi: 10.1016/j.anpede.2022.06.001. PMID: 35729061. IF: 2,377

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: AP-2021-015

Title: *VISUALSKIN: Diseño de dispositivo clínico para la evaluación del riesgo de lesión en la piel en personas encamadas o usuarias de silla de ruedas*

Principal Investigator: Julio Martos Torres and Pablo García Molina

Funding Body: *Universidad de Valencia* - INCLIVA

Beneficiary institution: *Universidad de Valencia* - INCLIVA

Duration: 2021-2022

Total Budget: €4.750

4 scientific activity

Clinical Associated Group in Urology
Clinical Associated group

Group members

Leading Researcher, R4
José Martínez Jabaloyas. Hospital. University

Recognised Researcher, R2
Jorge Panach Navarrete. Hospital. University

Staff. Collaborating Researchers
Ana Castelló Porcar. Hospital

Francisco García Morata. Hospital. University

Marcos Antonio Lloret Durá. Hospital

Researchers by categories



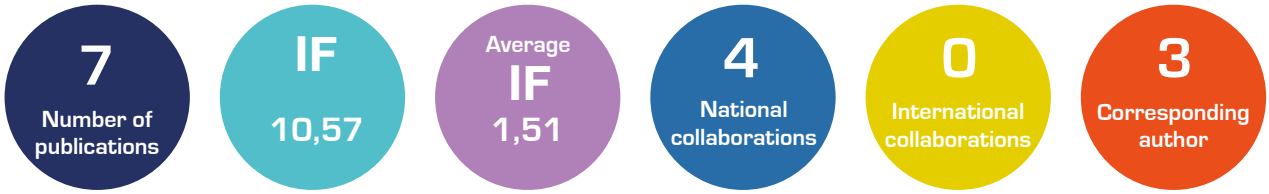
Strategic aims

- Study the use of metabolics in urine and tissue in patients with prostate cancer
- Study the use of perform biopsy liquid in bladder cancer using digital PCR

Main lines of research

- Usefulness of metabolomic analysis in the diagnosis and prognosis of prostate cancer
- Liquid biopsy in bladder cancer

PUBLICATIONS



SELECTED PUBLICATIONS

1. Osca Verdegal R, Beltran Garcia J, Gorriz J, Jabaloyas J, Pallardo F, Garcia Gimenez J. Use of circular RNAs in diagnosis, prognosis and therapeutics of renal cell carcinoma. Frontiers in Cell and Developmental Biology. 2022 Jun 22;10:879814. doi: 10.3389/fcell.2022.879814. PMID: 35813211. IF: 6,081
2. Martinez M, Moragon S, Ortega-Morillo B, Monton-Bueno J, Simon S, Rosello S, Insa A, Viala A, Navarro J, Sanmartin A, Fluixa C, Julve A, Soriano D, Buch E, Pena A, Franco J, Martinez-Jabaloyas J, Marco J, Forner M, Cano A, Silvestre A, Teruel A, Bermejo B, Cervantes A, Chirivella Gonzalez I. Impact of the COVID-19 pandemic on a cancer fast-track programme. Cancer Control. 2022 Jan-Dec;29:10732748221131000. doi: 10.1177/10732748221131000. PMID: 36355430. IF: 2,339
3. Panach-Navarrete J, Martinez-Montava E, Gil-Viana R, Valls-Gonzalez L, Martinez-Jabaloyas J. Early ultrasound after endoscopic puncture of ureterocele: signs that show surgical treatment success. Archivos Espanoles de Urologia. 2022 Aug;75(6):567-571. doi: 10.37554/es-j.arch.esp.urol-20210119-3532-31. PMID: 36138507. IF: 0,43
4. Negueroles-Garcia M, Pastor-Hernandez F, Martinez-Jabaloyas J. Emergency radical nephrectomy in a polytrauma patient. Archivos Espanoles de Urologia. 2022 Oct;75(8):736-737. doi: 10.56434/j.arch.esp.urol.20227508.107. PMID: 36330577. IF: 0,43

5. Negueroles-Garcia M, Panach-Navarrete J, Martinez-Jabaloyas J. The use of urokinase in urinary catheter obstructed by clots. Archivos Espanoles de Urologia. 2022 Jan;75(1):82-86. doi: 10.37554/es-j.arch.esp.urol-20210317-3534-33. PMID: 35173068. IF: 0,43

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: INVEST/2022/60
Title: *Desarrollo de un método que permita la generación de interfaces gráficas de usuario centradas en el usuario que sean usables y accesibles para cualquier usuario*
Principal Investigator: Jorge Panach Navarrete
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €66.217,84

THESIS

Thesis title: *Estudio metabolómico en tejido prostático y orina para el diagnóstico y pronóstico del cáncer de próstata*
Doctoral candidate: Jorge Panach Navarrete
Director(s): José María Martínez Jabaloyas, José Manuel Morales Tatay, Vannina González Marrachelli
Date of the defense: 08/04/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Estudio de la utilidad clínica de los microARNs en suero y orina de pacientes con cáncer de vejiga*
Doctoral candidate: Ana María Castelló Porcar
Director(s): Francisco Dasí Fernández, José María Martínez Jabaloyas
Date of the defense: 27/10/2022
Grade: *Sobresaliente "cum laude"*

Clinical Associated Group in Digestive Medicine
Clinical Associated group

Group members

Researchers by categories



Leading Researchers, R4

Isabel Pascual Moreno. Hospital. University

Miguel Mínguez Pérez. University

Established Researchers, R3

Andrés Peña Aldea. Hospital

Joan Tosca Cuquerella. Hospital

Marta Maia Boscá Watts. Hospital

Paloma Lluch García. Hospital. University

Vicente Sanchiz Soler. Hospital

Recognised Researchers, R2

Marta Ponce Romero. Hospital

Pilar Más Mercader. Hospital

First Stage Researchers, R1

Carles Suria Bolufer. Hospital

Eva Romero González. Hospital

María Capilla Lozano. Hospital

Staff. Collaborating Researchers

Ana Sanahuja Martínez. Hospital

Consuelo Gálvez Castillo. Hospital

Pablo Navarro Cortés. Hospital

Rosana Villagrasa Manzano. Hospital

Rosario Antón Ausejo. Hospital

Sherly Hernández. Hospital

Staff. Technicians

Desamparados Giménez Choví. INCLIVA

Lorena Boronat Cifre. INCLIVA

Staff. Nurses

Amparo Ruiz Álvarez. Hospital

Nuria Casasús Moya. Hospital

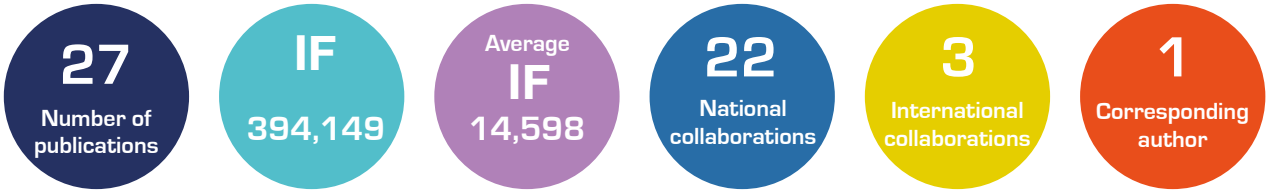
Strategic aims

- Knowledge of physiopathologic mechanisms and treatment of inflammatory bowel disease
- Diagnosis and treatment of minimal hepatic encephalopathy and liver diseases
- Knowledge of immune mechanisms and treatment of hepatocarcinoma
- Investigate prognostic factors and treatment of acute and chronic pancreatitis
- Establish a translational research team in inflammatory bowel, pancreatic and liver disease
- Diagnosis and treatment of functional digestive disease
- Analyze endoscopic treatment and prognostic factors of response in different digestive diseases

Main lines of research

- Stem cell treatment in fistulizing inflammatory bowel disease (IBD)
- Local biologic treatment of IBD
- Anorectal function in IBD
- Inflammatory markers and immune regulation in IBD
- Natural history of acute and chronic pancreatitis
- Evaluation of new treatment strategies in acute and chronic pancreatitis
- Caustic ingestion: risk stratification and diagnostic modalities
- Blood Immune profile in liver cancer and cirrhosis
- Liver disease: alcohol, virus and autoimmune
- Evaluation of different therapies in hepatocarcinoma
- Studies in healthy population of the physiological motor characteristics of the upper and lower digestive tract
- Endoscopic treatment in Zencker diverticulum and pancreatic disease
- Therapeutic endoscopic ultrasound: different drainages and gastro-jejunostomy with lumen apposing metal stents

PUBLICATIONS



SELECTED PUBLICATIONS

1. De-Madaria E, Buxbaum JL, Maisonneuve P, Garcia Garcia de Paredes A, Zapater P, Guilabert L, Vaillo-Rocamora A, Rodriguez-Gandia MA, Donate-Ortega J, Lozada-Hernandez EE, Collazo Moreno AJR, Lira-Aguilar A, Llovet LP, Mehta R, Tandel R, Navarro P, Sanchez-Pardo AM, Sanchez-Marin C, Cobreros M, Fernandez-Cabrera I, Casals-Seoane F, Deza D, Lauret-Brana E, Marti-Marques E, Camacho-Montano LM, Ubieto V, Ganuza M, Bolado F. Aggressive or moderate fluid resuscitation in acute pancreatitis. New England Journal of Medicine. 2022 Sep 15;387(11):989-1000. doi: 10.1056/NEJMoa2202884. PMID: 36103415. IF: 176,079

2. Loras C, Andujar X, Gornals JB, Sanchiz V, Brullet E, Sicilia B, Martin Arranz MD, Naranjo A, Barrio J, Duenas C, Foruny JR, Busquets D, Monfort D, Pineda JR, Gonzalez Huix F, Perez Roldan F, Pons V, Gonzalez B, Reyes Moreno J, Sainz E, Guardiola J, Bosca Watts MM, Fernandez Banares F, Mayor V, Esteve M. Self-expandable metal stents versus endoscopic balloon dilation for the treatment of strictures in Crohn's disease (ProtDilat study): an open-label, multicentre, randomised trial. Lancet. Gastroenterology & Hepatology. 2022 Apr;7(4):332-341. doi: 10.1016/S2468-1253(21)00386-1. PMID: 35065738. IF: 45,042

3. Tosca J, Sanchez A, Sanahuja A, Villagrasa R, Poyatos P, Mas P, Pascual I, Lluch P, Herreros B, Pena A, Sanchiz V, Minguez M. Caustic ingestion: a risk-based algorithm. American Journal of Gastroenterology. 2022 Oct 1;117(10):1593-1604. doi: 10.14309/ajg.0000000000001953. PMID: 36194047. IF: 12,045

4. Ballester MP, Mesonero F, Florez-Diez P, Gomez C, Fuentes-Valenzuela E, Martin N, Senosiain C, Vela M, Fernandez-Clotet A, Perez P, Rubin de Celix C, Calvino-Suarez C, Hermida B, Munoz R, Gonzalez-Vivo M, Brunet E, Jimenez N, Botella B, Yebra J, Suarez-Ferrer C, Bouhmidi A, Lopez-Serrano A, Ponferrada A, Duenas C, Minguez M. Adherence to endoscopic surveillance for advanced lesions and colorectal cancer in inflammatory bowel disease: an AEG and GETECCU collaborative cohort study. Alimentary Pharmacology & Therapeutics. 2022 Jun;55(11):1402-1413. doi: 10.1111/apt.16832. PMID: 35224758. IF: 9,524

5. González MRD, Ballester MP, Romero-González E, Sánchez-Pardo AM, Marti-Aguado D, Tosca J, Suria C, Ausejo RA, Moreno IP, Silvestre MDP, Pérez MM, Bosca-Watts MM. Biological treatment interruption in Inflammatory Bowel Disease: motivation and predictive factors. Gastroenterologia

y Hepatologia. 2022 Nov 11;S0210-5705(22)00267-9. doi: 10.1016/j.gastrohep.2022.10.021. PMID: 36375696. IF: 5,867

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: CIPROM2021/044
Title: Pharmacology of the hepato-gastrointestinal tract: analysis of cellular and molecular targets for the treatment of fibrosis
Principal Investigator: Juan Vicente Esplugues Mota and Mª Dolores Barrachina Sancho (Maia Boscá as collaborating researcher)
Funding Body: *Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*
Beneficiary Institution: *University of Valencia*
Duration: 2022-2025
Total Budget: €539.240

Title: *Estudio nacional en enfermedad inflamatoria intestinal sobre determinantes genéticos y ambientales (Estudio ENEIDA)*
Principal Investigator: Miguel Mínguez Pérez and Lorena Boronat Cifre
Funding Body: Janssen-Cilag
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022
Total Budget: €17.637

Title: *Influencia de la actividad inflamatoria en la función anorrectal de los pacientes con Enfermedad Inflamatoria Intestinal*
Principal Investigator: Ana Sanahuja Martínez
Funding Body: *Sociedad Valenciana de Patología Digestiva*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total Budget: €5.000

Clinical Associated Group in Traumatology and Orthopedics
Clinical Associated group

Group members

Leading Researcher, R4
Antonio Silvestre Muñoz. Hospital. University

Established Researcher, R3
Rosa María Cibrián Ortiz de Anda. University

Recognised Researchers, R2
José Albelda Vitoria. University

Laura Pino Almero. University

Rosario Salvador Palmer. University

Researchers by categories



Staff. Collaborating Researcher
José Expósito Ollero. INCLIVA

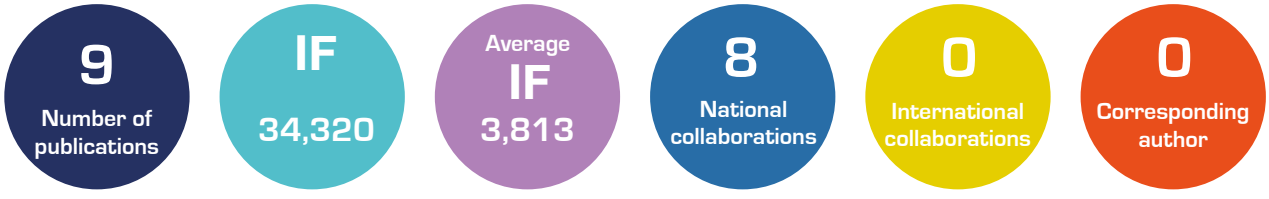
Strategic aims

- Non-invasive imaging in orthopedics
- New prosthesis fixation systems applied to Traumatology
- Mechanisms of inflammation and oxidative stress in bone pathologies

Main lines of research

- Cellular oxidative stress and its relationship with idiopathic femoral osteonecrosis
- Diagnosis and monitoring of the diabetic foot using infrared thermography
- Protection strategies against osteoarticular deterioration
- Sequentiality of muscle contraction: importance in the early detection of lumbopelvic dysfunction, cervical and shoulder girdle
- Cellular mechanisms to regulate the inflammatory response in chronic inflammatory diseases
- Robotics for precision in orthopedic reconstructive surgery
- Rehabilitation to improve results after a randomized prospective study of total knee arthroplasty
- Local mechanical stimulation of mesenchymal cells for osteogenic and chondrogenic differentiation in regenerative medicine

PUBLICATIONS



SELECTED PUBLICATIONS

1. Blasco J, Perez-Maletzki J, Diaz-Diaz B, Silvestre-Munoz A, Martinez-Garrido I, Roig-Casasus S. Fall classification, incidence and circumstances in patients undergoing total knee replacement. Scientific Reports. 2022 Nov 18;12(1):19839. doi: 10.1038/s41598-022-23258-x. PMID: 36400816. IF: 4,996

2. Gene-Morales J, Gene-Sampedro A, Salvador-Palmer R, Colado JC. Effects of squatting with elastic bands or conventional resistance-training equipment at different effort levels in post-exercise intraocular pressure of healthy men. Biology of Sport. 2022 Oct;39(4):895-903. doi: 10.5114/biolsport.2022.109955. PMID: 36247937. IF: 4,606

3. Priego-Quesada J, Catala-Vilaplana I, Bermejo-Ruiz J, Gandia-Soriano A, Pellicer-Chenoll M, Encarnacion-Martinez A, Cibrian Ortiz de Anda R, Salvador-Palmer R. Effect of 10 km run on lower limb skin temperature and thermal response after a cold-stress test over the following 24 h. Journal of Thermal Biology. 2022 Apr;105:103225. doi: 10.1016/j.jtherbio.2022.103225. PMID: 35393059. IF: 3,189
4. Sanchez-Jimenez JL, Aparicio I, Romero-Avila JL, Bellot-Arcís C, Cibrián Ortiz de Anda RM, Priego-Quesada JI. Skin temperature measurement in individuals with spinal cord injury during and after exercise: Systematic review. Journal of Thermal Biology. 2022 Apr;105:103146. doi: 10.1016/j.jtherbio.2021.103146. PMID: 35393040. IF: 3,189
5. Martinez M, Moragon S, Ortega-Morillo B, Monton-Bueno J, Simon S, Rosello S, Insa A, Viala A, Navarro J, Sanmartin A, Fluixa C, Julve A, Soriano D, Buch E, Pena A, Franco J, Martinez-Jabaloyas J, Marco J, Forner M, Cano A, Silvestre A, Teruel A, Bermejo B, Cervantes A, Chirivella Gonzalez I. Impact of the COVID-19 pandemic on a cancer fast-track programme. Cancer Control. 2022 Jan-Dec;29:10732748221131000. doi: 10.1177/10732748221131000. PMID: 36355430. IF: 2,339

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *Evaluación de la eficiencia de la metodología para el seguimiento de pacientes con prótesis de rodilla*
Principal Investigator: Antonio Silvestre Muñoz
Funding Body: *Fundación Mutua Madrileña*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €65.000

THESIS

Thesis title: The potential of elastic bands to optimize ocular and cardiovascular responses, subjective effort, and performance in squats
Doctoral candidate: Javier Gené Morales
Director(s): María Rosario Salvador Palmer, Andrés Gené Sampedro, Juan Carlos Colado Sánchez
Date of the defense: 07/04/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Utilización de cótilos de doble movilidad en cirugía protésica de cadera ¿pueden mejorar los óptimos resultados?*
Doctoral candidate: Lorenzo José Hernández Ferrando
Director(s): Antonio Silvestre Muñoz
Date of the defense: 25/11/2022
Grade: *Sobresaliente "cum laude"*

Clinical Associated Group in Neurorology
Clinical Associated group

Group members

Leading Researcher, R4

José Miguel Láinez Andrés

Hospital. University

Recognised Researchers, R2

Alejandro Ponz de Tienda. Hospital. University

Anna Piera Balbastre. Hospital

Raquel Chamarro Lázaro. Hospital

Rosario Gil Gimeno. Hospital

Staff. Collaborating Researchers

Ana Isabel Pareja Martínez. Hospital

Antonio Salvador Aliaga. Hospital

Begoña López Pesquera. Hospital

David García López. Hospital

Francisco Gascón Giménez. Hospital

Jésica García Ull. Hospital

José Andrés Domínguez Morán. Hospital

José María Salom Juan. Hospital

José Miguel Santonja Llabata. Hospital

Staff. Nurse

Míriam Iborra Perales. Hospital

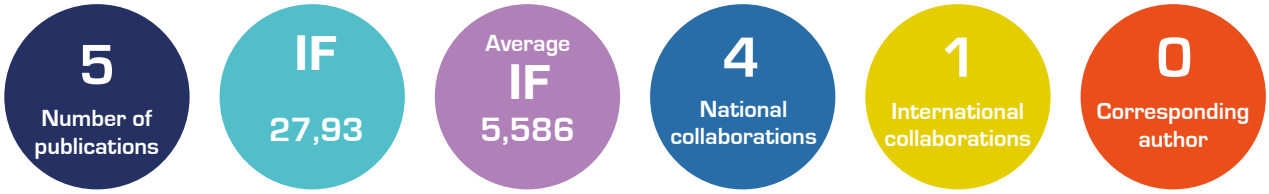
Researchers by categories



Main lines of research

- Cognitive impairment and dementia
- Cerebrovascular diseases
- Demyelinating diseases
- Epilepsy
- Extrapyramidal pathology
- Pain/headaches

PUBLICATIONS



SELECTED PUBLICATIONS

1. Fernández-Velasco JI, Monreal E, Kuhle J, Meca-Lallana V, Meca-Lallana J, Izquierdo G, Oreja-Guevara C, Gascón-Giménez F, Sainz de la Maza S, Walo-Delgado PE, Lapuente-Suanzes P, Maceski A, Rodríguez-Martín E, Roldán E, Villarrubia N, Saiz A, Blanco Y, Diaz-Pérez C, Valero-López G, Diaz-Diaz J, Aladro Y, Brieva L, Íñiguez C, González-Suárez I, Rodríguez de Antonio LA, García-Domínguez JM, Sabin J, Llufriu S, Masjuan J, Costa-Frossard L, Villar LM. Baseline inflammatory status reveals dichotomic immune mechanisms involved in primary-progressive multiple sclerosis pathology. Frontiers

in Immunology. 2022 Mar 21;13:842354. doi: 10.3389/fimmu.2022.842354. PMID: 35386690. IF: 8,786

2. Mendibe Bilbao M, Ezpeleta Echavarri D, Lainez Andres J. The SEN and the Spanish model of recertification promoted by the Spanish Federation of Medical and Scientific Associations and its members. Neurologia. 2022 Sep 29;S2173-5808(22)00102-X. doi: 10.1016/j.nrleng.2022.09.001. PMID: 36183954. IF: 5,486
3. Santos-Lasaosa S, Belvis R, Cuadrado M, Diaz-Insa S, Gago-Veiga A, Guerrero-Peral A, Huerta M, Irimia P, Lainez J, Latorre G, Leira R, Pascual J, Porta-Etessam J, Sanchez Del Rio M, Viguera J, Pozo-Rosich P. Calcitonin gene-related peptide in migraine: from pathophysiology to treatment. Neurologia. 2022 Jun;37(5):390-402. doi: 10.1016/j.nrleng.2019.03.025. PMID: 35672126. IF: 5,486
4. Quintanilla-Bordas C, Gascon-Gimenez F, Alcala C, Paya M, Mallada J, Silla R, Carratala-Bosca S, Gasque-Rubio R, Castillo J, Casanova B. Case Report: exacerbation of relapses following mRNA COVID-19 vaccination in multiple sclerosis: a case series. Frontiers in Neurology. 2022 Apr 27;13:897275. doi: 10.3389/fneur.2022.897275. PMID: 35572939. IF: 4,086
5. Vicente C, Lacruz L, Gascon F, Carratala S, Quintanilla-Bordas C, Sanz M, Carcelen-Gadea M, Mallada J, Carreres J, Torres L, Dominguez J, Canizares E, Gil-Perotin S, Cubas L, Rubio R, Castillo-Villalba J, Perez-Miralles F, Casanova B. Oligoclonal M bands and cervical spinal cord lesions predict early secondary progressive multiple sclerosis. Frontiers in Neurology. 2022 Oct 28;13:991596. doi: 10.3389/fneur.2022.991596. PMID: 36388220. IF: 4,086

THESIS

Thesis title: *Vagus nerve stimulator en epilepsia fármaco-resistente*
Doctoral candidate: Ana Suller Martí
Director(s): Jose Miguel Láinez Andres
Date of the defense: 21/03/2022
Grade: *Sobresaliente "cum laude"*
Quality recognition/Award: European PhD

Clinical Associated Group in Pharmacy
Clinical Associated group

Group members

Researchers by categories



Leading Researcher, R4

Manuel Alós Almiñana

Hospital. University

Established Researcher, R3

Teresa Torrecilla Junyent. Hospital

Recognised Researchers, R2

Carmen Carrión Carrión. Hospital. University

Francisco Ferriols Lisart. Hospital. University

Rafael Ferriols Lisart. Hospital. University

Staff. Collaborating Researchers

Carlos Ezquer Garín. INCLIVA

Diego Cano Blanquer. Hospital

Mercedes Jiménez Heredia. Hospital

Raquel Pardillo Armuña. INCLIVA

Strategic aims

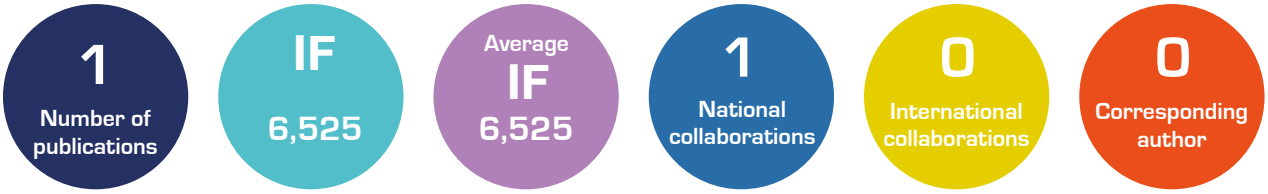
- Implementation of a new therapeutical drug monitoring system in a clinical analytical laboratory for pharmacokinetic control of antibiotic, antifungal and antineoplastic agents in the hospitalized patient, with the aim of optimal and rational use of pharmacological treatment
- Observational Study of population pharmacokinetic model of voriconazole in allogeneic stem cell transplantation. Study approved by the *Agencia Española del medicamento y Productos Sanitarios* with code CSV-VOR-2014-01
- Study of Physico-chemical stability of a new mycophenolate mofetil intravenous solution in polypropilene infusion bag at different storage conditions
- Study of pharmacokinetics of caspofungin in patients under hemodiafiltration. Study approved by the *Agencia Española del Medicamento y Productos Sanitarios* with code MER-CAS-2013-01
- Study of pharmacokinetics of Ceftolozane in critical patients. Study pending of approval by the *Agencia Española del Medicamento y Productos Sanitarios* with code CEFT-TCRR-2017
- Study of Physico-chemical stability of a new ophthalmic eyedrop formulation at different storage conditions

Main lines of research

- Pharmacokinetics and Biopharmacy
- Economic evaluation of medicines and health technologies
- Anti-infective optimization program

4 scientific activity

PUBLICATIONS



SELECTED PUBLICATIONS

1. Usach I, Di Marco S, Díez O, Alós M, Peris JE. The usefulness of in vitro percutaneous absorption experiments applying the infinite dose technique to predict in vivo plasma levels: comparison of model-predicted and observed plasma concentrations of nortriptyline in rats. Pharmaceutics. 2022 Jul 12;14(7):1457. doi: 10.3390/pharmaceutics14071457. PMID: 35890351. IF: 6,525

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *Evaluación económica en la práctica asistencial del tratamiento del virus de la hepatitis C basado en antivirales de acción directa*

Principal Investigator: Manuel Alós Almiñana and Raquel Pardillo Armuña

Funding Body: Janssen-Cilag

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022

Total Budget: €27.580,69

THESIS

Thesis title: *Evaluación económica en la práctica asistencial del tratamiento del virus de la hepatitis C basado en antivirales de acción directa*

Doctoral candidate: Raquel Pardillo Armuña

Director(s): Manuel Alós Almiñana, Pilar D'ocon Navaza, Rafael Ferriols Lisart

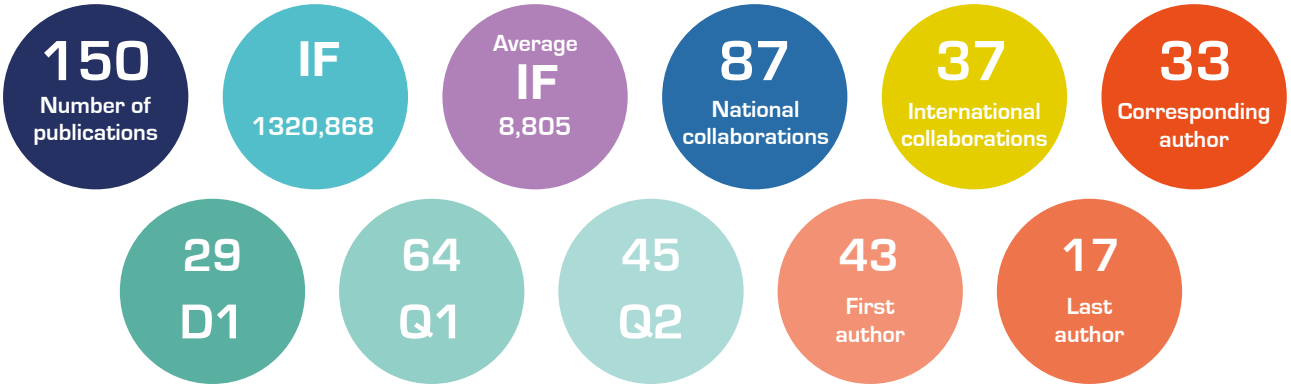
Date of the defense: 21/11/2022

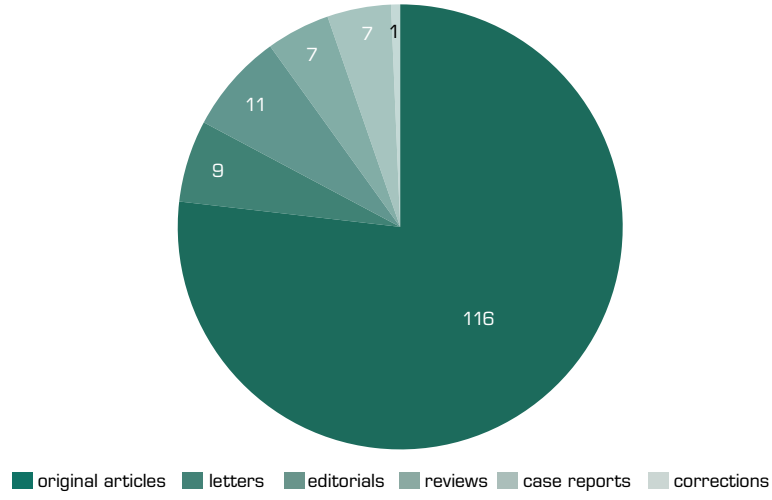
Grade: *Sobresaliente "cum laude"*

4.4 Hospital division research area

Groups

Department of Anesthesiology
Department of Angiology and Vascular Surgery
Department of Biochemistry and Clinical Analysis
Arrhythmia and Cardiac Pacing Unit
Department of Cardiology
Department of Cardiovascular Surgery
Department of Dermatology
Department of Digestive Medicine
Department of Endocrinology
Department of Family and Community Medicine
Department of Gynecology and Obstetrics
Department of Hematology and Hemotherapy
Department of Intensive Medicine
Department of Internal Medicine
Department of Maxillofacial Surgery
Department of Medical Emergency
Department of Microbiology
Department of Nephrology
Department of Neurology
Department of Neurophysiology
Department of Neurosurgery
Department of Nuclear Medicine
Department of Ophthalmology
Department of Otorhinolaryngology
Department of Pathological Anatomy
Department of Pediatrics
Department of Pharmacy
Department of Preventive Medicine and Quality of Care
Department of Psychiatry
Department of Radiologic Diagnosis
Department of Thoracic Surgery
Department of Traumatology and Orthopedic Surgery
Department of Urology
Teaching and Dissemination of Knowledge Unit

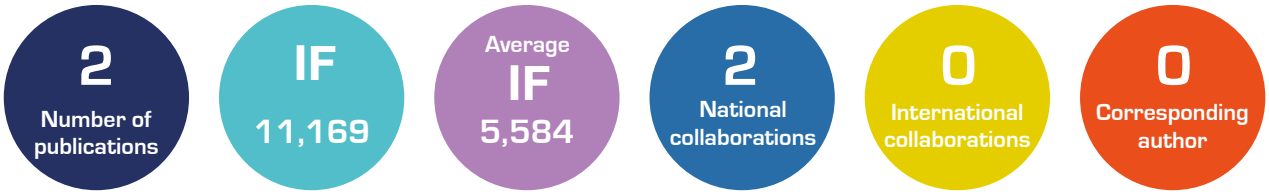




4 scientific activity

Department of Anesthesiology

PUBLICATIONS

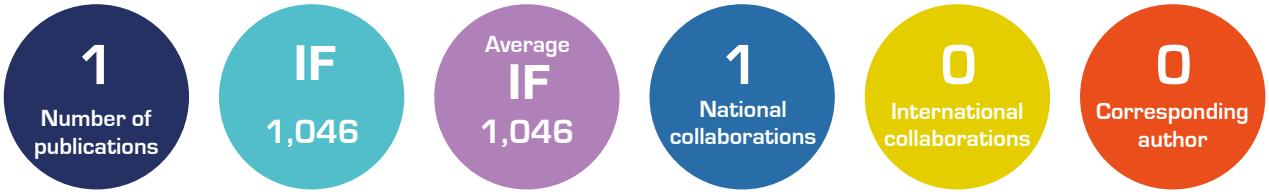


SELECTED PUBLICATIONS

1. Sanz-Ros J, Mas-Bargues C, Romero-Garcia N, Huete-Acevedo J, Dromant M, Borras C. Therapeutic potential of extracellular vesicles in aging and age-related diseases. International Journal of Molecular Sciences. 2022 Nov 23;23(23):14632. doi: 10.3390/ijms232314632. PMID: 36498960. IF: 6,208
2. Garcia-Llana H, Panizo N, Gandia L, Orti M, Gimenez-Civera E, Forquet C, D'Marco L, Puchades M, Sargsyan M, Sanchis I, Ribera C, Marco M, Ferra C, Perez-Baylach C, Bonilla B, Frances F, Perez-Bernat E, Sancho A, Gorriz J. COVID-19 vaccination improved psychological distress (anxiety and depression scores) in chronic kidney disease patients: a prospective study. Vaccines. 2022 Feb 16;10(2):299. doi: 10.3390/vaccines10020299. PMID: 35214757. IF: 4,961

Department of Angiology and Vascular Surgery

PUBLICATIONS

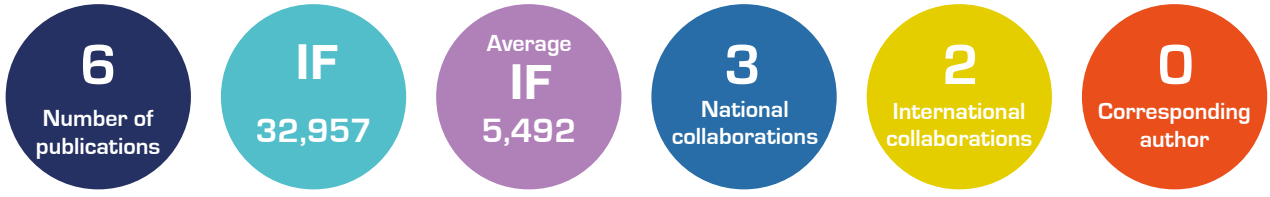


SELECTED PUBLICATIONS

1. Torres-Blanco A, Altable-Garcia M, Miralles-Hernandez M. Conservative surgical management of late carotid patch infection in a patient with subsequent stenting for restenosis. Vascular and Endovascular Surgery. 2022 Jan;56(1):112-116. doi: 10.1177/15385744211043329. PMID: 34601983. IF: 1,046

Department of Biochemistry and Clinical Analysis

PUBLICATIONS



SELECTED PUBLICATIONS

1. Garcia de Guadiana-Romualdo L, Rodriguez Rojas C, Morell-Garcia D, Andaluz-Ojeda D, Rodriguez Mulero M, Rodriguez-Borja E, Ballesteros-Vizoso A, Calvo M, Albert-Botella L, Pozo Giraldez A, Llompart-Alabern I, Bolado Jimenez C, Hernandez Olivo M, Fernandez Presa L, Ortega-Perez J, Fora Romero M, Campos-Rodriguez V, Ballester Ferriz A, Guiu-Marti A, Pinilla Arribas L, Galindo Martinez M, Puerto-Lara E, Lopez Tarazaga A, Ros Braquehais M, Nogales Martin L, Juez Santamaria C, Trapiello Fernandez W, Espinilla Fernandez V, Havelka A, Albaladejo-Oton M. Circulating levels of calprotectin, a signature of neutrophil activation in prediction of severe respiratory failure in COVID-19 patients: a multicenter, prospective study (CalCov study). Inflammation Research. 2022 Jan;71(1):57-67. doi: 10.1007/s00011-021-01516-4. PMID: 34718856. IF: 6,986

2. Safont B, Tarraso J, Rodriguez-Borja E, Fernandez-Fabrellas E, Sancho-Chust JN, Molina V, Lopez-Ramirez C, Lope-Martinez A, Cabanes L, Andreu A, Herrera S, Lahosa C, Ros JA, Rodriguez-Hermosa JL, Soriano JB, Moret-Tatay I, Carbonell-Asins JA, Mulet A, Signes-Costa J. Lung function, radiological findings and biomarkers of fibrogenesis in a cohort of COVID-19 patients six months after hospital discharge. Archivos de Bronconeumologia. 2022 Feb;58(2):142-149. doi: 10.1016/j.arbres.2021.08.014. PMID: 34497426. IF: 6,333

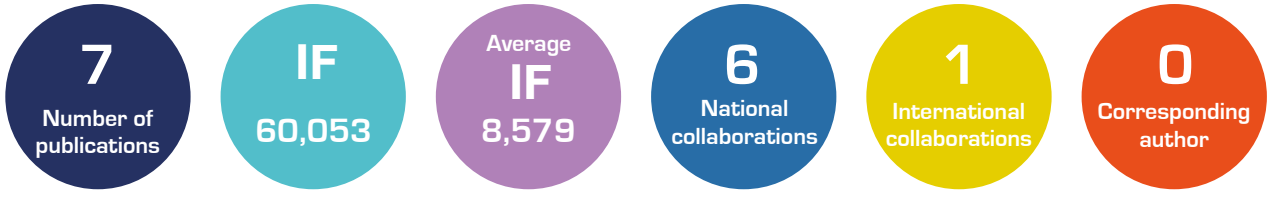
3. Palanca A, Quinones Torrelo C, Girbes J, Real JT, Ampudia Blasco FJ. Impact of COVID-19 lockdown on diabetes management and follow-up in a broad population in Spain. European Journal of Clinical Investigation. 2022 Jun;52(6):e13771. doi: 10.1111/eci.13771. PMID: 35313009. IF: 5,722

4. Cuellar C, Rodero M, Perez-Griera J, Galindo-Regal L, Lopez-Chulia F, Garcia-Ballesteros C, Andreu-Ballester J. Association between anti-Anisakis simplex antibodies and interleukin-7 levels. International Immunopharmacology. 2022 Oct;111:109134. doi: 10.1016/j.intimp.2022.109134. PMID: 35964412. IF: 5,714

5. Garcia-de-la-Asuncion J, Moreno T, Duca A, Garcia-del-Olmo N, Perez-Griera J, Belda J, Soro M, Garcia-del-Olmo E. Effects of remote ischemic postconditioning on HIF-1 alpha and other markers in on-pump cardiac surgery. General Thoracic and Cardiovascular Surgery. 2022 Mar;70(3):239-247. doi: 10.1007/s11748-021-01690-6. PMID: 34378159. IF: 1,227

Arrhythmia and Cardiac Pacing Unit

PUBLICATIONS



SELECTED PUBLICATIONS

1. Palau P, Amiguet M, Domínguez E, Sastre C, Mollar A, Seller J, Garcia Pinilla JM, Larumbe A, Valle A, Gómez Doblas JJ, de la Espriella R, Miñana G, Mezcua AR, Santas E, Bodí V, Sanchis J, Pascual-Figal D, Górriz JL, Baýes-Genís A, Núñez J; DAPA-VO2 Investigators. Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-VO2): a randomized clinical trial. European Journal of Heart Failure. 2022 Oct;24(10):1816-1826. doi: 10.1002/ejhf.2560. PMID: 35604416. IF: 18,174

2. Gabaldón-Pérez A, Marcos-Garcés V, Gavara J, López-Lereu MP, Monmeneu JV, Pérez N, Ríos-Navarro C, de Dios E, Merenciano-González H, Cànoves J, Racugno P, Bonanad C, Minana G, Núnez J, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Ortiz-Pérez JT, Rodríguez-Palomares JF, Bodí V. Prognostic value of cardiac magnetic resonance early after ST-segment elevation myocardial infarction in older patients. Age Ageing. 2022 Nov 2;51(11):afac248. doi: 10.1093/ageing/afac248. PMID: 36436010. IF: 12,782

3. Palau P, Domínguez E, Gonzalez C, Bondía E, Albiach C, Sastre C, Martínez ML, Núñez J, López L. Effect of a home-based

inspiratory muscle training programme on functional capacity in postdischarged patients with long COVID: the InsCOVID trial. BMJ Open Respiratory Research. 2022 Dec;9(1):e001439. doi: 10.1136/bmjresp-2022-001439. PMID: 36549786. IF: 5,054

4. Palau P, Domínguez E, Sastre C, Martínez ML, Gonzalez C, Bondía E, Albiach C, Núñez J, López L. Effect of a home-based inspiratory muscular training programme on functional capacity in patients with chronic COVID-19 after a hospital discharge: protocol for a randomised control trial (InsCOVID trial). BMJ Open Respiratory Research. 2022 Jul;9(1):e001255. doi: 10.1136/bmjresp-2022-001255. PMID: 35790316. IF: 5,054

5. Valles E, Jimenez J, Marti-Almor J, Toquero J, Ormaetxe JM, Barrera A, Garcia Alberola A, Rubio JM, Morina P, Grande C, Fe Arcocha M, Peinado R, Cozar R, Hernandez J, Perez-Alvarez L, Gaztanaga L, Ferrero De Loma Osorio A, Ruiz Granell R, Villuendas R, Martinez-Alday JD. Cryoballoon ablation for persistent and paroxysmal atrial fibrillation: procedural differences and results from the Spanish Registry (RECABA). Journal of Clinical Medicine. 2022 Feb 22;11(5):1166. doi: 10.3390/jcm11051166. PMID: 35268259. IF: 4,964

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI-2021-015

Title: *RECONST_ECG: Evaluación del proceso de reconstrucción de un electrocardiograma de 12 derivaciones a partir de 3 en condiciones ambulatorias*

Principal Investigator: Javier Calpe Maravillas and Ricardo Ruiz Granell

Funding Body: *Universidad de Valencia* - INCLIVA

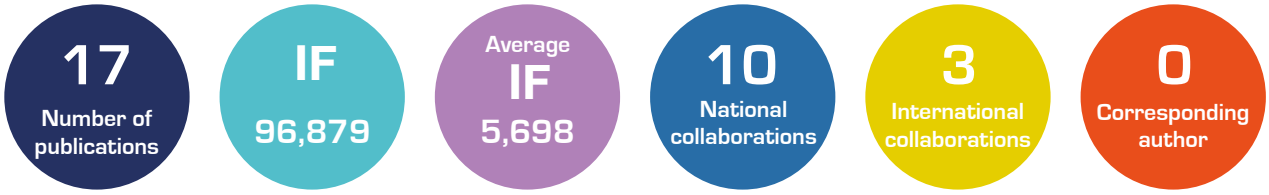
Beneficiary Insitution: *Universidad de Valencia* - INCLIVA

Duration: 2021-2022

Total Budget: €8.712

Department of Cardiology

PUBLICATIONS



SELECTED PUBLICATIONS

1. De la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,349

2. Lorenzo Hernandez M, Sanchis J. Management of acute decompensated heart failure in Spain: where are we now?. Emergencias. 2022 Apr;34(2):81-82. PMID: 35275457. IF: 5,345

3. Gavara J, Marcos-Garces V, Lopez-Lereu, MP, Monmeneu JV, Rios-Navarro C, de Dios E, Perez N, Merenciano H, Gabaldon A, Canoves J, Racugno P, Bonanad C, Minana G, Nunez J, Nunez E, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Rodriguez-Palomares JF, Ortiz-Perez JT, Bodi V. Magnetic resonance assessment of left ventricular ejection fraction at any time post-infarction for prediction of subsequent events in a large multicenter STEMI Registry. Journal of Magnetic Resonance Imaging. 2022 Aug;56(2):476-487. doi: 10.1002/jmri.27789. PMID: 34137478. IF: 5,119

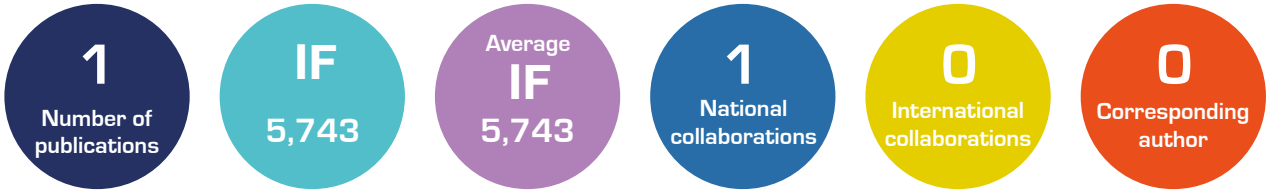
4. Lorenzo Hernandez M, Sanchis J. Management of acute decompensated heart failure in Spain: where are we now?. Emergencias. 2022 Apr;34(2):81-82. PMID: 35275457. IF: 4,964

5. Gavara J, Marcos-Garces V, Lopez-Lereu, MP, Monmeneu JV, Rios-Navarro C, de Dios E, Perez N, Merenciano H, Gabaldon A, Canoves J, Racugno P, Bonanad C, Minana G, Nunez J, Nunez E, Moratal D, Chorro FJ, Valente F, Lorenzatti D, Rodriguez-

Palomares JF, Ortiz-Perez JT, Bodi V. Magnetic resonance assessment of left ventricular ejection fraction at any time post-infarction for prediction of subsequent events in a large multicenter STEMI Registry. Journal of Magnetic Resonance Imaging. 2022 Aug;56(2):476-487. doi: 10.1002/jmri.27789. PMID: 34137478. IF: 4,996

Department of Cardiovascular Surgery

PUBLICATIONS



SELECTED PUBLICATIONS

1. Cano J, Facila L, Gracia-Baena J, Zangroniz R, Alcaraz R, Rieta J. The relevance of calibration in machine learning-based hypertension risk assessment combining photoplethysmography and electrocardiography. Biosensors-Basel. 2022 May 1;12(5):289. doi: 10.3390/bios12050289. PMID: 35624590. IF: 5,743

Department of Dermatology

PUBLICATIONS



SELECTED PUBLICATIONS

1. Rocamora V, Crespi L, Ferran M, Llamas-Velasco M, del Alcazar E, Carrascosa J, Beltran E, Urruticoechea-Arana A, Estebaranz J, Vidal D, Riera J, Rodriguez L, Armesto S, Fernandez J, Aparicio G, Perez S, Porcar S, Montesinos E, Gallardo F. Guselkumab effectiveness and survival in patients with psoriasis and psoriatic arthritis: multicenter analysis in daily clinical practice by the Spanish Psoriasis Group. Dermatologic Therapy. 2022 Nov;35(11):e15865. doi: 10.1111/dth.15865. PMID: 36175141. IF: 3,858

2. Saura S, Benavent M. Pachydermodactyly. Journal of Cutaneous Medicine and Surgery. 2022;26(3):310. doi: 10.1177/12034754211003523. doi: 10.1177/12034754211003523. PMID: 33779338. IF: 2,854

3. Benavent M, Saura S. Visual dermatology: annular elastolytic giant cell granuloma. Journal of Cutaneous Medicine and Surgery. 2022;26(1):98. doi: 10.1177/1203475420962047. PMID: 32988233. IF: 2,854

4. Agud-Dios M, Perandones-Gonzalez H, Fernández-Domper L, Dominguez Santas M, Boixeda de Miquel P. Picosecond 755-nm alexandrite laser treatment for oral lentiginosis in Peutz-Jeghers disease. Lasers in Surgery and Medicine. 2022 Aug;54(6):823-824. doi: 10.1002/lsm.23553. PMID: 35485783. IF: 2,703

5. Fernandez-Domper L, Redondo M, De Dios M, Gonzalez H, Boixeda P. Erythema Ab Igne successfully treated with a 755-nm alexandrite picosecond laser. Lasers in Medical Science.

2022 Jun;37(4):2321-2322. doi: 10.1007/s10103-021-03459-y. PMID: 34750732. IF: 2,555

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *Estudio delMP-3 como potencial biomarcador plasmático de progresión de melanoma*

Principal Investigator: Ángeles Revert Fernández and Raúl Ballestín Hinojosa

Funding Body: Janssen-Cilag

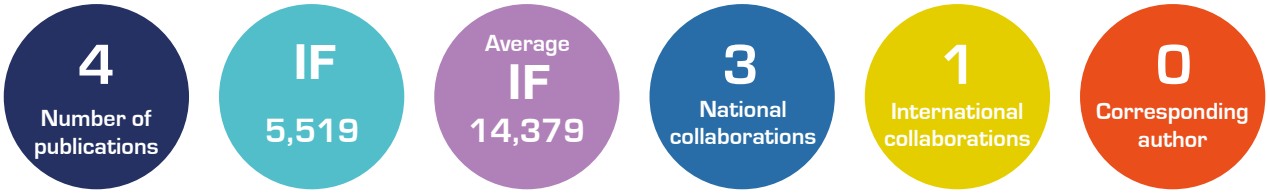
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2022

Total budget: €8.236,03

Department of Digestive Medicine

PUBLICATIONS



SELECTED PUBLICATIONS

1. Tranah T, Ballester M, Carbonell-Asins J, Ampuero J, Alexandrino G, Caracostea A, Sanchez-Torrijos Y, Thomsen K, Kerbert A, Capilla-Lozano M, Romero-Gomez M, Escudero-Garcia D, Montoliu C, Jalan R, Shawcross D. Plasma ammonia levels predict hospitalisation with liver-related complications and mortality in clinically stable outpatients with cirrhosis. Journal of Hepatology. 2022 Dec;77(6):1554-1563. doi: 10.1016/j.jhep.2022.07.014. PMID: 35872326. IF: 30,083
2. Tosca J, Sanchez A, Sanahuja A, Villagrasa R, Poyatos P, Mas P, Pascual I, Lluch P, Herreros B, Pena A, Sanchiz V, Minguez M. Caustic ingestion: a risk-based algorithm. American Journal of Gastroenterology. 2022 Oct 1;117(10):1593-1604. doi: 10.14309/ajg.0000000000001953. PMID: 36194047. IF: 12,045
3. Ballester MP, Mesonero F, Florez-Diez P, Gomez C, Fuentes-Valenzuela E, Martin N, Senosiain C, Vela M, Fernandez-Clotet A, Perez P, Rubin de Celix C, Calvino-Suarez C, Hermida B, Munoz R, Gonzalez-Vivo M, Brunet E, Jimenez N, Botella B, Yebra J, Suarez-Ferrer C, Bouhmidi A, Lopez-Serrano A, Ponferrada A, Duenas C, Minguez M. Adherence to endoscopic surveillance for advanced lesions and colorectal cancer in inflammatory bowel disease: an AEG and GETECCU collaborative cohort study. Alimentary Pharmacology & Therapeutics. 2022 Jun;55(11):1402-1413. doi: 10.1111/apt.16832. PMID: 35224758. IF: 9,524
4. González MRD, Ballester MP, Romero-González E, Sánchez-Pardo AM, Marti-Aguado D, Tosca J, Suria C, Ausejo RA, Moreno IP, Silvestre MDP, Pérez MM, Bosca-Watts MM. Biological treatment interruption in Inflammatory Bowel Disease: motivation and predictive factors. Gastroenterologia y Hepatologia. 2022 Nov 11;S0210-5705(22)00267-9. doi: 10.1016/j.gastrohep.2022.10.021. PMID: 36375696. IF: 5,867

Department of Endocrinology

PUBLICATIONS

2	IF	Average IF	2	0	1
Number of publications	8,339	4,169	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Casany-Fernandez R, Gascon-Gimenez F, Matarredona Solaz E, Pardo Lozano F, Dominguez-Moran J, Ferri Ciscar J, Real J. Remission of graves disease after initiation of ocrelizumab in patients with multiple sclerosis. Thyroid. 2022 Nov 23. doi: 10.1089/thy.2022.0398. PMID: 36416241. IF: 6,506
2. Alarcon Chulilla M, Avila Fuentes M, Casan Fernandez R, Muelas N, Real Collado J. Immune-mediated necrotising inflammatory myopathy. A rare side effect of statins. Endocrinologia, Diabetes y Nutricion. 2022 Oct;69(8):648-649. doi: 10.1016/j.endien.2022.10.001. PMID: 36347793. IF: 1,833

Department of Family and Community Medicine

PUBLICATIONS

1	IF	Average IF	1	0	0
Number of publications	5,867	5,867	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Menendez Rodriguez M, Garau Ramirez J, Traver Salvador A, Hervas Jimenez Y, Garcia Morales N, Seoane Pillado T, Pin Vieito N, Vega Villaamil P, Montes Martinez A, Cubiella J. Rawl's questionnaire Spanish validation for colorectal cancer screening with faecal occult blood testing. Gastroenterologia y Hepatologia. 2022 Feb;45(2):106-113. doi: 10.1016/j.gastrohep.2021.04.001. PMID: 34023478. IF: 5,867

Department of Gynecology and Obstetrics

PUBLICATIONS

3	IF	Average IF	1	2	0
Number of publications	13,74	4,58	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Moccia P, Belda-Montesinos R, Monllor-Tormos A, Chedraui P, Cano A. Body weight and fat mass across

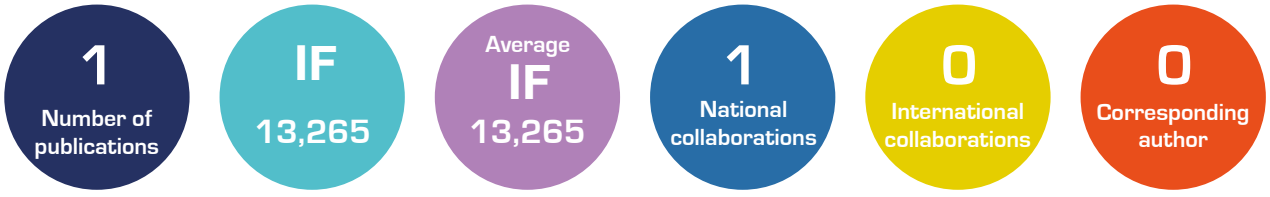
the menopausal transition: hormonal modulators. Gynecological Endocrinology. 2022 Feb;38(2):99-104. doi: 10.1080/09513590.2021.2004395. PMID: 34898344. IF: 2,277

2. Tejada MA, Santos Llamas A, Escriva L, Tarin JJ, Cano A, Fernandez Ramirez MJ, Nunez Badinez P, De Leo B, Saunders PTK, Vidal V, Barthas F, Vincent K, Sweeney PJ, Sillito RR, Armstrong JD, Nagel J, Gomez R. Identification of altered evoked and non-evoked responses in a heterologous mouse model of endometriosis-associated pain. Biomedicines. 2022 Feb 21;10(2):501. doi: 10.3390/biomedicines10020501. PMID: 35203710. IF: 4,757

3. Bauset C, Martinez-Aspas A, Smith-Ballester S, Garcia-Vigara A, Monllor-Tormos A, Kadi F, Nilsson A, Cano A. Nuts and metabolic syndrome: reducing the burden of metabolic syndrome in menopause. Nutrients. 2022 Apr 18;14(8):1677. doi: 10.3390/nu14081677. PMID: 35458240. IF: 6,706

Department of Hematology and Hemotherapy

PUBLICATIONS

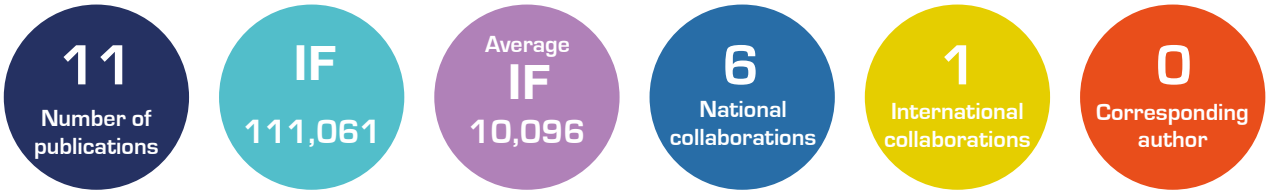


SELECTED PUBLICATIONS

1. Pinana J, Lopez-Corral L, Martino R, Montoro J, Vazquez L, Perez A, Martin-Martin G, Facal-Malvar A, Ferrer E, Pascual M, Sanz-Linares G, Gago B, Sanchez-Salinas A, Villalon L, Conesa-Garcia V, Olave M, Lopez-Jimenez J, Marcos-Corrales S, Garcia-Blazquez M, Garcia-Gutierrez V, Hernandez-Rivas J, Saus A, Espigado I, Alonso C, Hernani R, Solano C, Ferrer-Lores B, Guerreiro M, Ruiz-Garcia M, Munoz-Bellido J, Navarro D, Cedillo A, Sureda A, Infectious Complications Subcommittee of the Spanish Hematopoietic Stem, Cell Transplantation and Cell Therapy Group (GETH-TC). SARS-CoV-2-reactive antibody detection after SARS-CoV-2 vaccination in hematopoietic stem cell transplant recipients: prospective survey from the Spanish Hematopoietic Stem Cell Transplantation and Cell Therapy Group (GETH-TC). American Journal of Hematology. 2022 Jan 1;97(1):30-42. doi: 10.1002/ajh.26385. PMID: 34695229. IF: 13,265

Department of Intensive Medicine

PUBLICATIONS



SELECTED PUBLICATIONS

1. Olea B, Albert E, Torres I, Gozalbo-Rovira R, Carbonell N, Ferreres J, Poujois S, Costa R, Colomina J, Rodriguez J, Blasco M, Navarro D. SARS-CoV-2 N-antigenemia in critically ill adult COVID-19 patients: frequency and association with inflammatory and tissue-damage biomarkers. Journal of Medical Virology. 2022 Jan;94(1):222-228. doi: 10.1002/jmv.27300. PMID: 34449894. IF: 20,693

2. Forque L, Albert E, Gimenez E, Torres I, Carbonell N, Ferreres J, Blasco M, Navarro D. Monitoring of Torque Teno virus DNAemia in critically ill COVID-19 patients: may it help to predict clinical outcomes?. Journal of Clinical Virology. 2022 Jan 23;148:105082. doi: 10.1016/j.jcv.2022.105082. PMID: 35091226. IF: 14,481

3. Juarez-Vela R, Andres-Esteban E, Gea-Caballero V, Sanchez-Gonzalez J, Marcos-Neira P, Serrano-Lazaro A, Tirado-Angles G, Ruiz-Rodriguez J, Durante A, Santolalla-Arnedo I, Garcia-Erce J, Quintana-Diaz M. Related factors of anemia in critically ill patients: a prospective multicenter study. Journal of Clinical Medicine. 2022 Feb 16;11(4):1031. doi: 10.3390/jcm11041031. PMID: 35207301. IF: 4,964

4. Juarez-Vela R, Garcia-Erce J, Gea-Caballero V, de Vinaspre-Hernandez R, Santos-Sanchez J, Sanchez-Gonzalez J, Andres-Esteban E, Czapla M, Tejada C, Nanwani-Nanwani K, Serrano-Lazaro A, Quintana-Diaz M. A Cohort Study in Intensive Care Units: health decisions related to blood transfusion during the COVID-19 Pandemic. Journal of Clinical Medicine. 2022 Jul 28;11(15):4396. doi: 10.3390/jcm11154396. PMID: 35956012. IF: 4,964

5. Costa R, Alberola J, Olea B, Gozalbo-Rovira R, Gimenez E, Cuevas-Ferrando E, Torres I, Albert E, Carbonell N, Ferreres J, Sanchez G, Rodriguez-Diaz J, Blasco M, Navarro D. Combined kinetic analysis of SARS-CoV-2 RNAemia, N-antigenemia and virus-specific antibodies in critically ill adult COVID-19 patients. Scientific Reports. 2022 May 18;12(1):8273. doi: 10.1038/s41598-022-12461-5. PMID: 35585163. IF: 4,996

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI19/00994

Title: *Biomarcadores epigenéticos en sepsis y su implicación en inmunosupresión y futuras comorbilidades en supervivientes*

Principal Investigator: José Luis García Giménez (José Ferreres and Ainhoa Lázaro as collaborating researchers)

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

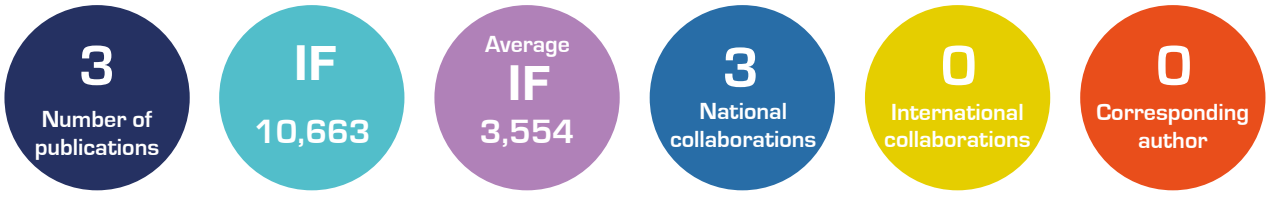
Beneficiary Institution: *Universidad de Valencia*

Duration: 2020-2022

Total budget: €111.320

Department of Internal Medicine

PUBLICATIONS



SELECTED PUBLICATIONS

1. Calderon J, Martinez F, Diaz J, Fernandez A, Sauri I, Uso R, Trillo J, Vela S, Bea C, Redon J, Forner M. Real-world data of anticoagulant treatment in non-valvular atrial fibrillation. Frontiers in Cardiovascular Medicine. 2022 Jan 21;8:733300. doi: 10.3389/fcvm.2021.733300. PMID: 35127843. IF: 5,846

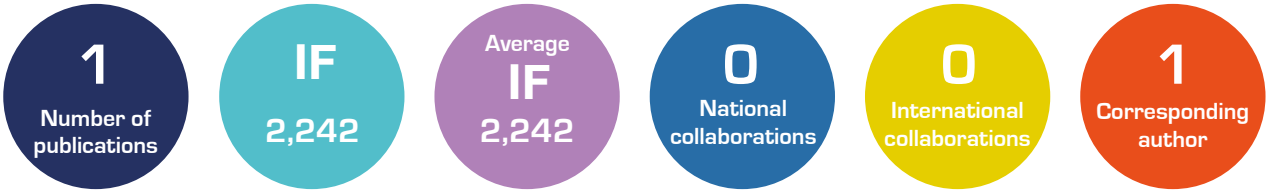
2. Alvarez H, Rava M, Martinez C, Portilla J, Peraire J, Rivero A, Cervero M, Marino A, Poveda E, Llibre J, CoRIS Study Group, Ferrer Ribera A, CoRIS Study Group. Predictors of low-level HIV viraemia and virological failure in the era of integrase inhibitors: a Spanish nationwide cohort. HIV. Medicine. 2022 Sep;23(8):825-836. doi: 10.1111/hiv.13265. PMID: 35234328. IF: 3,094

3. Ruiz-Alguero M, Alejos B, Yubero C, Jaume M, Iribarren J, Asensi V, Pasquau F, Galera C, Pascual-Carrasco M, Munoz A, Jarrin I, Ferrer Ribera A, Galindo Puerto M, Suarez-Garcia I. Use of generic antiretroviral drugs and single-tablet regimen de-simplification for the treatment of HIV infection in Spain. AIDS Research and Human Retroviruses. 2022 Jun;38(6):433-440. doi: 10.1089/AID.2021.0122. PMID: 35357907. IF: 1,723

4 scientific activity

Department of Maxillofacial Surgery

PUBLICATIONS

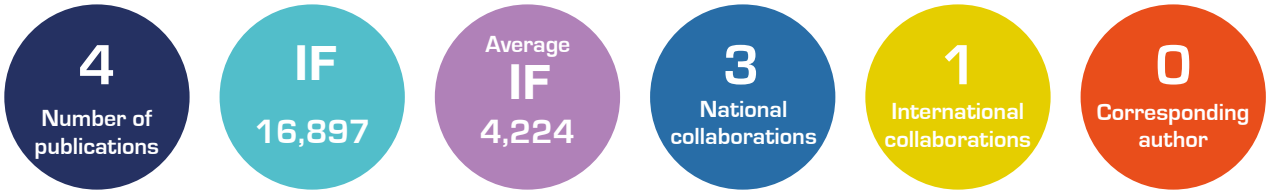


SELECTED PUBLICATIONS

1. Botella Casas G, Cassinello Fernandez N, Perez Santiago L, Alfonso Ballester R, Ortega Serrano J. Influence of carotid anatomy anomaly in rescue surgery due to relapse of papillary thyroid cancer. Cirugia Espanola. 2022 Oct;100(10):657-659. doi: 10.1016/j.cireng.2022.06.035. PMID: 35753572. IF: 2,242

Department of Medical Emergency

PUBLICATIONS



SELECTED PUBLICATIONS

1. Miró Ò, Jiménez S, Llorens P, Roussel M, Gorlicki J, García-Lamberechts EJ, Le Borgne P, Jacob J, Chauvin A, Lucidarme O, Burillo-Putze G, Aguirre A, Brigant F, Lozano L, González Del Castillo J, Freund Y; SIESTA and PEPCOV research teams. Pulmonary embolism severity and in-hospital mortality: an international comparative study between COVID-19 and non-COVID patients. European Journal of Internal Medicine. 2022 Apr;98:69-76. doi: 10.1016/j.ejim.2022.01.035. PMID: 35115232. IF: 7,749

2. Mirò Ò, Sabaté M, Jiménez S, Mebazaa A, Martínez-Nadal G, Piñera P, Burillo-Putze G, Martín A, Martín-Sánchez FJ, Jacob J, Alquézar-Arbé A, García-Lamberechts EJ, Llorens P, González Del Castillo J; Spanish Investigators on Emergency Situations TeAm (SIESTA) network; SIESTA network. A case-control, multicentre study of consecutive patients with COVID-19 and acute (myo)pericarditis: incidence, risk factors, clinical characteristics and outcomes. Emergency Medicine Journal. 2022 May;39(5):402-410. doi: 10.1136/emermed-2020-210977. PMID: 35304388. IF: 3,814

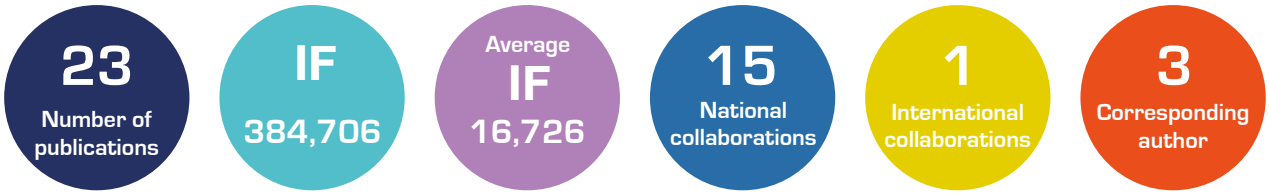
3. Jacob J, Albert-Casado A, Del-Castillo J, Llorens-Soriano P, Jimenez-Hernandez S, Burillo-Putze G, Martin-Martinez A, Martin-Sanchez F, Garcia-Lamberechts E, Pinera-Salmeron P, Alquezar-Arbe A, Ferre-Losa C, Juan-Gomez M, Serrano-Lazaro L, Noceda-Bermejo J, Salido-Mota M, Fortuny-Bayarri M, Gonzalez-Tejera M, Ferreras-Amez J, Diaz-Fernandez E, Quero-Motto E, Peiro-Gomez A, Martin-Mojarro E, Llopis-Roca F, Huerta-Garcia A, Pedraza-Garcia J, Melendez-Calix N, Brazo-Aznar J, Cano-Cano M, Miro O. Safety and revisit related to discharge the sixty-one Spanish emergency department medical centers without hospitalization in patients with COVID-19 pneumonia. A prospective cohort study UMC-Pneumonia COVID-19. Revista de Investigacion Clinica. 2022 May 2;74(3):135-146. doi: 10.24875/RIC.22000021. PMID: 35240755. IF: 2,667

4. Alquézar-Arbé A, Miró Ò, Castillo JGD, Jiménez S, Llorens P, Martín A, Martín-Sánchez FJ, García-Lamberechts EJ, Piñera P, Jacob J, Porrino JMM, Jiménez B, Río RD, García CP, Aznar JVB, Ponce MC, Fernández ED, Tost J, Mojarro EM, García AH, Quirós AM, Noceda J, Cano MJC, Almela AFS, Bayarri MJF, Tejera MG, Rodriguez AD, Burillo-Putze G; Spanish Investigators on Emergency Situations TeAm

(SIESTA) Network. Incidence, clinical characteristics, risk factors and outcomes of acute coronary syndrome in patients with COVID-19: results of the UMC-19-S1010. Journal of Emergency Medicine. 2022 Apr;62(4):443-454. doi: 10.1016/j.jemermed.2021.10.046. PMID: 35065863. IF: 2,667

Department of Microbiology

PUBLICATIONS

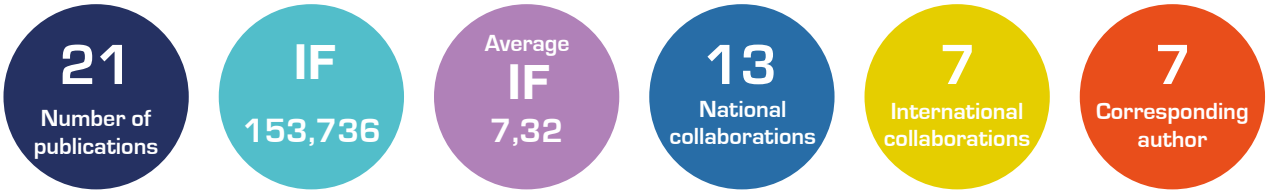


SELECTED PUBLICATIONS

1. Gimenez E, Albert E, Zulaica J, Torres I, Rusu L, Rodriguez Moreno A, Burgos JS, Peiro S, Salas D, Vanaclocha H, Limon R, Alcaraz MJ, Sanchez-Paya J, Diez-Domingo J, Comas I, Gonzales Candelas F, Geller R, Navarro D. SARS-CoV-2 adaptive immunity in nursing home residents following a third dose of the Comirnaty COVID-19 vaccine. Clinical Infectious Diseases. 2022 Aug 24;75(1):e865-e868. doi: 10.1093/cid/ciac223. PMID: 35314856. IF: 20,999
2. de Michelena P, Olea B, Torres I, Gonzalez-Candelas F, Navarro D. SARS-CoV-2 RNA load in nasopharyngeal specimens from outpatients with breakthrough COVID-19 due to Omicron BA.1 and BA.2. Journal of Medical Virology. 2022 Dec;94(12):5836-5840. doi: 10.1002/jmv.28079. PMID: 35986484. IF: 20,693
3. Olea B, Albert E, Torres I, Gozalbo-Rovira R, Carbonell N, Ferreres J, Poujois S, Costa R, Colomina J, Rodriguez J, Blasco M, Navarro D. SARS-CoV-2 N-antigenemia in critically ill adult COVID-19 patients: frequency and association with inflammatory and tissue-damage biomarkers. Journal of Medical Virology. 2022 Jan;94(1):222-228. doi: 10.1002/jmv.27300. PMID: 34449894. IF: 20,693
4. Albert E, Burgos JS, Peiro S, Salas D, Vanaclocha H, Gimenez E, Limon R, Alcaraz MJ, Sanchez-Paya J, Diez-Domingo J, Cervantes A, Navarro D. Immunological response against SARS-CoV-2 following full-dose administration of Comirnaty COVID-19 vaccine in nursing home residents. Clinical Microbiology and Infection. 2022 Feb;28(2):279-284. doi: 10.1016/j.cmi.2021.09.031. PMID: 34619398. IF: 13,31
5. Cancino-Munoz I, Lopez M, Torres-Puente M, Villamayor L, Borras R, Borras-Manez M, Bosque M, Camarena J, Colijn C, Colomer-Roig E, Colomina J, Escribano I, Esparcia-Rodriguez O, Garcia-Garcia F, Gil-Brusola A, Gimeno C, Gimeno-Gascon A, Gomila-Sard B, Gonzales-Granda D, Gonzalo-Jimenez N, Guna-Serrano M, Lopez-Hontangas J, Martin-Gonzalez C, Moreno-Munoz R, Navarro D, Navarro M, Orta N, Perez E, Prat J, Rodriguez J, Ruiz-Garcia M, Vanaclocha H, Comas I. Population-based sequencing of Mycobacterium tuberculosis reveals how current population dynamics are shaped by past epidemics. eLife. 2022 Jul 26;11:e76605. doi: 10.7554/eLife.76605. PMID: 35880398. IF: 8,713

Department of Nephrology

PUBLICATIONS



SELECTED PUBLICATIONS

1. Heerspink H, Cherney D, Postmus D, Stefansson B, Chertow G, Dwyer J, Greene T, Kosiborod M, Langkilde A, McMurray J, Correa-Rotter R, Rossing P, Sjostrom C, Toto R, Wheeler D. A pre-specified analysis of the Dapagliflozin and Prevention of Adverse Outcomes in Chronic Kidney Disease (DAPA-CKD) randomized controlled trial on the incidence of abrupt declines in kidney function. Kidney International. 2022 Jan;101(1):174-184. doi: 10.1016/j.kint.2021.09.005. PMID: 34560136. IF: 18,998

2. De la Espriella R, Amiguet M, Minana G, Rodriguez JC, Moyano P, Segarra D, Fernandez J, Santas E, Nunez G, Lorenzo M, Bonanad C, Alania E, Valle A, Sanchis J, Bodi V, Gorriz JL, Navarro J, Codina P, Voors AA, Bayes-Genis A, Nunez J. Bending oxygen saturation index and risk of worsening heart failure events in chronic heart failure. European Journal of Heart Failure. 2022 Nov;24(11):2108-2117. doi: 10.1002/ejhf.2651. PMID: 36054502. IF: 17,349

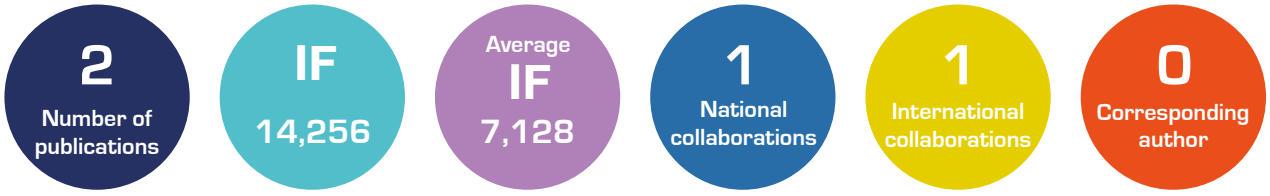
3. Palau P, Amiguet M, Dominguez E, Sastre C, Mollar A, Seller J, Pinilla J, Larumbe A, Valle A, Doblas J, de la Espriella R, Minana G, Mezcua A, Santas E, Bodi V, Sanchis J, Pascual-Figal D, Gorriz J, Bayes-Genis A, Nunez J. Short-term effects of dapagliflozin on maximal functional capacity in heart failure with reduced ejection fraction (DAPA-VO2): a randomized clinical trial. European Journal of Heart Failure. 2022 Oct;24(10):1816-1826. doi: 10.1002/ejhf.2560. PMID: 35604416. IF: 17,349

4. Provenzano M, Puchades M, Garofalo C, Jongs N, D'Marco L, Andreucci M, De Nicola L, Gorriz J, Heerspink H. Albuminuria-lowering effect of dapagliflozin, eplerenone, and their combination in patients with chronic kidney disease: a randomized cross-over clinical trial. Journal of the American Society of Nephrology. 2022 Aug;33(8):1569-1580. doi: 10.1681/ASN.2022020207. PMID: 35440501. IF: 14,978

5. De la Espriella R, Bayes-Genis A, Llacer P, Palau P, Minana G, Santas E, Pellicer M, Gonzalez M, Gorriz JL, Bodi V, Sanchis J, Nunez J. Prognostic value of NT-proBNP and CA125 across glomerular filtration rate categories in acute heart failure. European Journal of Internal Medicine. 2022 Jan;95:67-73. doi: 10.1016/j.ejim.2021.08.024. PMID: 34507853. IF: 7,749

Department of Neurology

PUBLICATIONS



SELECTED PUBLICATIONS

1. Amarenco P, Kim J, Labreuche J, Charles H, Giroud M, Lavallee P, Lee B, Mahagne M, Meseguer E, Nighoghossian N, Steg P, Vicaut E, Bruckert E. Intracranial hemorrhage in the TST Trial. Stroke. 2022 Feb;53(2):457-462. doi: 10.1161/STROKEAHA.121.035846. PMID: 34963300. IF: 10,17

2. Quintanilla-Bordas C, Gascon-Gimenez F, Alcala C, Paya M, Mallada J, Silla R, Carratala-Bosca S, Gasque-Rubio R, Castillo J, Casanova B. Case Report: exacerbation of relapses following mRNA COVID-19 vaccination in multiple sclerosis: a case series. Frontiers in Neurology. 2022 Apr 27;13:897275. doi: 10.3389/fneur.2022.897275. PMID: 35572939. IF: 4,086

Department of Neurophysiology

PUBLICATIONS

1	IF	Average IF	1	0	0
Number of publications	1,667	1,667	National collaborations	International collaborations	Corresponding author

SELECTED PUBLICATIONS

1. Terres-Jimenez B, Dominguez-Cabanero EM, Gonzalez-Vivas C, Garcia-Parreno B, Diego-Castano S, Aiko Gesler M, De Entrambasaguas M, Lorente-Rovira E. Variables associated with the success of group cognitive behavioral therapy for insomnia: preliminary results. Actas Espanolas de Psiquiatria. 2022 Sep;50(5):233-240. PMID: 36273383. IF: 1,667

Department of Neurosurgery

PUBLICATIONS

4	IF	Average IF	1	1	1
Number of publications	16,226	4,056	National collaborations	International collaborations	Corresponding author

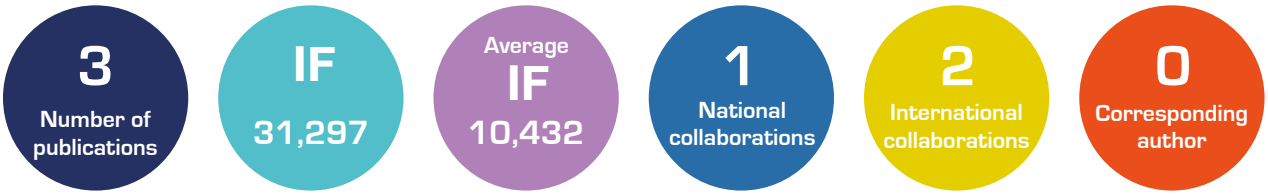
SELECTED PUBLICATIONS

1. Martorell-Llobregat C, Gonzalez-Lopez P, Luna E, Asensio-Asensio M, Jadraque-Rodriguez R, Garcia-March G, Moreno-Lopez P. The role of vagus nerve stimulation in the treatment of refractory epilepsy: clinical outcomes and impact on quality of life. Neurologia. 2022 Jul-Aug;37(6):450-458. doi: 10.1016/j.nrleng.2019.04.004. PMID: 34088638. IF: 5,486
2. Gonzalez-Darder J, Capilla-Guasch P. The temporary resection of the cranial vault by Wilhelm Wagner (1848-1900) instead of trepanation: the cornerstone of the modern craniotomy. Journal of Neurosurgery. 2022 Dec 9;1-6. doi: 10.3171/2022.11.JNS221680. PMID: 36681976. IF: 5,408
3. Garcia-Oriola G, Tomasi S, Gallardo F, Umana G, Lawton M, Winkler P. Optic tract as an upper limit in amygdalectomy: microsurgical study. Operative Neurosurgery. 2022 Jul 1;23(1):e42-e48. doi: 10.1227/ons.0000000000000208. PMID: 35486869. IF: 2,817
4. Sanchez-Ramos D, Vega-Torres E, Irles-Vidal C, Colomina-Rodriguez J. Cerebellious abscesses caused by Nocardia farcinica in an immunocompromised patient. Revista Espanola de Quimioterapia. 2022 Aug;35(4):418-420. doi: 10.37201/req/034.2022. PMID: 35711122. IF: 2,515

4 scientific activity

Department of Nuclear Medicine

PUBLICATIONS

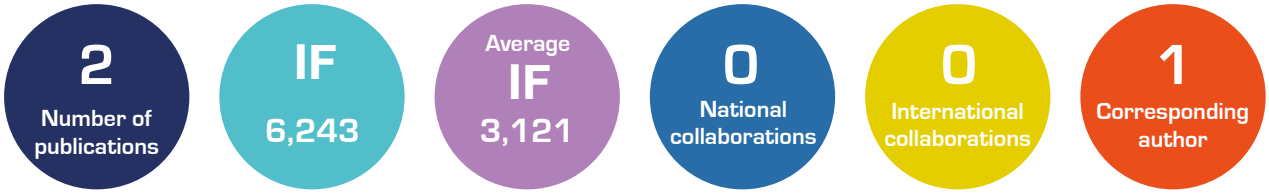


SELECTED PUBLICATIONS

1. Einstein AJ, Hirschfeld C, Williams MC, Vitola JV, Better N, Villines TC, Cerci R, Shaw LJ, Choi AD, Dorbala S, Karthikeyan G, Lu B, Sinitsyn V, Ansheles AA, Kudo T, Bucciarelli-Ducci C, Nørgaard BL, Maurovich-Horvat P, Campisi R, Milan E, Louw L, Allam AH, Bhatia M, Sewanan L, Malkovskiy E, Cohen Y, Randazzo M, Narula J, Morozova O, Pascual TNB, Pynda Y, Dondi M, Paez D. Worldwide disparities in recovery of cardiac testing 1 year into COVID-19. Journal of the American College of Cardiology. 2022 May 24;79(20):2001-2017. doi: 10.1016/j.jacc.2022.03.348. PMID: 35589162. IF: 27,203
2. Alonso JC, Casans I, González FM, Fuster D, Rodríguez A, Sánchez N, Oyagüez I, Burgos R, Williams AO, Espinoza N. Economic evaluations of radioembolization with Itrium-90 microspheres in hepatocellular carcinoma: a systematic review. BMC Gastroenterology. 2022 Jul 2;22(1):326. doi: 10.1186/s12876-022-02396-6. PMID: 35780112. IF: 2,847
3. Carrero-Vasquez V, Prado-Wohlwend S. [68Ga] Ga-DOTA-TOC PET/CT uptake by parathyroid adenoma in the context of multiple endocrine neoplasia type 1 (MEN1). Revista Espanola de Medicina Nuclear e Imagen Molecular. 2022;41 Suppl 1:S66-S68. doi: 10.1016/j.remnie.2022.04.004. PMID: 35550366. IF: 1,247

Department of Ophthalmology

PUBLICATIONS



SELECTED PUBLICATIONS

1. Oliver L, Barron A, Montero A, Gil-Hernandez I, Samper A. A case of sterile corneal stromal infiltration with hypotonic maculopathy under brimonidine treatment. Ocular Immunology and Inflammation. 2022 Jun 16;1-4. doi: 10.1080/09273948.2022.2087687. PMID: 35708458. IF: 3,728
2. Vidal Oliver L, Bayo Calduch P, Forque Rodriguez L, Navarro Ortega D, Duch Samper AM, Colomina Rodriguez J. Methicillin-resistant Staphylococcus epidermidis infectious keratitis: clinical and microbiological profile. Revista Espanola de Quimioterapia. 2022 Apr;35(2):171-177. doi: 10.37201/req/128.2021. PMID: 35067009. IF: 2,515

THESIS

Thesis title: Study of conjunctival bullae after filtering surgery with express valve using optical coherence tomography of the anterior segment

Doctoral candidate: Rosario Inés De la Cruz Aguiló

Director(s): Vicente-Tomás Pérez Torregrosa, Antonio Miguel Duch Samper

Date of the defense: 06/04/2022

Grade: *Sobresaliente "cum laude"*

Department of Otorhinolaryngology

PUBLICATIONS

3 Number of publications

IF 6,713

Average IF 2,237

3 National collaborations

0 International collaborations

2 Corresponding author

SELECTED PUBLICATIONS

1. Martinez M, Moragon S, Ortega-Morillo B, Monton-Bueno J, Simon S, Rosello S, Insa A, Viala A, Navarro J, Sanmartin A, Fluixa C, Julve A, Soriano D, Buch E, Pena A, Franco J, Martinez-Jabaloyas J, Marco J, Forner M, Cano A, Silvestre A, Teruel A, Bermejo B, Cervantes A, Chirivella Gonzalez I. Impact of the COVID-19 pandemic on a cancer fast-track programme. Cancer Control. 2022 Jan-Dec;29:10732748221131000. doi: 10.1177/10732748221131000. PMID: 36355430. IF: 2,339
2. Perez-Carbonell T, Orts-Alborch M, Perez-Guillen V, Pla-Gil I, Tenias-Burillo JM, Marco-Algarra J, Perez-Garrigues H. Bilateral Meniere's disease according to its form of debut: synchronous and metachronous disease. Journal of Laryngology and Otology. 2022 Oct 6;1-19. doi: 10.1017/S0022215122002262. PMID: 36200516. IF: 2,187
3. Perez-Carbonell T, Orts-Alborch M, Perez-Guillen V, Tenias-Burillo J, Pla-Gil I, Marco-Algarra J, Perez-Garrigues H. A longitudinal study of unilateral Meniere's disease and clinical evolutionary models. Journal of Laryngology and Otology. 2022 Aug 4;1-27. doi: 10.1017/S0022215122001773. PMID: 35924453. IF: 2,187

THESIS

Thesis title: *Análisis del rendimiento auditivo y de la potencia de salida de los dispositivos osteointegrados percutáneos*
Doctoral candidate: Jordi Calvo Gómez
Director(s): Ignacio Pla Gil, Jaime Marco Algarra
Date of the defense: 11/02/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *El tratamiento personalizado de la insuficiencia velofaríngea mediante injerto adiposo autólogo de la faringe*
Doctoral candidate: Chiara Suzzi
Director(s): Jaime Marco Algarra, Luis Miragall Alba, Guillaume Captier
Date of the defense: 12/12/2022
Grade: *Sobresaliente "cum laude"*

Department of Pathological Anatomy

PUBLICATIONS

3 Number of publications

IF 9,336

Average IF 3,112

1 National collaborations

0 International collaborations

1 Corresponding author

SELECTED PUBLICATIONS

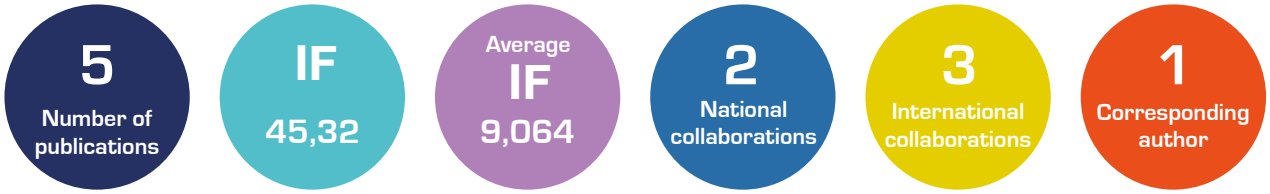
1. Silva-Rodriguez J, Schmidt A, Sales M, Molina R, Naranjo V. Proportion constrained weakly supervised histopathology image classification. Computers in Biology and Medicine. 2022 Aug;147:105714. doi: 10.1016/j.compbiomed.2022.105714. PMID: 35753089. IF: 6,698
2. Benavent M, Delgado V, Adrian J, Felix F, Ciarpaglini C. A fast-growing tumor on the head of an elderly woman:

challenge. American Journal of Dermatopathology. 2022 Jul 1;44(7):e71-e74.doi:10.1097/DAD.0000000000002154. PMID: 35704916. IF: 1,319

3. Benavent M, Delgado V, Adrian J, Felix F, Ciarpaglini C. A fast-growing tumor on the head of an elderly woman: answer. American Journal of Dermatopathology. 2022 Jul 1;44(7):535-536. doi: 10.1097/DAD.0000000000002153. PMID: 35704913. IF: 1,319

Department of Pediatrics

PUBLICATIONS



SELECTED PUBLICATIONS

1. Agulnik A, Kizyma R, Salek M, Wlodarski M, Pogorelyy M, Oszer A, Yakimkova T, Nogovitsyna Y, Dutkiewicz M, Dalle J, Dirksen U, Eggert A, Fernandez-Teijeiro A, Greiner J, Kraal K, Mueller A, Sramkova L, Zecca M, Wise P, Mlynarski W, SAFER Ukraine Collaborative, SAFER Ukraine Collaborative. Global effort to evacuate Ukrainian children with cancer and blood disorders who have been affected by war. Lancet Haematology. 2022 Sep;9(9):e645-e647. doi: 10.1016/S2352-3026(22)00259-9. PMID: 36055331. IF: 30,153

2. Kroeze E, Padilla L, Bakker M, Boer J, Hagleitner M, Burkhardt B, Mori T, Attarbaschi A, Verdu-Amoros J, Pillon M, Anderzhanova L, Kabickova E, Chiang A, Kebudi R, Mellgren K, Lazic J, Jazbec J, Meijerink J, Beishuizen A, Loeffen J. Pediatric precursor B-Cell lymphoblastic malignancies: from extramedullary to medullary involvement. Cancers. 2022 Aug 12;14(16):3895. doi: 10.3390/cancers14163895. PMID: 36010889. IF: 6,575

3. Salmeron-Villalobos J, Ramis-Zaldivar J, Balague O, Verdu-Amoros J, Celis V, Sabado C, Garrido M, Mato S, Uriz J, Ortega M, Gutierrez-Camino A, Sinnett D, Illarregi U, Carron M, Regueiro A, Galera A, Gonzalez-Farre B, Campo E, Garcia N, Colomer D, Astigarraga I, Andres M, Llavador M, Martin-Guerrero I, Salaverria I. Diverse mutations and structural variations contribute to Notch signaling deregulation in paediatric T-cell lymphoblastic lymphoma. Pediatric Blood & Cancer. 2022 Nov;69(11):e29926. doi: 10.1002/pbc.29926. PMID: 36000950. IF: 3,838

4. Parra Cotanda C, Munoz Lozon A, Botifoll Garcia E. Role of the pediatric emergency department during SARS-CoV-2 pandemic. Anales de Pediatria. 2022 Jan;96(1):64-65. doi: 10.1016/j.anpede.2020.11.011. PMID: 34872882. IF: 2,377

5. Guzmán Morais B, Ordóñez Álvarez FÁ, Santos Rodríguez F, Martín Ramos S, Fernández Novo G. Rituximab treatment in pediatric patients with steroid-dependent nephrotic syndrome: a tertiary hospital. Anales de Pediatria. 2022 Feb;96(2):83-90. doi: 10.1016/j.anpede.2020.12.019. PMID: 35144901. IF: 2,377

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: *Sistema inteligente de apoyo a la toma de decisiones clínicas en medicina de precisión*

Principal Investigator: Jaime Verdú Amorós

Funding Body: *Agencia Valenciana de la Innovación-AVI Generalitat Valenciana*

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2023

Total Budget: €107.904,85

THESIS

Thesis title: Efficacy and safety of mini-extracorporeal photopheresis for the treatment of refractory graft-versus-host-disease inchildren and adolescents

Doctoral candidate: José Jaime Verdú Amorós

Director(s): Wilhelm Wössmann

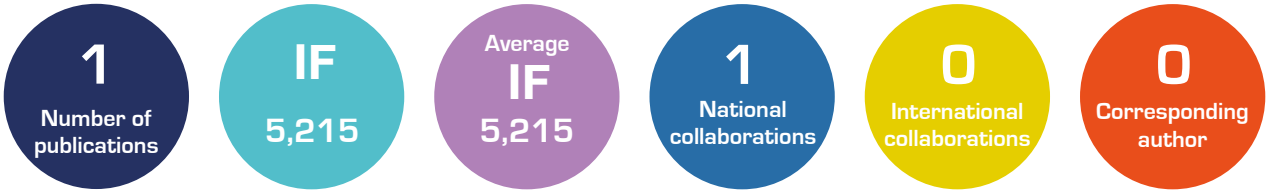
Date of the defense: 17/10/2022

Grade: *Sobresaliente "cum laude"*

Quality recognition/Award: European PhD

Department of Pharmacy

PUBLICATIONS

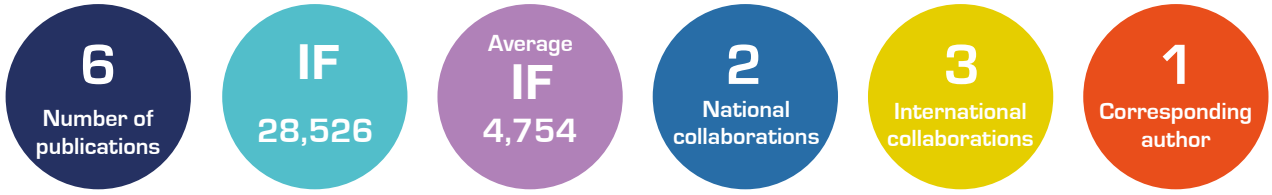


SELECTED PUBLICATIONS

1. Roger I, Montero P, Garcia A, Milara J, Ribera P, Perez-Fidalgo JA, Cortijo J. Evaluation of antineoplastic delayed-type hypersensitivity skin reactions in vitro. Pharmaceuticals. 2022 Sep 6;15(9):1111. doi: 10.3390/ph15091111. PMID: 36145332. IF: 5,215

Department of Preventive Medicine

PUBLICATIONS



SELECTED PUBLICATIONS

1. Mortier P, Vilagut G, Alayo I, Ferrer M, Amigo F, Aragonès E, Aragón-Peña A, Asúnsolo Del Barco A, Campos M, Espuga M, González-Pinto A, Haro JM, López Fresneña N, Martínez de Salázar A, Molina JD, Ortí-Lucas RM, Parellada M, Pelayo-Terán JM, Pérez-Gómez B, Pérez-Zapata A, Pijoan JI, Plana N, Polentinos-Castro E, Portillo-Van Diest A, Puig MT, Rius C, Sanz F, Serra C, Urreta-Barallobre I, Kessler RC, Bruffaerts R, Vieta E, Pérez-Solá V, Alonso J. Four-month incidence of suicidal thoughts and behaviors among healthcare workers after the first wave of the Spain COVID-19 pandemic. Journal of Psychiatric Research. 2022 May;149:10-17. doi: 10.1016/j.jpsychires.2022.02.009. PMID: 35217315. IF: 5,25

2. Abiétar DG, Beltrán Aguirre JL, García AM, García-Armesto S, Gutiérrez-Ibarluzea I, Segura-Benedicto A, Franco M, Hernández-Aguado I, en nombre del Grupo de Trabajo de SESPAS sobre la Agencia Estatal de Salud Pública. Future National Public Health Agency: an opportunity for the public health system in Spain. Gaceta Sanitaria. 2022; 36(3): 265-269. doi: 10.1016/j.gaceta.2021.12.001. PMID: 35120795. IF: 2,479

3. Alonso J, Vilagut G, Alayo I, Ferrer M, Amigo F, Aragon-Pena A, Aragones E, Campos M, Del Cura-Gonzalez I, Urreta I, Espuga M, Pinto A, Haro J, Fresnena N, de Salazar A, Molina J, Lucas R, Parellada M, Pelayo-Teran J, Zapata A, Pijoan J, Plana N, Puig M, Rius C, Rodriguez-Blazquez C, Sanz F, Serra C, Kessler R, Bruffaerts R, Vieta E, Perez-Sola V, Mortier P. Mental impact of COVID-19 among Spanish healthcare workers. A large longitudinal survey. Epidemiology and Psychiatric Sciences. 2022 Apr 29;31:e28. doi: 10.1017/S2045796022000130. PMID: 35485802. IF: 7,818

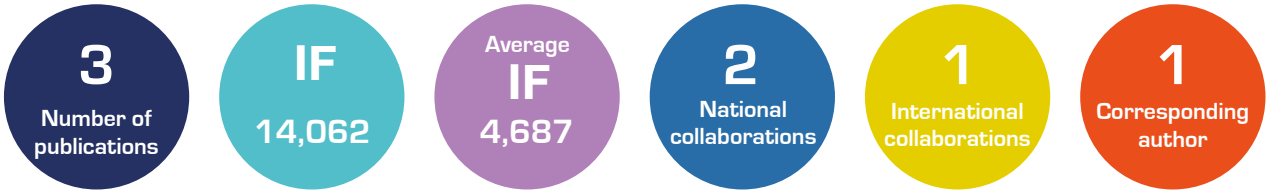
4. Orti Lucas R, Luciano E. New immunomagnetic separation method to analyze risk factors for Legionella colonization in health care centres. Journal of Exposure Science and Environmental Epidemiology. 2022 Sep;32(5):744-750. doi: 10.1038/s41370-022-00421-0. PMID: 35264765. IF: 6,371

5. Sosa-Palanca E, Saus-Ortega C, Gea-Caballero V, Andani-Cervera J, Garcia-Martinez P, Orti-Lucas R. Nurses' perception of patient safety culture in a referral hospital: a cross-sectional study. International Journal of Environmental Research and Public Health. 2022 Aug 16;19(16):10131. doi: 10.3390/ijerph191610131. PMID: 36011763. IF: 4,614

4 scientific activity

Department of Psychiatry

PUBLICATIONS



SELECTED PUBLICATIONS

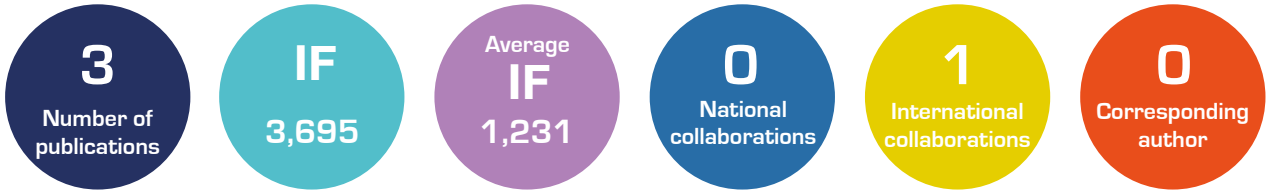
1. Rodriguez Ruzafa M, Carrasco Picazo JP, Junquera Fernandez G, Aguilar Garcia-Iturrospe EJ. EUROLD: preliminary results of the ecological study on suicide and its associated socioeconomic variables in people over 85 in Europe. International Psychogeriatrics. 2022 Feb 28;1-3. doi: 10.1017/S1041610222000072. PMID: 35225213. IF: 7,191

2. Ferrer-Quintero M, Fernandez D, Lopez-Carrilero R, Birules I, Barajas A, Lorente-Rovira E, Luengo A, Diaz-Cutraro L, Verdaguer M, Garcia-Mieres H, Gutierrez-Zotes A, Grasa E, Pousa E, Huerta-Ramos E, Pelaez T, Barrigon M, Gomez-Benito J, Gonzalez-Higueras F, Ruiz-Delgado I, Cid J, Moritz S, Sevilla-Llewellyn-Jones J, Ochoa S. Males and females with first episode psychosis present distinct profiles of social cognition and metacognition. European Archives of Psychiatry and Clinical Neuroscience. 2022 Oct;272(7):1169-1181. doi: 10.1007/s00406-022-01438-0. PMID: 35802165. IF: 5,76

3. Cabedo E, Prieto J, Quiles L, Arnaez S, Rivas M, Riveiro Y, Aguilar E, Renovell M. Factores asociados a impacto emocional de la pandemia por COVID-19 en profesionales sanitarios. Behavioral Psychology. 2022; 30(1): 69-91. doi: 10.51668/bp.8322104s. IF: 1,111

Department of Radiologic Diagnosis

PUBLICATIONS



SELECTED PUBLICATIONS

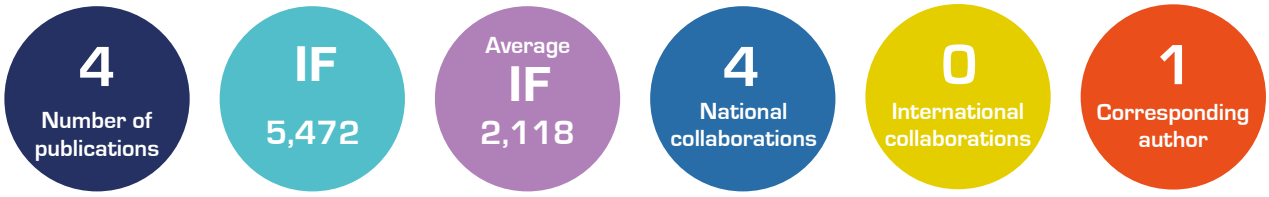
1. Scurt M, Balint L, Mijaica R. Improving body mass index in students with excess weight through a physical activity programme. Children. 2022 Oct 27;9(11):1638. doi: 10.3390/children9111638. PMID: 36360366. IF: 2,835

2. Panach-Navarrete J, Valls-Gonzalez L, Gil-Viana R, Martinez-Jabaloyas J. Renal cyst after heminephrectomy in a pediatric patient: complication or normality?. Archivos Espanoles de Urologia. 2022 Nov;75(9):803-806. doi: 10.56434/j.arch.esp.urol.20227509.117. PMID: 36472064. IF: 0,43

3. Panach-Navarrete J, Martinez-Montava E, Gil-Viana R, Valls-Gonzalez L, Martinez-Jabaloyas J. Early ultrasound after endoscopic puncture of ureterocele: signs that show surgical treatment success. Archivos Espanoles de Urologia. 2022 Aug;75(6):567-571. doi: 10.37554/es-j.arch.esp.urol-20210119-3532-31. PMID: 36138507. IF: 0,43

Department of Thoracic Surgery

PUBLICATIONS

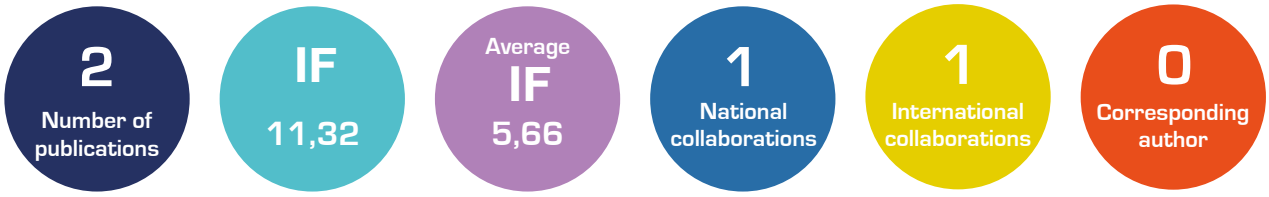


SELECTED PUBLICATIONS

1. Recuero Diaz JL, Almanzar S, Munoz C, Sierra J, Porras M, Medina D, Vicuna M, Moreno L, Cantalejo M, Porcel J. Recommendations of the Spanish Society of Thoracic Surgery for the management of malignant pleural effusion. Cirugia Espanola. 2022 Nov;100(11):673-683. doi: 10.1016/j.cireng.2022.06.009. PMID: 35667609. IF: 2,242
2. Cilleruelo Ramos Á, Figueroa Almánzar S, López Castro R, Martínez Hernández NJ, Mezquita Pérez L, Moreno Casado P, Zabaleta Jiménez J. Spanish Society of Thoracic Surgery (SECT) consensus document. Long-term follow-up for operated patients with lung cancer. Cirugia Espanola. 2022 Jun;100(6):320-328. doi: 10.1016/j.cireng.2022.05.024. PMID: 35643357. IF: 2,242
3. Rodriguez-Perez M, Tung-Chen Y, Herrera-Cubas R. Detection and semiquantification of pneumothorax through lung ultrasound: case report of a COVID-19 patient. Enfermedades Infecciosas y Microbiologia Clinica (English ed.). 2022 Nov;40(9):524-525. doi: 10.1016/j.eimce.2022.06.004. PMID: 35750584. IF: 1,994
4. Rodriguez-Perez M, Tung-Chen Y, Herrera-Cubas R. Deteccion and semiquantification of pneumothorax through lung ultrasound: case report of a COVID-19 patient. Enfermedades Infecciosas y Microbiologia Clinica. 2022 Nov;40(9):524-525. doi: 10.1016/j.eimc.2021.12.004. PMID: 35017770. IF: 1,994

Department of Traumatology and Orthopedic Surgery

PUBLICATIONS



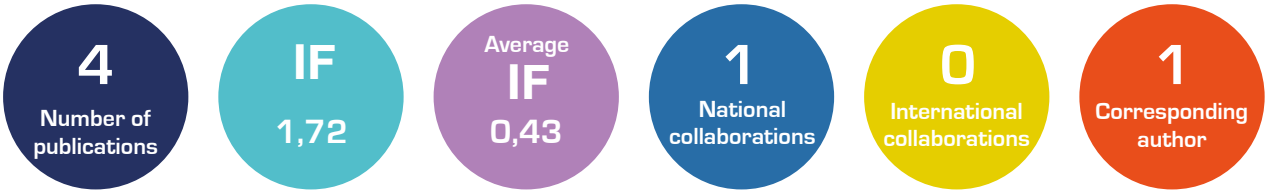
SELECTED PUBLICATIONS

1. Henn M, Martin-Gorgojo V, Martin-Moreno J. Vitamin D in cancer prevention: gaps in current knowledge and room for hope. Nutrients. 2022 Oct 27;14(21):4512. doi: 10.3390/nu14214512. PMID: 36364774. IF: 6,706
2. Martin-Moreno JM, Alegre-Martinez A, Martin-Gorgojo V, Alfonso-Sanchez JL, Torres F, Pallares-Carratala V. Predictive models for forecasting public health scenarios: practical experiences applied during the first wave of the COVID-19 Pandemic. International Journal of Environmental Research and Public Health. 2022 May 3;19(9):5546. doi: 10.3390/ijerph19095546. PMID: 35564940. IF: 4,614

scientific activity

Department of Urology

PUBLICATIONS

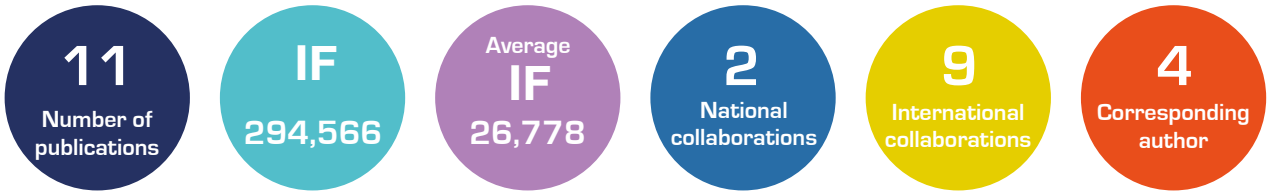


SELECTED PUBLICATIONS

1. Panach-Navarrete J, Martinez-Montava E, Gil-Viana R, Valls-Gonzalez L, Martinez-Jabaloyas J. Early ultrasound after endoscopic puncture of ureterocele: signs that show surgical treatment success. Archivos Espanoles de Urologia. 2022 Aug;75(6):567-571. doi: 10.37554/es-j.arch.esp.urol-20210119-3532-31. PMID: 36138507. IF: 0,43
2. Negueroles-Garcia M, Pastor-Hernandez F, Martinez-Jabaloyas J. Emergency radical nephrectomy in a polytrauma patient. Archivos Espanoles de Urologia. 2022 Oct;75(8):736-737. doi: 10.56434/j.arch.esp.urol.20227508.107. PMID: 36330577. IF: 0,43
3. Panach-Navarrete J, Valls-Gonzalez L, Gil-Viana R, Martinez-Jabaloyas J. Renal cyst after heminephrectomy in a pediatric patient: complication or normality?. Archivos Espanoles de Urologia. 2022 Nov;75(9):803-806. doi: 10.56434/j.arch.esp.urol.20227509.117. PMID: 36472064. IF: 0,43
4. Negueroles-Garcia M, Panach-Navarrete J, Martinez-Jabaloyas J. The use of urokinase in urinary catheter obstructed by clots. Archivos Espanoles de Urologia. 2022 Jan;75(1):82-86. doi: 10.37554/es-j.arch.esp.urol-20210317-3534-33. PMID: 35173068. IF: 0,43

Teaching and Dissemination of Knowledge Unit

PUBLICATIONS



SELECTED PUBLICATIONS

1. Henn M, Martin-Gorgojo V, Martin-Moreno JM. Vitamin D in cancer prevention: gaps in current knowledge and room for hope. Nutrients. 2022 Oct 27;14(21):4512. doi: 10.3390/nu14214512. PMID: 36364774. IF: 6,706
2. Cantarero-Prieto D, Lera J, Lanza-Leon P, Barreda-Gutierrez M, Guillem-Porta V, Castelo-Branco L, Martin-Moreno JM. The economic burden of localized prostate cancer and insights derived from cost-effectiveness studies of the different treatments. Cancers. 2022 Aug 24;14(17):4088. doi: 10.3390/cancers14174088. PMID: 36077625. IF: 6,575
3. Lopes H, Baptista-Leite R, Franco D, Serra MA, Escudero A, Martín-Moreno JM. Let's end HepC: modelling public health epidemiological policies applied to Hepatitis C in Spain. Frontiers in Public Health. 2022 Jan 7;9:735572. doi: 10.3389/fpubh.2021.735572. PMID: 35071151. IF: 6,461
4. Pallares-Carratala V, Carratala-Munuera C, Lopez-Pineda A, Quesada JA, Gil-Guillen V, Orozco-Beltran D, Alfonso-Sanchez JL, Navarro-Perez J, Martin-Moreno JM. Characterizing diagnostic inertia in arterial hypertension with a gender perspective in primary care. Frontiers in Cardiovascular Medicine. 2022 Jun 16;9:874764. doi: 10.3389/fcvm.2022.874764. PMID: 35783866. IF: 5,848
5. Pardavila-Belio MI, de la O V, Hershey MS, Barbería-Latasa M, Toledo E, Martin-Moreno JM, Martínez-González MÁ,

Ruiz-Canela M. Joint association of the Mediterranean diet and smoking with all-cause mortality in the Seguimiento Universidad de Navarra (SUN) cohort. Nutrition. 2022 Nov-Dec;103-104:111761. doi: 10.1016/j.nut.2022.111761. PMID: 35843044. IF: 4,893

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PI18/01937
Title: *Desigualdades por genero derivadas de la inercia diagnóstica en los factores más prevalentes de riesgo cardiovascular: un estudio de cohortes de base poblacional (ESCAARVAL GENERO)*
Principal Investigator: José María Martín Moreno
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2022
Total budget: €33.880

4.5 Other scientific contributions from scientific platforms

4.5.1 Biobank

Team

biobanco@incliva.es

PI:

Antonio Ferrández Izquierdo. Hospital. University.

Collaborating researcher:

Lorena Peiró Chova. INCLIVA

Technicians

Olga Bahamonde Ponce. INCLIVA

Àngela Bañuls Alemany. INCLIVA

Laura Blasco Maza. INCLIVA

Marta Belda Moscardó. INCLIVA

ACTIVITIES DEVELOPED

Incorporation of samples in pre-existing collections within the biobank regime in 2022:

Oncological Node:

- Collection of solid tumors: 71 new sample donations
- Collection of peripheral blood and derivative products in patients suffering from breast cancer (including cases of Aurk-Seom project): 535 new sample donations
- Collections of peripheral blood and derivative products in patients suffering from lung cancer: 213 new sample donations
- Collection of peripheral blood and derivative products in patients suffering from melanoma: no new sample donations
- Collection of peripheral blood and derivative products in patients suffering from gastrointestinal cancer (including colorectal, pancreatic and gastric cancer, and cases of TFK project): 1271 new sample donations
- Collection of peripheral blood and derivative products in patients suffering from head and neck tumors: 252 new sample donations
- Collections of peripheral blood and derivative products in patients suffering from brain tumors: no new sample donations
- Collections of peripheral blood and derivative products in patients suffering from gynecological tumors (including cases of Aurk-Seom project): 17 new sample donations
- Collections of peripheral blood and derivative products in patients suffering from sarcoma: no new sample donations
- Collections of peripheral blood, derivative products and urine in patients suffering from bladder cancer: no new sample donations
- Hereditary Cancer Collection: peripheral blood and derivative products in patients suffering from this pathology: 3 new sample donations

Immunological Diseases Node:

- Collection of peripheral blood and derivative products in patients suffering from Systemic Lupus Erythematosus or other autoimmune diseases: 13 new sample donations

Cardiovascular Node:

- Collection of peripheral blood and derivative products and urine in patients suffering from Hyperaldosteronism: no new sample donations
- Collection of peripheral blood and derivative products in patients suffering from Hypertension: no new sample donations
- Collection of peripheral blood and derivative products and urine in patients suffering from Acute heart failure: 5 new sample donations
- Collection of peripheral blood and derivative products in patients suffering from ST-segment elevation myocardial infarction: 58 new sample donations

Endocrinology Node:

- Collection of peripheral blood and derivative products and urine in patients suffering from endocrine diseases (DM1, DM2 and controls): 135 new sample donations

Reproductive Medicine Node:

- Single Cell Cryopreserved Human Endometrial Sample Collection; viable cells from endometrial biopsy or from endometrial fluid taken from women at different phases of their menstrual cycle: no new sample donations

Other collections:

- Collection of peripheral blood and derivative products in patients suffering from sepsis gravis, septic shock and non-septic patients from ICU: 22 new sample donations
- Collection of peripheral blood and derivative products in patients suffering from Multiple Sclerosis: no new cases
- Collection of peripheral blood and derivative products and urine in standard population (including cases of Obenoutec subcollection): no new sample donations
- Collection of peripheral blood and derivative products in patients suffering from COVID-19 disease and follow-up: no new cases

- Collection of peripheral blood and derivative products in patients suffering from Pulmonary Emphysema disease: 52 new sample donations
- COVID-19 Vaccinated Collection; peripheral blood mononuclear cells from standard population vaccinated against COVID-19 disease: 97 new sample donations

Incorporation of new collections within the biobank regime in 2022:

- Collection of peripheral blood and derivative products in patients suffering from acute coronary syndrome: 47 sample donations
- Collection of peripheral blood and derivative products in patients suffering from atrial fibrillation: 12 sample donations

In summary, 2803 new sample donations have been received, 13709 samples have been processed and 61203 aliquots have been stored in 2022 at INCLIVA Biobank facilities from collections within biobank regime.

In addition, the Biobank has surplus diagnostic samples from the HCUV Pathology and Hematology services that may be used in research provided they have the corresponding Biobank Informed Consent.

Incorporation of samples in pre-existing collections outside the biobank regime in 2022. The collections are outside the organizational structure of the biobank and they are generated in the scope of projects and/or private clinical trials. The biobank manages the storage and custody of the samples, as well as the processing of the same in some cases.

- Amadix Study: processing, conservation and shipment of processed samples for the "PancreaDIX study: study for the development and validation of a genetic fingerprint for the diagnosis of pancreatic cancer and precursor lesions". AMD-CPA-2016-01: 6 new sample donations
- Renas Study: processing, conservation and shipment of processed samples for the study "Effect of CPAP on the deterioration of renal function in early stages of chronic kidney disease". 195/2015: custody of 2 cryoboxes
- Rolando Study: processing, conservation and shipment of processed samples for translational study within the framework of the ROLANDO trial "Multicenter and uncontrolled phase II clinical trial to evaluate the safety and efficacy of the combination of Olaparib and Pegylated Liposomal Doxorubicin (DLP) in patients with peritoneal carcinoma primary ovarian and resistant platinum fallopian tubes". GEICO-1601 ROLANDO: custody of 8 cryoboxes
- European LEGACy Project: processing, conservation and shipment of processed samples for this project: 95 new sample donations
- ALFAΩMEGA/PEGASUS Study: processing, conservation and shipment of processed samples for this clinical trial: 181 sample donations
- Diabetic Nephropathy study: processing, conservation and shipment of processed samples for the study "Early detection of histological lesions in nephrectomy pieces of diabetic patients. Anatomo-clinical correlation. Analysis of the expression of Klotho in healthy kidney tissue vs tumor tissue": 5 new sample donations
- NIKOLE Study (GEICAM/2018-03): processing, conservation and shipment of processed samples for the clinical trial "Characterization of innate immune system in patients with luminal advanced breast cancer": 36 new sample donations
- VERONA Study (RPL554-CO-302): processing, conservation and shipment of processed samples for the clinical trial "A Phase III randomized, double-blind, placebo-controlled study to evaluate the efficacy and safety of Ensifentrine over 24 weeks in patients with moderate to Severe Chronic Obstructive Pulmonary Disease": 9 new sample donations (Finished study)
- HIPRA HH-2 Study: processing, conservation and shipment of processed samples for the clinical trial "A phase IIb, double-blind, randomised, active-controlled, multicentre, non-inferiority trial followed by a phase III, single-arm, open-label trial to assess immunogenicity and safety of a booster vaccination with a recombinant protein RBD fusion dimer candidate (PHH-1V) against SARS-CoV-2 in adults fully vaccinated against COVID-19": 198 new sample donations
- TRANSPAIRE Study: processing, conservation and shipment of processed samples for the study "Radiofrequency-assisted pancreatic transection vs endostapler": 2 new sample donations
- Cytosorb Study: processing, conservation and shipment of processed samples for the study "Hemoabsorption with Cytosorb vs usual clinical practice to analyze its effect on kidney damage biomarkers in asystole donation controlled with ECMO": 11 sample donations

Incorporation of new collections outside the biobank regime in 2022:

- CONREN study: processing, conservation and shipment of processed samples for the study "Congestion as a catalyst for the progression of chronic kidney disease": 89 sample donations
- GSK3511294 Study: processing, conservation and shipment of processed samples for the clinical trial "A 52-week, randomised, double-blind, placebo-controlled, parallel-group, multi-centre study of the efficacy and safety of GSK3511294 adjunctive therapy in adult and adolescent participants with severe uncontrolled

asthma with an eosinophilic phenotyper": 36 sample donations

- WA42293 Study: processing, conservation and shipment of processed samples for the clinical trial "A Phase 3 randomized, double-blind, placebo-controlled trial to evaluate the efficacy and safety of PRM-151 in patients with Idiopathic Pulmonary Fibrosis (IPF)": 26 sample donations
- OBERON Study: processing, conservation and shipment of processed samples for the clinical trial "A Phase III, multicentre, randomised, double-blind, chronic-dosing, parallel-group, placebo-controlled study to evaluate the efficacy and safety of two dose regimens of MEDI3506 in participants with symptomatic Chronic Obstructive Pulmonary Disease (COPD) with a history of COPD Exacerbations (OBERON)": 6 sample donations
- HIPRA-HH-2 phase IIb Study: processing, conservation and shipment of processed samples for the clinical trial "A phase IIb, double-blind, randomised, active-controlled, multicentre, non-inferiority trial followed by a phase III, single-arm, open-label trial to assess immunogenicity and safety of a booster vaccination with a recombinant protein RBD fusion dimer candidate (PHH-1V) against SARS-CoV-2 in adults fully vaccinated against COVID-19 followed by an extension period to study a fourth dose administration of PHH-1V": 72 sample donations
- HIPRA-HH-5 Study: processing, conservation and shipment of processed samples for the clinical trial "A phase III, open label, single arm, multi-centre, trial to assess the safety and immunogenicity of a booster vaccination with a recombinant protein RBD fusion heterodimer candidate (PHH-1V) against SARS-CoV-2, in adults vaccinated against COVID-19": 504 sample donations
- CIRCULATE-SPAIN-01 Study: processing, conservation and shipment of processed samples for the clinical trial "Phase II randomized trial to assess the effect of intensive vs standard adjuvant chemotherapy in localized colon cancer with circulating tumor DNA": 110 sample donations
- AFM-24-101 Study: processing, conservation and shipment of processed samples for the clinical trial "A phase 1/2a open label, multicenter study to assess the safety, tolerability, pharmacokinetics and preliminary efficacy of AFM24 in patients with advanced solid cancers": 27 sample donations
- AFM-24-102 Study: processing, conservation and shipment of processed samples for the clinical trial "A phase 1/2a open label, multicenter study to assess the safety, tolerability, pharmacokinetics, and efficacy of AFM24 in combination with atezolizumab in patients with selected advanced/metastatic EGFR-expression cancers": 13 sample donations
- HFB-200301-01 Study: processing, conservation and shipment of processed samples for the clinical trial "A phase I, open-label, multi-center, dose escalation and expansion study of HFB200301 (TNFR2 agonist antibody) in adult patients with advanced solid tumors": 5 sample donations.

In summary, 1432 new sample donations have been received, 4106 samples have been processed and 9651 aliquots have been stored in 2022 at INCLIVA Biobank facilities from studies outside biobank regime. In addition, 7034 aliquots have been supplied to these studies in 2022.

Transfer of samples

Project	Ref./Agency	Principal Researcher, Institution	Samples
BBI_12/2018 and BBI_10/2020 Identification and analysis of image and circulating biomarkers with prognostic value and response predictor in patients with head and neck squamous cell carcinoma	NA / INCLIVA	Gema Bruixola, HCUV/ INCLIVA	Head and neck tumors: 529 plasma aliquots and 28 DNA aliquots
BBI_06/2019 and BBI_03/2020 Usefulness of liquid biopsy and organoids in the management and treatment of pancreatic adenocarcinoma: towards precision medicine	NA, *Fundación Mutua Madrileña*	Andrés Cervantes, HCUV/ INCLIVA	Pancreatic cancer: 256 plasma aliquots and 36 DNA aliquots

BBI_09/2019 Personalized Medicine in patients with localized colorectal cancer: multiomic approach to minimal residual disease in liquid biopsy and organoid models	PI18/01909 / ISCIII	Andrés Cervantes, HCUV/ INCLIVA	Gastrointestinal tumors: 40 plasma aliquots
BBI_11/2020 and BBI_08/2021 Epigenetic biomarkers for sepsis. Focus on long-term immunosuppression and future comorbidities in survivors	PI19/00994 / ISCIII	José Luis García Giménez, CIBERER, INCLIVA/UV	Sepsis and Septic Shock: 100 plasma aliquots, 9 serum aliquots and 70 DNA aliquots
BBI_07/2021 and BBI_13_2021 Study of the appearance of pulmonary fibrotic changes associated with SARS-CoV-2 infection	COV20/01209 / ISCIII	Jaime Signes-Costa, HCUV	COVID-19 Collection: 69 DNA aliquots and 138 serum aliquots
BBI_16/2021 Linking cofilin, an actin-binding protein, to calcium dysregulation: a precision approach to the treatment of Friedreich's Ataxia	PID2020-115190RB-I00, *Ministerio de Ciencia e Innovación*	Pilar González Cabo, CIBER, INCLIVA/UV	Standard population: 34 plasma aliquots
BBI_01/2022 Evaluation of the involvement of MIR-99A in the resistance to treatment in breast cancer. Addendum v3: relationship of miR-30b-5p expression with plasma estradiol concentrations	NA / INCLIVA	Pilar Eroles Asensio, INCLIVA	Breast cancer: 67 plasma aliquots; Standard population: 32 plasma aliquots
BBI_02/2022 Characterization and approach of minimal residual disease in localized colon cancer: a step towards precision medicine	PI21/00689 / ISCIII	Noelia Tarazona Llavero, INCLIVA	Gastrointestinal tumors: 11 FFPE samples (slides) and 457 plasma aliquots
BBI_03/2022 Role of P53 ferroptosis and redox signaling via NOX/TRP14 in acute pancreatitis and pancreatic regeneration	PID2019-108615RB-I00, *Ministerio de Ciencia, Innovación y Universidades*	Juan José Sastre Belloch, UV	Pancreatic cancer: 14 FFPE samples (slides)
BBI_04/2022 Molecular characterization of lymphoid neoplasms B. Development of useful biomarkers in the diagnosis and monitoring of the disease	NA / INCLIVA	Javier Chaves, INCLIVA	Chronic lymphoproliferative syndromes: 311 DNA aliquots
BBI_05/2022 Tests based on spike-in peptides and mass spectrometry for the quantification of histones circulating cells and APC protein, for the clinical management of critically ill patients	DTS21/00193 / ISCIII	José Luis García Giménez, CIBER, INCLIVA/UV	Transplantation and lymphoproliferative syndromes: 284 plasma aliquots

BI_06/2022 Effect of COVID-19 infection on telomer length and mitochondrial function parameters and its relationship with the evolution to idiopathic pulmonary fibrosis	GVA-COVID19/2021/028, *Generalitat Valenciana*	Federico V. Pallardó Calatayud, INCLIVA	COVID-19 Collection: 130 plasma aliquots
BBI_07/2022 Study of IMP-3 as a potential plasmatic biomarker of melanoma progression	NA / INCLIVA	Mª Isabel Pinazo Canales, HCUV	Melanoma: 82 plasma aliquots
BBI_08/2022 Identification of non-coding RNAs in liquid biopsy with emphasis on exosomes as activity prognosis biomarkers in systemic lupus erythematosus. Physiopathological role in renal damage	PI21/00249, ISCIII	Raquel Cortés Vergaz / María José Forner, INCLIVA / HCUV	Systemic Lupus Erythematosus: 61 plasma aliquots and 30 serum aliquots
BBI_09/2022 Renal congestion in acute heart failure and cardiorenal syndrome: non-invasive assessment using renal vascular Doppler	PI20/00392, ISCIII	Julio Núñez, INCLIVA	Acute heart failure: 126 urine aliquots
BBI_10/2022 GEICAM's participation in Confluence Project with the male breast cancer registry (GEICAM/2016-04). Analysis of CMV genetic risk factors using genetic sequencing	NA / GEICAM, NCI	Marina Pollán Santamaría, ISCIII	No samples delivered
BBI_11/2022 Role of somatic mutations and clonal hematopoiesis in the progression of heart failure	PI20/00677, ISCIII	Domingo Pascual Figal, IMIB-Arrixaca	No samples delivered

In summary, 2914 aliquots were transferred in 2022.

In addition, 249 aliquots have been processed and delivered to provide specialized technical services to the following research projects:

SERV01/2022 "Study of the appearance of pulmonary fibrotic changes associated with SARS-CoV-2 infection": management of external samples from collaborating centers, 89 serum aliquots delivered.

SERV02/2022 "Identification and validation of biomarkers using omics and artificial intelligence for sepsis prognosis neonatal": 48 DNA isolations.

SERV03/2022 "Effect of COVID-19 infection on telomer length and mitochondrial function parameters and its relationship with the evolution to idiopathic pulmonary fibrosis": 71 DNA isolations and 47 PBMCs/buffy aliquots delivered.

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PT20/00029

Title: Biobanks and Biomodels Platform

Principal Investigator: Antonio Ferrández Izquierdo

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2023

Total Budget: €265.650

PUBLICATIONS

Note that these are 2022 scientific publications derived from the use of samples or services provided by the biobank.

1. Safont B, Tarraso J, Rodriguez-Borja E, Fernández-Fabrellas E, Sancho-Chust JN, Molina V, Lopez-Ramirez C, Lope-Martinez A, Cabanes L, Andreu AL, Herrera S, Lahosa C, Ros JA, Rodriguez-Hermosa JL, Soriano JB, Moret-Tatay I, Carbonell-Asins JA, Mulet A, Signes-Costa J. Lung function, radiological findings and biomarkers of fibrogenesis in a cohort of COVID-19 patients six months after hospital discharge. Archivos de Bronconeumología (Engl Ed). 2022 Feb;58(2):142-149. doi: 10.1016/j.arbres.2021.08.014. PMID: 34497426

2. Henriksen TV, Tarazona N, Frydendahl A, Reinert T, Gimeno-Valiente F, Carbonell-Asins JA, Sharma S, Renner D, Hafez D, Roda D, Huerta M, Roselló S, Madsen AH, Løve US, Andersen PV, Thorlacius-Ussing O, Iversen LH, Gotschalck KA, Sethi H, Aleshin A, Cervantes A, Andersen CL. Circulating tumor DNA in stage III colorectal cancer, beyond minimal residual disease detection, toward assessment of adjuvant therapy efficacy and clinical behavior of recurrences. Clinical Cancer Research. 2022 Feb 1;28(3):507-517. doi: 10.1158/1078-0432.CCR-21-2404. PMID: 34625408

3. García de Guadiana-Romualdo L, Rodríguez Rojas C, Morell-García D, Andaluz-Ojeda D, Rodríguez Mulero MD, Rodríguez-Borja E, Ballesteros-Vizoso A, Calvo MD, Albert-Botella L, Pozo Giráldez A, Llompart-Alabern I, Bolado Jiménez C, Hernández Olivo M, Fernández Presa L, Ortega-Pérez J, Fora Romero MJ, Campos-Rodríguez V, Ballester Férriz A, Guiu-Martí AM, Pinilla Arribas L, Galindo Martínez M, Puerto-Lara ER, López Tarazaga AB, Ros Braquehais MS, Nogales Martín L, Juez Santamaría C, Trapiello Fernández W, Espinilla Fernández V, Havelka A, Albaladejo-Otón MD. Circulating levels of calprotectin, a signature of neutrophil activation in prediction of severe respiratory failure in COVID-19 patients: a multicenter, prospective study (CalCov study). Inflammation Research. 2022 Jan;71(1):57-67. doi: 10.1007/s00011-021-01516-4. PMID: 34718856

4. Beltrán-García J, Osca-Verdegal R, Jávega B, Herrera G, O'Connor JE, García-López E, Casabó-Vallés G, Rodriguez-Gimillo M, Ferreres J, Carbonell N, Pallardó FV, García-Giménez JL. Characterization of early peripheral immune responses in patients with sepsis and septic shock. Biomedicines. 2022 Feb 23;10(3):525. doi: 10.3390/biomedicines10030525. PMID: 35327327

5. Sánchez-Sendra B, González-Muñoz JF, Pérez-Debén S, Monteagudo C. The prognostic value of miR-125b, miR-200c and miR-205 in primary cutaneous malignant melanoma is independent of BRAF Mutational Status. Cancers. 2022 Mar 16;14(6):1532. doi: 10.3390/cancers14061532. PMID: 35326682

6. López-Guerrero JA, Mendiola M, Pérez-Fidalgo JA, Romero I, Torres A, Recalde D, Molina E, Gómez-Raposo C, Levin AM, Herrero A, Alarcón J, Esteban C, Marquina G, Rubio MJ, Guerra E, Sánchez-Lorenzo L, Gálvez-Montosa F, de Juan A, Churruca C, Gallego A, González-Martín A. Prospective real-world gynaecological cancer clinical registry with associated biospecimens: a collaborative model to promote translational research between GEICO and the Spanish Biobank Network. Cancers. 2022 Apr 13;14(8):1965. doi: 10.3390/cancers14081965. PMID: 35454870

7. Gargallo P, Molero M, Bilbao C, Stuckey R, Carrillo-Cruz E, Hermosín L, Pérez-López O, Jiménez-Velasco A, Soria E, Lázaro M, Carbonell P, Yáñez Y, Gómez I, Izquierdo-García M, Valero-García J, Ruiz C, Such E, Calabria I. Next-generation DNA sequencing-based gene panel for diagnosis and genetic risk stratification in onco-hematology. Cancers. 2022 Apr 14;14(8):1986. doi: 10.3390/cancers14081986. PMID: 35454892

8. Luque M, Cristóbal I, Sanz-Álvarez M, Santos A, Zazo S, Eroles P, Arpí O, Rovira A, Albanell J, Madoz-Gúrpide J, García-Foncillas J, Rojo F. CIP2A as a key regulator for AKT phosphorylation has partial impact determining clinical outcome in breast cancer. Journal of Clinical Medicine. 2022 Mar 14;11(6):1610. doi: 10.3390/jcm11061610. PMID: 35329936

9. Pérez-Núñez I, Rozalén C, Palomeque JÁ, Sangrador I, Dalmau M, Comerma L, Hernández-Prat A, Casadevall D, Menendez S, Liu DD, Shen M, Berenguer J, Ruiz IR, Peña R, Montañés JC, Albà MM, Bonnin S, Ponomarenko J, Gomis RR, Cejalvo JM, Servitja S, Marzese DM, Morey L, Voorwerk L, Arribas J, Bermejo B, Kok M, Pusztai L, Kang Y, Albanell J, Celià-Terrassa T. LCOR mediates interferon-independent tumor immunogenicity and responsiveness to immune-checkpoint blockade in triple-negative breast cancer. Nature Cancer. 2022 Mar;3(3):355-370. doi: 10.1038/s43018-022-00339-4. PMID: 35301507

10. Provenzano M, Puchades MJ, Garofalo C, Jongs N, D'Marco L, Andreucci M, De Nicola L, Gorriz JL, Heerspink HJL; ROTATE-3 study group. Albuminuria-lowering effect of dapagliflozin, eplerenone, and their combination in patients with chronic kidney disease: a randomized cross-over clinical trial. Journal of the American Society of Nephrology. 2022 Aug;33(8):1569-1580. doi: 10.1681/ASN.2022020207. PMID: 35440501

11. Sánchez-Sendra B, Pérez-Debén S, González-Muñoz JF, Murgui A, Monteagudo C. Prognostic value of IGF2 mRNA-binding protein 3 (IGF2BP3) intratumoral expression in melanoma patients at the time of diagnosis: comparative analysis of RT-qPCR versus immunohistochemistry. Cancers. 2022 May 7;14(9):2319. doi: 10.3390/cancers14092319. PMID: 35565448

12. Cabeza-Segura M, Gambardella V, Gimeno-Valiente F, Carbonell-Asins JA, Alarcón-Molero L, González-Vilanova A, Zuñiga-Trejos S, Rentero-Garrido P, Villagrasa R, Gil M, Durá A, Richart P, Alonso N, Huerta M, Roselló S, Roda D, Tarazona N, Martínez-Ciarpaglini C, Castillo J, Cervantes A, Fleitas T. Integrative immune transcriptomic classification improves patient selection for precision immunotherapy in advanced gastro-oesophageal adenocarcinoma. British Journal of Cancer. 2022 Dec;127(12):2198-2206. doi: 10.1038/s41416-022-02005-z. PMID: 36253523

13. Adam-Artigues A, Arenas EJ, Martínez-Sabadell A, Brasó-Maristany F, Cervera R, Tormo E, Hernando C, Martínez MT, Carbonell-Asins J, Simón S, Poveda J, Moragón S, Zazo S, Martínez D, Rovira A, Burgués O, Rojo F, Albanell J, Bermejo B, Lluch A, Prat A, Arribas J, Eroles P, Cejalvo JM. Targeting HER2-AXL heterodimerization to overcome resistance to HER2 blockade in breast cancer. Science Advances. 2022 May 20;8(20):eabk2746. doi: 10.1126/sciadv.abk2746. PMID: 35594351

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17. Beltrán-García J, Osca-Verdegal R, García-Giménez JL, Pallardó FV. Oxidative stress leads to severe phenotypes in sepsis through activation of NLRP3-pyroptosis. Redox Experimental Medicine. 2022; 1: R84-R95. doi.org/10.1530/REM-22-0006.

Book Chapter: Jesús Beltrán-García, Rebeca Osca-Verdegal, Salvador Mena-Mollá, Marta Seco-Cervera, Lorena Peiró-Chova, José Luis García-Giménez, Pierre Laurent-Puig, Andrés Cervantes. Chapter 2: Translational epigenetics in precision medicine of colorectal cancer. Epigenetics in Precision Medicine, Volume 30 in Translational Epigenetics 2022, Pages 19-41.

THESIS

Note that these are 2022 thesis derived from the use of samples or services provided by the biobank.

Thesis title: *Establecimiento de organoides derivados de pacientes con carcinoma colorrectal como modelo para cribado de drogas con acción antitumoral*
Doctoral candidate: Mª Fernanda Gutiérrez Bravo
Director(s): Josefa Castillo Aliaga, Andrés Cervantes Ruipérez
Date of the defense: 04/02/2022
Grade: *Sobresaliente "cum laude"*

Thesis title: *Significado pronóstico de la expresión del factor de crecimiento endotelial vascular (VEGF) y de genes implicados en las vías de señalización del VEGF en pacientes con leucemia aguda mieloblástica*
Doctoral candidate: Marisa Calabuig Muñoz
Director(s): Mar Tormo Díaz, Carlos Solano Vercet
Date of the defense: 04/05/2022
Grade: *Sobresaliente "cum laude"*

4.5.2 Oncology Phase I Oncology Clinical Trials unit

Team

PI:

Andres Cervantes Ruipérez. Hospital. University

Medical doctors

Alba Viala Monleón. Hospital
Amelia Insa Mollá. Hospital
Begoña Bermejo de las Heras. Hospital. University
Cristina Hernando Meliá. Hospital
Desamparados Roda Pérez. Hospital
Gema Bruixola Campos. Hospital
Inés González Barrallo. Hospital.
Isabel Chirivella González. Hospital. University
José Vicente Montón Bueno. Hospital
Jose A. Pérez Fidalgo. Hospital. University
Juan Miguel Cejalvo Andújar. Hospital
Marisol Huerta Álvaro. Hospital
Paloma Martín Martorell. Hospital
Susana Roselló Keranen. Hospital
Tania Fleitas Kanonnikoff. Hospital
Valentina Gambardella. Hospital

Nurses

Arantxa Sánchez Cosmo. INCLIVA
Cecilia Ramón Mascarell. INCLIVA
Gloria Corredor Agulló. INCLIVA
Guillermo Morín Pedrosa. INCLIVA
Inma Blasco Blasco INCLIVA
Laura Ávila Fernández. INCLIVA
Laura Martínez Lucía. INCLIVA
María Isabel Calzadilla Luz. INCLIVA
Nuria Aguado Machancoses. INCLIVA
Paula Martínez Lucas. INCLIVA
Silvia Moreno Magraner. INCLIVA

Data Managers

Alejandro Asturiano. INCLIVA
Ana Vercher Grau. INCLIVA
Andrea Pascual Herrero. INCLIVA
Beatriz López Montero. INCLIVA.
Guillermo Moret Peiró. INCLIVA
Ignacio Castaño López. INCLIVA
Júlia Soler Flores. INCLIVA.
Mª Carmen Martínez López. INCLIVA
Sergio Romero Alcaide. INCLIVA

Administrative assistants

Paloma Campos. INCLIVA
Paula Petruskevicius Fernández. INCLIVA

INCLIVA is the only hospital in Valencia performing Phase I cancer clinical trials, and one of the few in Spain. Phase I trials are those in which a substance or product is tested in humans for the first time.

INCLIVA is conducting, through the Oncology Department, 234 clinical trials, 151 of them related to treatment in the early stages of testing (69 phase I or "first in human" and 82 phase II). INCLIVA's new facilities provide a full floor and a half specifically dedicated to host the unit.

The unit aims to develop and select new drugs through clinical trials and to perform studies related to the pathogenesis, prognosis and new experimental therapies in solid tumors.

scientific activity

FUNCTIONS

The unit implements early clinical trials with experimental agents in the field of Oncology.

EQUIPMENTS

- -80º C Freezer
- -20º C Freezer
- 2 Refrigerated desktop centrifuge
- Scientific refrigerator
- Conventional fridge
- Defibrillator
- Electrocardiographic equipment
- 7 monitors (blood pressure, heart rate and 02 saturation)
- 7 double medication infusion pumps
- 7 heads gases (oxygen and vacuum)

LOCATION

The following facilities are located on the second floor:

- Reception and waiting room
- 2 Consulting rooms
- Staff room
- Meeting room
- Therapy room

The third floor hosts the following facilities:

- Clinical trials office
- Monitoring room
- Clinical trials archives

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: CIRCULATE-SPAIN-01

Title: Phase II randomized trial to assess the effect of intensive vs standard adjuvant chemotherapy in localised colon cancer with circulating tumor DNA

Principal Investigator: Andrés Cervantes Ruipérez

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2026

Total budget: €1.039.967,68

4.5.3. Spanish Clinical Research Network (SCReN), Clinical Research and Clinical Trials of the Clinical Trials Platform (UICEC INCLIVA)

Team

PI:

Andrés Cervantes Ruipérez. Hospital. University

Associated Members:

Esteban Jesús Morcillo Sánchez. Hospital. INCLIVA
José Enrique Muñoz Cebriá. INCLIVA
Juan Antonio Carbonell Asins. Hospital. INCLIVA
Julio Núñez Villota. Hospital. INCLIVA
Luis Sabater Ortí. Hospital. INCLIVA
Marta Peiró Signes. INCLIVA
Patricia Caunedo Almagro. INCLIVA
Verónica Guillot Yacyszyn. INCLIVA

Hired Members:

Ana Portolés Monzón. INCLIVA
Mercedes Peris Costá. INCLIVA
Mireya Ferrandis Martínez. INCLIVA

UICEC participates in all activities related with the correct development of observational studies and clinical trials, in accordance with the applicable legal regulations and the standards of good clinical practice.

Currently, the portfolio of services includes, among others, the following activities:

1. Methodological and regulatory advice: collaboration tasks in the drafting of the protocol, CRF, Patient Information Sheet and Informed Consent and all documentation necessary for the correct development of the study in accordance with applicable regulations.
2. Start-up activities: in this phase the Unit collaborate with economic viability evaluation; identification and selection of participating sites; submission to national and local Authorities and Ethics Committee; contract management with the participating sites; monitoring plan; master file creation.
3. Development activities: project management activities, notifications; processing of amendments, interim analysis and reports; home visits; maintenance of file and monitoring visits.
4. Completion and closure activities: close-out visits; resolution of queries, elaboration of final reports, closure notifications to national and local Authorities and Ethics Committees.

ACTIVITIES DEVELOPED

During 2022, UICEC has collaborated with the development of the following clinical trials, interventional and observational studies:

Clinical trials /Interventional Studies

Study: SEVO-COVID19
Title: Sevoflurane versus propofol sedation in patients with acute respiratory distress syndrome caused by COVID19 infection
EUDRACT: 2020-001379-34
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: IV (Low intervention clinical trial)

Study: SOLIDARITY
Title: An international randomised trial of additional treatments for COVID-19 in hospitalised patients who are all receiving the local standard of care
EUDRACT: 2020-001366-11
Sponsor: *Ministerio de Sanidad, Consumo y Bienestar Social*
Phase: IV

Study: ESR-17-13447(DAPA-HF)
Title: Short-term effects of Dapagliflozin on Peak VO2 in patients with heart failure with reduced ejection fraction
EUCRACT: 2018-002614-12
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: IV

Study: ELECLA
Title: Analysis of the effectiveness of neoadjuvant chemotherapy in treating colon cancer locally advanced
EUCRACT: 2016-002970-10
Sponsor: Jorge Arredondo Chávez, Complejo Asistencial Universitario de León
Phase: IV (Low interventional clinical trial)

Study: LINES
Title: European Low and Intermediate Risk Neuroblastoma
EUCRACT: 2010-021396-81
Sponsor: *Fundación para la Investigación Hospital Universitario y Politécnico La Fe*
Phase: III

Study: RAPIDO
Title: Randomized Multicentre Phase III study of short course radiation therapy followed by prolonged pre-operative chemotherapy and surgery in primary high risk rectal cancer compared to standard chemoradiotherapy and surgery and optional adjuvant chemotherapy
EUCRACT: 2010-023957-12
Sponsor: UMCG, Groningen, The Netherlands
Phase: III

Study: HaploMUDStudy
Title: Matched unrelated vs. haploidentical donor for allogeneic stem cell transplantation in patients with acute leukemia with identical GVHD prophylaxis – a randomized prospective European trial
Sponsor: University Medical Center Hamburg-Eppendorf Investigator Initiated Trial (IIT) (financial support by DKMS)
Phase: Non Observational with no drugs study

Study: PANGASBLUM
Title: Pancreatic anastomosis following pancreatoduodenectomy: pancreatogastrostomy versus bLumgart´s anastomosis. A randomized, prospective, multicenter study
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: Non Observational with no drugs study

Study: MOSCA FRAIL
Title: Randomized comparison between the invasive and conservative strategies in elderly frail patients with non-ST elevation myocardial infarction: the MOSCA-FRAIL Clinical Trial
Sponsor: Sociedad Española de Cardiología
Phase: Intervention clinical trial

Study: CETUPANC
Title: Impact of the dissemination of the circulating tumor cells (CTCS) during the cephal duodenopancreatomy at the appearance of metastasis and survival in patients with tumors of pancreas and periampulars (CETUPANC Study)
Sponsor: *Fundación Pública Andaluza para la Gestión en Salud de Sevilla (FISEVI)*
Phase: Interventional study

Study: FAIR
Title: Intravenous iron in patients with systolic heart failure and iron deficiency to improve morbidity & mortality (FAIR-HF2)
EUCRACT: 2016-000068-40
Sponsor: University Medical Center Hamburg-Eppendorf Investigator Initiated Trial (IIT) (financial support by DKMS)
Phase: IV

Study: COLICA
Title: Randomized double-blind trial to study the benefit of Colchicine in Patients with Acutely Decompensated Heart Failure (IMIB-CO-2020-01)
EUCRACT: 2020-000941-15
Sponsor: *Fundación para la Formación e Investigación Sanitarias de la Región de Murcia (FFIS)*
Phase: III

Study: ECACIKAGEL
Title: *Ensayo Clínico Aleatorizado triple ciego para la evaluación de la seguridad y eficacia de CikaGel ® en el tratamiento de las úlceras de pierna en pacientes sin Enfermedad Arterial Periférica*
Sponsor: Georges Klein
Phase: Clinical trial with Medical Device

Study: ASTARTÉ
Title: *Temociclina vs Meropenem para el tratamiento de la bactiremia por enterobacterales resistentes a cefalosprorinas de tercera generación: ensayo aleatorizado y pragmático*
EUCRACT: 2020-000064-39
Sponsor: *Fundación Pública para la Gestión de la Investigación en Salud de Sevilla (FISEVI)*
Phase: III

Study: CIRCULATE-SPAIN-01
Title: Phase II randomized trial to assess the effect of intensive vs standard adjuvant chemotherapy in localised colon cancer with circulating tumor DNA
EUDRACT: 2021-000507-20
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: II

Study: KEEP ON (ESR-19-20217)
Title: Phase III, multicenter, open-label, randomized clinical trial to evaluate efficacy of Sodium Zirconium Cyclosilicate (Lokelma) compared to standard of care to manage hyperkalemia in patients with chronic kidney disease (CKD) and heart failure history
EUDRACT: 2020-003229-47
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: III (Low intervention clinical trial)

Study: ROTATE
Title: Rotation for Optimal Targeting of Albuminuria and Treatment Evaluation (ROTATE-3)
EUCRACT: 2017-004641-25
Sponsor: University Medical Center Groningen
Phase: III

Study: FOVOCIP
Title: *Un ensayo aleatorizado multicéntrico de fosfomicina frente a ciprofloxacino para la neutropenia febril en pacientes hematológicos: eficacia y seguridad microbiológica*
EUCRACT: 2021-000354-25
Sponsor: *Fundación para la Investigación y la Innovación Biosanitaria del Principado de Asturias (FINBA)*
Phase: III

Observational studies

Study: INC-CVD-2020-01
Title: Study of the occurrence of fibrotic pulmonary changes associated with SARS-CoV-2 infection
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: NO- EPA

Study: DNO-IBR-2018-01
Title: Virology and immunology of cytomegalovirus (CMV) infection in patients with haematological malignancies in the time of new biotherapies
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: EPA-AS

Study: TFK-RAM-2018-01
Title: Macrophages associated with tumor, tumor angiogenesis and resistance to therapies in diffuse gastric cancer mesenchymal phenotype
Sponsor: Tania Fleitas Kanonnikoff
Phase: EPA-AS

Study: OPTIM- BIOMA FIS-ANT-2017-01
Title: Optimization of antibiotic treatment in recipients of allogeneic LIN transplantation: impact on the intestinal microbiota and on clinical results
Sponsor: *Fundación Pública Andaluza para la gestión de la Investigación en Salud de Sevilla (FISEVI)*
Phase: EPA-SP

Study: GOLD 0 -DLCO 1
Title: GOLD 0 - DLCO 1: A look beyond obstruction. Is spirometry sufficient in COPD screening?
Sponsor: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Phase: No-EPA

Study: JGT-FER-2020-01 (COCOON)
Title: *Efecto de la administración intravenosa de hierro carboximaltosa sobre el rendimiento físico, la fatiga y la calidad de vida en pacientes con enfermedad renal crónica no en diálisis y déficit de hierro*
Sponsor: José Luis Górriz Teruel
Phase: EPA-SP

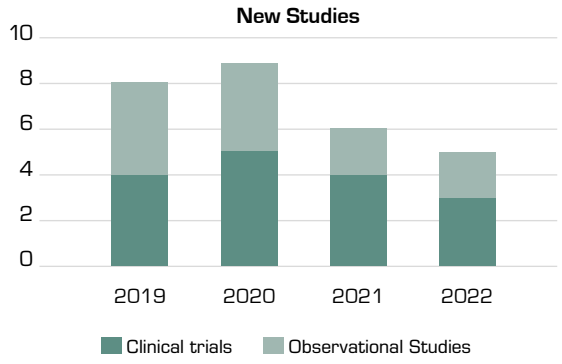
Study: HK-01-21
Title: *Evidencia en la vida real del uso de patiromer para el tratamiento de pacientes con hiperpotasemia crónica en una región de España*
Sponsor: Fundación Investigación Hospital Clínico Universitario de Valencia
Phase: EPA-OD

4 scientific activity

UNIT ACTIVITY DURING LAST 4 YEARS

During the last four years, the unit has initiated 28 studies (16 clinical trials and 12 observational studies). The following table shows its distribution by year.

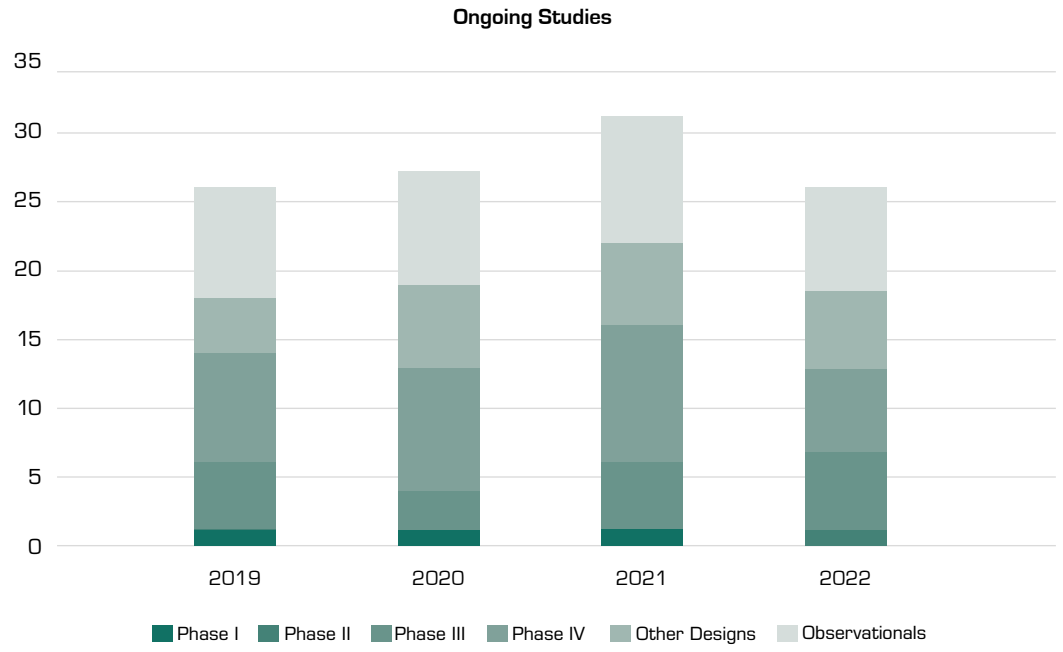
	Clinical trials	Observational Studies	**Total**
2019	4	4	**8**
2020	5	4	**9**
2021	4	2	**6**
2022	3	2	**5**



Despite the total number of studies is decreased in 2022, it is important to notice that from 2020 on, it is shown a clear tendency in increasing the number of clinical trials comparing to observational studies, which is very positive due to the complexity of this type of clinical studies.

As accumulative activity, new and ongoing studies, the Unit maintains an average of 27 active studies, per year.Their distribution by type of study and year is detailed in the following table.

	2019	2020	2021	2022
Phase I	1	1	1	0
PhaseII	0	0	0	1
Phase III	5	3	6	6
Phase IV	8	9	10	6
Clinical Trials Other Designs	4	6	6	5
Observationals	8	8	9	8
Total	**26**	**27**	**32**	**26**



RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: PT20/0100

Title: Spanish Clinical Research Network (SCReN)

Principal Investigator: Andrés Cervantes Ruipérez

Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2021-2023

4.5.4. Precision medicine unit

Team

ump@incliva.es

PI:

Andrés Cervantes Ruipérez. Hospital. University

Coordinator:

Pilar Rentero Garrido. INCLIVA

Collaborating researchers:

Desamparados Roda Pérez. Hospital

Valentina Gambardella. INCLIVA

Technicians:

Enrique Seda García. INCLIVA

Laura González Castillo. INCLIVA

Laura Olivares Ordóñez. INCLIVA

Sebastián Blesa Luján. INCLIVA

The Precision Medicine Unit was stablished in March 2018. Since then, the group have developed a robust and wide portfolio of services to support research at INCLIVA.

To date, the unit closely collaborates with the Oncology Phase I Clinical Trial Unit. Together we have developed an integrated screening system to support personalized patient care and hence implementing the latest techniques into the clinical practice. In addition, the unit currently collaborates in several research projects from different groups at INCLIVA.

The group integrates professional profiles from multiple disciplines (Medical Oncology, Molecular Biology, Bioinformatics and Biochemistry) with large professional experience in Human Genetics and Genomics.

FUNCTIONS

Our mission is to impulse, promote and execute quality translational research offering support in Molecular Biology as well as in Data Analysis techniques to the scientific community.

LABORATORY EQUIPMENT

- Two massive sequencers with Illumina chemistry: MiSeq and NextSeq550
- iScan System to scan Illumina microarrays
- nanoString n-Counter platform
- Biorad ddPCR
- Chromium Single Cell System (10X Genomics)
- Glomax Discovery System (Promega)
- Maxwell RSC (Promega)
- Quantitative thermalcycler
- Standard thermalcyclers
- TapeStation system to visualize DNA and RNA
- Laminar cabins, centrifuges, heat blocks, ovens, etc.

LOCATION

- Laboratories: *Facultad de Medicina. Avenida Blasco Ibáñez* 15, Building 2, 2nd floor, UCIM Corridor, Laboratory 1

SERVICES

1. Next-Generation Sequencing (NGS):
- Design, development, validation and sequencing of custom gene panels
- Exome sequencing and analysis
- Whole-genome sequencing
- Sequencing small genomes “de novo”
- RNA-sequencing (total RNA, poly(A) fraction, rRNA depleted...)
- Microtranscriptome sequencing (smallRNA/miRNA...)

2. Microarrays:
- Genotyping arrays
- Methylation arrays

3. Digital PCR
4. nanoString platform
5. Chromium Single Cell System (10X genomics)
6. Other molecular biology techniques:
- Nucleic acid isolation
- Nucleic acid quantification (absorbance and fluorescence)
- Luminiscence analysis
- Uniplex and Multiplex PCR
- Quantitative PCR

7. Additional services:
- Advice and methodological support in writing protocols, research project proposals, scientific papers
- Mentoring of bachelor, master and doctorate students
- On demand training
- Consulting services

DEVELOPED ACTIVITIES

2500 oncologic patients have been molecularly tested to select the best treatment

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: ICI20/00009
Title: Circulating tumor DNA based decision for adjuvant treatment in colon cancer stage II-III (CIRCULANTE-SPAIN)
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Instituto de Salud Carlos III* - Co-financed FEDER
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2024
Total budget: €1.039.970

Title: Precision medicine in oncology: development of new technological approaches for personalized treatments in Inmunotherapy
Principal Investigator: Desamparados Roda and Sheila Zúñiga
Funding Body: *Fundación FERO*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €300.000

Title: *Factores derivados del microambiente tumoral en cáncer de colon localizado: impacto clínico e implicaciones terapéuticas*
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Fundación AECC*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €1.000.000

Title: *Valor pronóstico y predictivo de respuesta del microambiente del cáncer gástrico en personas jóvenes. Proyecto VERO*
Principal Investigator: Tania Fleitas Kanonnikoff
Funding Body: GEMCAD
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2022-2024
Total budget: €20.000

Title: Tumor microenvironment-derived factors in localized colon cancer: clinical impact and therapeutic implications (TUMMIC)
Principal Investigator: Andrés Cervantes Ruipérez
Funding Body: *Fundación AECC*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2025
Total budget: €992.996

Title: Colorectal carcinogenesis: the interaction of the tumor microenvironment and stem cells. Impact on personalized treatment
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *Fundación Mutua Madrileña*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €130.000

Title: Whole exome sequencing of circulating tumor DNA and genomic DNA to increase sensitivity in the detection of minimal residual disease and open new mechanisms for personalized medicine in localized colon cancer
Principal Investigator: Noelia Tarazona Llavero
Funding Body: SEOM
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €20.000

Title: Patient derived organoids (PDOs) to personalize the treatment of relapsed localized colon cancer (CC) by sequencing the whole exome and genomic DNA
Principal Investigator: Noelia Tarazona Llavero
Funding Body: TTD
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €40.000

4 scientific activity

PUBLICATIONS

1. Álvarez L, Marín-García PJ, Rentero-Garrido P, Llobat L. Immune and genomic analysis of boxer dog breed and its relationship with Leishmania infantum infection. Veterinary Science. 2022 Nov 2;9(11):608. doi: 10.3390/vetsci9110608. PMID: 36356085

2. Cabeza-Segura M, Gambardella V, Gimeno-Valiente F, Carbonell-Asins JA, Alarcón-Molero L, González-Vilanova A, Zuñiga-Trejos S, Rentero-Garrido P, Villagrasa R, Gil M, Durá A, Richart P, Alonso N, Huerta M, Roselló S, Roda D, Tarazona N, Martínez-Ciarpaglini C, Castillo J, Cervantes A, Fleitas T. Integrative immune transcriptomic classification improves patient selection for precision immunotherapy in advanced gastro-oesophageal adenocarcinoma. British Journal of Cancer. 2022 Dec;127(12):2198-2206. doi: 10.1038/s41416-022-02005-z. PMID: 36253523

3. Domingo-Relloso A, Bozack A, Kiihl S, Rodriguez-Hernandez Z, Rentero-Garrido P, Casasnovas JA, Leon-Latre M, Garcia-Barrera T, Gomez-Ariza JL, Moreno B, Cenarro A, de Marco G, Parvez F, Siddique AB, Shahriar H, Uddin MN, Islam T, Navas-Acien A, Gamble M, Tellez-Plaza M. Arsenic exposure and human blood DNA methylation and hydroxymethylation profiles in two diverse populations from Bangladesh and Spain. Environmental Research. 2022 Mar;204(Pt B):112021. doi: 10.1016/j.envres.2021.112021. PMID: 34516978

4.5.5. Bioinformatics Unit

Team

Coordinator

Sheila Zúñiga Trejos. INCLIVA

Technicians

Fabián Robledo Yagüe. INCLIVA

Francisco Martínez Picó. INCLIVA

José Francisco Català Senent. INCLIVA

Pilar Natividad López. INCLIVA

The unit is mainly dedicated to collaborating on various research projects, providing advice and support to researchers in the design, implementation of workflows, development of computational strategies and data analysis.

EQUIPMENT

INCLIVA has its own Data Processing Center (DPC) which houses different servers with a total capacity of 350 CPUs, 700 execution threads, 6.5 TB of ECC RAM, ~350 TB of redundant HDD storage, 20 TB of solid-state storage (SSD) and more than 600 TB of secondary storage for backups. In addition, the DPC has servers with CUDA parallelized computing capabilities supported by two Nvidia A40 GPUs.

In addition, and as part of the Valencian biomedical research community, we also had access to a large computing facility hosted at the *Centro de Investigation Príncipe Felipe* to cope with large projects.

ACTIVITY

In 2022, 1151 samples were analyzed for diagnostic purposes for the Phase I Clinical Trial Unit and the Haematology Department in 114 different services. In addition, we analyzed 531 samples in 80 different services related to multiple projects.

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Title: Precision medicine in oncology: development of new technological approaches for personalized treatments in Inmunotherapy

Principal Investigator: Sheila Zúñiga and Desamparados Roda

Funding Body: Fundación FERO

Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*

Duration: 2019-2024

Total budget: €540.000

THE UNIT HAS SUPPORTED THE FOLLOWING PROJECTS

Project	Funding Body	Principal Researcher	Supporting Activities
Precision medicine in oncology: development of new technological approaches for personalized treatments in Immunotherapy	*Fundación FERO*	Sheila Zúñiga and Desamparados Roda	Analysis of 555 samples with a custom gene panel
ICI20/00009. Circulating Tumor DNA based decision for adjuvant treatment in colon cancer stage II-III (CIRCULANTE-SPAIN)	*Instituto de Salud Carlos III* - Co-financed FEDER	Andrés Cervantes	Analysis of 121 samples with custom gene panel to identify SNVs and small indels in FFPE tumor samples

PI20/1107. Neuroblastoma: mechanotherapeutic strategies based on 3D model and patient derived tumor with vitronectin rich microenvironment	*Instituto de Salud Carlos III* - Co-financed FEDER	Rosa Noguera	Analysis of 51 samples with a custom gene panel to identify SNVs, small indels and CNVs in FFPE tumor samples
PRV00097. RED53	Janssen	María José Terol Casterá	Analysis of 552 samples with three different custom gene panel to identify SNVs and small indels in blood samples to study haematologic malignancies
2021/049. *Factores clínico-biológicos y genéticos asociados al riesgo de trombosis en la Mielofibrosis*	*Instituto de Salud Carlos III* - Co-financed FEDER	Juan Carlos Hernández Boluda	Development and validation of a panel for cDNA capture in a customized panel and analysis of 8 samples
2020/184. *Carcinogénesis colorrectal: la interacción del microambiente tumoral y las células madre. Impacto en el tratamiento personalizado*	*Fundación Mutua Madrileña*	Noelia Tarazona	Development and validation of a gene panel for methylation analysis and analysis of 20 samples. Analysis of 5 samples with a custom gene pane
PI19/00169. *Papel de los procesos inflamatorios en las enfermedades metabólicas y en las complicaciones asociadas*	*Instituto de Salud Carlos III* - Co-financed FEDER	Herminia González	RNASeq data analysis for 12 samples
IMP/00019. *Infraestructura de Medicina de Precisión asociada a la Ciencia y la Tecnología*. IMPaCT - Data	*Instituto de Salud Carlos III* - Co-financed FEDER	Alfonso Valencia (BSC). Coordinator INCLIVA - Sheila Zúñiga	To develop a common, interoperable and integrated system for data collection and analysis
PI18/01909. *Medicina personalizada en pacientes con cáncer colorrectal localizado: abordaje multiómico de la Enfermedad Mínima Residual en biopsia líquida y modelos de organoides*	*Instituto de Salud Carlos III* - Co-financed FEDER	Andrés Cervantes	Integration of proteomics and transcriptomics data
EDGJID/2021/053. *Consolidación de las plataformas centrales vinculadas a la Medicina de Precisión*	*Conselleria de Innovación, Universidades, Ciencia y Sociedad Digital*	Sheila Zúñiga	Development of new core services in the field of Precision Medicine

PUBLICATIONS

1. Cabeza-Segura M, Gambardella V, Gimeno-Valiente F, Carbonell-Asins JA, Alarcón-Molero L, González-Vilanova A, Zuñiga-Trejos S, Rentero-Garrido P, Villagrasa R, Gil M, Durá A, Richart P, Alonso N, Huerta M, Roselló S, Roda D, Tarazona N, Martínez-Ciarpaglini C, Castillo J, Cervantes A, Fleitas T. Integrative immune transcriptomic classification improves patient selection for precision immunotherapy in advanced gastro-oesophageal adenocarcinoma. British Journal of Cancer. 2022 Dec;127(12):2198-2206. doi: 10.1038/s41416-022-02005-z. PMID: 36253523

4.5.6. Biostatistics Unit

Team

Coordinator:

Juan Antonio Carbonell Asins. INCLIVA

Technician:

Carlos Peña de los Santos. INCLIVA

The Biostatistics Unit is a core facility created in 2022. The unit is mainly dedicated to collaborate in different research projects, providing statistical advice and support to researchers in the design, workflow implementation, development of their research projects.

FUNCTIONS

Our mission is to drive, promote and execute quality clinical and translational research through methodological and analytical support.

EQUIPMENT

INCLIVA has a computing facility with 100 cores, 400GB of RAM memory 80TB of redundant network storage and 20TB of fast non-redundant local storage to the nodes for high I/O processes such as those applied to omics data analysis.

SERVICES

- Design of clinical and epidemiological studies
- Sample size estimation
- Simulation techniques
- Supervised and unsupervised analysis techniques
- Predictive modelling
- Advice and methodological support to write protocols, research project proposals, articles, doctoral/MSc/BSc thesis
- Data mining and exploratory analysis of databases
- Graphical representation of research results
- Curation and analysis of databases
- Consulting

RESEARCH PROJECTS AND GRANTS FOR RESEARCH

Reference: 825832 – LEGACy
Title: CELAC and European consortium for a personalized medicine approach to Gastric Cancer
Principal investigator: Andrés Cervantes Ruipérez
Funding Body: European Commission
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2019-2023
Total Budget: €3.577.431,27 (INCLIVA: €638.315)

Title: *Secuenciación del exoma completo del DNA tumoral circulante y DNA genómico para aumentar la sensibilidad en la detección de la enfermedad mínima residual y abrir nuevas vías para la medicina personalizada en cáncer de colon localizado*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *Sociedad Española de Oncología Médica (SEOM)*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2021-2023
Total budget: €20.000

Title: *Organoides derivados de pacientes (PDOs) para personalizar el tratamiento en recaídas de cáncer de colon (CC) localizado mediante secuenciación del exoma completo y del DNA genómico*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *TTD Grupo de Tumores Digestivos*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2022
Total budget: €40.000

Title: C*arcionogénesis colorrectal: la interacción el microambiente tumoral y las células madre. Impacto en el tratamiento personalizado*
Principal Investigator: Noelia Tarazona Llavero
Funding Body: *Fundación Mutua Madrileña*
Beneficiary Institution: *Fundación Investigación Hospital Clínico Universitario de Valencia*
Duration: 2020-2023
Total budget: €130.000

PUBLICATIONS

1. D'Marco L, Puchades M, Escudero-Saiz V, Gimenez-Civera E, Terradez L, Moscardo A, Carbonell-Asins J, Perez-Bernat E, Torregrosa I, Moncho F, Navarro J, Gorriz J. Renal histologic findings in necropsies of Type 2 Diabetes Mellitus patients. Journal of Diabetes Research. 2022 Sep 6;2022:3893853. doi: 10.1155/2022/3893853. PMID: 36110834

2. Tarraso J, Safont B, Carbonell-Asins JA, Fernandez-Fabrellas E, Sancho-Chust JN, Naval E, Amat B, Herrera S, Ros JA, Soler-Cataluna JJ, Rodriguez-Portal JA, Andreu AL, Marin M, Rodriguez-Hermosa JL, Gonzalez-Villaescusa C, Soriano JB, Signes-Costa J. Lung function and radiological findings 1 year after COVID-19: a prospective follow-up. Respiratory Research. 2022 Sep 12;23(1):242. doi: 10.1186/s12931-022-02166-8. PMID: 36096801

3. Vina J, Escudero J, Baquero M, Cebrian M, Carbonell-Asins J, Munoz J, Satorres E, Melendez J, Ferrer-Rebolleda J, Cozar-Santiago M, Santabarbara-Gomez J, Jove M, Pamplona R, Tarazona-Santabalbina F, Borras C. Genistein effect on cognition in prodromal Alzheimer's disease patients. The GENIAL clinical trial. Alzheimer's Research & Therapy. 2022 Nov 4;14(1):164. doi: 10.1186/s13195-022-01097-2. PMID: 36329553

4. Adam-Artigues A, Arenas E, Martinez-Sabadell A, Braso-Maristany F, Cervera R, Tormo E, Hernando C, Martinez M, Carbonell-Asins J, Simon S, Poveda J, Moragon S, Zazo S, Martinez D, Rovira A, Burgues O, Rojo F, Albanell J, Bermejo B, Lluch A, Prat A, Arribas J, Eroles P, Cejalvo J. Targeting HER2-AXL heterodimerization to overcome resistance to HER2 blockade in breast cancer. Science Advances. 2022 May 20;8(20):eabk2746. doi: 10.1126/sciadv.abk2746. PMID: 35594351

5. Safont B, Tarraso J, Rodriguez-Borja E, Fernandez-Fabrellas E, Sancho-Chust JN, Molina V, Lopez-Ramirez C, Lope-Martinez A, Cabanes L, Andreu A, Herrera S, Lahosa C, Ros JA, Rodriguez-Hermosa JL, Soriano JB, Moret-Tatay I, Carbonell-Asins JA, Mulet A, Signes-Costa J. Lung function, radiological findings and biomarkers of fibrogenesis in a cohort of COVID-19 patients six months after hospital discharge. Archivos de Bronconeumologia. 2022 Feb;58(2):142-149. doi: 10.1016/j.arbres.2021.08.014. PMID: 34497426

6. Garcia-Vigara A, Cano A, Fernandez-Garrido J, Carbonell-Asins J, Tarin J, Sanchez-Sanchez M. Non-use of information and communication technology as a predictor of frailty in postmenopausal midlife and older women. Maturitas. 2022 Feb;156:60-64. doi: 10.1016/j.maturitas.2021.05.010. PMID: 34275701

7. Henriksen TV, Tarazona N, Frydendahl A, Reinert T, Gimeno-Valiente F, Carbonell-Asins JA, Sharma S, Renner D, Hafez D, Roda D, Huerta M, Rosello S, Madsen AH, Love US, Andersen PV, Thorlacius-Ussing O, Iversen LH, Gotschalck KA, Sethi H, Aleshin A, Cervantes A, Andersen CL. Circulating tumor DNA in stage III colorectal cancer, beyond minimal residual disease detection, towards assessment of adjuvant therapy efficacy and clinical behavior of recurrences. Clinical Cancer Research. 2022 Feb 1;28(3):507-517. doi: 10.1158/1078-0432.CCR-21-2404. PMID: 34625408

8. Tranah T, Ballester M, Carbonell-Asins J, Ampuero J, Alexandrino G, Caracostea A, Sanchez-Torrijos Y, Thomsen K, Kerbert A, Capilla-Lozano M, Romero-Gomez M, Escudero-Garcia D, Montoliu C, Jalan R, Shawcross D. Plasma ammonia levels predict hospitalisation with liver-related complications and mortality in clinically stable outpatients with cirrhosis. Journal of Hepatology. 2022 Dec;77(6):1554-1563. doi: 10.1016/j.jhep.2022.07.014. PMID: 35872326

9. Cabeza-Segura M, Gambardella V, Gimeno-Valiente F, Carbonell-Asins JA, Alarcon-Molero L, Gonzalez-Vilanova A, Zuniga-

Trejos S, Rentero-Garrido P, Villagrasa R, Gil M, Dura A, Richart P, Alonso N, Huerta M, Rosello S, Roda D, Tarazona N, Martinez-Ciarpaglini C, Castillo J, Cervantes A, Fleitas T. Integrative immune transcriptomic classification improves patient selection for precision immunotherapy in advanced gastro-oesophageal adenocarcinoma. British Journal of Cancer. 2022 Dec;127(12):2198-2206. doi: 10.1038/s41416-022-02005-z. PMID: 36253523



clini-cal trials

INCLIVA SCIENTIFIC REPORT 2022

5. Clinical trials and other studies

5.1 Activity of the Ethical Committee for investigation with medicinal products (CEIm)

5.2 Clinical research activity performed by Valencia Clínico-Malvarrosa Health Department

5.1. Activity of the Ethical Committee for investigation with medicinal products (CEIm)

The Ethical Committee for Investigation with Medicinal Products are an independent board with a multidisciplinary composition whose main purpose is to oversee the protection of the rights, safety and well-being of subjects participating in clinical studies and biomedical research projects.

As a result of its activity along 2022, the CEIm has processed a total of 28 studies (clinical trials and observational studies): 27 were positively valued, and 1 was negatively valued.

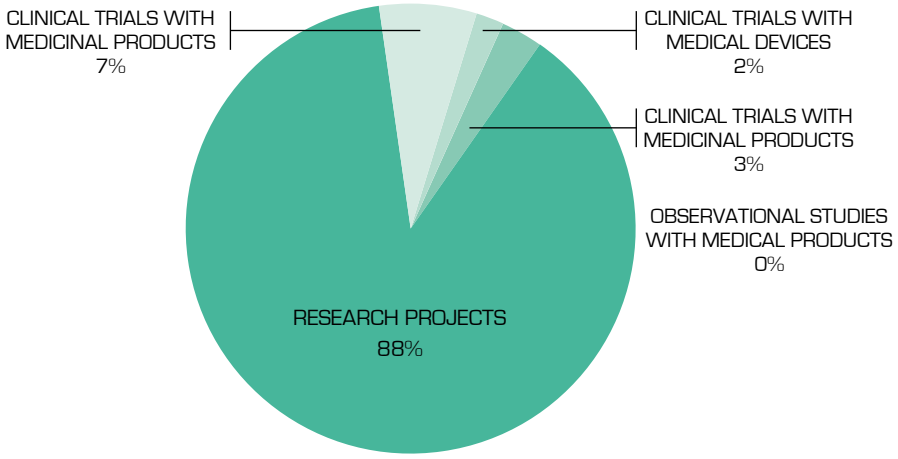
Of the 27 approved studies, 15 were approved in the first evaluation and 12 after requesting clarification to the promoter.

Of the 13 clinical trials with drugs evaluated, anyone has been evaluated through the Voluntary Harmonisation Procedure (VHP) process.

The following table shows the number of clinical trials and other studies according to their typology.

TYPES OF EVALUATED STUDIES		2022
CLINICAL TRIALS WITH MEDICINAL PRODUCTS		17
	Phase 0	0
	Phase I	3
	Phase II	10
	Phase III	4
	Phase IV	0
CLINICAL TRIALS WITH MEDICAL DEVICES		3
CLINICAL TRIALS WITH SUPPLEMENT		1
OBSERVATIONAL STUDIES WITH MEDICINAL PRODUCTS		6
OBSERVATIONAL STUDIES WITH MEDICAL DEVICES		1
RESEARCH PROJECTS		212
TOTAL		**240**

TYPES OF EVALUATED STUDIES



5 clinical trials

Distribution of the clinical studies depending on the department where they are performed is the following:

CLINICAL TRIALS BY DEPARTMENT	Nº
Anesthesiology and Reanimation	2
Cardiology	1
Dermatology	1
Endocrinology	2
General Surgery	1
Hematology	2
Nephrology	2
Neurology	1
Oncology	10
Pediatrics	2
Physical Medicine and Rehabilitation	1
Psychiatry	1
Tutelage	2
TOTAL	**28**

Distribution of the research projects depending on the department where they are performed is the following:

RESEARCH PROJECTS BY DEPARTMENT	Nº
Anesthesiology and Reanimation	13
Cardiology	29
Clinical Analysis and Clinical Biochemistry	2
Digestive Medicine	11
Emergencies	3
Endocrinology and Nutrition	6
External	3
General Surgery	15
Gynecology	3
Hematology	7
Incliva Research Groups	9
Infectious Diseases	3
Intensive Medicine	2
Internal Medicine	7
Microbiology	5
Nephrology	5
Neumology	5
Neurology	3
Nursery	6
Oncology	21
Ophthalmology	7
Oral and Maxillofacial Surgery	1
Orthopedic and Traumatology Surgery	5
Otorhinolaryngology	1

RESEARCH PROJECTS BY DEPARTMENT	Nº
Pathological Anatomy	3
Pediatrics	10
Primary Care	7
Phychiatry	4
Physiotherapy	3
Radiology	1
Traumatology	3
Urology	2
Others	7
TOTAL	**212**

5.2. Clinical research activity performed by Valencia Clínico-Malvarrosa Health Department

5.2.1. Activity during 2022

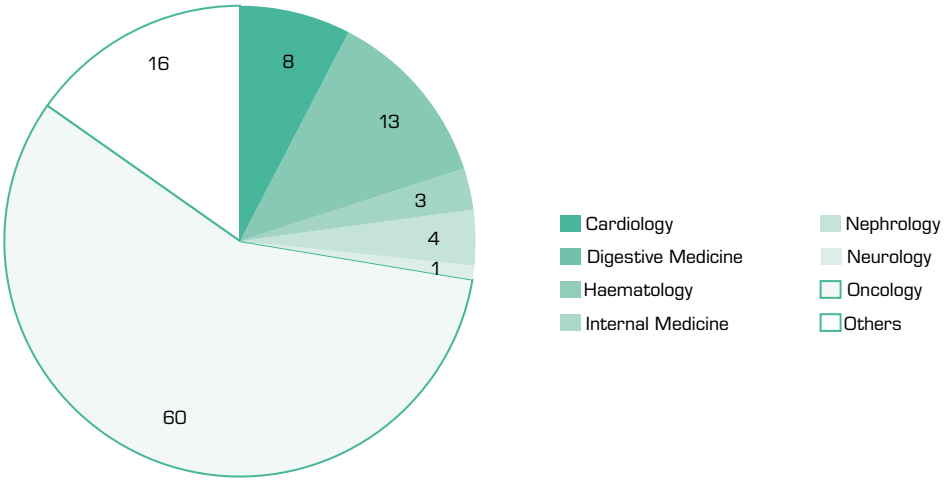
INCLIVA Biomedical Research Institute manages the clinical studies (trials, observational studies, and research projects) carried out by the *Hospital Clínico Universitario de Valencia* and the Valencia Clínico-Malvarrosa Health Department researchers.

As a result of its activity along 2022, the INCLIVA has managed a total of 105 studies (clinical trials and observational studies).

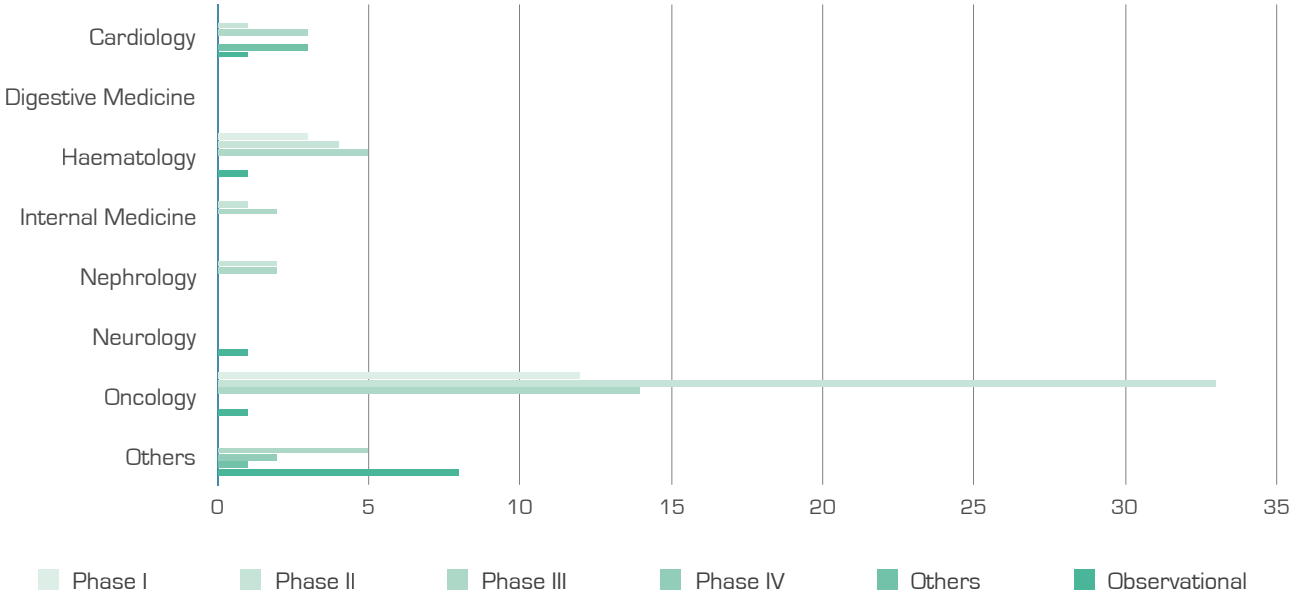
The distribution of these trials by phase is: Phase I: 15, Phase II: 41; Phase III: 31, Phase IV: 2, Observational studies: 12, others: 4. The following table shows the number of clinical trials and other studies according to their phase and department.

	Phase I	Phase II	Phase III	Phase IV	Others	Observational	**TOTAL**
Cardiology	0	1	3	0	3	1	**8**
Digestive Medicine	0	0	0	0	0	0	**0**
Haematology	3	4	5	0	0	1	**13**
Internal Medicine	0	1	2	0	0	0	**3**
Nephrology	0	2	2	0	0	0	**4**
Neurology	0	0	0	0	0	1	**1**
Oncology	12	33	14	0	0	1	**60**
Others	0	0	5	2	1	8	**16**
TOTAL	**15**	**41**	**31**	**2**	**4**	**12**	**105**

5 clinical trials



The Department of Medical Oncology leads the number of trials assested to INCLIVA. It is followed by the departments of Hematology, Cardiology. These three services make over 77 % of the total processed trials.



Regarding the distribution of studies per promoter, 11 trials are considered as Independent Clinical Research (trials from associations, groups, foundations, and private individuals), 1 of which has been promoted by researchers from the *Hospital Clínico Universitario de Valencia* and INCLIVA and the rest of them have been promoted by the pharmaceutical industry.

PROMOTOR	Nº
HOSPITAL CLÍNICO UNIVERSITARIO DE VALENCIA RESEARCHERS AND INCLIVA	1
INDEPENDENT CLINICAL RESEARCH	11
COMERCIAL RESEARCH	93

5.2.2 Assessment activity during last 5 years

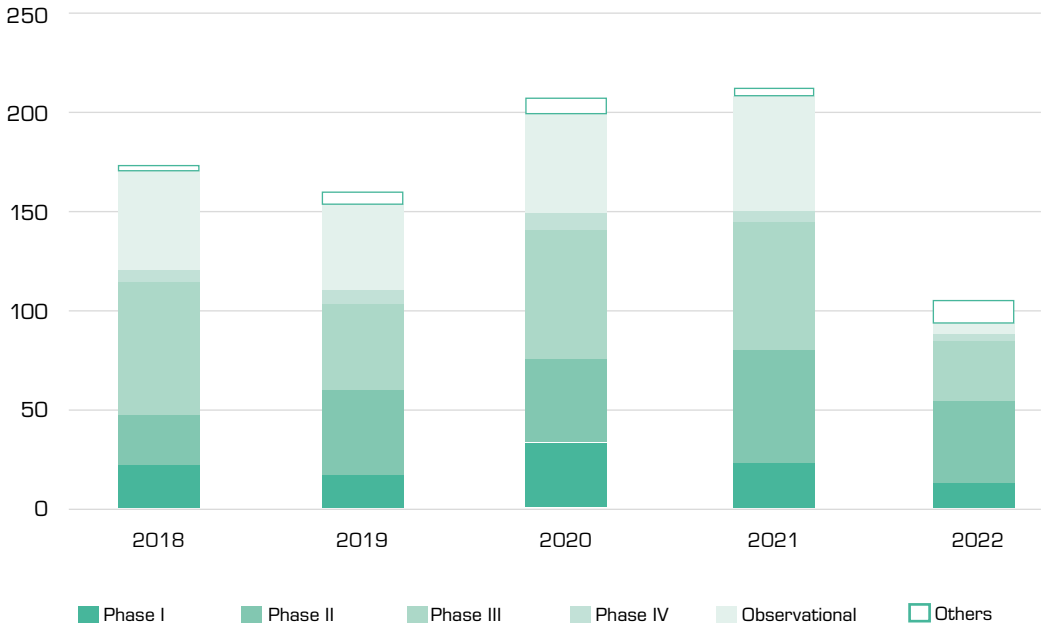
The table below shows the number of studies processed yearly.

Year	Processed studies
2018	172
2019	159
2020	206
2021	211
2022	105

One of INCLIVA's main goals is to develop clinical research at its early stages, thus contributing to translational research that moves scientific knowledge from bench to bedside. With this regard, during the period 2018-2022, Phase I and Phase II trials are prioritized and its number remains stable as shown in the table and graph below.

PHASE	2018	2019	2020	2021	2022
Phase I	22	17	33	24	15
Phase II	25	43	43	56	41
Phase III	67	43	64	67	31
Phase IV	5	7	8	3	2
Observational	51	42	50	57	4
Others	2	7	8	4	12

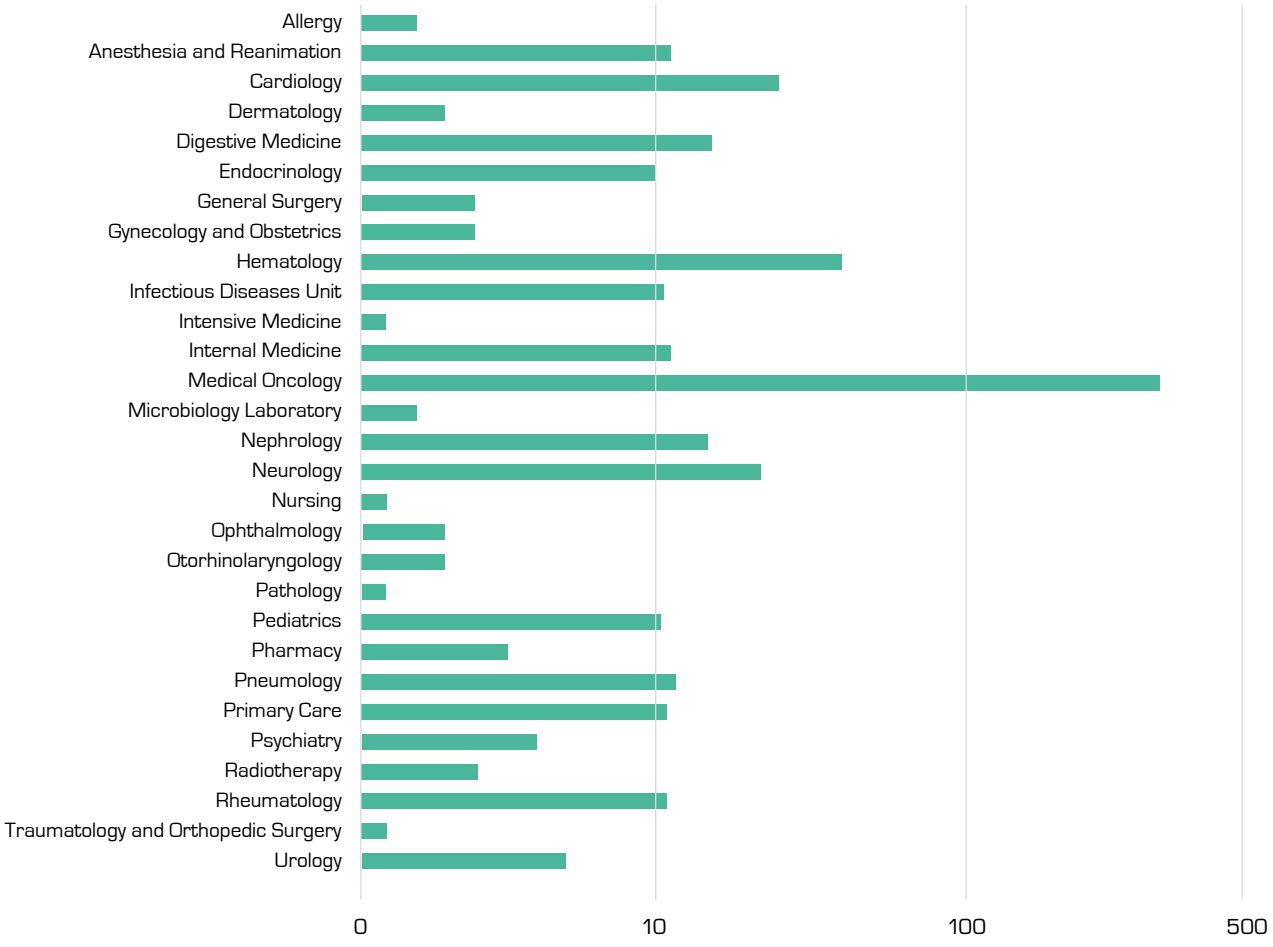
Evolution of clinical trial distribution by phase



5.2.3. Ongoing studies

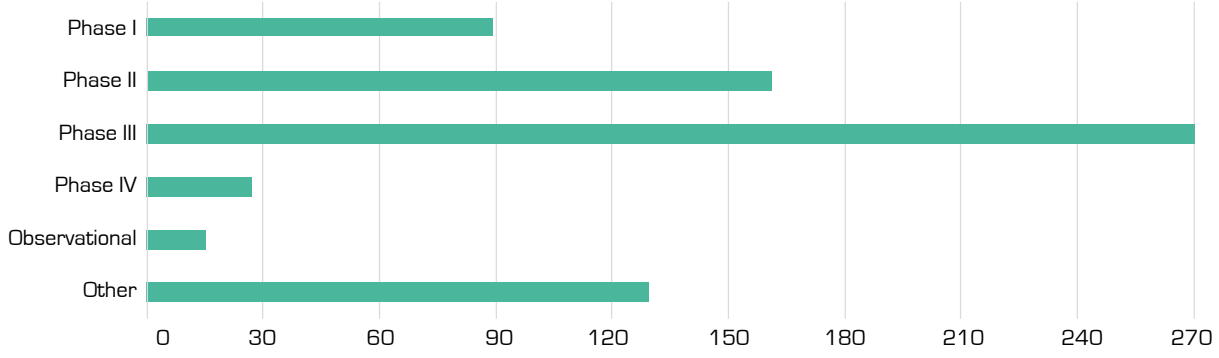
During 2022, 687 studies have been active. The distribution of clinical trials per department analyzed below uses a semilogarithmic scale due to the great difference between the Department of Medical Oncology and the rest of the Departments.

DEPARTMENT	Nº
Allergy	2
Anesthesia and Reanimation	14
Cardiology	50
Dermatology	3
Digestive Medicine	28
Endocrinology	10
General Surgery	4
Gynecology and Obstetrics	4
Hematology	70
Infectious Diseases Unit	12
Intensive Medicine	1
Internal Medicine	14
Medical Oncology	318
Microbiology Laboratory	2
Nephrology	27
Neurology	43
Nursing	1
Ophthalmology	3
Otorhinolaryngology	3
Pathology	1
Pediatrics	11
Pharmacy	5
Pneumology	16
Primary Care	13
Psychiatry	7
Radiotherapy	4
Rheumatology	13
Traumatology and Orthopedic Surgery	1
Urology	7
TOTAL	**687**



The distribution of ongoing trials and other studies according to their typology are the following:

PHASE	Nº
Phase I	89
Phase II	161
Phase III	270
Phase IV	27
Observational	13
Other	127




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initia-tives

6. Initiatives for research promotion
    6.1 Grants for external fellowships, Trainee students, Outgoing and Incoming Internships and new initiatives
    6.2 Training and teaching activities

6.1. Grants for external fellowships, Trainee students, Outgoing and Incoming Internships and new initiatives

To allow researchers to acquire new knowledge for clinical and research techniques, every year INCLIVA sponsors its Grants for research internships in centers of excellence. In 2022 the number of grants funded was 19.

List of beneficiaries and destination centers of the IIS INCLIVA Training Stays Grants during 2022:

José Vicente Arcos Machancoses
Sheffield's Children Hospital. Sheffield, United Kingdom

Manuel Cabeza Segura
Fox Chase Center. Philadelphia, USA

Juan Pablo Carrasco Picazo
Douglas Mental Health University Institute. McGill University. Montreal, Canada

Raquel Casaban Barberan
Centro Ditem. Buenos Aires, Argentina

Elena Domingo Pérez
Karolinska Institutet. Solna, Sweden

Esther García Domínguez
Institute for Health & Sport. Victoria University. Wellington, Australia

Ainhoa Natividad García Martín
Instituto Pasteur de Lille. Paris, France

Guillermo García Oriola
UW Health Neurosurgery Clinic. Wisconsin, USA

Soraya García Sorribes
Fundación Pública Galega de Medicina Xenómica. Santiago Compostela, Spain

Mª Carmen Gómez Cabrera
National Institute of Aging. Bethesda, USA

José Francisco González Muñoz
Hospital del Mar. Barcelona, Spain

Alba Machado López
Technical University of Denmark. Lyngby, Denmark

Gonzalo Núñez Marín
Instituto de Cardiología de Montreal. Montreal, Canada

Rebeca Osca Verdegal
Salk Institute. California, USA

Ana Belén Paes Martí
Inserm U1046, Université de Montpellier. Montpellier, France

Irene Pastor Escartín
Charité - Universitätsmedizin, Berlin. Germany

Sonia Puchades Latorre
Consulta Medicina General Dr. Biosca. Toulouse, France

Laura Quiles Higuero
Hospital Príncipe de Asturias. Alcalá de Henares, Spain

Isabel Trapero Gimeno
Karolinska Institutet. Solna, Sweden

OUTGOING INTERNSHIPS

Researchers from our IIS INCLIVA that during 2022 carried out external fellowships in foreign centers are shown in the following table:

Júlia Alcaide Pozo
The Douglas Research Centre. Montreal, Canada

Franc Casanova Ferrer
Universidad Complutense de Madrid. Madrid, Spain

Alessandra Fiorillo
University College of London. London, United Kingdom

Olga Martínez Arroyo
Universidad de Turin. Italy

Marta Pérez Rando
Fundación FIDMAG Hermanas Hospitalarias. Sant Boi de Llobregat, Spain

INCOMING INTERNSHIPS

The incoming researchers in 2022 are shown in the following table:

Jonathan Hermenejildo
University of Valencia (Spain) - Genomics and Diabetes Unit

Emir Sokolovid
Clinical Centre University of Sarajevo (Bosnia and Herzegovina) - Research Group of Innovative Diagnostic and Therapeutical Developments in solid tumors - InDeST

Michael Lucj
University of Masaryk (Czech Republic) - Research Group on Epigenomics and Translational Epigenetics

Jose Mª Guijarro Nuez
Imperial College of London (United Kingdom) - Research Group on Heart Failure

Paola Mejía
Instituto Nacional de Enfermedades Neoplásicas (Peru) - Research Group of Innovative Diagnostic and Therapeutical Developments in solid tumors-InDeST

TRAINEE STUDENTS

There is a table attached that includes the number of students of Vocational Qualification, Degree or Master accepted during 2022 in INCLIVA. They have carried out training practices in different research groups:

31 Bachelor Degree students at the University of Valencia (including TFD students)
21 Bachelor Degree students at the Polytechnic University of Valencia (including TFD students)
16 Master's Degree students at the University of Valencia (including TFM students)
6 Master's Degree students at the Polytechnic University of Valencia (including TFM students)
12 Bachelor Degree students from other universities (including TFD students)
9 Master's Degree students from other universities (including TFM students)
27 Higher Vocational Qualification students of public and/or private centers of the Valencian Community (including dual professional education students)
1 ESO students Program for acquiring knowledge about the world of work

TFD and TFM

The third call for applications for TFD and TFM Tutorials was opened in 2022. The call is aimed at university students enrolled in University Degrees and Masters in the Area of Health and Allied Sciences.

The following list shows the students who are going to do their TFD or TFM:

TFD

Míriam Millán Castillo - Genomics and Diabetes Unit - Mr. Javier Chaves and Mrs. Ana Bárbara García García
Mar Navarro Montes - Research Group on Breast Cancer Biology - Mrs. Pilar Eroles Asensio
Àngela Natividad i Mateu - Research Group on Psychiatry and Neurodegenerative Diseases - Mrs. Olga Rivero Martín
Javier Palou Queiro - Research Group on Cardiometabolic Risk and Diabetes and Research Group on Inflammation - Mrs. Vera Gomes Francisco and Mrs. Mª Jesús Sanz Ferrando
Paula Espinosa Molina - Research Group on Neurological Impairment - Mrs. Andrea Cabrera Pastor

Adrián Abellán Soriano - Research Group on Celullar and Organic Physiopathology of Oxidative Stress - Mr. Juan Antonio Navarro Langa

Sofía Sánchez Valle - Translational Research Group on Pediatric Solid Tumors - Mrs. Rosa Noguera Salvá

Raquel Rubio Soria - Translational Research Group on Pediatric Solid Tumors - Mrs. Rosa Noguera Salvá

TFM

Eva Albuixech Lluch - Genomics and Diabetes Unit - Mrs. Ana Bárbara García García and Mr. Javier Chaves

Carlos Javier Peña de los Santos - Bioinformatics Unit - Mrs. Sheila Zúñiga Trejos

Daniel González Camblor - Bioinformatics Unit - Mrs. Sheila Zúñiga Trejos

6.2 Training and teaching activities

Courses (27)

- *Curso online Gestión de la Cronicidad*
- *XII Curso COT: la cadera en el PostCOVID*
- *Sesiones de Formación Personal de Enfermería: complicaciones Post-Trasplante*
- *Curso online Cultivos Celulares*
- *Curso Protección de Datos*
- *Programa de Formación en Hemopatología 2022*
- *Sesiones de Formación Personal de Enfermería: acreditación JACIE del Programa de Trasplantes*
- *Sesiones de Innovación y Transferencia*
- *Sesiones de Formación Personal de Enfermería: procedimientos del banco de sangre*
- *Curso de Hepatología y Enfermedad Inflamatoria Intestinal*
- *Programa Formativo en Asma 2022*
- *Curso online Puesta al día en Terapia Anticoagulante*
- *Curso LLC 2022*
- *Preceptorship sobre Nefropatía Diabética*
- *Curso Fabricación Aditiva en el sector sanitario: presentación y objetivos generales. Mr. Pérez*
- *Curso Beart*
- *Programa de Excelencia y Actualización en Diabetes y Enfermedad Cardiovascular*
- *VIII Workshop Internacional de Ecografía y Resonancia*
- *II Curso de Laparoscopia Experimental para Residentes de Urología*
- *Curso de Formación online en modelado e impresión 3D: Fabricación aditiva en el sector sanitario. Mrs. Coloma*
- *Curso Scientific Skills Expert*
- *Curso de Formación online en modelado e impresión 3D: Fabricación aditiva en el sector sanitario. Mr. Redondo*
- *Programa Formativo Insuficiencia Cardiaca para médicos de Atención Primaria*
- *Curso de Formación online en modelado e impresión 3D: Fabricación aditiva en el sector sanitario. Mr. Diego*
- *Curso de Inteligencia Artificial y Big Data en salud*
- *Curso de Anatomía Quirúrgica Aplicada HBP*
- *VIII Workshop Cirugía Laparoscópica*

Scientific Conferences (28)

- *Jornada Ruta Asma*
- *Jornada Formativa Leucemia Linfocítica Crónica*
- *Jornada Ortopedia Infantil*
- *Jornada Hablando de COVID-19. Seis olas después, ¿nos preocupa lo mismo?*
- *Escisión Mesorrectal Total Transanal Laparoscopia (TaTME)*
- *Jornadas de Abordaje Diabetes AP*
- *Sesión* Multidisciplinar Inflammageing
- *Jornada MAIC Valencia*
- *Sesión Multidisciplinar FA y Cáncer más allá de la heparina*
- 10x Genomics new developments for single cell and spatial multiomics. Biology Insights for 2022 and beyond
- *Jornadas-Taller: Reimagina el día a día de un ensayo clínico*
- *II Jornada sobre la utilidad del Antígeno Carbohidrato 125*
- *II Encuentro: Innovación Hospitalaria*
- *V Edición Post ESMO 2022*
- *Jornada de Cirugía Laringo-Traqueal en el Hospital Clínico*
- *Encuentro Asociaciones Cáncer de Mama*
- *Proyecto Riscap8*
- *Jornada Multidisciplinar Amiloidosis INCLIVA-HCUV*
- *Jornada* Updating Diabetes
- *Rotación en el Servicio de Nefrología*
- *(STUI) y detección de Cáncer de Próstata*
- *Actualización Teórico-Práctica de LLC*
- *Taller Teórico-Práctico Autoadministración en DAAT*
- *Jornada de Envejecimiento Activo*
- *Investigación en Cáncer de Cabeza y Cuello: encuentro con pacientes*

- *Jornada Formativa en Técnicas de Abordaje del paciente con Espasticidad Postictus*
- *Jornada: El Segmento Pulmonar: la próxima frontera*
- *I Reunión de Investigación Cardiovascular en Enfermería*

INCLIVA Seminars / Meet the Expert (18)

- *Seminario INCLIVA Mr. Prat Enero 2022*
- *Seminario Deterioro Neurológico:* Neural migradon is impaired in the APP/PS1 Alzheimer's mice model due to increase senescence in migrating precursors cells. Mr. Esteve
- *Seminario Deterioro Neurológico: Caracterización de los procesos inflamatorios y alteraciones del sistema inmune asociados a la aparición de encefalopatía hepática mínima en pacientes cirróticos. Mr. Gallego*
- *Seminario INCLIVA Día de la Mujer: Importancia de las diferencias de género en la investigación. Mrs. Borrás*
- *Seminario INCLIVA Mr. Pla*
- *Seminario INCLIVA Mr. Plachta*
- *Seminario INCLIVA Mrs. Mayo-Ruiz*
- *Seminario: Sección de Imagen Biomédica y Metabolómica*
- *Seminario INCLIVA Mrs. Soucek*
- *Seminario Deterioro Neurológico: Neuroinflamación y neuropatía diabética. Mrs. Palanca*
- *Seminario INCLIVA Oncología Traslacional. Mrs. Marsoni*
- *Seminario INCLIVA Mrs. Figueiredo*
- *Seminario Deterioro Neurológico:* characterization and evaluation of alterations in sensitivity and autonomic function in patients with minimal hepatic encephalopathy. Mrs. Rega
- *Seminario:* Dreamlab: Harnessing artificial intelligence, mobile supercomputing and large omics data in the fight against cancer and COVID-19
- *Seminario Deterioro Neurológico: Neuroinflamación y neuropatía diabética. Mrs. Palanca.*
- *Seminario Deterioro Neurológico:* Apolipoprotein E4 and oxidative stress: a prospective study. Mrs. Nepomudeno
- *Seminario Deterioro Neurológico: Papel de las vesículas extracelulares en el deterioro cognitivo y motor en hiperamonemia y encefalopatía hepática. Mrs. Izquierdo*
- *Seminario:* Targeting cytosolic nucleic acid-sensing pathways in small C

Social Dissemination Days (6)

- *Hit Hospital Innovador*
- *Presentación Grupo Investigación en Atención Primaria*
- *Conecta INCLIVA*
- *I Encuentro Red de Mujeres por la Investigación Sanitaria*
- *Encuentro Direcciones Médicas de Hospitales CV*
- Shadow Visit 2022

com-
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INCLIVA SCIENTIFIC REPORT 2022

7. Communication
7.1 Highlights
7.2 Communication Indicators 2022

7.1. Highlights

January

- INCLIVA participates in the ALPHABET trial, promoted by GEICAM to delay the use of chemotherapy in patients with HER2+ metastatic breast cancer and PIK3CA mutation
- An INCLIVA study analyzes the development of pulmonary fibrosis in patients with COVID-19 pneumonia after hospital discharge
- An INCLIVA study analyzes cardiovascular risk in patients with familial hypercholesterolemia

February

- INCLIVA participates in a project led by IRB Barcelona to combat resistance to chemotherapy in triple negative breast cancer
- An INCLIVA project opens the door to new therapeutic approaches in patients with Friedreich's Ataxia (AF)

March

- The international study SIENDO shows the efficacy of the incorporation of the drug selinexor to the treatment in patients with endometrial cancer
- INCLIVA and Quibim sign a collaboration agreement to promote cancer research thanks to Artificial Intelligence
- The TuMiCC project, which investigates the tumor microenvironment in colon cancer, coordinated by INCLIVA, celebrates 16 months with the recruitment of patients and advances in the molecular characterization of tumors and their environment

April

- An INCLIVA study analyzes the importance of muscular strength exercise to prevent frailty in the elderly and promote healthy aging
- INCLIVA and the UV participate in an international study that has identified 120 genes related to schizophrenia
- The INCLIVA Precision Medicine Unit, key in the advancement of personalized medicine thanks to data analysis and the sequencing of DNA samples
- INCLIVA shows its research in the cardiovascular area in an open day

May

- INCLIVA organizes a meeting to report on the advances in research in organ donation for transplantation, neonatal sepsis, traumatology and orthopedic surgery and colorectal cancer
- An INCLIVA study tries to establish a molecular profile in liquid biopsy to anticipate outbreaks of activity in systemic lupus erythematosus (SLE) and risk of kidney damage
- INCLIVA participated in more than 170 clinical trials in 2021 that will advance early diagnosis and personalized treatment in multiple pathologies
- INCLIVA investigates the contribution of the endometrium in the origin of preeclampsia
- INCLIVA and UV undertake a line of research with the Dravet Syndrome Foundation to promote the development of advanced therapies
- INCLIVA analyzes the nutritional risk in hematopoietic stem cell transplantation (HSCT), a potentially curative treatment for different hematological diseases

June

- INCLIVA joins the European structure for the harmonization of health databases to improve the treatment of chronic diseases
- INCLIVA identifies the AXL protein as a specific biomarker and therapeutic target in HER2+ breast cancer
- INCLIVA researchers participate in international conferences in which the latest advances in hyperkalemia will be presented
- A pioneering work by INCLIVA, CIBERFES and UV studies the functional and genetic profiles of descendants of centenarians and non-centenarians of the same age
- The European project HUTER, led by INCLIVA, concludes to create the cellular map of the human uterus

7 communication

July

- INCLIVA and Smarthealth sign an agreement to advance in the control of chronic diseases through Artificial Intelligence techniques
- INCLIVA and INSVACOR promote research to improve the quality of life of patients after a serious cardiovascular event
- INCLIVA promotes a study for the differential diagnosis of benign uterine tumors and cancers
- INCLIVA trial shows improved maximal functional capacity in patients with heart failure and reduced ejection fraction attributable to dapagliflozin

August

- INCLIVA thanks the VCF Foundation for promoting the study 'Personalized physical exercise. Keys to aging better'
- A new test that allows the detection of different respiratory infections quickly and at low cost

September

- Nearly 30 Mediterranean faces of science are exhibited at Viveros to highlight the role of women in an exhibition organized by INCLIVA within the European project Mednight
- An INCLIVA clinical trial evaluates the efficacy of PRM-151 in patients with idiopathic pulmonary fibrosis (IPF)
- INCLIVA promotes sepsis research to improve prevention and early detection methods
- The ESMO 2022 Congress highlights the incidence in routine clinical practice of advances in immunotherapy and cell therapy
- INCLIVA investigates new molecular (liquid biopsy) and imaging biomarkers and new immunotherapy treatments in lymphomas
- INCLIVA shows the advances in breast cancer research in a meeting with patient associations

October

- Choko -Age project, which analyzes the possible favorable effects of chocolate enriched with vitamin E in the elderly with mild cognitive impairment
- INCLIVA carries out a study to create a model for predicting the development of Type 2 Diabetes Mellitus (DM2) from routine blood tests and simple patient parameters
- INCLIVA consolidates its position as a Biomedical Research Institute and its international prestige
- Valencia renews its recognition as a European site of reference in active and healthy aging with 4 stars, the highest rating
- The European MyPath project will develop an innovative digital tool to integrate the cancer patient's perspective in real time into daily clinical practice
- INCLIVA highlights the importance of supporting research on International Breast Cancer Day
- The INCLIVA Innovation Unit and the *Hospital Clínico Universitario de Valencia* will launch the Advanced Diagnostic Unit, based on printing and 3D Medical imaging (i3DM)

November

- INCLIVA seeks new biomarkers to develop personalized treatments in patients with localized colorectal cancer
- INCLIVA obtains three SEOM grants for breast cancer research
- INCLIVA receives a FERO Grant to study the role of the AXL protein in the modulation of the tumor microenvironment and in the immune system, which generates resistance to treatment in HER2+ breast cancer
- INCLIVA begins a study to identify NK (Natural Killer) lymphocytes that facilitate the recovery of immunity in patients with bone marrow transplants
- INCLIVA obtains three Gilead Grants for the investigation of new AI techniques applied to the treatment of non-Hodgkin lymphoma, the microbiome of young patients with gastric cancer and the inhibition of the AXL protein in the treatment of HER2+ breast cancer
- INCLIVA and the *Hospital Clínico Universitario de Valencia* show the advances in research in head and neck cancer in a meeting with patient associations

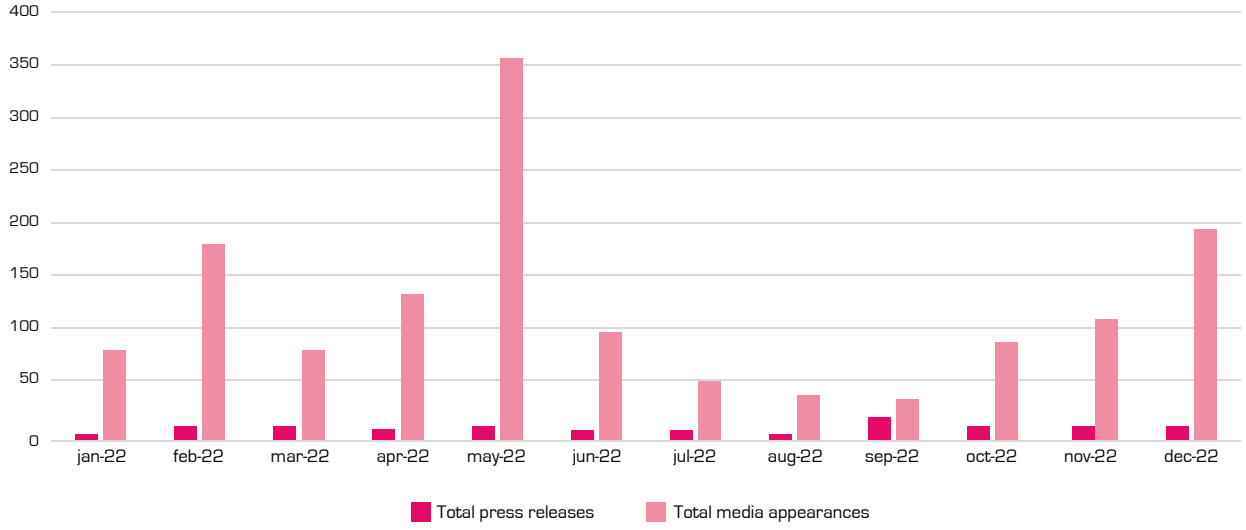
December

- INCLIVA invites people to give away health research at Christmas through a campaign that offers citizens the opportunity to contribute to promoting health advances that save more lives
- INCLIVA participates in ABIGAIL, an international clinical trial that will compare the efficacy of abemaciclib and endocrine therapy versus chemotherapy in advanced breast cancer
- INCLIVA participates in an international investigation for the development of new drugs for the treatment of hot flashes during menopause and in women survivors of breast cancer
- INCLIVA researchers, in collaboration with *Hospital General Universitario de Valencia* and *Hospital Universitario y Politécnico La Fe*, show, in the GENIAL clinical trial, that treatment with genistein could delay the onset of dementia in patients with Alzheimer's
- INCLIVA and EpiDisease SL organize the first International Meeting of the EIA Patient Journey (Adolescent Idiopathic Scoliosis)
- INCLIVA researchers develop artificial tumor models to discover therapeutic alternatives for neuroblastoma, the most common extracranial solid tumor in childhood
- INCLIVA rewards, for the third year, the care innovation of the Department of Clinical Health -Malvarrosa
- INCLIVA researchers identify a mutation in the SREBF2 gene as a possible cause of high cholesterol and glucose levels, cardiovascular risk factors

7.2. Communication Indicators 2022

Press office

During 2022, INCLIVA issued a total of 98 press releases on the Web.



	jan-22	feb-22	mar-22	apr-22	may-22	jun-22	jul-22	aug-22	sep-22	oct-22	nov-22	dec-22
Total press releases	3	8	7	6	9	7	4	2	15	12	11	14
Total media appearances	78	171	74	133	354	89	49	37	35	86	108	197

Social Media users 2022

7.030 5.848 13.681 1.636

7 communication

INCLIVA Website 2022



Website users	Website sessions	Website new sessions
90.688	169.512	89.917

Outreach 2022

98 Issued press releases

84 Newspieces on INCLIVA's website

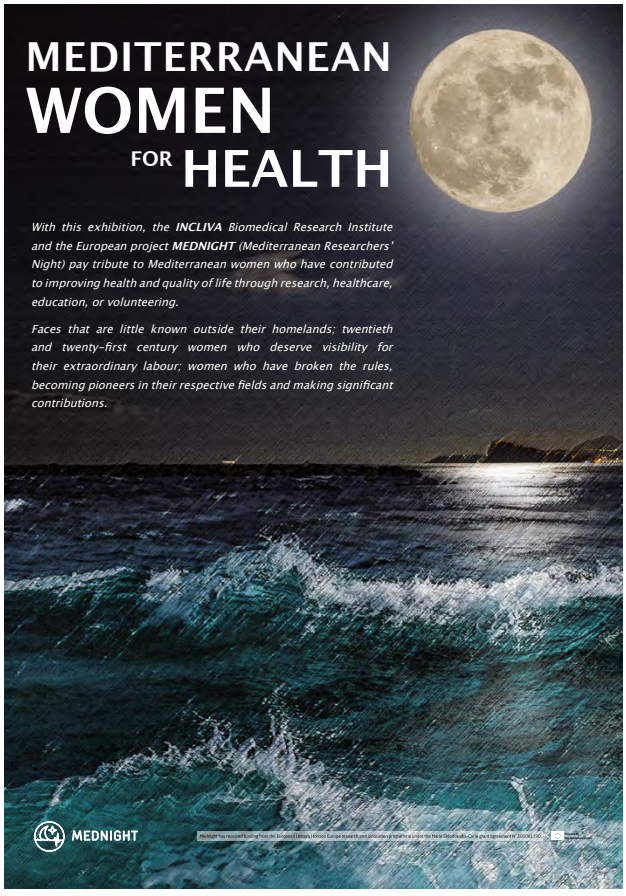
26 News on Radio

20 News on TV

In may was held *MedNight 2022: Nit Mediterrània de les investigadores*. The project, which started in 2020 and is celebrating its third edition this year, has received funding from the European Union thanks to the European Researchers' Night call, within the Marie Curie actions of the Horizon Europe programme. The Mednight was valued with 14 points out of 15 possible, obtaining 600,000 euros for the 2022 and 2023 editions.

In order to show the attractiveness and importance of the work and the profession of researchers to the general public, this year a series of activities have been carried out under the common umbrella of what Mednight calls Mediterranean Science.

Mednight brings together the participation of 10 institutions in a consortium: INCLIVA, FISABIO, CSIC, MUDIC, El Caleidoscopio, SciCo Cyprus, the University of Messina, the Kadir Has University of Istanbul and the European Association of Women Rectors (EWORA), under the coordination of SciCo Greece.



social initia-tives

INCLIVA SCIENTIFIC REPORT 2022

8. INCLIVA social initiatives

8.1 Philantropic projects

8.2 Private philantropic donations and acknowledgments

8. INCLIVA social initiatives

In 2022, the Institute of Health Research at the *Hospital Clínico Universitario de Valencia*, INCLIVA, launched an awareness campaign on the importance of health research to guarantee first-rate assistance in the field of public health, and thus save more lives every year.

Under the slogan *I support research*, which is part of its Patronage Plan, INCLIVA underlines the essential nature of research to achieve medical advances that translate into improved quality of life for all citizens.

These are the main highlights:

CAMPAIGNS

INCLIVA, AVA-ASAJA and VCF Foundation present the "Give research as a gift this Christmas" campaign awards

INCLIVA Biomedical Research Institute, attached to the *Hospital Clínico de Valencia*, has held a charity campaign in collaboration with the Valencian Association of Farmers (AVA-ASAJA) and the València Club de Fútbol (VCF) Foundation with the motto "Give research as a gift this Christmas", which has seen widespread public response.

Running until January 6, the campaign was aimed at raising awareness of the importance of health research and encouraging individual donations of any amount, big or small, and included a prize raffle supported by the Fundació VCF and the Valencian Association of Farmers (AVA-ASAJA), who collaborated by donating prizes to encourage participation.



OUTREACH ACTIVITY

The Mediterranean Researchers' Night (Mednight) begins its third edition on the Greek island of Lesbos

A group of institutions from Spain, Italy, Greece, Turkey, Cyprus and Belgium met on the Greek island of Lesbos on 7 and 8 of April to kick off the Mediterranean Researchers' Night (Mednight). Launched in 2020 and celebrating its third year in 2022, the project has received funding from the European Union via the European Researchers' Night call, one of the Marie Curie actions of the Horizon Europe programme. Mednight achieved a score of 14 out of 15 points, securing 600,000 euros in funding for the 2022 and 2023 editions.

INCLIVA has participated actively in Mednight, coordinating and organizing the different exhibitions that shine light on women scientists from the Mediterranean regions featured in the project.



DONATIONS

The Iraila National Association makes a new donation to INCLIVA for research in childhood cancer

Iraila, a national association for initiatives to fund childhood cancer research, has donated 10,000 euros to health research into childhood cancer, specifically to the research line on childhood tumours carried out by Mrs. Noguera.

Mrs. Noguera expressed her deep gratitude to the Iraila National Association for its generous financial support of the project and commendable work raising awareness of the importance of health research with a specific focus paediatric oncology. She has also highlighted the tireless work of its president, Juan Latorre, a 'Vilomah' parent who lost his daughter Iraila to neuroblastoma in 2014 when



she was 11 years old. Ever since his powerful appearance on the talent show "La Voz Kids", Juan Latorre has been promoting childhood cancer research fundraising activities, to keep his daughter's memory alive and out of the firm conviction that "the worldwide battle against cancer will not be won with new treatments alone, but will definitely be lost without research".



14/03/2022: The Valencia Endometriosis Association of (AAEV) joins INCLIVA in research into this disease

The Valencia Endometriosis Association (AAEV) has donated 1,000 euros to INCLIVA Biomedical Research Institute to contribute to research on this disease, the start of a collaboration between the two entities aimed at advancing diagnosis and treatment.

The AAEV, which brings together endometriosis sufferers and their family and friends, aims to raise awareness of the impact of this chronic disease, which impacts on the everyday life of women who experience this condition, affects their fertility, and is aggravated by detection difficulties, with an average diagnosis time of over nine years.

INCLIVA and *Corazón Solidario contra el Cáncer* show appreciation for the Fallas collectives' commitment to childhood cancer research



INCLIVA Biomedical Research Institute and *Corazón Solidario contra el Cáncer* have shown their gratitude to the Fallas Collectives for their extraordinary response and extensive involvement in the first Charity Piggy Bank Campaign launched by this association to support research into childhood cancer, which has raised 5,600 euros.

Accompanied by the Fallas Central Board Solidarity and Inclusion delegate Cristina Peris, representatives of the participating Fallas commissions handed over the donation at the INCLIVA headquarters. Participating in the event on behalf of INCLIVA were managing director Vicente de Juan, general secretary Maite Sáenz, and Mrs. Rosa Noguera, coordinator of the Paediatric Solid Tumor Translational Research Group. Representing *Corazón Solidario* were Josefa Jiménez Sacie, a volunteer whose business is also the association's point of sale, and Carmen Caballero from public relations.

INCLIVA thanks the VCF Foundation for supporting biomedical research



The INCLIVA Biomedical Research Institute has expressed its gratitude for the donation received from the VCF Foundation as part of the 50th Trofeu Taronja to fund the 'Personalized physical exercise: keys to aging better' study of the INCLIVA Aging and Physical Exercise Research Group directed by Mr. José Viña. This study aims to demonstrate the scientific-technical feasibility of defining a personalized, multicomponent, social and physical activity program for the over 70s, addressed at reversing frailty and preventing the risk of falls.

A gift symbolic of the donation of 10,000 euros was handed over to INCLIVA managing director Vicente de Juan in the Mestalla football grounds.

Las Triples Association collaborates with INCLIVA's research on triple negative breast cancer

The Las Triples Association (triple negative breast cancer association) will contribute funds for oncological research into triple negative breast

cancer through the INCLIVA Breast Cancer Biology Research Group. The specific project is 'Multidisciplinary dissection of the mechanisms of resistance in triple negative breast cancer: a step towards personalized medicine' led by doctors Juan Miguel Cejalvo and Pilar Eroles.

Both entities have this week signed a collaboration agreement to contribute to improving treatment efficacy for this tumour subtype, for which there is no specific therapeutic target. With an expected term of twelve months, the agreement may be extended up to a maximum of four years by express agreement of both parties.



The Vestidor Faller tailors present their third annual Charity Raffle (in collaboration with the Corazón Solidario Association) in support of breast cancer research

The Vestidor Faller have held a Charity Raffle for the third year running in collaboration with the Solidarity Heart Association against Cancer, which will be carried out to support INCLIVA breast cancer research. Running until the end of October, the campaign will conclude with the raffle prizegiving and donation of the money raised to INCLIVA.

The opening ceremony held in the INCLIVA auditorium was attended by Fallera Mayor of 2020 Consuelo Llobet representing the Fallas commissions, and Mr. Juan Miguel Cejalvo from the Breast Cancer Biology Research Group, who highlighted the need to advance research into increasingly effective treatments for different of breast cancer types.



INCLIVA receives 12,500 euros from the Le Cadó Foundation for breast cancer research

Le Cadó Foundation has donated 12,500 euros to INCLIVA for breast cancer research obtained from the 8th annual 'Walk for Life Castelló 2022' March Against Breast Cancer organized jointly with the Official College of Nurses to mark International Breast Cancer Day. The march raised a total of 25,000 euros for research into this disease.

More than 4,000 people participated in the march, which began at 10:30 a.m. in Plaça del Segon Molí to the rhythm of Ravatukem Batukada and passed along the streets of the city until reaching Ribalta Park, where the organization handed out two checks of 12,500 euros each to INCLIVA and the Universitat Jaume I.

The check for INCLIVA was collected by Mrs. Maite Martínez from the INCLIVA Breast Cancer Biology Research Group, director of breast cancer study in young women for the last three years, accompanied by Mrs. Cristina Hernando from the same research group.



AMUHCANMA donates 3,000 euros to INCLIVA for research into triple negative breast cancer

The Breast Cancer Association for Women and Men (AMUHCANMA) made a new donation of 3,000 euros to INCLIVA for triple negative breast cancer research. They have donated 14,800 euros to INCLIVA to different breast cancer projects since 2016.

AMUHCANMA, which celebrates its tenth anniversary next year, works to support and accompany people with breast cancer and their families, as well as raising public awareness of the need to continue research. This association located in the Port of Sagunto organizes fundraising workshops and activities such as the annual charity race held to mark International Breast Cancer Day, in which 1,340 runners took part this year.



The donation was presented by AMUHCANMA president Chelo Díaz Montserrat to Mrs. Pilar Eroles, co-coordinator of the INCLIVA Breast Cancer Biology Research Group.

Bancaja Foundation helps promote INCLIVA Precision Medicine Unit

In line with its aim to promote biotechnological research in the Valencian Community through a grants programme for social action, Bancaja Foundation has organised collaborations with three internationally renowned Valencian research centres: the INCLIVA Biomedical Research Institute, La Fe Health Research Institute (IIS La Fe) and the Foundation for promoting Health and Biomedical Research in the Valencian Community (Fundació Fisabio).

Supported by INCLIVA, the project will further promote the Oncology Precision Medicine Unit, which puts this institute at the forefront of cancer research in Spain, by transferring this type of novel approach to clinical practice in cancer patients referred from the *Hospital Clínico Universitario de València*. The Precision Medicine in Oncology project arose with the aim of identifying and characterizing new molecular targets in cancer patients to optimize and personalize treatment to each patient.



INCLIVA invites the public to give health research as a present at Christmas

INCLIVA Biomedical Research Institute has launched the "Give research as a gift this Christmas" campaign, which runs until January 6.

Aimed at raising awareness of the importance of health research, his campaign invites individual donations of any amount, big or small, offering the public the opportunity to contribute directly to scientific progress and to finding solutions to unresolved medical problems.

The "Give research as a gift this Christmas" campaign offers an opportunity for the public to select the project they wish to contribute to and help promote health advances to save more lives.

The Fundació VCF Valencia Football Club Foundation and AVA-ASAJA (honorary INCLIVA Ambassadors) will donate prizes to encourage participation.



8.1 Philanthropic projects

FUNDACIÓN LE CADó

Fundación Le Cadó was created in 2010 under the leadership of its president Elvira Monferrer Daudi. This initiative seeks to unite efforts and resources in supporting this kind of tumor research, which is currently the fourth leading cause of death in women.

Fundación Le Cadó collaborates with INCLIVA in funding the research project "Study of breast cancer in young women under 35 years", conducted by Mrs. Mª Teresa Martínez Martínez. It also involves other researchers such as Mrs. Isabel Chirivella (a genetic diagnosis specialist physician) and the entire team led by the oncologists Mrs. Ana Lluch and Mrs. Pilar Eroles.

FUNDACIÓN NEOBLASTOMA

The Neuroblastoma Foundation, created in 2017, funds research on neuroblastoma, a particularly aggressive type of childhood cancer that affects the nervous system. Survival figures have not improved in recent years. The Neuroblastoma foundation informs families about existing treatments, and brings together families of sick children, motivating them to raise funds for research through numerous campaigns. The funds are destined to research projects and clinical trials in Spanish laboratories and hospitals, this year this year the donation received has been 10.000 euros.

AMUNT CONTRA EL CANCER

Amunt Contra el Càncer is an association based in Denia, province of Alicante, that carries out different services and actions aimed at improving the quality of life of cancer patients and their families. Organizes informative talks, offers psychological support to patients and promotes various activities to raise funds for research. This year this year the donation received has been 49.500 euros.

CORAZÓN SOLIDARIO (SOLIDARITY HEART) ASSOCIATION

Corazón Solidario is an Association born out of the joint project of five colleagues, who having collaborated in various NGOs decided to pool their work to fundraise for the fight against cancer. All profits of this association go to INCLIVA.

PROYECTO PAULA

Proyecto Paula is a personal initiative to raise funds for diabetes research. The initiative has collaborated with INCLIVA since 2012, is financed with public funds and private donations from companies or individuals and supports the research of Mrs. Herminia Gonzalez at INCLIVA.

ASOCIACIÓN LAS TRIPLES

Asociación Las Triples is an association working to support triple negative breast cancer research, raise awareness of this cancer type, and disseminate updated information. It has collaborated with INCLIVA since 2022, supporting the research of Mr. Juan Miguel Cejalvo and Mrs. Pilar Eroles.

8 social initiatives

8.2 Private philanthropic donations and acknowledgments

On behalf of INCLIVA, we want to thank all the people who have helped our research through their donations, for their support and solidarity. For us, this collaboration means much more than an economic contribution: it is the encouragement we need to keep investigating and working in research.

Private donations

Abarca Briones, Isabel
Ahis Maneus, Francisco Joaquín
Alberola Casanova, Júlia
Albert Sorribes, Silvia
Alfonso Pastor, Yolanda
Alonso Sala, María Concepción
Anaya Paniagua, Ana
Aparicio Montell, Elena
Bayarri Esteve, Gonzalo
Bellver Alcaina, Miguel Ángel
Berenguer Pérez, Raquel
Blasco Molla, Sara
Blasco Navarro, María José
Borreda Bolinches, Esteban
Borreda Bolinches, Francisco
Bosch Sánchez, Susana
Botella Aparicio, Francisco
Burgos Armero, Mercedes
Caballer Molina, Rafael Pascual
Caballero de Luján, Guillermo
Caballero Turiño, Antonio
Caballero Turiño, José Carlos
Caballero Turiño, Ramón Ginés
Calvo Alfaro, María Pilar
Camacho Campos, Francisca
Camacho Gavilán, Miguel Ángel
Carrillo Sáez, Cristina
Casany Molero, María Consuelo
Cava Ferreruela, Inmaculada
Celma Olivares, Lorena
Confuorti Confuorti, Francesco
Cordero González, Pilar
Cuñat Natividad, Inmaculada
De Juan Martín, Vicente
De La Cruz Torres, María Isabel
De Vargas Montesinos, María Luisa
Dinnbier Escuder, Enriqueta
Domènech Villanueva, Ana María
Ebri Méndez, María Luisa
Esteve Garrido, Federico
Femenía Cabrera, Francisca
Fernández Aguilera, Ángel
Fernández López, Elisa
Ferrando Jódar, Néstor
Font Ferrando, Natalia
Frau Mengual, María Francisca
Gallart Navarro, Antonia
Gallart Navarro, Luis Miguel
García Trujillo, Jesús
Giménez Beltrán, María José
Gimeno Collado, Adelina
Gómez Dorado, Míriam
Gómez-Cano Gutiérrez, María José
Gómez-Ferrer Bolinches, Rocío
González Cavero, Jesús
González Molina, María
González Navarro, Herminia
Gras Martínez, María
Hernández Merino, Natividad
Herreras Monzó, Enrique
Horrillo Bosch, Laura Desamparados
Hurtado Ferrer, María
Lacruz García, Almudena
Llácer Llorca, María Francisca
Llorens Dasí, María Mercedes
Lodeiro Carpe, Patricia
López Serrano, Carmen
Luján Folgado, Mercedes

Manzanera Pastor, Ester
Marín Borrás, María Vera
Márquez Castelló, José María
Martí Pavía, Vicente
Martínez Álvarez, José Antonio
Martínez Espinosa, Alicia
Martínez González, Eva
Martínez Ruiz, Manuel
Martínez Villar, Míriam
Mendoza Hernández, Patricia
Miguel López, Rosa
Mocholí Martín, María Teresa
Molina García, Cristina
Morcillo Mañas, Manoli
Muñoz González, Amparo
Navarro Andrés, Miguel
Navío Ruiz, Noelia
Nicolás Garrido, Francisco
Ortí Campos, Leyre
Pardo Martí, José Manuel
Parras Ruiz, Vicky
Pereira Lepe, Julio César
Pérez González, José Luis
Pérez López, Laura
Peris Tatay, Joaquín
Pi Ramiro, María Jesús
Piqueres Mateu, Mónica
Pulido Carrillo, Antonio
Queralt Pesudo, Zaida
Quiles Agustí, Rafael
Quixal Alejos, María Trini
Ramírez Lomas, Gloria
Ramírez Serrano, Rubén
Regaño Dionis, Félix
Rodríguez, Mayuli
Rodríguez Deval, María Dolores
Ruix Barba, Esther
Ruix Vázquez, Susana
Sampere Vilar, Francisco Vicente
Sanabria Codesal, Esteban
Sánchez González, María José
Sánchez Muñoz, Vicenta
Sánchez Pérez, Sara
Santiago Pinazo, Sonia
Sanz Moliner, Ana
Schulze Steinen, Otto Heinrich
Serrano Monedero, María Julia
Solera Humada, Nuria
Téllez Plaza, Juan Manuel
Torres Ferrando, Vicente
Torres Hernández, María de les Neus
Tortajada Trenco, Elisa
Vila Eres, Pilar

Corporative donations

ACC Falla Gayano Lluch
Amunt Contra El Càncer
Asociación ALFA-1 de España
Asociación Alumnos EPA de Alaquàs
Asociación Corazón Solidario Contra El Cáncer
Asociación de Afectadas de Endometriosis de Valencia (AAEV)
Asociación de Afectados de Cáncer ASAC de Segorbe
Asociación de Mujeres y Hombres Afectados de Cáncer de Mama
Asociación de Padres de Alumnos del Instituto de Bachillerato Misericordia
Asociación La Virgen de los Dolores
Asociación Las Triples
Asociación Mujeres de La Cañada
Associació Contra el Càncer de Pego (Associació Esperança)
Associació Contra el Càncer La Vall (ACCLAVALL)
Associació Pel Teu Somriure
Ayuntamiento de Real de Gandía

8 social initiatives

Biomed Central Limited

Boston Scientific Iberica SA

Canals Contra el Cáncer

Club d' Atletisme Llebeig Xabia

Club Náutico Jávea

Doctaforum Servicios

European Cystic Fibrosis Society ECFS

Ezedichi SL

Falla Els Albalatans

Frío Hermanos Portero, SL

Fundación Bancaria La Caixa

Fundación de la Comunidad Valenciana Marqués de Dos Aguas

Fundación Javerianas Escuela Profesional Xavier

Fundación Lecadó

Fundación Neuroblastoma

Glaxosmithkline SA

Grupo Empresarial United Caro SLU

Iraila, Iniciativas para la Financiación de la Investigación del Cáncer Infantil

JBZ Diseño Técnico, SLU

Pfizer SLU

Postal Kids SC

Queserías Romero Gozálbez, SL

Theramex Healthcare Spain SLU

Torse SA

Trevoly Serv S.C. Andaluza

publi-ca-tions list

INCLIVA SCIENTIFIC REPORT 2022

9 publication list

List of 786 scientific publications derived from the activity of the IIS

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Biomedical Research Institute

Avda. Menéndez Pelayo, 4 accesorio · 46010 Valencia (España)

Tel. 34 96 197 35 17 Fax 34 96 197 35 40

www.incliva. es incliva@incliva.es

DEPARTAMENT DE SALUT DE VALENCIA
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VNIVERSITAT DE VALÈNCIA
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